

Written by EUUBC Secretariat  
Monday, 26 January 2015 14:44

---

*January 26, 2015*

The Ukrainian Nuclear Power Generating Company "Energoatom" and Holtec International ("*Holtec*")

have concluded an Amendment to the Contract for the Construction of the Central Spent Nuclear Fuel Storage Facility

(*CSFSF*)

to receive spent fuel from three of Ukraine's Nuclear Power Plants

(*NPPs*)

. The President of NNEGC Energoatom, Yuriy Nedashkovskiy, and President and CEO of Holtec International, Dr. Kris Singh, signed the Amendment on January 26 in Brussels, Belgium.

According to the Amendment, the civil design and construction of the facility will be the responsibility of NNEGC Energoatom (*Ukraine*). At the same time, Holtec International (*USA*) is responsible for the supply of specific dry spent nuclear fuel storage and transport and related technologies which will be deployed in operations on designated NPP sites, during the spent nuclear fuel

(*SNF*)

transportation from NPP sites to the CSFSF, and also at the Central Spent Fuel Storage Facility itself.

This Amendment also specifies that the US-based Company will develop the design for the dry spent nuclear fuel storage and transport equipment that will be used for the SNF storage and implementing its technology into operation. Holtec International is a global leader in the technology and security of spent nuclear storage and has the highest quality and safety standards in the industry.

According to the Contract, the equipment shall be delivered by the end of 2020, during which the key developmental stage will be from 2015 to 2017. During this period, the design and construction of the storage facility will be completed, Holtec's equipment and technology will be implemented, and the CSFSF will be commissioned.

Holtec International will supply 94 spent nuclear fuel storage systems for the CSFSF; further production of these nuclear fuel storage systems will be conducted in Ukraine.

Once the start-up complex for the storage facility has been constructed (*as scheduled for the end of 2017*) and

commissioned, the Central Storage Facility will be receiving spent nuclear fuel

(*SNF*)

from the three nuclear power plants - Khmelnytsky, Rivne, and South-Ukraine NPPs.

(*Zaporizhyya Nuclear Power Plant has its own storage facility for spent nuclear fuel, which has been in operation since 2001*).

Developed by the Kyiv Research and Design Institute "Energoprojekt"

(*KIEP*),

the Feasibility Study for the construction of the storage facility provides for a capacity of 16,530

Written by EUUBC Secretariat  
Monday, 26 January 2015 14:44

---

spent fuel assemblies, including 12,010 received from VVER-1000 Units, and 4,520 – from VVER-440 units, that will fully meet the needs of these nuclear power plants until the end of these power units' service life.

The purpose of the construction of the CSFSF is to strengthen Ukraine's energy independence from foreign energy and services suppliers.

The CSFSF will contain spent nuclear fuel exclusively from Ukrainian NPPs (*it is not envisioned to store any spent fuel from foreign reactors at the Ukrainian storage facility, and, moreover, such storage contradicts the IAEA requirements*).

Presently, Ukraine's Nuclear Power Plants generate more than 50% of the total electricity produced in the country and thus establishing the appropriate conditions for long-term safe storage of SNF is Ukraine's strategic priority for the energy sector.

Commenting on the deal Mr Nedashkovskiy, President of Energoatom said, *"This longterm safe storage will enable us to fulfil Ukraine's international commitment to be responsible for the safe management of spent nuclear fuel, produced by our nuclear power plants."*

When constructed, the CSFSF will eliminate the problem with spent fuel removal (*Ukraine presently exports almost half of its spent nuclear fuel to Russia for technological storage with further reprocessing*).

The estimated costs of the construction and operation of the CSFSF are expected to be four times less than the total costs, which Ukraine now pays to transport its spent nuclear fuel to Russia; the investment into the facility will be paid off in less than four years of operation.

*"This will lead to cost savings for Energoatom of more than \$250 millions per year,"* said Mr Nedashkovskiy.

*"The project is in line with our global strategy to constantly improve our technological base and diversify our suppliers."*

According to the general designer, the CSFSF will have no harmful environment impact in general, and particularly for the groundwater, even if a beyond design basis accident would take place. In fact, as specified by the design, the "dry" storage technology will store the SNF in a noble gas medium, within double-wall stainless steel containers which are loaded into protective concrete modules located on a special pad. These protective modules are designed to provide physical protection of spent fuel, radiation shielding, and passive heat removal during fuel storage. The structural strength of this system has been verified through simulating the following impact situations: fire, explosion, earthquake and even an aircraft crash.

*"This is the second major contract that Energoatom has signed in Brussels since the opening of our Representative Office last November,"* said Andrii Tiurin, Brussels Permanent Representative of Energoatom, *"It shows that we are placing high priority on respecting our international ecological responsibilities."*

The construction and subsequent operation of the storage facility will facilitate the ecological rehabilitation of the Exclusion Zone and renewal of economic activities on some land within this

**PRESS RELEASE: Contract Amendment Signed Between Energoatom & Holtec International for Construct**

Written by EUUBC Secretariat  
Monday, 26 January 2015 14:44

---

area.

++++  
+

This press release has been issued on behalf of Energoatom by the EU Ukraine Business Council. For further information or enquiries please contact [media@euubc.com](mailto:media@euubc.com) or [energoatom.brussels@gmail.com](mailto:energoatom.brussels@gmail.com)