

Global Threat Reduction Initiative

Foreign Research Reactor Spent Nuclear Fuel Shipments

FY1996

1. **Sept. 22, 1996** 280 assemblies in 8 casks to SRS
 Naval Weapons Station, Charleston, SC
[First East Coast Shipment]

Sweden	64
Switzerland	42
Germany	125
Chile	28
Columbia	21

FY 1997

2. **Dec. 15, 1996** 41 spent fuel assemblies in one cask to SRS
[First Highway shipment from Canada]

Canada	41
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3. **Apr. 2, 1997** 269 spent fuel assemblies in 7 casks to SRS
 Naval Weapons Station, Charleston, SC

Germany	66
Switzerland	92
Spain	39
Italy	72

4. **Aug. 15, 1997** 232 spent fuel assemblies in 7 casks to SRS
 Naval Weapons Station, Charleston, SC

Japan	60
Sweden	112
Germany	59
Spain	1

FY 1998

5. **Jan. 26, 1998** 309 spent fuel assemblies in 8 casks to SRS
 Naval Weapons Station, Charleston, SC

Denmark	61
Italy	76
Germany	66
Sweden	64
Greece	42

6. **May 14, 1998** 240 spent fuel assemblies in 3 casks to SRS
 Naval Weapons Station, Charleston, SC

Australia	240
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7. July 21-23, 1998	299 spent fuel assemblies in 3 casks to INEEL Naval Weapons Station, Concord, CA <i>[First West Coast Shipment]</i>
	South Korea 299
 FY 1999	
8. Oct. 6, 1998	309 spent fuel assemblies in 11 casks to SRS Naval Weapons Station, Charleston, SC
	Venezuela 54 Uruguay 19 Japan 171 Spain 1 Sweden 64
 9. Mar. 30, 1999	 262 spent fuel assemblies in 7 casks to SRS Naval Weapons Station, Charleston, SC
	 Denmark 60 German 90 Sweden 112
 10. Apr. 27, 1999	 199 spent fuel assemblies in 7 casks to SRS Naval Weapons Station, Charleston, SC
	 Taiwan 70 Thailand 31 Indonesia 47 Philippines 51
 11. Aug. 19, 1999	 99 spent fuel assemblies in 3 casks to SRS Naval Weapons Station, Charleston, SC
	 Denmark 60 Portugal 39
 12. Aug. 19 – Aug 31, 1999	 435 spent fuel elements and 267 pins in 5 casks to INEEL Naval Weapons Station, Charleston, SC <i>[First Cross-Country Highway shipment]</i>
	 Germany 76 Italy 140 Slovenia 219 Romania 11 elements consisting of 267 pins
 FY2000	
 13. Nov. 23, 1999	 240 spent fuel assemblies in 8 casks to SRS Naval Weapons Station, Charleston, SC
	 Japan 240

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14. Nov. 30, 1999	129 spent fuel assemblies in 5 casks to SRS Naval Weapons Station, Charleston, SC						
	<table border="0"> <tr> <td>Brazil</td> <td style="text-align: right;">127</td> </tr> <tr> <td>Venezuela</td> <td style="text-align: right;">2</td> </tr> </table>	Brazil	127	Venezuela	2		
Brazil	127						
Venezuela	2						
15. June 29, 2000	42 spent fuel assemblies and one SLOWPOKE core in 2 casks to SRS <i>[Highway shipment #2 from Canada]</i>						
	Canada 42 and one SLOWPOKE core (297 MTR pins)						
16. July 25 – 31, 2000	90 spent fuel elements in 1 cask to INEEL Naval Weapons Station, Charleston, SC <i>[Cross-Country Highway shipment]</i>						
	United Kingdom 90						
FY2001							
17. October 11, 2000	122 spent fuel assemblies in 4 casks to SRS Naval Weapons Station, Charleston, SC <i>[First SC Highway shipment]</i>						
	<table border="0"> <tr> <td>Germany</td> <td style="text-align: right;">110</td> </tr> <tr> <td>Italy</td> <td style="text-align: right;">12</td> </tr> </table>	Germany	110	Italy	12		
Germany	110						
Italy	12						
18. October 24, 2000	232 spent fuel assemblies in 8 casks to SRS Naval Weapons Station, Charleston, SC						
	Japan 232						
19. January 11, 2001	237 spent fuel assemblies in 6 casks to SRS Naval Weapons Station, Charleston, SC						
	<table border="0"> <tr> <td>Argentina</td> <td style="text-align: right;">207</td> </tr> <tr> <td>Chile</td> <td style="text-align: right;">30</td> </tr> </table>	Argentina	207	Chile	30		
Argentina	207						
Chile	30						
20. June 25, 2001	231 spent fuel assemblies in 6 casks to SRS Naval Weapons Station, Charleston, SC						
	<table border="0"> <tr> <td>Austria</td> <td style="text-align: right;">54</td> </tr> <tr> <td>Germany</td> <td style="text-align: right;">60</td> </tr> <tr> <td>Netherlands</td> <td style="text-align: right;">117</td> </tr> </table>	Austria	54	Germany	60	Netherlands	117
Austria	54						
Germany	60						
Netherlands	117						
21. June 25 – 28, 2001	126 spent fuel elements in 3 casks to INEEL Naval Weapons Station, Charleston, SC <i>[Cross-Country Highway shipment]</i>						
	Germany 126						

