

## Serpent 1.1.0 cross section library based on ENDF/B-VII

Continuous-energy ACE format data library generated using NJOY-99.259 with 0.01 fractional reconstruction tolerance. Total 436 nuclides at 6 temperatures. Uncompressed library size 6.6 Gb. General format:

<ZA>.<id>

where <id> = 03c for 300K data, <id> = 06c for 600K data etc. Use the xsdirconvert.pl utility script to convert xsdir to Serpent directory file.

| <b>ZA</b> | <b>Nuclide</b> | <b>Evaluation</b> | <b>Temperatures (in Kelvin)</b> |
|-----------|----------------|-------------------|---------------------------------|
| 1001      | 1-H-1          | ENDFB/VII.0       | 300, 600, 900, 1200, 1500, 1800 |
| 1002      | 1-H-2          | ENDFB/VII.0       | 300, 600, 900, 1200, 1500, 1800 |
| 1003      | 1-H-3          | ENDFB/VII.0       | 300, 600, 900, 1200, 1500, 1800 |
| 2000      | 2-He-nat       | BROND-2.2         | 300, 600, 900, 1200, 1500, 1800 |
| 2003      | 2-He-3         | ENDFB/VII.0       | 300, 600, 900, 1200, 1500, 1800 |
| 2004      | 2-He-4         | ENDFB/VII.0       | 300, 600, 900, 1200, 1500, 1800 |
| 3006      | 3-Li-6         | ENDFB/VII.0       | 300, 600, 900, 1200, 1500, 1800 |
| 3007      | 3-Li-7         | ENDFB/VII.0       | 300, 600, 900, 1200, 1500, 1800 |
| 4007      | 4-Be-7         | ENDFB/VII.0       | 300, 600, 900, 1200, 1500, 1800 |
| 4009      | 4-Be-9         | ENDFB/VII.0       | 300, 600, 900, 1200, 1500, 1800 |
| 5010      | 5-B-10         | ENDFB/VII.0       | 300, 600, 900, 1200, 1500, 1800 |
| 5011      | 5-B-11         | ENDFB/VII.0       | 300, 600, 900, 1200, 1500, 1800 |
| 6000      | 6-C-nat        | ENDFB/VII.0       | 300, 600, 900, 1200, 1500, 1800 |
| 6012      | 6-C-12         | JENDL-3.2         | 300, 600, 900, 1200, 1500, 1800 |
| 7014      | 7-N-14         | ENDFB/VII.0       | 300, 600, 900, 1200, 1500, 1800 |
| 7015      | 7-N-15         | ENDFB/VII.0       | 300, 600, 900, 1200, 1500, 1800 |
| 8016      | 8-O-16         | ENDFB/VII.0       | 300, 600, 900, 1200, 1500, 1800 |
| 8017      | 8-O-17         | ENDFB/VII.0       | 300, 600, 900, 1200, 1500, 1800 |
| 9019      | 9-F-19         | ENDFB/VII.0       | 300, 600, 900, 1200, 1500, 1800 |
| 11022     | 11-Na-22       | ENDFB/VII.0       | 300, 600, 900, 1200, 1500, 1800 |
| 11023     | 11-Na-23       | ENDFB/VII.0       | 300, 600, 900, 1200, 1500, 1800 |
| 12000     | 12-Mg-nat      | ENDF/B-VI.8       | 300, 600, 900, 1200, 1500, 1800 |
| 12024     | 12-Mg-24       | ENDFB/VII.0       | 300, 600, 900, 1200, 1500, 1800 |
| 12025     | 12-Mg-25       | ENDFB/VII.0       | 300, 600, 900, 1200, 1500, 1800 |
| 12026     | 12-Mg-26       | ENDFB/VII.0       | 300, 600, 900, 1200, 1500, 1800 |
| 13027     | 13-Al-27       | ENDFB/VII.0       | 300, 600, 900, 1200, 1500, 1800 |
| 14000     | 14-Si-nat      | ENDF/B-VI.8       | 300, 600, 900, 1200, 1500, 1800 |
| 14028     | 14-Si-28       | ENDFB/VII.0       | 300, 600, 900, 1200, 1500, 1800 |
| 14029     | 14-Si-29       | ENDFB/VII.0       | 300, 600, 900, 1200, 1500, 1800 |
| 14030     | 14-Si-30       | ENDFB/VII.0       | 300, 600, 900, 1200, 1500, 1800 |
| 15031     | 15-P-31        | ENDFB/VII.0       | 300, 600, 900, 1200, 1500, 1800 |

