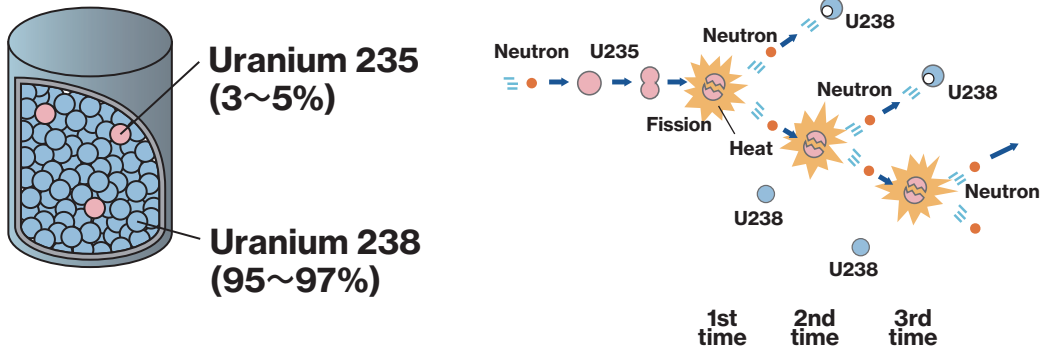
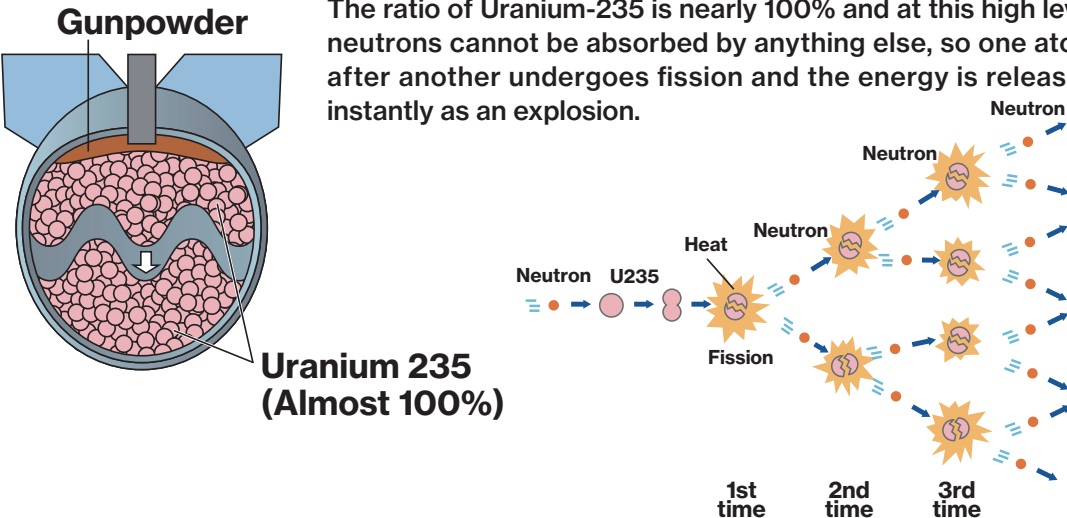


Differences between Nuclear Power and Nuclear Bombs

	Ratio of Uranium-235 to Uranium-238 & Chain Nuclear Reaction	Method of Controlling Fission Rate
In a Nuclear Power Plant	<p>The ratio of Uranium-235 is low, so fission is sustained at a constant scale, for reasons such as absorption of neutrons by Uranium-238.</p>  <p>Uranium 235 (3~5%) Uranium 238 (95~97%)</p> <p>1st time 2nd time 3rd time</p>	<p>Many control rods are installed and the reactions are self-limiting, so the rate of fission cannot increase rapidly.</p>
In a Nuclear Bomb	<p>The ratio of Uranium-235 is nearly 100% and at this high level neutrons cannot be absorbed by anything else, so one atom after another undergoes fission and the energy is released instantly as an explosion.</p>  <p>Gunpowder Uranium 235 (Almost 100%)</p> <p>1st time 2nd time 3rd time</p>	<p>No control rods are installed and the reactions are not self-limiting, so the rapid increase in fission cannot be stopped.</p>