

To: *NLC*

70-3098

Date: 16 July 2002

From: Jean Watts
Project Specialist

Errata to Transmittal MPPM0228: Please remove page **5-89 and 5-90** of Section 5, MFFF Environmental Report, and replace with the attached pages.

Thank you.

Nmssol
PJW



Table 5-13b. Summary of Bounding Low Consequence Events

Bounding Accident	Meteorology ^a	Maximum Impact to Site Worker (mrem)	Maximum Impact to Site Worker (probability of cancer deaths)	Maximum Impact to Person at Site Boundary (mrem)	Maximum Impact at Site Boundary (probability of cancer deaths)	Impact on Population within 80 km (person-rem)	Impact on Population within 80 km (LCFs)
Loss of Confinement	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Internal Fire	bounding – 95% percentile	<500	<2E-4	<4	<2E-6	<5E-3	<3E-6
Load Handling	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Hypothetical Explosion Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A
Hypothetical Criticality Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A

^a Values calculated for 50th percentile indicate that median meteorology is at least three times lower than the bounding values

**Table 5-14. Potential Impacts from Construction of the PDCF and WSB Facilities
in the SRS F Area**

Pollutant	Impact from PDCF and WSB Construction ^a
8-hr Carbon Monoxide Increase ($\mu\text{g}/\text{m}^3$) ^b	3.8
Annual Nitrogen Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.17
Annual PM ₁₀ Increase ($\mu\text{g}/\text{m}^3$) ^b	0.078
Annual Sulfur Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.054
Annual Total Suspended Particulate Increase ($\mu\text{g}/\text{m}^3$) ^b	0.156
Dose to Workers ^c (person-rem/yr)	2.8
Average Worker Dose ^c (mrem/yr)	4
Hazardous waste ^d (m ³ /yr)	85
Nonhazardous Waste ^d	
Liquid ^d (m ³ /yr)	26,300
Solid ^d (m ³ /yr)	2,320

^a Source: MFFF ER Appendix G; SPD EIS (DOE 1999c)

^b Table G-70 of the SPD EIS (DOE 1999c)

^c Table J-55 of the SPD EIS (DOE 1999c)

^d Table H-33 of the SPD EIS (DOE 1999c)

R2

Table 5-13b. Summary of Bounding Low Consequence Events

Bounding Accident	Meteorology ^a	Maximum Impact to Site Worker (mrem)	Maximum Impact to Site Worker (probability of cancer deaths)	Maximum Impact to Person at Site Boundary (mrem)	Maximum Impact at Site Boundary (probability of cancer deaths)	Impact on Population within 80 km (person-rem)	Impact on Population within 80 km (LCFs)
Loss of Confinement	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Internal Fire	bounding – 95% percentile	<500	<2E-4	<4	<2E-6	<5E-3	<3E-6
Load Handling	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Hypothetical Explosion Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A
Hypothetical Criticality Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A

^a Values calculated for 50th percentile indicate that median meteorology is at least three times lower than the bounding values

Table 5-14. Potential Impacts from Construction of the PDCF and WSB Facilities in the SRS F Area

Pollutant	Impact from PDCF and WSB Construction ^a
8-hr Carbon Monoxide Increase ($\mu\text{g}/\text{m}^3$) ^b	3.8
Annual Nitrogen Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.17
Annual PM ₁₀ Increase ($\mu\text{g}/\text{m}^3$) ^b	0.078
Annual Sulfur Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.054
Annual Total Suspended Particulate Increase ($\mu\text{g}/\text{m}^3$) ^b	0.156
Dose to Workers ^c (person-rem/yr)	2.8
Average Worker Dose ^c (mrem/yr)	4
Hazardous waste ^d (m ³ /yr)	85
Nonhazardous Waste ^d	
Liquid ^d (m ³ /yr)	26,300
Solid ^d (m ³ /yr)	2,320

^a Source: MFFF ER Appendix G; SPD EIS (DOE 1999c)

^b Table G-70 of the SPD EIS (DOE 1999c)

^c Table J-55 of the SPD EIS (DOE 1999c)

^d Table H-33 of the SPD EIS (DOE 1999c)

R2

Table 5-13b. Summary of Bounding Low Consequence Events

Bounding Accident	Meteorology ^a	Maximum Impact to Site Worker (mrem)	Maximum Impact to Site Worker (probability of cancer deaths)	Maximum Impact to Person at Site Boundary (mrem)	Maximum Impact at Site Boundary (probability of cancer deaths)	Impact on Population within 80 km (person-rem)	Impact on Population within 80 km (LCFs)
Loss of Confinement	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Internal Fire	bounding – 95% percentile	<500	<2E-4	<4	<2E-6	<5E-3	<3E-6
Load Handling	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Hypothetical Explosion Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A
Hypothetical Criticality Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A

^a Values calculated for 50th percentile indicate that median meteorology is at least three times lower than the bounding values

Table 5-14. Potential Impacts from Construction of the PDCF and WSB Facilities in the SRS F Area

Pollutant	Impact from PDCF and WSB Construction ^a
8-hr Carbon Monoxide Increase ($\mu\text{g}/\text{m}^3$) ^b	3.8
Annual Nitrogen Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.17
Annual PM ₁₀ Increase ($\mu\text{g}/\text{m}^3$) ^b	0.078
Annual Sulfur Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.054
Annual Total Suspended Particulate Increase ($\mu\text{g}/\text{m}^3$) ^b	0.156
Dose to Workers ^c (person-rem/yr)	2.8
Average Worker Dose ^c (mrem/yr)	4
Hazardous waste ^d (m ³ /yr)	85
Nonhazardous Waste ^d	
Liquid ^d (m ³ /yr)	26,300
Solid ^d (m ³ /yr)	2,320

^a Source: MFFF ER Appendix G; SPD EIS (DOE 1999c)

^b Table G-70 of the SPD EIS (DOE 1999c)

^c Table J-55 of the SPD EIS (DOE 1999c)

^d Table H-33 of the SPD EIS (DOE 1999c)