|       |           |             |                                 |
|-------|-----------|-------------|---------------------------------|
| 16000 | 16-S-nat  | ENDF/B-VI.8 | 300, 600, 900, 1200, 1500, 1800 |
| 16032 | 16-S-32   | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 16033 | 16-S-33   | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 16034 | 16-S-34   | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 16036 | 16-S-36   | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 17000 | 17-Cl-nat | ENDF/B-VI.8 | 300, 600, 900, 1200, 1500, 1800 |
| 17035 | 17-Cl-35  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 17037 | 17-Cl-37  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 18036 | 18-Ar-36  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 18038 | 18-Ar-38  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 18040 | 18-Ar-40  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 19000 | 19-K-nat  | ENDF/B-VI.8 | 300, 600, 900, 1200, 1500, 1800 |
| 19039 | 19-K-39   | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 19040 | 19-K-40   | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 19041 | 19-K-41   | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 20000 | 20-Ca-nat | ENDF/B-VI.8 | 300, 600, 900, 1200, 1500, 1800 |
| 20040 | 20-Ca-40  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 20042 | 20-Ca-42  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 20043 | 20-Ca-43  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 20044 | 20-Ca-44  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 20046 | 20-Ca-46  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 20048 | 20-Ca-48  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 21045 | 21-Sc-45  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 22000 | 22-Ti-nat | ENDF/B-VI.8 | 300, 600, 900, 1200, 1500, 1800 |
| 22046 | 22-Ti-46  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 22047 | 22-Ti-47  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 22048 | 22-Ti-48  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 22049 | 22-Ti-49  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 22050 | 22-Ti-50  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 23000 | 23-V-nat  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 23051 | 23-V-51   | JENDL-3.2   | 300, 600, 900, 1200, 1500, 1800 |
| 24000 | 24-Cr-nat | JENDL-3.2   | 300, 600, 900, 1200, 1500, 1800 |
| 24050 | 24-Cr-50  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 24052 | 24-Cr-52  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 24053 | 24-Cr-53  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 24054 | 24-Cr-54  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 25055 | 25-Mn-55  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 26000 | 26-Fe-nat | JENDL-3.2   | 300, 600, 900, 1200, 1500, 1800 |
| 26054 | 26-Fe-54  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 26056 | 26-Fe-56  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 26057 | 26-Fe-57  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 26058 | 26-Fe-58  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 27058 | 27-Co-58  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |

|       |           |             |                                 |
|-------|-----------|-------------|---------------------------------|
| 27059 | 27-Co-59  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 27358 | 27-Co-58m | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 28000 | 28-Ni-nat | JENDL-3.2   | 300, 600, 900, 1200, 1500, 1800 |
| 28058 | 28-Ni-58  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 28059 | 28-Ni-59  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 28060 | 28-Ni-60  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 28061 | 28-Ni-61  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 28062 | 28-Ni-62  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 28064 | 28-Ni-64  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 29000 | 29-Cu-nat | JENDL-3.2   | 300, 600, 900, 1200, 1500, 1800 |
| 29063 | 29-Cu-63  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 29065 | 29-Cu-65  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 30000 | 30-Zn-nat | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 30064 | 30-Zn-64  | JEF-2.2     | 300, 600, 900, 1200, 1500, 1800 |
| 31000 | 31-Ga-nat | JEFF-3.1    | 300, 600, 900, 1200, 1500, 1800 |
| 31069 | 31-Ga-69  | JENDL-3.3   | 300, 600, 900, 1200, 1500, 1800 |
| 31071 | 31-Ga-71  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 32000 | 32-Ge-nat | JENDL-3.2   | 300, 600, 900, 1200, 1500, 1800 |
| 32070 | 32-Ge-70  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 32072 | 32-Ge-72  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 32073 | 32-Ge-73  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 32074 | 32-Ge-74  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 32076 | 32-Ge-76  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 33074 | 33-As-74  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 33075 | 33-As-75  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 34074 | 34-Se-74  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 34076 | 34-Se-76  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 34077 | 34-Se-77  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 34078 | 34-Se-78  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 34079 | 34-Se-79  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 34080 | 34-Se-80  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 34082 | 34-Se-82  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 35079 | 35-Br-79  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 35081 | 35-Br-81  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 36078 | 36-Kr-78  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 36080 | 36-Kr-80  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 36082 | 36-Kr-82  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 36083 | 36-Kr-83  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 36084 | 36-Kr-84  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 36085 | 36-Kr-85  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 36086 | 36-Kr-86  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 37085 | 37-Rb-85  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 37086 | 37-Rb-86  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |

