

Change in particle flux: Standard conical JD hub Cylindrical JD hub

G

th.n: 6.6kHz +3%
 hi.n: 882 Hz +5%
 had: 167 Hz +3%
 c.r.: 32 Hz +4%
 p.r.: 5.9 Hz +5%

th.n. = thermal neutron rate (neutrons < 100 keV)
 hi.n. = high energy neutron rate (neutrons > 100 keV)
 had = charged and neutral hadron rate > 20 MeV
 c.r. = counting rate
 $= 0.0005n + 0.0117 \gamma + (\mu + p + \pi + 0.25e) / 2$
 p.r. = penetrating particle rate
 $= 0.1 + 0.0117 \gamma + (\mu + p + \pi + 0.25e) / 2$

F

th.n: 5.7kHz +3%
 hi.n: 836 Hz +7%
 had: 158 Hz +8%
 c.r.: 32 Hz +4%
 p.r.: 7.1Hz +6%

Forward
Toroid

th.n: 27 kHz +7%
 hi.n: 8.8kHz +14%
 had: 1.7kHz +12%
 c.r.: 210 Hz +9%
 p.r.: 54 Hz +6%

th.n: 42 kHz +13%
 hi.n: 29 kHz +14%
 had: 8.4kHz +12%
 c.r.: 538 Hz +15%
 p.r.: 175 Hz +8%