R2



R2

Table 5-13b. Summary of Bounding Low Consequence Events

Bounding Accident	Meteorology ^a	Maximum Impact to Site Worker (mrem)	Maximum Impact to Site Worker (probability of cancer deaths)	Maximum Impact to Person at Site Boundary (mrem)	Maximum Impact at Site Boundary (probability of cancer deaths)	Impact on Population within 80 km (person-rem)	Impact on Population within 80 km (LCFs)
Loss of Confinement	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Internal Fire	bounding – 95% percentile	<500	<2E-4	<4	<2E-6	<5E-3	<3E-6
Load Handling	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Hypothetical Explosion Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A
Hypothetical Criticality Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A

^a Values calculated for 50th percentile indicate that median meteorology is at least three times lower than the bounding values

Table 5-14. Potential Impacts from Construction of the PDCF and WSB Facilities in the SRS F Area

Pollutant	Impact from PDCF and WSB Construction ^a
8-hr Carbon Monoxide Increase ($\mu\text{g}/\text{m}^3$) ^b	3.8
Annual Nitrogen Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.17
Annual PM_{10} Increase ($\mu\text{g}/\text{m}^3$) ^b	0.078
Annual Sulfur Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.054
Annual Total Suspended Particulate Increase ($\mu\text{g}/\text{m}^3$) ^b	0.156
Dose to Workers ^c (person-rem/yr)	2.8
Average Worker Dose ^c (mrem/yr)	4
Hazardous waste ^d (m^3/yr)	85
Nonhazardous Waste ^d	
Liquid ^d (m^3/yr)	26,300
Solid ^d (m^3/yr)	2,320

^a Source: MFFF ER Appendix G; SPD EIS (DOE 1999c)

^b Table G-70 of the SPD EIS (DOE 1999c)

^c Table J-55 of the SPD EIS (DOE 1999c)

^d Table H-33 of the SPD EIS (DOE 1999c)

R2



R2

Table 5-13b. Summary of Bounding Low Consequence Events

Bounding Accident	Meteorology ^a	Maximum Impact to Site Worker (mrem)	Maximum Impact to Site Worker (probability of cancer deaths)	Maximum Impact to Person at Site Boundary (mrem)	Maximum Impact at Site Boundary (probability of cancer deaths)	Impact on Population within 80 km (person-rem)	Impact on Population within 80 km (LCFs)
Loss of Confinement	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Internal Fire	bounding – 95% percentile	<500	<2E-4	<4	<2E-6	<5E-3	<3E-6
Load Handling	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Hypothetical Explosion Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A
Hypothetical Criticality Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A

^a Values calculated for 50th percentile indicate that median meteorology is at least three times lower than the bounding values

**Table 5-14. Potential Impacts from Construction of the PDCF and WSB Facilities
in the SRS F Area**

Pollutant	Impact from PDCF and WSB Construction ^a
8-hr Carbon Monoxide Increase ($\mu\text{g}/\text{m}^3$) ^b	3.8
Annual Nitrogen Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.17
Annual PM ₁₀ Increase ($\mu\text{g}/\text{m}^3$) ^b	0.078
Annual Sulfur Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.054
Annual Total Suspended Particulate Increase ($\mu\text{g}/\text{m}^3$) ^b	0.156
Dose to Workers ^c (person-rem/yr)	2.8
Average Worker Dose ^c (mrem/yr)	4
Hazardous waste ^d (m ³ /yr)	85
Nonhazardous Waste ^d	
Liquid ^d (m ³ /yr)	26,300
Solid ^d (m ³ /yr)	2,320

^a Source: MFFF ER Appendix G; SPD EIS (DOE 1999c)

^b Table G-70 of the SPD EIS (DOE 1999c)

^c Table J-55 of the SPD EIS (DOE 1999c)

^d Table H-33 of the SPD EIS (DOE 1999c)

R2



R2

Table 5-13b. Summary of Bounding Low Consequence Events

Bounding Accident	Meteorology ^a	Maximum Impact to Site Worker (mrem)	Maximum Impact to Site Worker (probability of cancer deaths)	Maximum Impact to Person at Site Boundary (mrem)	Maximum Impact at Site Boundary (probability of cancer deaths)	Impact on Population within 80 km (person-rem)	Impact on Population within 80 km (LCFs)
Loss of Confinement	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Internal Fire	bounding – 95% percentile	<500	<2E-4	<4	<2E-6	<5E-3	<3E-6
Load Handling	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Hypothetical Explosion Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A
Hypothetical Criticality Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A

^a Values calculated for 50th percentile indicate that median meteorology is at least three times lower than the bounding values

Table 5-14. Potential Impacts from Construction of the PDCF and WSB Facilities in the SRS F Area

Pollutant	Impact from PDCF and WSB Construction ^a
8-hr Carbon Monoxide Increase ($\mu\text{g}/\text{m}^3$) ^b	3.8
Annual Nitrogen Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.17
Annual PM ₁₀ Increase ($\mu\text{g}/\text{m}^3$) ^b	0.078
Annual Sulfur Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.054
Annual Total Suspended Particulate Increase ($\mu\text{g}/\text{m}^3$) ^b	0.156
Dose to Workers ^c (person-rem/yr)	2.8
Average Worker Dose ^c (mrem/yr)	4
Hazardous waste ^d (m ³ /yr)	85
Nonhazardous Waste ^d	
Liquid ^d (m ³ /yr)	26,300
Solid ^d (m ³ /yr)	2,320

^a Source: MFFF ER Appendix G; SPD EIS (DOE 1999c)

^b Table G-70 of the SPD EIS (DOE 1999c)

^c Table J-55 of the SPD EIS (DOE 1999c)

^d Table H-33 of the SPD EIS (DOE 1999c)

R2

Table 5-13b. Summary of Bounding Low Consequence Events

Bounding Accident	Meteorology ^a	Maximum Impact to Site Worker (mrem)	Maximum Impact to Site Worker (probability of cancer deaths)	Maximum Impact to Person at Site Boundary (mrem)	Maximum Impact at Site Boundary (probability of cancer deaths)	Impact on Population within 80 km (person-rem)	Impact on Population within 80 km (LCFs)
Loss of Confinement	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Internal Fire	bounding – 95% percentile	<500	<2E-4	<4	<2E-6	<5E-3	<3E-6
Load Handling	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Hypothetical Explosion Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A
Hypothetical Criticality Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A