|       |           |             |                                 |
|-------|-----------|-------------|---------------------------------|
| 37087 | 37-Rb-87  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 38084 | 38-Sr-84  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 38086 | 38-Sr-86  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 38087 | 38-Sr-87  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 38088 | 38-Sr-88  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 38089 | 38-Sr-89  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 38090 | 38-Sr-90  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 39089 | 39-Y-89   | JEFF-3.1    | 300, 600, 900, 1200, 1500, 1800 |
| 39090 | 39-Y-90   | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 39091 | 39-Y-91   | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 40000 | 40-Zr-nat | ENDF/B-VI.8 | 300, 600, 900, 1200, 1500, 1800 |
| 40090 | 40-Zr-90  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 40091 | 40-Zr-91  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 40092 | 40-Zr-92  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 40093 | 40-Zr-93  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 40094 | 40-Zr-94  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 40095 | 40-Zr-95  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 40096 | 40-Zr-96  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 41093 | 41-Nb-93  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 41094 | 41-Nb-94  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 41095 | 41-Nb-95  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 42000 | 42-Mo-nat | ENDF/B-VI.8 | 300, 600, 900, 1200, 1500, 1800 |
| 42092 | 42-Mo-92  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 42094 | 42-Mo-94  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 42095 | 42-Mo-95  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 42096 | 42-Mo-96  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 42097 | 42-Mo-97  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 42098 | 42-Mo-98  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 42099 | 42-Mo-99  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 42100 | 42-Mo-100 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 43099 | 43-Tc-99  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 44096 | 44-Ru-96  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 44098 | 44-Ru-98  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 44099 | 44-Ru-99  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 44100 | 44-Ru-100 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 44101 | 44-Ru-101 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 44102 | 44-Ru-102 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 44103 | 44-Ru-103 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 44104 | 44-Ru-104 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 44105 | 44-Ru-105 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 44106 | 44-Ru-106 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 45103 | 45-Rh-103 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 45105 | 45-Rh-105 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |

|       |            |             |                                 |
|-------|------------|-------------|---------------------------------|
| 46102 | 46-Pd-102  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 46104 | 46-Pd-104  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 46105 | 46-Pd-105  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 46106 | 46-Pd-106  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 46107 | 46-Pd-107  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 46108 | 46-Pd-108  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 46110 | 46-Pd-110  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 47000 | 47-Ag-nat  | JENDL-3.2   | 300, 600, 900, 1200, 1500, 1800 |
| 47107 | 47-Ag-107  | JEFF-3.1    | 300, 600, 900, 1200, 1500, 1800 |
| 47109 | 47-Ag-109  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 47111 | 47-Ag-111  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 47310 | 47-Ag-110m | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 48000 | 48-Cd-nat  | ENDF/B-VI.8 | 300, 600, 900, 1200, 1500, 1800 |
| 48106 | 48-Cd-106  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 48108 | 48-Cd-108  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 48110 | 48-Cd-110  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 48111 | 48-Cd-111  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 48112 | 48-Cd-112  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 48113 | 48-Cd-113  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 48114 | 48-Cd-114  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 48115 | 48-Cd-115  | JEF-2.2     | 300, 600, 900, 1200, 1500, 1800 |
| 48116 | 48-Cd-116  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 48315 | 48-Cd-115m | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 49000 | 49-In-nat  | ENDF/B-VI.8 | 300, 600, 900, 1200, 1500, 1800 |
| 49113 | 49-In-113  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 49115 | 49-In-115  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 50000 | 50-Sn-nat  | BROND-2.2   | 300, 600, 900, 1200, 1500, 1800 |
| 50112 | 50-Sn-112  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 50113 | 50-Sn-113  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 50114 | 50-Sn-114  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 50115 | 50-Sn-115  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 50116 | 50-Sn-116  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 50117 | 50-Sn-117  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 50118 | 50-Sn-118  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 50119 | 50-Sn-119  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 50120 | 50-Sn-120  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 50122 | 50-Sn-122  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 50123 | 50-Sn-123  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 50124 | 50-Sn-124  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 50125 | 50-Sn-125  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 50126 | 50-Sn-126  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 51000 | 51-Sb-nat  | JENDL-3.2   | 300, 600, 900, 1200, 1500, 1800 |
| 51121 | 51-Sb-121  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |

