

No. 10519

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**INTERNATIONAL ATOMIC ENERGY AGENCY,  
FINLAND and UNITED STATES OF AMERICA**

**Five-Year Contract for the transfer of enriched uranium for a  
research reactor in Finland (with annex). Signed at Vienna  
on 27 November 1969**

*Authentic text: English.*

*Registered by the International Atomic Energy Agency on 4 June 1970.*

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**AGENCE INTERNATIONALE DE L'ÉNERGIE ATOMIQUE,  
FINLANDE et ÉTATS-UNIS D'AMÉRIQUE**

**Contrat d'une durée de cinq ans pour la cession d'uranium enrichi  
destiné à un réacteur de recherche finlandais (avec annexe).  
Signé à Vienne le 27 novembre 1969**

*Texte authentique: anglais.*

*Enregistré par l'Agence internationale de l'énergie atomique le 4 juin 1970.*

## FIVE-YEAR CONTRACT<sup>1</sup> FOR THE TRANSFER OF ENRICHED URANIUM FOR A RESEARCH REACTOR IN FINLAND

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WHEREAS the International Atomic Energy Agency (hereinafter called the “ Agency ”) and the Government of Finland (hereinafter called “ Finland ”) on 30 December 1960<sup>2</sup> signed an Agreement for assistance by the Agency to Finland in establishing a training and research project for peaceful purposes relating to the FiR-1 reactor (hereinafter called the “ Project Agreement ”);

WHEREAS the Agency, Finland and the United States Atomic Energy Commission (hereinafter called the “ Commission ”), acting on behalf of the Government of the United States of America (hereinafter called the “ United States ”), on 23 and 30 December 1960<sup>3</sup>, on 8 July 1966<sup>4</sup> and on 30 October and 3 and 5 November 1967,<sup>5</sup> signed Contracts for the Transfer of Enriched Uranium (hereinafter called the “ First ”, “ Second ” and “ Third ” Supply Agreement respectively) for the reactor, pursuant to which a supply of enriched uranium was delivered to Finland;

WHEREAS Finland, in connection with the Project Agreement, has requested the assistance of the Agency in securing from the United States an additional supply of enriched uranium over a period of five years;

WHEREAS the Board of Governors of the Agency approved the additional assistance for the project on 19 September 1969;

WHEREAS the Agency and the United States on 11 May 1959<sup>6</sup> concluded an Agreement for Co-operation (hereinafter called the “ Co-operation Agreement ”), under which the United States undertook to make available to the Agency pursuant to its Statute<sup>7</sup> certain quantities of special fissionable material; and

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<sup>1</sup> Came into force on 27 November 1969 by signature, in accordance with section 8.

<sup>2</sup> United Nations, *Treaty Series*, vol. 395, p. 257.

<sup>3</sup> *Ibid.*, vol. 395, p. 241.

<sup>4</sup> *Ibid.*, vol. 572, p. 283.

<sup>5</sup> *Ibid.*, vol. 630, p. 77.

<sup>6</sup> *Ibid.*, vol. 339, p. 359.

<sup>7</sup> *Ibid.*, vol. 276, p. 3, and vol. 471, p. 334.

WHEREAS Finland has made arrangements with a manufacturer in the United States of America for the fabrication of enriched uranium into additional fuel elements for the reactor and for the provision therefor of fission counters containing enriched uranium;

NOW THEREFORE the Agency, the Commission and Finland hereby agree as follows:

*Article I*

TRANSFER OF ENRICHED URANIUM

*Section 1.* During a period of five (5) years from the entry into force of this Contract, the Commission, subject to the provisions of the Co-operation Agreement, shall transfer to the Agency, and the Agency shall accept from the Commission:

- (i) All of Finland's requirements for uranium enriched to approximately 20 per cent by weight in the isotope uranium-235 (hereinafter called the "Fuel Material") up to a total net amount of 23,750 grams of uranium, the exact quantities and enrichments to be determined pursuant to Section 3 of this Article, contained in fuel elements for use in the 250-kilowatt FiR-1 Triga Mark II research reactor (hereinafter called the "Reactor");
- (ii) Approximately 3.4 grams of uranium enriched to greater than 90 per cent of weight in the isotope uranium-235 (hereinafter called the "Indicator Material"), the exact quantity and enrichment to be determined pursuant to Section 3 of this Article, contained in two fission counters for the reactor.

*Section 2.* The Agency shall transfer to Finland and Finland shall accept from the Agency the enriched uranium received by the Agency pursuant to Section 1 of this Article.

*Section 3.* The conditions of the transfer specified in Sections 1 and 2 of this Article shall be as follows:

(a) Within ninety (90) days after the entry into force of this Contract and on or before 1 January of each calendar year thereafter, Finland shall provide the Agency with a written schedule of Finland's requirements for enriched uranium for the following twelve (12) month period, and at the same time Finland shall provide the Commission with a copy of such schedule. Such schedule shall have as its sole purpose facilitating deliveries hereunder and shall not be binding on the Parties.

(b) Finland shall provide the Agency and the Commission at least sixty (60) days' written notice of the amounts of enriched uranium to be made available to the manufacturer for the implementation of this Contract.

