

DEPARTMENT OF NATIONAL DEFENSE *Namao*

This building is an 870623.88 square foot Precase warehouse with a 28686.16 square foot basement, a 12266.40 square foot hazardous materials area and several two story office towers. It opened in 1954 and is the largest warehouse in North America under a single roof structure.

Included in this project was a 6725 square foot guard house located approx. 2000 feet away from the main structure. Within this warehouse is a variety of racking systems, floor to ceiling, loaded with densely packed items making audio coverage an interesting challenge.

The goal was to cover 100% of all areas with clear intelligible audio 10db over ambient noise. Also, a part of the requirement was to cover 100% of the building exterior 20db over ambient noise up to 800 feet from the building.

The system consists of approx. 300 speakers, most clusters suspended in grids, and 20 amplifiers in a central location. There was over 10,000 feet of conduit and 34,000 feet of speaker wire installed as well as approx. 3000 feet of overhead cable running on power poles out to the guardhouse. This job was completed in January 2000.



EQUIPMENT LIST

AUDIO

- TOAA912 Amplifier
- TOA P912 Amplifiers
- TOA Mic Modules
- TOA Bridging Modules
- TOA Line Modules
- TOA Aux Modules
- TOA Paging Microphone

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- TOA TC154 Speakers w/Transformers
- TOA TC304 Horns w/Transformers
- BOGEN Telephone Interface
- BOGEN Power Supply
- Armscott Volume Controls
- Armscott Backboxes & Baffles

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- Armscott Ceiling Speakers w/Transformers
- Middle Atlantic Racks
- Middle Atlantic Power Bars
- University Explosion Proof Drivers
- University Cobraflex II Lens
- Raylin Rack Panels

SCOPE OF WORK:

SHOP Preparation: AUDIO

- Install equipment, wire and test racks for site installation
- Prepare speakers with hanging hardware
- Prepare non rack mounted equipment with mounting brackets
- Test all equipment and components
- Write documentation and assemble literature
- Assemble CAD Drawings
- Assemble service manuals

On site: AUDIO

- Install, mount terminate, dress and test all speaker and electronic components
- Hang and focus speakers
- Install, terminate, dress and test all equipment in racks on site
- Terminate all electronic equipment to supplied A/C locations
- Install and test microphone locations

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- Install program sound and paging as per consultants specifications
- Consult and schedule with subtrades
- Labelling
- Deliver all equipment on site
- Complete system check, equalize and gain set
- Train staff in use of the system