



**FOR IMMEDIATE RELEASE**

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**AMERICAN BUSINESS CONTINUITY GROUP, LLC SUCCESSFULLY COMPLETES  
THE FIRST INTERNATIONAL BUILDING CODE (IBC) COMPLIANT  
ELECTROMAGNETIC PULSE (EMP) SHIELDED SHOTCRETE/CONCRETE  
BUILDING.**

**Miami, FL -- (December 1, 2016)** -- American Business Continuity Group, LLC (ABC Group), in conjunction with the University of Nebraska-Lincoln (UNL), has developed breakthrough construction methodologies and proprietary conductive shotcrete shielding that protect buildings from High Altitude Electromagnetic Pulse (HEMP), Intentional Electromagnetic Interference (IEMI), Emanations Eavesdropping (TEMPEST), terrorist ballistic / blast attacks and natural disasters.

ABC Group's EMP (electromagnetic pulse) shielding compliant prototype building, based in Lakeland, Florida, is the result of three years of an ambitious and ongoing joint sponsored research program with UNL. Technology developed during the joint sponsored research agreement has been exclusively licensed by ABC Group from NUtech Ventures, the commercialization affiliate of the University of Nebraska-Lincoln.

Decades of research by UNL's world-class experts in conductive concrete and EMP shielding, engineering professors Christopher Tuan and Lim Nguyen, preceded ABC Group's commercial construction applications. ABC Group's proprietary and innovative construction methods utilize the patent protected EMSS-Electromagnetic Shielding Shotcrete, enabling high strength, rigorously tested structures that exceed the electromagnetic shielding requirements of Mil Std 188-125 as well as the higher frequencies of IEMI (Intentional Electromagnetic Interference) weapons and Tempest.

"EMP is very lethal to electronic equipment," said Tuan, professor of civil engineering.

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“We found a key ingredient that dissipates wave energy. This technology offers a lot of advantages so the construction industry is very interested,” Tuan continued.

“The concrete can provide what we call a multi-threat structure,” said Nguyen, professor of electrical and computer engineering, who traveled to Florida to evaluate the prototype building. “The structure has to be able to withstand an attack either by an explosive or an electromagnetic attack or other scheme.”

ABC Group’s Omni-Threat Structures™ include scalable, cost-effective hardened buildings configurable to customer-defined levels of protection for critical infrastructure, power generation and distribution facilities, the military, financial institutions, and other critical infrastructure facilities.

In comparison to higher cost, traditional methods requiring a separate metal structure within a building, ABC Group constructs a single structure that combines the physical security of concrete with electromagnetic shielding. This breakthrough method results in a shorter, more economical construction cycle, and lower building life cycle costs. Elimination of the building within the building negates the need for separate architecture, engineering and specialized construction.

Specific to the power grid, ABC Group’s buildings offer secure storage of replacement electronic devices including test equipment and diagnostic sensors for a grid black start. Facilities that are particularly vulnerable include regional command centers, substations, disaster recovery facilities, operations control buildings and SCADA Rooms (Supervisory Control and Data Acquisition).

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ABC Group's Omni-Threat Structures™ are ideally suited to secure critical aspects of the nation's telecommunications infrastructure.

Military applications for the structures include physically secure / hardened facilities such as TEMPEST data-communications centers, command and control operation centers and facilities to protect high-value assets such as aircraft.

American Business Continuity Group has three decades of success as a high integrity industrial general contractor, a decade of success with specialized design-build hardened structures and experience in the nuclear power industry, building Fukushima Flex/Beyond Design Basis structures that meet NRC Regulatory Guide 1.76 standards. Building on a history of success, the company now constructs EMP - IEMI shielded structures that also incorporates protection from ballistic /blast, natural threats, including Cat 5 hurricanes, EF-5 tornados, and seismic events. The group is currently constructing the Vertical Electro-Magnetic Pulse Simulator (VEMPS) at Patuxent River Naval Air Station, Patuxent River, Maryland.

In addition to the ongoing work with University of Nebraska-Lincoln and NUtech Ventures, ABC Group has assembled a team of experts in the EMP / IEMI field, with a broad base of experience to support delivery of products and services to the power industry, the U.S. Military and all Homeland Security Critical Infrastructure Sectors.

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*For further information regarding technology developed at University of Nebraska-Lincoln, please contact Mauricio Suarez, Licensing Director, NUtech Ventures at [msuarez@nutechventures.org](mailto:msuarez@nutechventures.org)*

About NUtech Ventures: As the University of Nebraska-Lincoln's intellectual property and commercialization affiliate, NUtech Ventures facilitates the commercialization and practical use of innovations generated through the research at Nebraska. NUtech, protects, markets and licenses the university's intellectual property, and connects innovators with the resources needed to start companies, develop products and create job.

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