



Glace Bay Miners Forum, Glace Bay, NS

Built by miners in 1939, the original Miners Forum was torn down more than 25 years ago. The building was replaced by the Bayplex, which was plagued with problems from day one and closed its doors in 2017. The newly-renovated facility features a regulation-size ice surface, a lounge area, and community room.

Products Used

- HX-5B Compact Line Array Speaker
- DA-500F-HL Multichannel Power Amplifier
- A-9240SHM2 Digital Matrix Mixer/Amplifier
- 5000 Series wireless mic
- M-864D Digital Stereo Mixer
- F-122CU2 Wide-Dispersion Ceiling Speaker
- PC-580RU Series Ceiling Mount



Purpose

The Arena which has stood for over 80 years and has gone through various iterations, needed a replace their old arena sound system. It required a new system that would cover all aspects of the arena, from ice surface, hallways and various rooms. Announcements has always been an issue and was a key feature that need to improve in clarity and intelligibility. They wanted to ensure all visitors and staff members would be able to hear messages no matter where they were located in the building. Communications through a microphone system would be a new added feature.

Challenges

Designing a full arena system doesn't come without challenges, especially in older style buildings. The arena has a curved ceiling which makes sound travel differently from a flat ceiling. There were various rooms, small and medium sized, that our team needed to ensure the sound reached. Integrating the various speakers and amplifiers/mixers in an older facility caused us to double check all the wiring and connectivity to assess how simple it would be to add all the equipment chosen for the sound system enhancement.

Solution

The TOA design team worked closely with Atlantic Alarm & Security on the project installation and provided the design plans for the sound system. For the ice surface, TOA's HX-5 compact line arrays were used as they provide powerful, and clear sound, with the ability to adjust the direction speakers and therefore the sound projection. These speakers were powered by our excellent DA-500 amplifiers and digitally processed with the very effective M-864D stereo mixer. For hallways and rooms the F-Series wide dispersion speakers delivered sound to all corners of the building. The system was lead by our flexible A-9240SHM2 Digital Matrix Mixer/Amplifier.

Feedback

With an increase in sound quality and arena coverage, management easily heard the improvement in audio clarity in the arena. They were also very happy that everyone, including staff, would be able to hear announcements especial emergency messages. Great job by all.



About TOA Canada Corporation

TOA Corporation was founded in Kobe, Japan over 80 years ago. TOA operates in over 100 countries worldwide, with manufacturing Facilities found in nearly every major market area. These facilities have a reputation for precision design and fabrication, resulting in a Proven track record of TOA product reliability.

TOA Canada Corporation was formed in 1990 as a complete sound solutions provider, specializing in commercial audio, including, Public address, voice communications, voice evacuation and emergency paging requirements. TOA Canada offers complete solutions for all corporate and commercial audio communications and intercom security requirements.