| Facility | Thermal $< 0.5 \text{ eV}$ $(\text{n/cm}^2.\text{s})$ | Fast $> 1 \text{ MeV}$ (n/cm ² .s) | Diameter (cm) | Length (cm) |
|----------|--|--|---------------|-------------|
| | | , | | |
| CIF | $1.0*10^{13}$ | $5.2 * 10^{12}$ | 4.4 | 38 |
| (Al) | | | | |
| PTS | $4.6*10^{12}$ | $2.3 * 10^{12}$ | 1.5 | 10 |
| (Void) | | | | |
| NTD | $3.1*10^{11}$ | $1.2 * 10^{10}$ | 8.8 | 22 |
| (Void) | | | | |

All fluxes given for 1 MW operation.

CIF: Central Irradiation Facility

PTS: Pneumatic Transfer System

NTD: Neutron Transmutation Doping (> 10 locations)

NIF: Neutron Irradiation Facility

φfast/ φthermal: CIF 50%, PTS 50%, and NTD 3.6%.

Pulsing: Typical pulse reactivity **\$1.60** (or \$0.60 prompt reactivity)

Peak temperature > 200 oC

Peak power \approx 320 MW

Total energy release $\approx 12 \text{ MW-sec}$

 $FWHM \approx 30 \; msec$