- Is the first rf cavity viable?
  - High-gradient (5 MeV/m), low-frequency ($\approx$ 70 MHz) rf cavity only 3 m downstream of target.
  - $> 10^{14}$ particles traverse the cavity each proton pulse; many hit the cavity wall.
  - Cavities tested against breakdown from beam-induced showers only up to $\approx 10^{12}$ particles/pulse.
- Is the 20-T Solenoid viable?
  - Even with water-cooled tungsten inserts, this hybrid (copper/superconductor) magnet will experience a very high radiation dose.
  - LANL has experience with superconducting magnets in high radiation areas.
- Other Radiological Issues
  - A 4-MW beam leads to activation issues characteristic of neutron spallation sources.
  - Remote handling of activated liquid target material is under study at CERN ISOLDE, the ORNL NSNS, ...