^a Values calculated for 50th percentile indicate that median meteorology is at least three times lower than the bounding values

**Table 5-14. Potential Impacts from Construction of the PDCF and WSB Facilities
in the SRS F Area**

Pollutant	Impact from PDCF and WSB Construction ^a
8-hr Carbon Monoxide Increase ($\mu\text{g}/\text{m}^3$) ^b	3.8
Annual Nitrogen Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.17
Annual PM ₁₀ Increase ($\mu\text{g}/\text{m}^3$) ^b	0.078
Annual Sulfur Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.054
Annual Total Suspended Particulate Increase ($\mu\text{g}/\text{m}^3$) ^b	0.156
Dose to Workers ^c (person-rem/yr)	2.8
Average Worker Dose ^c (mrem/yr)	4
Hazardous waste ^d (m ³ /yr)	85
Nonhazardous Waste ^d	
Liquid ^d (m ³ /yr)	26,300
Solid ^d (m ³ /yr)	2,320

^a Source: MFFF ER Appendix G; SPD EIS (DOE 1999c)

^b Table G-70 of the SPD EIS (DOE 1999c)

^c Table J-55 of the SPD EIS (DOE 1999c)

^d Table H-33 of the SPD EIS (DOE 1999c)

R2



R2

Table 5-13b. Summary of Bounding Low Consequence Events

Bounding Accident	Meteorology ^a	Maximum Impact to Site Worker (mrem)	Maximum Impact to Site Worker (probability of cancer deaths)	Maximum Impact to Person at Site Boundary (mrem)	Maximum Impact at Site Boundary (probability of cancer deaths)	Impact on Population within 80 km (person-rem)	Impact on Population within 80 km (LCFs)
Loss of Confinement	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Internal Fire	bounding – 95% percentile	<500	<2E-4	<4	<2E-6	<5E-3	<3E-6
Load Handling	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Hypothetical Explosion Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A
Hypothetical Criticality Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A

^a Values calculated for 50th percentile indicate that median meteorology is at least three times lower than the bounding values

Table 5-14. Potential Impacts from Construction of the PDCF and WSB Facilities in the SRS F Area

Pollutant	Impact from PDCF and WSB Construction ^a
8-hr Carbon Monoxide Increase ($\mu\text{g}/\text{m}^3$) ^b	3.8
Annual Nitrogen Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.17
Annual PM ₁₀ Increase ($\mu\text{g}/\text{m}^3$) ^b	0.078
Annual Sulfur Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.054
Annual Total Suspended Particulate Increase ($\mu\text{g}/\text{m}^3$) ^b	0.156
Dose to Workers ^c (person-rem/yr)	2.8
Average Worker Dose ^c (mrem/yr)	4
Hazardous waste ^d (m ³ /yr)	85
Nonhazardous Waste ^d	
Liquid ^d (m ³ /yr)	26,300
Solid ^d (m ³ /yr)	2,320

^a Source: MFFF ER Appendix G; SPD EIS (DOE 1999c)

^b Table G-70 of the SPD EIS (DOE 1999c)

^c Table J-55 of the SPD EIS (DOE 1999c)

^d Table H-33 of the SPD EIS (DOE 1999c)

R2



R2

Table 5-13b. Summary of Bounding Low Consequence Events

Bounding Accident	Meteorology ^a	Maximum Impact to Site Worker (mrem)	Maximum Impact to Site Worker (probability of cancer deaths)	Maximum Impact to Person at Site Boundary (mrem)	Maximum Impact at Site Boundary (probability of cancer deaths)	Impact on Population within 80 km (person-rem)	Impact on Population within 80 km (LCFs)
Loss of Confinement	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Internal Fire	bounding – 95% percentile	<500	<2E-4	<4	<2E-6	<5E-3	<3E-6
Load Handling	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Hypothetical Explosion Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A
Hypothetical Criticality Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A

^a Values calculated for 50th percentile indicate that median meteorology is at least three times lower than the bounding values

Table 5-14. Potential Impacts from Construction of the PDCF and WSB Facilities in the SRS F Area

Pollutant	Impact from PDCF and WSB Construction ^a
8-hr Carbon Monoxide Increase ($\mu\text{g}/\text{m}^3$) ^b	3.8
Annual Nitrogen Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.17
Annual PM ₁₀ Increase ($\mu\text{g}/\text{m}^3$) ^b	0.078
Annual Sulfur Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.054
Annual Total Suspended Particulate Increase ($\mu\text{g}/\text{m}^3$) ^b	0.156
Dose to Workers ^c (person-rem/yr)	2.8
Average Worker Dose ^c (mrem/yr)	4
Hazardous waste ^d (m ³ /yr)	85
Nonhazardous Waste ^d	
Liquid ^d (m ³ /yr)	26,300
Solid ^d (m ³ /yr)	2,320

^a Source: MFFF ER Appendix G; SPD EIS (DOE 1999c)

^b Table G-70 of the SPD EIS (DOE 1999c)

^c Table J-55 of the SPD EIS (DOE 1999c)

^d Table H-33 of the SPD EIS (DOE 1999c)

R2

Table 5-13b. Summary of Bounding Low Consequence Events

Bounding Accident	Meteorology ^a	Maximum Impact to Site Worker (mrem)	Maximum Impact to Site Worker (probability of cancer deaths)	Maximum Impact to Person at Site Boundary (mrem)	Maximum Impact at Site Boundary (probability of cancer deaths)	Impact on Population within 80 km (person-rem)	Impact on Population within 80 km (LCFs)
Loss of Confinement	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Internal Fire	bounding – 95% percentile	<500	<2E-4	<4	<2E-6	<5E-3	<3E-6
Load Handling	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Hypothetical Explosion Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A
Hypothetical Criticality Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A

