

Global Threat Reduction Initiative

Foreign Research Reactor Spent Nuclear Fuel Shipments

United States Foreign Research Reactor Spent Fuel Imports* 1996-2005

Source: US Department of Energy

In summary, United States Foreign Research Reactor Spent Fuel Imports are made up of 33 shipments (27 to the Savannah River Site (SRS) in South Carolina and 6 to the Idaho National Laboratory (INL)) in 175 casks (163 to SRS, 15 to INL), consisting of 5638 Material Test Reactor (MTR) spent fuel assemblies to SRS and 1213 TRIGA spent fuel elements to INL. All but three of these imports have been via ship through the Naval Weapons Station in Charleston, South Carolina. Two have been via land from Canada and one (the most controversial) via the Naval Weapons Station in Concord, California.

Special thanks to Tom Clements for this information.

1996

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

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

1998

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- 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 |
|-----------|-----|
- 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 |
|-------------|-----|
- 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 |
- 1999**
- 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

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

Germany	76
Italy	140
Slovenia	219
Romania	267 pins

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

2000

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

Canada	42 and one SLOWPOKE core (297 MTR pins)
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16. July 25 – 31, 2000 90 spent fuel elements in 1 cask to INEEL
 Naval Weapons Station, Charleston, SC
[Cross-Country Highway shipment]

United Kingdom	90
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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
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2001

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

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Naval Weapons Station, Charleston, SC

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
[Cross-Country Highway shipment]

Germany	126
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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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2002

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

Denmark	171
Germany	108
Sweden	41

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

Japan	260
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2003

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

Japan	307
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2004

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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

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

Germany 126

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

Japan 111

2005

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

Netherlands 210
Sweden 128

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

Austria 22
Greece 46

Program Totals

Completed: 33 shipments
 27 shipments to SRS
 6 shipments to INL

Transported: 175 casks
 163 casks to SRS
 15 casks to INL

Received: 5,638 MTR spent fuel assemblies at SRS

 1,213 TRIGA spent fuel elements at INL

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*Foreign research reactor spent fuel imports are now imported under the Global Threat Reduction Initiative. Much of this highly enriched uranium (HEU) fuel is currently stored at the Savannah River Site.