Global Threat Reduction Initiative
Foreign Research Reactor Spent Nuclear Fuel Shipments

FY1996

   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

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

   232 spent fuel assemblies in 7 casks to SRS
   Naval Weapons Station, Charleston, SC
   - Japan 60
   - Sweden 112
   - Germany 59
   - Spain 1

FY 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

   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
[First West Coast Shipment]
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
Germany  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
[First Cross-Country Highway shipment]
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

Brazil 127
Venezuela 2

15. June 29, 2000 42 spent fuel assemblies and one SLOWPOKE core in 2 casks to SRS
[Highway shipment #2 from Canada]

Canada 42 and one SLOWPOKE core (297 MTR pins)

Naval Weapons Station, Charleston, SC
[Cross-Country Highway shipment]

United Kingdom 90

FY2001

17. October 11, 2000 122 spent fuel assemblies in 4 casks to SRS
Naval Weapons Station, Charleston, SC
[First SC Highway shipment]

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

Argentina 207
Chile 30

20. June 25, 2001 231 spent fuel assemblies in 6 casks to SRS
Naval Weapons Station, Charleston, SC

Austria 54
Germany 60
Netherlands 117

Naval Weapons Station, Charleston, SC
[Cross-Country Highway shipment]

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

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

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

  Japan  71

FY2004

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

  Japan  307

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

  Indonesia  112

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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Foreign Research Reactor Spent Nuclear Fuel Shipments

First GTRI Shipment
30. August 5, 2004
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

Update as of January 5, 2015
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 [Air and Highway shipment]

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 [Cross-Country Highway shipment]

45. Sep 23, 2008 180 fuel assemblies in 6 casks to SRS Naval Weapons Station, Charleston, SC
Germany 164
Japan 16
### Global Threat Reduction Initiative

**Foreign Research Reactor Spent Nuclear Fuel Shipments**

#### FY 2009

46. **Dec. 9, 2008**  
42 spent fuel assemblies in 1 cask to SRS  
*Highway shipment #3 from Canada*  
- 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  
*First GAP shipment managed by FRR  
Does not count in FRR program totals*  
- Chile: 41

**March 22, 2010**  
2 fresh fuel Assemblies (equivalent) in 2 casks (36 plates) to Y-12  
*GAP shipment managed by FRR  
Does not count in FRR program totals*  
- Chile: 2

**March 23, 2010**  
28 spent fuel Assemblies in 1 cask to SRS  
Joint Base Charleston, Charleston, SC  
*GAP shipment managed by FRR  
Does not count in FRR program totals*  
- Chile: 28

51. **August 31, 2010**  
45 spent fuel assemblies in 2 casks to SRS  
Joint Base Charleston, Charleston, SC  
- Germany: 45

*Update as of January 5, 2015*
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Foreign Research Reactor Spent Nuclear Fuel Shipments

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]