^a Values calculated for 50th percentile indicate that median meteorology is at least three times lower than the bounding values

Table 5-14. Potential Impacts from Construction of the PDCF and WSB Facilities in the SRS F Area

Pollutant	Impact from PDCF and WSB Construction ^a
8-hr Carbon Monoxide Increase ($\mu\text{g}/\text{m}^3$) ^b	3.8
Annual Nitrogen Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.17
Annual PM ₁₀ Increase ($\mu\text{g}/\text{m}^3$) ^b	0.078
Annual Sulfur Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.054
Annual Total Suspended Particulate Increase ($\mu\text{g}/\text{m}^3$) ^b	0.156
Dose to Workers ^c (person-rem/yr)	2.8
Average Worker Dose ^c (mrem/yr)	4
Hazardous waste ^d (m ³ /yr)	85
Nonhazardous Waste ^d	
Liquid ^d (m ³ /yr)	26,300
Solid ^d (m ³ /yr)	2,320

^a Source: MFFF ER Appendix G; SPD EIS (DOE 1999c)

^b Table G-70 of the SPD EIS (DOE 1999c)

^c Table J-55 of the SPD EIS (DOE 1999c)

^d Table H-33 of the SPD EIS (DOE 1999c)

R2



R2

Table 5-13b. Summary of Bounding Low Consequence Events

Bounding Accident	Meteorology ^a	Maximum Impact to Site Worker (mrem)	Maximum Impact to Site Worker (probability of cancer deaths)	Maximum Impact to Person at Site Boundary (mrem)	Maximum Impact at Site Boundary (probability of cancer deaths)	Impact on Population within 80 km (person-rem)	Impact on Population within 80 km (LCFs)
Loss of Confinement	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Internal Fire	bounding – 95% percentile	<500	<2E-4	<4	<2E-6	<5E-3	<3E-6
Load Handling	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Hypothetical Explosion Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A
Hypothetical Criticality Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A

^a Values calculated for 50th percentile indicate that median meteorology is at least three times lower than the bounding values

Table 5-14. Potential Impacts from Construction of the PDCF and WSB Facilities in the SRS F Area

Pollutant	Impact from PDCF and WSB Construction ^a
8-hr Carbon Monoxide Increase ($\mu\text{g}/\text{m}^3$) ^b	3.8
Annual Nitrogen Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.17
Annual PM ₁₀ Increase ($\mu\text{g}/\text{m}^3$) ^b	0.078
Annual Sulfur Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.054
Annual Total Suspended Particulate Increase ($\mu\text{g}/\text{m}^3$) ^b	0.156
Dose to Workers ^c (person-rem/yr)	2.8
Average Worker Dose ^c (mrem/yr)	4
Hazardous waste ^d (m ³ /yr)	85
Nonhazardous Waste ^d	
Liquid ^d (m ³ /yr)	26,300
Solid ^d (m ³ /yr)	2,320

^a Source: MFFF ER Appendix G; SPD EIS (DOE 1999c)

^b Table G-70 of the SPD EIS (DOE 1999c)

^c Table J-55 of the SPD EIS (DOE 1999c)

^d Table H-33 of the SPD EIS (DOE 1999c)

R2



R2

Table 5-13b. Summary of Bounding Low Consequence Events

Bounding Accident	Meteorology ^a	Maximum Impact to Site Worker (mrem)	Maximum Impact to Site Worker (probability of cancer deaths)	Maximum Impact to Person at Site Boundary (mrem)	Maximum Impact at Site Boundary (probability of cancer deaths)	Impact on Population within 80 km (person-rem)	Impact on Population within 80 km (LCFs)
Loss of Confinement	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Internal Fire	bounding – 95% percentile	<500	<2E-4	<4	<2E-6	<5E-3	<3E-6
Load Handling	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Hypothetical Explosion Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A
Hypothetical Criticality Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A

^a Values calculated for 50th percentile indicate that median meteorology is at least three times lower than the bounding values

**Table 5-14. Potential Impacts from Construction of the PDCF and WSB Facilities
in the SRS F Area**

Pollutant	Impact from PDCF and WSB Construction ^a
8-hr Carbon Monoxide Increase ($\mu\text{g}/\text{m}^3$) ^b	3.8
Annual Nitrogen Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.17
Annual PM ₁₀ Increase ($\mu\text{g}/\text{m}^3$) ^b	0.078
Annual Sulfur Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.054
Annual Total Suspended Particulate Increase ($\mu\text{g}/\text{m}^3$) ^b	0.156
Dose to Workers ^c (person-rem/yr)	2.8
Average Worker Dose ^c (mrem/yr)	4
Hazardous waste ^d (m ³ /yr)	85
Nonhazardous Waste ^d	
Liquid ^d (m ³ /yr)	26,300
Solid ^d (m ³ /yr)	2,320

^a Source: MFFF ER Appendix G; SPD EIS (DOE 1999c)

^b Table G-70 of the SPD EIS (DOE 1999c)

^c Table J-55 of the SPD EIS (DOE 1999c)

^d Table H-33 of the SPD EIS (DOE 1999c)

R2

Table 5-13b. Summary of Bounding Low Consequence Events

Bounding Accident	Meteorology ^a	Maximum Impact to Site Worker (mrem)	Maximum Impact to Site Worker (probability of cancer deaths)	Maximum Impact to Person at Site Boundary (mrem)	Maximum Impact at Site Boundary (probability of cancer deaths)	Impact on Population within 80 km (person-rem)	Impact on Population within 80 km (LCFs)
Loss of Confinement	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Internal Fire	bounding – 95% percentile	<500	<2E-4	<4	<2E-6	<5E-3	<3E-6
Load Handling	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Hypothetical Explosion Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A
Hypothetical Criticality Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A

^a Values calculated for 50th percentile indicate that median meteorology is at least three times lower than the bounding values