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FY2002

22. October 19, 2001 438 spent fuel assemblies in 12 casks to SRS
Naval Weapons Station, Charleston, SC

Japan	260
Sweden	112
Germany	66

23. December 18, 2001 84 spent fuel assemblies in 2 casks to SRS
Naval Weapons Station, Charleston, SC
[SC Highway shipment]

Denmark	84
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24. June 21, 2002 320 spent fuel assemblies in 8 casks to SRS
Naval Weapons Station, Charleston, SC

Denmark	171
Germany	108
Sweden	41

FY2003

25. September 27, 2002 260 spent fuel assemblies in 8 casks to SRS
Naval Weapons Station, Charleston, SC

Japan	260
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26. September 23, 2003 71 spent fuel elements in 1 cask to INEEL
Naval Weapons Station, Charleston, SC
[Cross-Country Highway shipment]

Japan	71
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FY2004

27. December 3, 2003 307 spent fuel assemblies in 11 casks to SRS
Naval Weapons Station, Charleston, SC

Japan	307
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28. April 21, 2004 112 spent fuel assemblies in 3 casks to SRS
Naval Weapons Station, Charleston, SC

Indonesia	112
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29. April 21, 2004 182 spent fuel elements in 2 casks to INEEL
Naval Weapons Station, Charleston, SC
[Cross-Country Highway shipment]

Indonesia	182
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30. August 5, 2004 **First GTRI Shipment**
 126 spent fuel assemblies in 3 casks to SRS
 Naval Weapons Station, Charleston, SC
[SC Highway shipment]

Germany 126

FY2005

31. December 1, 2004 111 spent fuel assemblies in 5 casks to SRS
 Naval Weapons Stations, Charleston, SC

Japan 111

32. June 8, 2005 338 spent fuel assemblies in 7 casks to SRS
 Naval Weapons Stations, Charleston, SC

Netherlands 210
 Sweden 128

FY2006

33. December 29, 2005 68 spent fuel assemblies in 3 casks to SRS
 Naval Weapons Stations, Charleston, SC

Austria 22
 Greece 46

[SC Highway shipment]

34. June 13, 2006 270 fuel assemblies in 6 casks to SRS
 Naval Weapons Stations, Charleston, SC

Netherlands 210
 Germany 60

35. July 18, 2006 24 fuel assemblies in 9 containers to Y-12
 by Air and truck

Argentina 24

[Air and Highway shipment]

FY2007

36. Oct 20, 2006 145 fuel assemblies in 2 casks to INL
 Naval Weapons Station, Charleston, SC
[Cross-Country Highway shipment]

