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Chapter 10 Nuclear Energy and Power Page 10 - 6 (Th) fuel. This thorium fuel is used to "breed" a U-233 isotope, which can be used as a fission fuel. The advantages of this fuel are that the fission byproducts are shorter lived and there is less risk of

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Section 10.4 10.4 Fission and Fusion

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Chapter 10 Nuclear Reactions

For the specification of the scope of backfitting activities in nuclear installations that were commissioned prior to the enactment of the Nuclear Energy Act, the requirements and principles laid down in Articles 7 to 12 must be met in accordance with Article 22 paragraph 2 letter g of the Nuclear Energy Act.

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CC 732.11 Nuclear Energy Ordinance of 10 December 2004 (NEO) What is Nuclear Energy? Nuclear Energy is the energy in the core of an atom. Where an atom is a tiny particle that constitutes every matter in the universe. Normally, the mass of an atom is concentrated at the centre of the nucleus. Neutrons and Protons are

the two subatomic particles that comprehend the nucleus. There exists a massive amount of energy in bonds that bind atoms together.

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Nuclear Energy - Definition, Types, Applications ...

#### THE ENERGY OF THE STARS - NUCLEAR FUSION

In nuclear fission a heavy nucleus is split by neutron bombardment but if two light nuclei can be joined together we have another way of releasing energy - this is known as nuclear fusion. Many scientists in Europe, Japan and the United States are working to achieve controlled fusion.

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Chapter 10: Radiation

Chapter 10 Nuclear Chemistry (p. 290) Radioactivity- the process in which an unstable atomic nucleus emits (or sends out) charged particles and energy § Charged particles and various types of energy can escape from all nuclei with atomic numbers of 84 or higher (i.e. Polonium through rest of periodic table)

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