(c) The Commission shall make available to the manufacturer or to a properly licensed supplier of the manufacturer, at a facility designated by the Commission, enriched uranium for the fuel elements and fission counters, subject to such terms, charges and licences as the Commission may require.

(d) The precise quantity and enrichment of the enriched uranium in the fuel elements and in the fission counters shall be determined by the manufacturer or his supplier, and Finland shall cause the manufacturer to submit to the Agency and to the Commission a written certification of the determination of the enrichment by weight in the isotope uranium-235 and of the quantity of enriched uranium contained in the fission counters and fabricated fuel elements. With regard to the fuel material, this determination may be checked by the Agency, by Finland and by the Commission by means of any review or analysis that any of them may deem appropriate, and shall be approved or revised by unanimous agreement of the Parties. The quantity and enrichment shown in the agreed determination shall be accepted by the Parties as conclusive for all purposes. With regard to the indicator material, the determination by the manufacturer shall be accepted by the Parties as conclusive for all purposes.

(e) Upon completion of the fabrication and the preparation for shipment of the enriched uranium, and determination of the quantity and enrichment of the enriched uranium as specified in Section 3 (d) of this Article, Finland shall arrange for a transporter, who, after thirty (30) days' written notice to the Commission and subject to such terms, charges, conditions and licences as the Commission may require, shall transport and deliver the enriched uranium to the port of export at Los Angeles, California. The Commission, at the request of the Agency, shall thereupon transfer possession to Finland at the port so specified and authorize the export of such material. Finland shall make arrangements, including the payment of all costs, for domestic and overseas transportation and delivery (including cost of containers and packaging) and for storing such material, as well as for physically handling such material in connection with such delivery and transfer; such arrangements and costs shall not be the responsibility of, nor be borne by, either the Commission or the Agency. Finland shall accept possession of such material at the designated port of export and shall sign an appropriate written receipt therefor, whereupon Finland shall assume full and complete responsibility for the enriched uranium contained therein.

(f) Title to the enriched uranium shall vest in the Agency at the time it leaves the jurisdiction of the United States of America and shall thereafter immediately and automatically vest in Finland.

(g) It is understood that if desired by the Parties, the transactions relating to the fuel material, as detailed in Articles I and II of this Contract, may be carried out separately from and independently of those relating to the indicator material.

## *Article II*

### PAYMENT

*Section 4.* The Agency shall send an invoice to Finland at or subsequent to the time the Parties have agreed with respect to the determination pursuant to Section 3 (d) of Article I. Within thirty (30) days from the date of this invoice Finland shall pay to the Agency in the United States currency a sum equal to that which the Agency will be obligated to pay to the Commission pursuant to Section 5 of this Article. On all amounts not received by the Agency within thirty (30) days from the date of invoice, Finland shall pay interest at the per annum rate (365-day basis) established from time to time by the Commission, such interest to commence on the thirty-first (31st) day from date of invoice.

*Section 5.* The Commission shall send an invoice to the Agency at or subsequent to the time the Commission transfers possession pursuant to Section 3 (e) of Article I. Within sixty (60) days from the date of this invoice the Agency shall pay for the enriched uranium as per the schedule of charges for enriched uranium published in the United States Federal Register and in effect on the date of transfer of the material, provided, however, that in the event the charges in effect on the date of transfer of the material should exceed the charges set forth in the Annex to this Contract, which are the charges in effect on the date of the entry into force of this Contract pursuant to Section 8, the Agency may, and at the request of Finland shall, cancel this Contract without incurring obligations of any kind thereunder. Payment shall be made in United States currency to the Commission or its designated agent or contractor. On all amounts not received by the Agency within sixty (60) days from the date of invoice, Finland shall pay interest at the per annum rate (365-day basis) established from time to time by the Commission, such interest to commence on the sixty-first (61st) day from date of invoice.

*Article III*

## GENERAL PROVISIONS

*Section 6.* Articles III, IV and V of the First Supply Agreement shall apply, *mutatis mutandis*, to the transfers specified in Sections 1 and 2 of this Contract.

*Article IV*

## AMENDMENT OF PROJECT AGREEMENT

*Section 7.* It is understood by the Agency and Finland that paragraph 2 of Article II of the Project Agreement is hereby amended to include the material covered by this Contract under the definitions of fuel material and indicator material.

*Article V*

## ENTRY INTO FORCE

*Section 8.* This Contract shall enter into force upon signature by or for the Director General of the Agency and by the authorized representatives for the Commission and Finland.

DONE in Vienna, on the 27th day of November 1969, in triplicate in the English language.

For the International Atomic Energy Agency:

Sigvard EKLUND

For the Government of Finland:

Jussi MÄKINEN

For the United States Atomic Energy Commission  
on behalf of the Government of the United States of America:

Verne B. LEWIS

## ANNEX

## UNITED STATES ATOMIC ENERGY COMMISSION CHARGES FOR ENRICHED URANIUM

The rates of charges for enriched uranium, as provided for in Section 5 of this Contract, are as follows:

<i>Percentage enrichment by weight in the isotope <math>^{235}\text{U}</math> of the enriched uranium</i>	<i>Price US\$/g of enriched uranium</i>
18	1.876
20	2.098
25	2.656
90	10.034
93	10.385
96	10.764