Japan 145

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37. February 6, 2007	330 fuel assemblies in 7 casks to SRS Naval Weapons Station, Charleston, SC
	Australia 330
38. April 18, 2007	180 fuel assemblies in 6 casks to SRS Naval Weapons Station, Charleston, SC
	Japan 180
39. June 12, 2007	192 fuel assemblies in 4 casks to SRS Naval Weapons Station, Charleston, SC
	Sweden 192
40. Sept 19, 2007	11 fuel assemblies in 4 containers to Y-12 by Air and truck
	South Korea <i>[Air and Highway shipment]</i>
FY 2008	
41. Dec 11, 2007	75 fuel assemblies in 2 casks to SRS Naval Weapons Station, Charleston, SC
	Argentina 42 Brazil 33
42. June 26, 2008	231 fuel assemblies in 6 casks to SRS Naval Weapons Station, Charleston, SC
	Sweden 111 Germany 60 Japan 60
43. Aug 25, 2008	31 fuel assemblies in 1 cask to SRS Naval Weapons Station, Charleston, SC
	Portugal 31
44. Aug 25, 2008	25 fuel assemblies in 2 casks to INL Naval Weapons Station, Charleston, SC
	Romania 25 <i>[Cross-Country Highway shipment]</i>
45. Sep 23, 2008	180 fuel assemblies in 6 casks to SRS Naval Weapons Station, Charleston, SC
	Germany 164 Japan 16

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FY 2009

46. Dec. 9, 2008	42 spent fuel assemblies in 1 cask to SRS <i>[Highway shipment #3 from Canada]</i>
	Canada 42
47. May 19, 2009	159 spent fuel assemblies in 4 casks to SRS Naval Weapons Station, Charleston, SC
	Australia 159
48. Sept. 10, 2009	118 fuel assemblies in 3 casks to SRS Naval Weapons Station, Charleston, SC
	Taiwan 76 Indonesia 42

FY 2010

49. Jan. 6, 2010	180 fuel assemblies in 7 casks to SRS Joint Base Charleston, Charleston, SC
	Japan 180
50. Jan 12, 2010	131 spent fuel assemblies in 4 casks to SRS Joint Base Charleston, Charleston, SC
	Turkey 29 Israel 102
March 19, 2010	41 spent fuel assemblies in 1 cask to SRS Joint Base Charleston, Charleston, SC <i>[First GAP shipment managed by FRR Does not count in FRR program totals]</i>
	Chile 41
March 22, 2010	2 fresh fuel Assemblies (equivalent) in 2 casks (36 plates) to Y-12 <i>[GAP shipment managed by FRR Does not count in FRR program totals]</i>
	Chile 2
March 23, 2010	28 spent fuel Assemblies in 1 cask to SRS Joint Base Charleston, Charleston, SC <i>[GAP shipment managed by FRR Does not count in FRR program totals]</i>
	Chile 28
51. August 31, 2010	45 spent fuel assemblies in 2 casks to SRS Joint Base Charleston, Charleston, SC
	Germany 45

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FY 2011

52. October 22, 2010 9 spent fuel assemblies in 1 cask to SRS

Canada 9
[Highway shipment #4 from Canada]

53. August 16, 2011 49 spent fuel assemblies in 2 casks to SRS
 Joint Base Charleston, Charleston, SC

South Africa 49

54. September 16, 2011 1 spent fuel assembly in 1 cask to SRS

Canada 1
[Highway shipment #5 from Canada]

FY 2012

55. February 14, 2012 28 fresh fuel assemblies in 10 containers to Y-12
 by Air and Truck.

Mexico 28

56. March 1, 2012 29 spent fuel assemblies in 1 cask to INL
 Joint Base Charleston, Charleston, SC

Mexico 29

57. August 14, 2012 58 spent fuel assemblies in 2 casks to SRS
 Joint Base Charleston, Charleston, SC

Germany 58

58. September 11, 2012 2 spent fuel assemblies in 1 cask to SRS

Canada 2
[Highway shipment #6 from Canada]

59. October 10, 2012 77 spent fuel assemblies in 1 cask to Austria
 Joint Base Charleston, Charleston, SC

OUTGOING to Austria

60. December 4, 2012 92 spent fuel assemblies in 2 casks
 1 cask with 1 assembly to SRS
 1 cask with 91 assemblies to INL

 Joint Base Charleston, Charleston, SC

Italy 1
 Austria 91
[Cross-Country Highway shipment]