**Table 5-14. Potential Impacts from Construction of the PDCF and WSB Facilities
in the SRS F Area**

Pollutant	Impact from PDCF and WSB Construction ^a
8-hr Carbon Monoxide Increase ($\mu\text{g}/\text{m}^3$) ^b	3.8
Annual Nitrogen Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.17
Annual PM ₁₀ Increase ($\mu\text{g}/\text{m}^3$) ^b	0.078
Annual Sulfur Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.054
Annual Total Suspended Particulate Increase ($\mu\text{g}/\text{m}^3$) ^b	0.156
Dose to Workers ^c (person-rem/yr)	2.8
Average Worker Dose ^c (mrem/yr)	4
Hazardous waste ^d (m ³ /yr)	85
Nonhazardous Waste ^d	
Liquid ^d (m ³ /yr)	26,300
Solid ^d (m ³ /yr)	2,320

^a Source: MFFF ER Appendix G; SPD EIS (DOE 1999c)

^b Table G-70 of the SPD EIS (DOE 1999c)

^c Table J-55 of the SPD EIS (DOE 1999c)

^d Table H-33 of the SPD EIS (DOE 1999c)

R2



R2

Table 5-13b. Summary of Bounding Low Consequence Events

Bounding Accident	Meteorology ^a	Maximum Impact to Site Worker (mrem)	Maximum Impact to Site Worker (probability of cancer deaths)	Maximum Impact to Person at Site Boundary (mrem)	Maximum Impact at Site Boundary (probability of cancer deaths)	Impact on Population within 80 km (person-rem)	Impact on Population within 80 km (LCFs)
Loss of Confinement	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Internal Fire	bounding – 95% percentile	<500	<2E-4	<4	<2E-6	<5E-3	<3E-6
Load Handling	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Hypothetical Explosion Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A
Hypothetical Criticality Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A

^a Values calculated for 50th percentile indicate that median meteorology is at least three times lower than the bounding values

Table 5-14. Potential Impacts from Construction of the PDCF and WSB Facilities in the SRS F Area

Pollutant	Impact from PDCF and WSB Construction ^a
8-hr Carbon Monoxide Increase ($\mu\text{g}/\text{m}^3$) ^b	3.8
Annual Nitrogen Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.17
Annual PM ₁₀ Increase ($\mu\text{g}/\text{m}^3$) ^b	0.078
Annual Sulfur Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.054
Annual Total Suspended Particulate Increase ($\mu\text{g}/\text{m}^3$) ^b	0.156
Dose to Workers ^c (person-rem/yr)	2.8
Average Worker Dose ^c (mrem/yr)	4
Hazardous waste ^d (m ³ /yr)	85
Nonhazardous Waste ^d	
Liquid ^d (m ³ /yr)	26,300
Solid ^d (m ³ /yr)	2,320

^a Source: MFFF ER Appendix G; SPD EIS (DOE 1999c)

^b Table G-70 of the SPD EIS (DOE 1999c)

^c Table J-55 of the SPD EIS (DOE 1999c)

^d Table H-33 of the SPD EIS (DOE 1999c)

R2



Table 5-13b. Summary of Bounding Low Consequence Events

Bounding Accident	Meteorology ^a	Maximum Impact to Site Worker (mrem)	Maximum Impact to Site Worker (probability of cancer deaths)	Maximum Impact to Person at Site Boundary (mrem)	Maximum Impact at Site Boundary (probability of cancer deaths)	Impact on Population within 80 km (person-rem)	Impact on Population within 80 km (LCFs)
Loss of Confinement	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Internal Fire	bounding – 95% percentile	<500	<2E-4	<4	<2E-6	<5E-3	<3E-6
Load Handling	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Hypothetical Explosion Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A
Hypothetical Criticality Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A

^a Values calculated for 50th percentile indicate that median meteorology is at least three times lower than the bounding values

Table 5-14. Potential Impacts from Construction of the PDCF and WSB Facilities in the SRS F Area

Pollutant	Impact from PDCF and WSB Construction ^a
8-hr Carbon Monoxide Increase ($\mu\text{g}/\text{m}^3$) ^b	3.8
Annual Nitrogen Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.17
Annual PM ₁₀ Increase ($\mu\text{g}/\text{m}^3$) ^b	0.078
Annual Sulfur Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.054
Annual Total Suspended Particulate Increase ($\mu\text{g}/\text{m}^3$) ^b	0.156
Dose to Workers ^c (person-rem/yr)	2.8
Average Worker Dose ^c (mrem/yr)	4
Hazardous waste ^d (m ³ /yr)	85
Nonhazardous Waste ^d	
Liquid ^d (m ³ /yr)	26,300
Solid ^d (m ³ /yr)	2,320

^a Source: MFFF ER Appendix G; SPD EIS (DOE 1999c)

^b Table G-70 of the SPD EIS (DOE 1999c)

^c Table J-55 of the SPD EIS (DOE 1999c)

^d Table H-33 of the SPD EIS (DOE 1999c)

R2

Table 5-13b. Summary of Bounding Low Consequence Events

Bounding Accident	Meteorology ^a	Maximum Impact to Site Worker (mrem)	Maximum Impact to Site Worker (probability of cancer deaths)	Maximum Impact to Person at Site Boundary (mrem)	Maximum Impact at Site Boundary (probability of cancer deaths)	Impact on Population within 80 km (person-rem)	Impact on Population within 80 km (LCFs)
Loss of Confinement	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Internal Fire	bounding – 95% percentile	<500	<2E-4	<4	<2E-6	<5E-3	<3E-6
Load Handling	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Hypothetical Explosion Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A
Hypothetical Criticality Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A

^a Values calculated for 50th percentile indicate that median meteorology is at least three times lower than the bounding values

Table 5-14. Potential Impacts from Construction of the PDCF and WSB Facilities in the SRS F Area

Pollutant	Impact from PDCF and WSB Construction ^a
8-hr Carbon Monoxide Increase ($\mu\text{g}/\text{m}^3$) ^b	3.8
Annual Nitrogen Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.17
Annual PM ₁₀ Increase ($\mu\text{g}/\text{m}^3$) ^b	0.078
Annual Sulfur Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.054
Annual Total Suspended Particulate Increase ($\mu\text{g}/\text{m}^3$) ^b	0.156
Dose to Workers ^c (person-rem/yr)	2.8
Average Worker Dose ^c (mrem/yr)	4
Hazardous waste ^d (m ³ /yr)	85
Nonhazardous Waste ^d	
Liquid ^d (m ³ /yr)	26,300
Solid ^d (m ³ /yr)	2,320