|       |            |             |                                 |
|-------|------------|-------------|---------------------------------|
| 51123 | 51-Sb-123  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 51124 | 51-Sb-124  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 51125 | 51-Sb-125  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 51126 | 51-Sb-126  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 52120 | 52-Te-120  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 52122 | 52-Te-122  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 52123 | 52-Te-123  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 52124 | 52-Te-124  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 52125 | 52-Te-125  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 52126 | 52-Te-126  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 52127 | 52-Te-127  | JEF-2.2     | 300, 600, 900, 1200, 1500, 1800 |
| 52128 | 52-Te-128  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 52129 | 52-Te-129  | JEF-2.2     | 300, 600, 900, 1200, 1500, 1800 |
| 52130 | 52-Te-130  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 52132 | 52-Te-132  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 52327 | 52-Te-127m | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 52329 | 52-Te-129m | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 53127 | 53-I-127   | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 53129 | 53-I-129   | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 53130 | 53-I-130   | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 53131 | 53-I-131   | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 53135 | 53-I-135   | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 54123 | 54-Xe-123  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 54124 | 54-Xe-124  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 54126 | 54-Xe-126  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 54128 | 54-Xe-128  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 54129 | 54-Xe-129  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 54130 | 54-Xe-130  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 54131 | 54-Xe-131  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 54132 | 54-Xe-132  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 54133 | 54-Xe-133  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 54134 | 54-Xe-134  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 54135 | 54-Xe-135  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 54136 | 54-Xe-136  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 55133 | 55-Cs-133  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 55134 | 55-Cs-134  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 55135 | 55-Cs-135  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 55136 | 55-Cs-136  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 55137 | 55-Cs-137  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 56130 | 56-Ba-130  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 56132 | 56-Ba-132  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 56133 | 56-Ba-133  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 56134 | 56-Ba-134  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |

|       |            |             |                                 |
|-------|------------|-------------|---------------------------------|
| 56135 | 56-Ba-135  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 56136 | 56-Ba-136  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 56137 | 56-Ba-137  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 56138 | 56-Ba-138  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 56140 | 56-Ba-140  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 57138 | 57-La-138  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 57139 | 57-La-139  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 57140 | 57-La-140  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 58136 | 58-Ce-136  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 58138 | 58-Ce-138  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 58139 | 58-Ce-139  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 58140 | 58-Ce-140  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 58141 | 58-Ce-141  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 58142 | 58-Ce-142  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 58143 | 58-Ce-143  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 58144 | 58-Ce-144  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 59141 | 59-Pr-141  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 59142 | 59-Pr-142  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 59143 | 59-Pr-143  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 60142 | 60-Nd-142  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 60143 | 60-Nd-143  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 60144 | 60-Nd-144  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 60145 | 60-Nd-145  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 60146 | 60-Nd-146  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 60147 | 60-Nd-147  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 60148 | 60-Nd-148  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 60150 | 60-Nd-150  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 61147 | 61-Pm-147  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 61148 | 61-Pm-148  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 61149 | 61-Pm-149  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 61151 | 61-Pm-151  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 61348 | 61-Pm-148m | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 62000 | 62-Sm-nat  | BROND-2.2   | 300, 600, 900, 1200, 1500, 1800 |
| 62144 | 62-Sm-144  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 62147 | 62-Sm-147  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 62148 | 62-Sm-148  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 62149 | 62-Sm-149  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 62150 | 62-Sm-150  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 62151 | 62-Sm-151  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 62152 | 62-Sm-152  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 62153 | 62-Sm-153  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 62154 | 62-Sm-154  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 63000 | 63-Eu-nat  | JENDL-3.2   | 300, 600, 900, 1200, 1500, 1800 |

