

## **Siberian Chemical Combine**

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**Gennadiy P. Khandorin , Director General**

The Siberian Chemical Combine (SChC) was founded in accordance with the USSR Government decree of 26 March 1949. It is one of the world's greatest nuclear centres, a producer of complicated and high technologies.

In the past 50 years the combine has gained valuable operating experience on production and reprocessing of fissile materials for weapon- and energy-producing purposes.

A number of high technologies implemented at the SChC was not used previously in the world's economy nor in domestic practice.

The SChC is now engaged in the following activities:

- output of large volumes of thermal and electric energy for the Tomsk, Seversk and Tomsk region
- mastery of conversion technologies;
- development of foreign economic relations;
- production of consumer goods;
- employment to thousands of people;

The SChC is an enterprise which includes special radiation- and nuclear-hazardous facilities and plants concerned with development, production, operation, storage, transportation, and utilization of nuclear weapon, radiation-hazardous materials and products.

The SChC was created as a unified complex of the nuclear technological cycle for fabrication of nuclear weapon components from fissile materials (highly enriched uranium and plutonium) and for production of other fissile materials (including those for energy-producing purposes).

The SChC consists now of five main plants, of a heat and electric power plant, as well as of many auxiliary sections needed for the operation of the Combine, including the following facilities:

- Plant for isotope separation – production of enriched uranium for nuclear power.
- Reactor plant – output of thermal and electric power.
- Reactor plant 5 – organization of conversion production processes.
- Maintenance mechanical plant – manufacture of spares and standby equipment for SChC.
- Radiochemical plant – reprocessing of irradiated uranium elements for recovery of uranium and plutonium.
- Sublimate plant – reprocessing of uranium-containing products, including highly enriched uranium.
- Chemical and metallurgical plant – utilization of special products, production of magnetic alloys and magnets, production of ultra-dispersed powders.
- “Hydroenergostab” plant – supply of thermal energy, of artesian and industrial water, disposal of waste waters.
- Heat and electric power plant – output of thermal and electric power.
- Railroad shop – delivery of people and goods.
- Research and design institute – R&D work, manufacture of test and commercial lots of different materials: ionogenic lithium salts, ultra-dispersed powders of metal oxides, stable isotopes a.o.

The SChC is a collective body of unique specialists capable of solving the most complicated problems in the field of nuclear power.

Among the Combine staff there are 2 Lenin Prize laureates and 39 State Prize laureates; 33 specialists were rewarded with other prizes. Six scientists the Doctor degree, and 115 – the Candidate degree.

For valuable contributions to the development of nuclear industry, 1307 co-workers were rewarded with different orders and medals.

The SChC has established cooperation with Cogema, INTERNESCO, GNSS, PALMCO, BNFL and others.

The main activity is now primarily concerned with the marketing of products, services, and materials. Among these are:

- stable isotopes of xenon, tin, sulphur, selenium, krypton;
- lithium salts for chemical sources of electric current;
- enriched and natural uranium hexafluoride;
- services on uranium conversion and enrichment;
- metallic uranium of any enrichment degree;
- special high-energy magnets, magnetic alloys and ligatures;
- ultra-dispersed powders of copper, aluminium, alumina, zirconium, oxide;
- inorganic fluorides;
- nonaqueous hydrogen fluoride;
- consumer goods: mixers for baths and kitchens, furniture, vessel equipment for dairy industry, greenhouses.

The Department of Marketing and Foreign Economic Relations is involved in the importation of raw materials, technological and analytical equipment, consumer goods and medical equipment; the department is concerned with customs clearance of all export and import cargos of the SChC and with participation of the combine in foreign exhibitions.

The SChC was rewarded with international diplomas and prizes for the high quality of output products and the stable foreign economic ties.

The SChC Director General, G. P. Khandorin is Doctor of Technical Sciences, Academician of the Russian Academy of Engineering Science, Full Member of the Asian-Pacific Academy of Materials. He graduated from the Tomsk Polytechnical Institute (1956). At the Combine he has been working for more than 30 years, with short interruptions. He worked as engineer, head of shift, and as director of the sublimate and chemical metallurgical plants. In 1990, he was appointed as the SChC Director on a competitive basis. He is a man of principle and persistence. He considers the opinions of workers and engineers. Under his leadership the Combine is successfully coping with the conversion period.

G.P. Khandorin was awarded two Orders for his great services to the country. he was awarded the Russian Federation State Prize for Achievements in Science and Engineering; and he was also honored with the personal International Prize for Wisdom and Flexibility in Management Politics

### **Administration of the Combine:**

Vladimir M. Kondakov – Chief Engineer.

Georgij I. Dubov – Deputy Director General on Personnel and Social Conditions.

Igor K. Sidorenko – Deputy Director General on Commerce.

Ivan G. Pashkov – Deputy Director General on Civil Defense and Emergencies.

Igor V. Goloshohov – Deputy Director General on Safety.

Vladimir M. Korotkevich – Deputy Director General on Economics.

Vladimir N. Ivanov – Deputy Director General on Capital Construction.

Juriy V. Samarin – Deputy Director General on General Problems.