^a Source: MFFF ER Appendix G; SPD EIS (DOE 1999c)

^b Table G-70 of the SPD EIS (DOE 1999c)

^c Table J-55 of the SPD EIS (DOE 1999c)

^d Table H-33 of the SPD EIS (DOE 1999c)

R2

Table 5-13b. Summary of Bounding Low Consequence Events

Bounding Accident	Meteorology ^a	Maximum Impact to Site Worker (mrem)	Maximum Impact to Site Worker (probability of cancer deaths)	Maximum Impact to Person at Site Boundary (mrem)	Maximum Impact at Site Boundary (probability of cancer deaths)	Impact on Population within 80 km (person-rem)	Impact on Population within 80 km (LCFs)
Loss of Confinement	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Internal Fire	bounding – 95% percentile	<500	<2E-4	<4	<2E-6	<5E-3	<3E-6
Load Handling	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Hypothetical Explosion Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A
Hypothetical Criticality Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A

^a Values calculated for 50th percentile indicate that median meteorology is at least three times lower than the bounding values

Table 5-14. Potential Impacts from Construction of the PDCF and WSB Facilities in the SRS F Area

Pollutant	Impact from PDCF and WSB Construction ^a
8-hr Carbon Monoxide Increase ($\mu\text{g}/\text{m}^3$) ^b	3.8
Annual Nitrogen Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.17
Annual PM ₁₀ Increase ($\mu\text{g}/\text{m}^3$) ^b	0.078
Annual Sulfur Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.054
Annual Total Suspended Particulate Increase ($\mu\text{g}/\text{m}^3$) ^b	0.156
Dose to Workers ^c (person-rem/yr)	2.8
Average Worker Dose ^c (mrem/yr)	4
Hazardous waste ^d (m ³ /yr)	85
Nonhazardous Waste ^d	
Liquid ^d (m ³ /yr)	26,300
Solid ^d (m ³ /yr)	2,320

^a Source: MFFF ER Appendix G; SPD EIS (DOE 1999c)

^b Table G-70 of the SPD EIS (DOE 1999c)

^c Table J-55 of the SPD EIS (DOE 1999c)

^d Table H-33 of the SPD EIS (DOE 1999c)

R2



R2

Table 5-13b. Summary of Bounding Low Consequence Events

Bounding Accident	Meteorology ^a	Maximum Impact to Site Worker (mrem)	Maximum Impact to Site Worker (probability of cancer deaths)	Maximum Impact to Person at Site Boundary (mrem)	Maximum Impact at Site Boundary (probability of cancer deaths)	Impact on Population within 80 km (person-rem)	Impact on Population within 80 km (LCFs)
Loss of Confinement	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Internal Fire	bounding – 95% percentile	<500	<2E-4	<4	<2E-6	<5E-3	<3E-6
Load Handling	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Hypothetical Explosion Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A
Hypothetical Criticality Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A

^a Values calculated for 50th percentile indicate that median meteorology is at least three times lower than the bounding values

Table 5-14. Potential Impacts from Construction of the PDCF and WSB Facilities in the SRS F Area

Pollutant	Impact from PDCF and WSB Construction ^a
8-hr Carbon Monoxide Increase ($\mu\text{g}/\text{m}^3$) ^b	3.8
Annual Nitrogen Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.17
Annual PM ₁₀ Increase ($\mu\text{g}/\text{m}^3$) ^b	0.078
Annual Sulfur Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.054
Annual Total Suspended Particulate Increase ($\mu\text{g}/\text{m}^3$) ^b	0.156
Dose to Workers ^c (person-rem/yr)	2.8
Average Worker Dose ^c (mrem/yr)	4
Hazardous waste ^d (m ³ /yr)	85
Nonhazardous Waste ^d	
Liquid ^d (m ³ /yr)	26,300
Solid ^d (m ³ /yr)	2,320

^a Source: MFFF ER Appendix G; SPD EIS (DOE 1999c)

^b Table G-70 of the SPD EIS (DOE 1999c)

^c Table J-55 of the SPD EIS (DOE 1999c)

^d Table H-33 of the SPD EIS (DOE 1999c)

R2



R2

Table 5-13b. Summary of Bounding Low Consequence Events

Bounding Accident	Meteorology ^a	Maximum Impact to Site Worker (mrem)	Maximum Impact to Site Worker (probability of cancer deaths)	Maximum Impact to Person at Site Boundary (mrem)	Maximum Impact at Site Boundary (probability of cancer deaths)	Impact on Population within 80 km (person-rem)	Impact on Population within 80 km (LCFs)
Loss of Confinement	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Internal Fire	bounding – 95% percentile	<500	<2E-4	<4	<2E-6	<5E-3	<3E-6
Load Handling	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Hypothetical Explosion Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A
Hypothetical Criticality Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A

^a Values calculated for 50th percentile indicate that median meteorology is at least three times lower than the bounding values

Table 5-14. Potential Impacts from Construction of the PDCF and WSB Facilities in the SRS F Area

Pollutant	Impact from PDCF and WSB Construction ^a
8-hr Carbon Monoxide Increase ($\mu\text{g}/\text{m}^3$) ^b	3.8
Annual Nitrogen Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.17
Annual PM ₁₀ Increase ($\mu\text{g}/\text{m}^3$) ^b	0.078
Annual Sulfur Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.054
Annual Total Suspended Particulate Increase ($\mu\text{g}/\text{m}^3$) ^b	0.156
Dose to Workers ^c (person-rem/yr)	2.8
Average Worker Dose ^c (mrem/yr)	4
Hazardous waste ^d (m ³ /yr)	85
Nonhazardous Waste ^d	
Liquid ^d (m ³ /yr)	26,300
Solid ^d (m ³ /yr)	2,320

