

IED HELPS SECURE THE BUILDING THAT HELPS SECURE THE NATION

Rising from the bank of the Potomac River in Arlington, Virginia is one of the world's largest office buildings: The Pentagon, headquarters of the United States Department of Defense. It serves as the bustling center of command that keeps America's armed forces functioning and a visible symbol of its military might. Unfortunately, its importance as a symbol and a functioning office building with thousands of employees is what made it a target during the terrorist attacks of September 11, 2001.

However, the damaged areas of the Pentagon are restored. There are also plans for a memorial park paying tribute to those who died in the attack. And the building now contains a new emergency evacuation announcement and paging system, complete with redundant backup power amp switching.

If the nation depends on the employees at the Pentagon to support the armed forces that secure our nation, the employees depend on the new system from Innovative Electronic Designs, Inc., the one company with years of experience in providing audio control solutions for large buildings.

THE FACILITY

Built within 16 months at the start of World War II, The Pentagon is often called "a city within a city." It sits on a total land area of 583 acres and provides workspace for about 23,000 employees, both civilian and military, within more than 17 miles of corridors and five floors. It contains a small shopping mall, two cafeterias, several snack bars, 131 stairways, 284 restrooms, and 7,774 windows.

In 1992, the building was designated a National Historical Landmark and was included on the National Register of Historic Places. Over the past several years, the Pentagon has been undergoing a complete renovation, which included updates to its plumbing, electrical, HVAC, and fire protective systems, as well as creating an information infrastructure to handle the huge amounts of data that circulates throughout the building everyday.



THE SYSTEM

The employees in the Pentagon now depend on an emergency evacuation and announcement system that consists of IED's 500ACS Announcement Control System (ACS), the 596 Monitor/Test System, the 8000 Totally Integrated Processing System (TIPS), and its 6000 Series Power Amplifiers.



Already in use in several major metropolitan airports and transit facilities, IED's ACS is the premiere system for routing pages and announcements. There are three ACS systems at work in three different buildings at the Pentagon campus, including the Pentagon itself and the Navy Annex Building. The system covers all corridors and external areas. Supporting the ACS in its work is IED's 8000 TIPS, used primarily for EQ and also as an emergency bypass system in case of ACS failure.

But one key to preventing any kind of system failure is IED's 596 Monitor/Test System, a software package that allows you to thoroughly test the integrity of an entire audio system, from microphone stations to, and including, the speakers. It also allows you to listen to all tested parts of the system. For the Pentagon, Monitor/Test checks the integrity of all components and adds a further level of operational insurance for the entire system.

Part of the Pentagon's renovation

Since the audio signals need to be heard clearly in such a large facility, there needs to be power behind them. IED's 6000 Series Power Amplifiers provide that power. Known for its compact design, efficiency (through its Class D design), and reliability, the 6000 Series also has redundant backup switching. That way, if a power amp fails, a backup amplifier activates to take its place.

The team responsible for making this possible was URS Corp. of Denver, Colorado (system designer) and Washington Professional Systems of Wheaton, Maryland (contractor/integrator).

So no matter what the emergency, IED's system at the Pentagon will always be available for the people who manage and support the people who make our nation secure.



**Rebuilding of the façade
damaged in the 9-11 attacks.**

IED'S SYSTEM AT THE PENTAGON:

- Efficient distribution of announcements, messages, and pages through IED's ACS
- Sound powered by IED's 6000 Series Power Amplifiers
- IED's 8000 TIPS provides equalization and system backup
- Quality sound from the leader in audio systems management