|       |            |             |                                 |
|-------|------------|-------------|---------------------------------|
| 63151 | 63-Eu-151  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 63152 | 63-Eu-152  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 63153 | 63-Eu-153  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 63154 | 63-Eu-154  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 63155 | 63-Eu-155  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 63156 | 63-Eu-156  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 63157 | 63-Eu-157  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 64000 | 64-Gd-nat  | BROND-2.2   | 300, 600, 900, 1200, 1500, 1800 |
| 64152 | 64-Gd-152  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 64153 | 64-Gd-153  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 64154 | 64-Gd-154  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 64155 | 64-Gd-155  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 64156 | 64-Gd-156  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 64157 | 64-Gd-157  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 64158 | 64-Gd-158  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 64160 | 64-Gd-160  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 65159 | 65-Tb-159  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 65160 | 65-Tb-160  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 66156 | 66-Dy-156  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 66158 | 66-Dy-158  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 66160 | 66-Dy-160  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 66161 | 66-Dy-161  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 66162 | 66-Dy-162  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 66163 | 66-Dy-163  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 66164 | 66-Dy-164  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 67165 | 67-Ho-165  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 67366 | 67-Ho-166m | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 68162 | 68-Er-162  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 68164 | 68-Er-164  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 68166 | 68-Er-166  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 68167 | 68-Er-167  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 68168 | 68-Er-168  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 68170 | 68-Er-170  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 71000 | 71-Lu-nat  | CENDL-2     | 300, 600, 900, 1200, 1500, 1800 |
| 71175 | 71-Lu-175  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 71176 | 71-Lu-176  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 72000 | 72-Hf-nat  | ENDF/B-VI.8 | 300, 600, 900, 1200, 1500, 1800 |
| 72174 | 72-Hf-174  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 72176 | 72-Hf-176  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 72177 | 72-Hf-177  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 72178 | 72-Hf-178  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 72179 | 72-Hf-179  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 72180 | 72-Hf-180  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |

|       |           |             |                                 |
|-------|-----------|-------------|---------------------------------|
| 73181 | 73-Ta-181 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 73182 | 73-Ta-182 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 74000 | 74-W-nat  | ENDF/B-VI.8 | 300, 600, 900, 1200, 1500, 1800 |
| 74182 | 74-W-182  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 74183 | 74-W-183  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 74184 | 74-W-184  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 74186 | 74-W-186  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 75000 | 75-Re-nat | BROND-2.2   | 300, 600, 900, 1200, 1500, 1800 |
| 75185 | 75-Re-185 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 75187 | 75-Re-187 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 76000 | 76-Os-nat | JEFF-3.1    | 300, 600, 900, 1200, 1500, 1800 |
| 77000 | 77-Ir-nat | BROND-2.2   | 300, 600, 900, 1200, 1500, 1800 |
| 77191 | 77-Ir-191 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 77193 | 77-Ir-193 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 78000 | 78-Pt-nat | JEFF-3.1    | 300, 600, 900, 1200, 1500, 1800 |
| 79197 | 79-Au-197 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 80000 | 80-Hg-nat | CENDL-2     | 300, 600, 900, 1200, 1500, 1800 |
| 80196 | 80-Hg-196 | JEFF-3.1    | 300, 600, 900, 1200, 1500, 1800 |
| 80198 | 80-Hg-198 | JEFF-3.1    | 300, 600, 900, 1200, 1500, 1800 |
| 80199 | 80-Hg-199 | JEFF-3.1    | 300, 600, 900, 1200, 1500, 1800 |
| 80200 | 80-Hg-200 | JEFF-3.1    | 300, 600, 900, 1200, 1500, 1800 |
| 80201 | 80-Hg-201 | JEFF-3.1    | 300, 600, 900, 1200, 1500, 1800 |
| 80202 | 80-Hg-202 | JEFF-3.1    | 300, 600, 900, 1200, 1500, 1800 |
| 80204 | 80-Hg-204 | JEFF-3.1    | 300, 600, 900, 1200, 1500, 1800 |
| 81000 | 81-Tl-nat | JEFF-3.1    | 300, 600, 900, 1200, 1500, 1800 |
| 82000 | 82-Pb-nat | JENDL-3.2   | 300, 600, 900, 1200, 1500, 1800 |
| 82204 | 82-Pb-204 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 82206 | 82-Pb-206 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 82207 | 82-Pb-207 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 82208 | 82-Pb-208 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 83209 | 83-Bi-209 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 88223 | 88-Ra-223 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 88224 | 88-Ra-224 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 88225 | 88-Ra-225 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 88226 | 88-Ra-226 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 89225 | 89-Ac-225 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 89226 | 89-Ac-226 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 89227 | 89-Ac-227 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 90227 | 90-Th-227 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 90228 | 90-Th-228 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 90229 | 90-Th-229 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 90230 | 90-Th-230 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 90232 | 90-Th-232 | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |

