



## **Novosibirsk Chemical Concentrates Plant (JSC NCCP)**

The Novosibirsk Chemical Concentrates Plant today is one of Russia's leading nuclear fuel producers for nuclear power plants in Russia and other countries. The plant is a state-of-the-art complex consisting of chemical and machine engineering sections which fabricates fuel for power and research reactors. The NCCP also includes a large-scale lithium process line which allows for fine cleaning of the material from impurities.

The NCCP's key product is nuclear fuel (fuel assemblies) for VVER-1000 and VVER-440 reactors and various research reactors. The plant benefits from its over quarter of a century expertise in fabricating nuclear fuel for power reactors. Nearly half of nuclear electricity in Ukraine and Bulgaria is produced at nuclear fuel plant run with the NCCP-fabricated fuel.

The plant employs over 6,000 people.

The NCCP was established in by a governmental directive in 1948 and was initially set to cater nuclear industry. In the 1960's it introduced the line for producing pure lithium and its salts. In 1980 the line to fabricate fuel rods and assemblies for power reactors was commissioned. Under the new technology development program the NCCP has deployed a new section for conversion of recovered uranium into ceramic-grade uranium dioxide which is used for fabrication of nuclear fuel pellets.

The NCCP has introduced and certified the quality management system which meets the international standard ISO 9001. In addition, the enterprise has implemented and certified the environment management system compliant to ISO 14001. In 1999 and 2000 the NCCP was awarded honorary diploma of the Government of the Russian Federation for high quality of products. In 2006 the NCCP became the first enterprise in Novosibirsk to be granted a certificate of compliance of its occupational safety and health system under the international standard OHSAS 18001:1999, having made by this a complete set of three ISO series certificates.

The plant is advancing its products. In particular, it has mastered fabrication of a new generation of fuel assemblies, i.e. TVS-2 and TVSA. Under the international programs aiming at reduction of nuclear fuel enrichment it has cooperated with industry's research institutes to develop new designs and fabrication technologies of uranium-molybdenum fuel rods.

In 2006 the NCCP implemented a new hydrogen-generating station which now caters the needs of main production process with a potential for expansion. The enterprise has also started a new non-nuclear process of fabricating ceolite catalysts for petrochemical industry.

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