^a Source: MFFF ER Appendix G; SPD EIS (DOE 1999c)

^b Table G-70 of the SPD EIS (DOE 1999c)

^c Table J-55 of the SPD EIS (DOE 1999c)

^d Table H-33 of the SPD EIS (DOE 1999c)

R2



R2

Table 5-13b. Summary of Bounding Low Consequence Events

Bounding Accident	Meteorology ^a	Maximum Impact to Site Worker (mrem)	Maximum Impact to Site Worker (probability of cancer deaths)	Maximum Impact to Person at Site Boundary (mrem)	Maximum Impact at Site Boundary (probability of cancer deaths)	Impact on Population within 80 km (person-rem)	Impact on Population within 80 km (LCFs)
Loss of Confinement	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Internal Fire	bounding – 95% percentile	<500	<2E-4	<4	<2E-6	<5E-3	<3E-6
Load Handling	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Hypothetical Explosion Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A
Hypothetical Criticality Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A

^a Values calculated for 50th percentile indicate that median meteorology is at least three times lower than the bounding values

Table 5-14. Potential Impacts from Construction of the PDCF and WSB Facilities in the SRS F Area

Pollutant	Impact from PDCF and WSB Construction ^a
8-hr Carbon Monoxide Increase ($\mu\text{g}/\text{m}^3$) ^b	3.8
Annual Nitrogen Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.17
Annual PM ₁₀ Increase ($\mu\text{g}/\text{m}^3$) ^b	0.078
Annual Sulfur Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.054
Annual Total Suspended Particulate Increase ($\mu\text{g}/\text{m}^3$) ^b	0.156
Dose to Workers ^c (person-rem/yr)	2.8
Average Worker Dose ^c (mrem/yr)	4
Hazardous waste ^d (m ³ /yr)	85
Nonhazardous Waste ^d	
Liquid ^d (m ³ /yr)	26,300
Solid ^d (m ³ /yr)	2,320

^a Source: MFFF ER Appendix G; SPD EIS (DOE 1999c)

^b Table G-70 of the SPD EIS (DOE 1999c)

^c Table J-55 of the SPD EIS (DOE 1999c)

^d Table H-33 of the SPD EIS (DOE 1999c)

R2



Table 5-13b. Summary of Bounding Low Consequence Events

Bounding Accident	Meteorology ^a	Maximum Impact to Site Worker (mrem)	Maximum Impact to Site Worker (probability of cancer deaths)	Maximum Impact to Person at Site Boundary (mrem)	Maximum Impact at Site Boundary (probability of cancer deaths)	Impact on Population within 80 km (person-rem)	Impact on Population within 80 km (LCFs)
Loss of Confinement	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Internal Fire	bounding – 95% percentile	<500	<2E-4	<4	<2E-6	<5E-3	<3E-6
Load Handling	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Hypothetical Explosion Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A
Hypothetical Criticality Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A

^a Values calculated for 50th percentile indicate that median meteorology is at least three times lower than the bounding values

**Table 5-14. Potential Impacts from Construction of the PDCF and WSB Facilities
in the SRS F Area**

Pollutant	Impact from PDCF and WSB Construction ^a
8-hr Carbon Monoxide Increase ($\mu\text{g}/\text{m}^3$) ^b	3.8
Annual Nitrogen Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.17
Annual PM ₁₀ Increase ($\mu\text{g}/\text{m}^3$) ^b	0.078
Annual Sulfur Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.054
Annual Total Suspended Particulate Increase ($\mu\text{g}/\text{m}^3$) ^b	0.156
Dose to Workers ^c (person-rem/yr)	2.8
Average Worker Dose ^c (mrem/yr)	4
Hazardous waste ^d (m ³ /yr)	85
Nonhazardous Waste ^d	
Liquid ^d (m ³ /yr)	26,300
Solid ^d (m ³ /yr)	2,320

^a Source: MFFF ER Appendix G; SPD EIS (DOE 1999c)

^b Table G-70 of the SPD EIS (DOE 1999c)

^c Table J-55 of the SPD EIS (DOE 1999c)

^d Table H-33 of the SPD EIS (DOE 1999c)

R2

Table 5-13b. Summary of Bounding Low Consequence Events

Bounding Accident	Meteorology ^a	Maximum Impact to Site Worker (mrem)	Maximum Impact to Site Worker (probability of cancer deaths)	Maximum Impact to Person at Site Boundary (mrem)	Maximum Impact at Site Boundary (probability of cancer deaths)	Impact on Population within 80 km (person-rem)	Impact on Population within 80 km (LCFs)
Loss of Confinement	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Internal Fire	bounding – 95% percentile	<500	<2E-4	<4	<2E-6	<5E-3	<3E-6
Load Handling	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Hypothetical Explosion Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A
Hypothetical Criticality Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A

^a Values calculated for 50th percentile indicate that median meteorology is at least three times lower than the bounding values

**Table 5-14. Potential Impacts from Construction of the PDCF and WSB Facilities
in the SRS F Area**

Pollutant	Impact from PDCF and WSB Construction ^a
8-hr Carbon Monoxide Increase ($\mu\text{g}/\text{m}^3$) ^b	3.8
Annual Nitrogen Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.17
Annual PM_{10} Increase ($\mu\text{g}/\text{m}^3$) ^b	0.078
Annual Sulfur Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.054
Annual Total Suspended Particulate Increase ($\mu\text{g}/\text{m}^3$) ^b	0.156
Dose to Workers ^c (person-rem/yr)	2.8
Average Worker Dose ^c (mrem/yr)	4
Hazardous waste ^d (m^3/yr)	85
Nonhazardous Waste ^d	
Liquid ^d (m^3/yr)	26,300
Solid ^d (m^3/yr)	2,320

^a Source: MFFF ER Appendix G; SPD EIS (DOE 1999c)

^b Table G-70 of the SPD EIS (DOE 1999c)

^c Table J-55 of the SPD EIS (DOE 1999c)

^d Table H-33 of the SPD EIS (DOE 1999c)