|       |            |             |                                 |
|-------|------------|-------------|---------------------------------|
| 90233 | 90-Th-233  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 90234 | 90-Th-234  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 91231 | 91-Pa-231  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 91232 | 91-Pa-232  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 91233 | 91-Pa-233  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 92232 | 92-U-232   | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 92233 | 92-U-233   | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 92234 | 92-U-234   | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 92235 | 92-U-235   | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 92236 | 92-U-236   | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 92237 | 92-U-237   | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 92238 | 92-U-238   | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 92239 | 92-U-239   | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 92240 | 92-U-240   | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 92241 | 92-U-241   | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 93235 | 93-Np-235  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 93236 | 93-Np-236  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 93237 | 93-Np-237  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 93238 | 93-Np-238  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 93239 | 93-Np-239  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 94236 | 94-Pu-236  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 94237 | 94-Pu-237  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 94238 | 94-Pu-238  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 94239 | 94-Pu-239  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 94240 | 94-Pu-240  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 94241 | 94-Pu-241  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 94242 | 94-Pu-242  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 94243 | 94-Pu-243  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 94244 | 94-Pu-244  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 94246 | 94-Pu-246  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 95241 | 95-Am-241  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 95242 | 95-Am-242  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 95243 | 95-Am-243  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 95244 | 95-Am-244  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 95342 | 95-Am-242m | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 95344 | 95-Am-244m | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 96240 | 96-Cm-240  | JEFF-3.1    | 300, 600, 900, 1200, 1500, 1800 |
| 96241 | 96-Cm-241  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 96242 | 96-Cm-242  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 96243 | 96-Cm-243  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 96244 | 96-Cm-244  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 96245 | 96-Cm-245  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 96246 | 96-Cm-246  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |

|       |            |             |                                 |
|-------|------------|-------------|---------------------------------|
| 96247 | 96-Cm-247  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 96248 | 96-Cm-248  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 96249 | 96-Cm-249  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 96250 | 96-Cm-250  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 97247 | 97-Bk-247  | JEFF-3.1    | 300, 600, 900, 1200, 1500, 1800 |
| 97249 | 97-Bk-249  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 97250 | 97-Bk-250  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 98249 | 98-Cf-249  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 98250 | 98-Cf-250  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 98251 | 98-Cf-251  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 98252 | 98-Cf-252  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 98253 | 98-Cf-253  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 98254 | 98-Cf-254  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 99253 | 99-Es-253  | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 99255 | 99-Es-255  | JEFF-3.1    | 300, 600, 900, 1200, 1500, 1800 |
| 99353 | 99-Es-253m | JEF-2.2     | 300, 600, 900, 1200, 1500, 1800 |
| 99354 | 99-Es-254m | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |
| 99355 | 99-Es-255m | ENDFB/VII.0 | 300, 600, 900, 1200, 1500, 1800 |