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PRESS RELEASE

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Oak Ridge Firm Partners To Protect U.S-Bound Shipments

MS Technology provides key element for groundbreaking cargo security

Oak Ridge, TN, 15 October 2010: Explosive cargo recently bound for Chicago synagogues is putting a brighter spotlight on U.S. import and transportation security. And as the global community increases its nuclear capabilities, the issue's focus is moving from dangerous printer cartridges to the prospect of something much more serious.



A small percentage of the approx. 15 million cargo containers that enter the U.S. every year are screened for nuclear materials. The Department of Homeland Security's Domestic Nuclear Detection Office has been charged with raising that percentage exponentially by 2012. The challenge of this initiative, however, does not lie in the number of cargo checks but in the deficiencies of existing technology. Current x-ray detectors may miss nuclear materials protected by lead, steel, and produce legally protected from x-ray examination.

Decision Sciences Corporation (DSC) in California has developed a new cargo inspector that is capable of identifying shielded and unshielded nuclear threats with near-zero false alarms. The detector tracks the deflection of muons - subatomic particles constantly raining down on earth - as they reflect off heavy metals such as uranium and plutonium. The new technology can scan a semi-truck in less than a minute. According to information released by company, lab testing is complete and full-scale detectors are now being built to deploy at many U.S. ports within the next year. DSC is working to meet this growing demand with the help of Oak Ridge, TN, engineering firm MS Technology, Inc. (MSTI).

MSTI is supporting DSC during product development using the company's industrial microwave metal melting and casting technology to produce uranium-based sources in specific geometric shapes. Using MSTI's production microwave melter/caster to melt and cast the uranium allows DSC to obtain depleted uranium specimens that most accurately resemble the exact weight, geometry, and atomic structure of potential contraband material. The uranium-based casts are used to simulate the threat of contraband nuclear materials entering and exiting our borders via commercial cargo shipments.

The industrial microwave metal-melting technology being implemented by MSTI was developed at the Y-12 National Security Complex. Today, MSTI is advancing the state of the art in order to provide commercial metal manufacturers with a safer, cleaner, more energy efficient process for manufacturing high-strength and exotic alloys. The technology is also applicable to many other industrial heating applications currently undergoing research and development activities through MSTI and its industry partners.

For more information contact Michael Tribble using the information provided above.