R2



R2

Table 5-13b. Summary of Bounding Low Consequence Events

Bounding Accident	Meteorology ^a	Maximum Impact to Site Worker (mrem)	Maximum Impact to Site Worker (probability of cancer deaths)	Maximum Impact to Person at Site Boundary (mrem)	Maximum Impact at Site Boundary (probability of cancer deaths)	Impact on Population within 80 km (person-rem)	Impact on Population within 80 km (LCFs)
Loss of Confinement	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Internal Fire	bounding – 95% percentile	<500	<2E-4	<4	<2E-6	<5E-3	<3E-6
Load Handling	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Hypothetical Explosion Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A
Hypothetical Criticality Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A

^a Values calculated for 50th percentile indicate that median meteorology is at least three times lower than the bounding values

**Table 5-14. Potential Impacts from Construction of the PDCF and WSB Facilities
in the SRS F Area**

Pollutant	Impact from PDCF and WSB Construction ^a
8-hr Carbon Monoxide Increase ($\mu\text{g}/\text{m}^3$) ^b	3.8
Annual Nitrogen Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.17
Annual PM ₁₀ Increase ($\mu\text{g}/\text{m}^3$) ^b	0.078
Annual Sulfur Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.054
Annual Total Suspended Particulate Increase ($\mu\text{g}/\text{m}^3$) ^b	0.156
Dose to Workers ^c (person-rem/yr)	2.8
Average Worker Dose ^c (mrem/yr)	4
Hazardous waste ^d (m ³ /yr)	85
Nonhazardous Waste ^d	
Liquid ^d (m ³ /yr)	26,300
Solid ^d (m ³ /yr)	2,320

^a Source: MFFF ER Appendix G; SPD EIS (DOE 1999c)

^b Table G-70 of the SPD EIS (DOE 1999c)

^c Table J-55 of the SPD EIS (DOE 1999c)

^d Table H-33 of the SPD EIS (DOE 1999c)

R2



R2

Table 5-13b. Summary of Bounding Low Consequence Events

Bounding Accident	Meteorology ^a	Maximum Impact to Site Worker (mrem)	Maximum Impact to Site Worker (probability of cancer deaths)	Maximum Impact to Person at Site Boundary (mrem)	Maximum Impact at Site Boundary (probability of cancer deaths)	Impact on Population within 80 km (person-rem)	Impact on Population within 80 km (LCFs)
Loss of Confinement	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Internal Fire	bounding – 95% percentile	<500	<2E-4	<4	<2E-6	<5E-3	<3E-6
Load Handling	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Hypothetical Explosion Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A
Hypothetical Criticality Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A

^a Values calculated for 50th percentile indicate that median meteorology is at least three times lower than the bounding values

**Table 5-14. Potential Impacts from Construction of the PDCF and WSB Facilities
in the SRS F Area**

Pollutant	Impact from PDCF and WSB Construction ^a
8-hr Carbon Monoxide Increase ($\mu\text{g}/\text{m}^3$) ^b	3.8
Annual Nitrogen Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.17
Annual PM ₁₀ Increase ($\mu\text{g}/\text{m}^3$) ^b	0.078
Annual Sulfur Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.054
Annual Total Suspended Particulate Increase ($\mu\text{g}/\text{m}^3$) ^b	0.156
Dose to Workers ^c (person-rem/yr)	2.8
Average Worker Dose ^c (mrem/yr)	4
Hazardous waste ^d (m ³ /yr)	85
Nonhazardous Waste ^d	
Liquid ^d (m ³ /yr)	26,300
Solid ^d (m ³ /yr)	2,320

^a Source: MFFF ER Appendix G; SPD EIS (DOE 1999c)

^b Table G-70 of the SPD EIS (DOE 1999c)

^c Table J-55 of the SPD EIS (DOE 1999c)

^d Table H-33 of the SPD EIS (DOE 1999c)

R2



R2

Table 5-13b. Summary of Bounding Low Consequence Events

Bounding Accident	Meteorology ^a	Maximum Impact to Site Worker (mrem)	Maximum Impact to Site Worker (probability of cancer deaths)	Maximum Impact to Person at Site Boundary (mrem)	Maximum Impact at Site Boundary (probability of cancer deaths)	Impact on Population within 80 km (person-rem)	Impact on Population within 80 km (LCFs)
Loss of Confinement	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Internal Fire	bounding – 95% percentile	<500	<2E-4	<4	<2E-6	<5E-3	<3E-6
Load Handling	bounding – 95% percentile	<2	<4E-7	<1E-2	<5E-9	<8E-4	<4E-7
Hypothetical Explosion Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A
Hypothetical Criticality Event	bounding – 95% percentile	N/A	N/A	N/A	N/A	N/A	N/A

^a Values calculated for 50th percentile indicate that median meteorology is at least three times lower than the bounding values

Table 5-14. Potential Impacts from Construction of the PDCF and WSB Facilities in the SRS F Area

Pollutant	Impact from PDCF and WSB Construction ^a
8-hr Carbon Monoxide Increase ($\mu\text{g}/\text{m}^3$) ^b	3.8
Annual Nitrogen Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.17
Annual PM ₁₀ Increase ($\mu\text{g}/\text{m}^3$) ^b	0.078
Annual Sulfur Dioxide Increase ($\mu\text{g}/\text{m}^3$) ^b	0.054
Annual Total Suspended Particulate Increase ($\mu\text{g}/\text{m}^3$) ^b	0.156
Dose to Workers ^c (person-rem/yr)	2.8
Average Worker Dose ^c (mrem/yr)	4
Hazardous waste ^d (m ³ /yr)	85
Nonhazardous Waste ^d	
Liquid ^d (m ³ /yr)	26,300
Solid ^d (m ³ /yr)	2,320

^a Source: MFFF ER Appendix G; SPD EIS (DOE 1999c)

^b Table G-70 of the SPD EIS (DOE 1999c)

^c Table J-55 of the SPD EIS (DOE 1999c)

^d Table H-33 of the SPD EIS (DOE 1999c)

R2