

C. Source Materials

Geology, exploration techniques, chemistry and technology of extracting uranium and thorium from their ores and concentrates, the chemistry, production technology, and techniques of purification and fabrication of uranium and thorium compounds and metals, including design, construction and operation of plants, except as provided in Paragraph A.

D. Materials

(1) Physical, chemical and nuclear properties of all elements, compounds, alloys, mixtures, special nuclear materials, byproduct material, other radioisotopes, and stable isotopes, and their behaviour under various conditions, except as provided in Paragraph A.

(2) Technology of production and utilization, from laboratory experimentation and theory of production up to pilot plant operations (but not including design and operation of pilot plants and full-scale plants, except as may be agreed), of all elements, compounds, alloys, mixtures, special nuclear material, byproduct material, other radioisotopes, and stable isotopes, relevant to and subject to the limitations of Paragraphs B, E and F of this Article, except as provided in Paragraph A and (a), (b), (c) and (d) of this subparagraph.

- (a) The Commission will not communicate Restricted Data pertaining to design, construction and operation of production plants for the separation of U-235 from other uranium isotopes. The Commission, however, will supply the Government of Canada with uranium enriched in U-235 as provided in Article III A and Article VI.
- (b) The Commission will not communicate Restricted Data on the design, construction and operation of specific production plants for the separation of deuterium from the other isotope of hydrogen until such time as the Government of Canada shall determine that the construction of such plants is required. The Commission will, however, supply the Government of Canada with heavy water as provided in Article III A and Article VI.
- (c) No Restricted Data will be exchanged pertaining to the design, construction and operation of production plants for the separation of isotopes of any other element, except as may be agreed.
- (d) No Restricted Data will be exchanged pertaining to the underlying principles, theory, design, construction and operation of facilities, other than reactors, capable of producing significant quantities of isotopes by means of nuclear reactions, except as may be agreed.

E. Health and Safety

The entire field of health and safety is related to this Article. In addition, those problems of health and safety which affect the individual, his environment, and the civilian population as a whole and which arise from nuclear explosion (excluding such tests data as would permit the determination of the yield of any specific weapon or nuclear device and excluding any information relating to the design or fabrication of any weapon or nuclear device), and except as provided in Paragraph A.