

## Low Level Radioactive Waste Volume Reduction Project

### SLBM Launcher/SSBN Elimination

#### Strategic Offensive Arms Elimination In Russia

The Cooperative Threat Reduction (CTR) Program is designed to assist the countries of the former Soviet Union to destroy nuclear, chemical, and other weapons of mass destruction (WMD). The program also helps to transport, store and safeguard weapons in connection with their destruction, and establish verifiable safeguards against the proliferation of those weapons. Originally sponsored by Senators Sam Nunn (D-GA) and Richard Lugar (R-IN) as an amendment to the Conventional Armed Forces in Europe Treaty Implementation Act, the CTR Program also came to be known as the Nunn-Lugar Program. Congress initially established the CTR Program in December 1991 as the "Soviet Nuclear Threat Reduction Act."

#### SLBM Launcher/SSBN Elimination

One aspect of the program includes providing equipment and services to help eliminate 136 submarine ballistic missile launchers on Russian ballistic missile submarines (SSBN). Dismantlement of SSBNs produces low level radioactive solid and liquid waste (LLRW). To reduce the volume of this waste, LLRW Volume Reduction Facilities process, decontaminate and clean solids and liquids this waste. Lockheed Martin Advanced Environmental Systems, Inc. (now EnergoTech LLC), was awarded the contract to construct two facilities in the Russian Federation on Aug. 3, 1998. The first facility was constructed at Zvezdochka, near Arkangelsk, Russia, and turned over to the federation government on Oct. 18, 2000. The second facility, constructed at the Zvezda Far East Shipyard near Vladivostok, was commissioned and turned over to the Russian Federation on Aug. 2, 2001.

#### Zvezdochka Engineering Enterprise

The CTR Program funded the construction of a LLRW volume reduction facility at the Zvezdochka Engineering Enterprise Shipyard at Severodvinsk. The work at Zvezdochka provided a solid waste treatment facility, including decontamination equipment and a low force compactor, a liquid waste treatment system utilizing sorbant technology, and a laundry water treatment system. The facility design and construction costs were approximately \$16 million.

#### Zvezda Far East Shipyard

The CTR Program funded the construction of LLRW volume reduction facilities at the Zvezda Far Eastern Shipyard at Bolshoi Kamen. This work at Zvezda provided a solid waste treatment facility, laundry water treatment system, and a solid waste storage facility. Low level liquid waste at Zvezda Shipyard is processed on a barge provided by the Japanese Government. Design and construction costs at Zvezda were approximately \$23 million.

DTRA deters the use of weapons of mass destruction, reduces the present threat to the United States and its friends, and prepares for future threats. This Department of Defense combat support agency is located in the Washington, D.C., area and operates field offices worldwide.

*As of January 2002*

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