News Release

Pro Audio Group
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DYNACORD® PROANNOUNCE™ PAGING SYSTEM USED AT BRITISH COLUMBIA FERRY TERMINAL

Horseshoe Bay Ferry Terminal, BC, Canada

Horseshoe Bay, British Columbia, Canada (July 2004): The Dynacord ProAnnounce ("ProMatrix" in Europe and Canada) paging system continues to prove its versatility in applications around the world. Pro Sound and Stage Lighting Canada recently installed an extensive ProAnnounce system at the Horseshoe Bay British Columbia Ferries Corporation terminal in West Vancouver, British Columbia. Pro Sound was subcontracted by Radian Canada to design and install the system, with the challenge of keeping a tight reign on noise pollution in an area of noted natural beauty.

John Drake of Pro Sound described the project: "The expansion of the ferry terminal was obviously a politically sensitive area, especially for local residents, many of whom paid a lot of money to live in and around Horseshoe Bay. For our part, we wanted to ensure the paging system would be effective and user-friendly, but also that the outside distributed sound system would only be heard by people using the terminal - we wanted to avoid both adding to the ambient noise of traffic and unnecessary ferry departure announcements to the local residents."

Telex Communications, Inc.
12000 Portland Avenue, Burnsville, MN 55337 • Phone: 952.884.4051 • Fax: 952.346.4985

Drake continued: “The terminal is part of the Trans-Canada Highway – Highway One, connecting the mainland of British Columbia to Vancouver Island. Several gulf island ferries depart from the same three-berth terminal, which is busy with commuter, tourist and commercial traffic. The vehicle compound is up to 12 lanes wide and is 1.5 KM in length. We replaced their manual paging system with one that could handle this level of expansion. Our original specification was to install 21 zones, with the built-in ability to change those zones if need be. From this perspective we advised the consultants and the customer that a computer-based paging system was the way to go. Originally the primary system was going to be telephone-based with a microphone backup system. We recommended the easy-to-use ProAnnounce paging stations, demo’d them to the staff, and that quickly proved to be the most user-friendly solution. The paging stations allow zone selection to take place at the push of a button – it’s that easy. We are using the new DTI 2000 telephone interface where appropriate, so both types of interface are integrated into the same system. It was important to us that we communicated the options available: ProAnnounce has a proven track record around the world and can be installed and extended according to specific budget requirements. For example, the customer asked us to institute prerecorded messages on the system: the staff will announce which ferry is arriving or departing from which berth, followed by a prerecorded message

that fills in the remaining details. Once the customer realized the potential capabilities of the system, they were eager to start utilizing them."

A staff member uses the DTI2000 telephone interface while the DPC 4530 paging console stands by

Drake described other elements of the system: "We had this ProAnnounce system pre-made in Germany, pre-tested, and shipped to us on a skid. There was two-hour period during the day when there was no ferry activity, and that's when we did the cutover. It took us just twenty minutes, and there was zero down time, which made both the consultant and the customer very pleased. In terms of the other system components, we opted for an extensive distributed system comprised of 30 EV CDP848AT duplex horn compound diffraction projectors, all of which are mounted outside in the open air. The main paging system rack lives in a basement electrical room inside the terminal building, though they have some remote amplifiers out in the field – we're running line level over fiber optic cable to some of these remote amps. We also have ambient noise compensation units in three zones. They're there to compensate for the noise from trucks and general traffic when the terminal is busy, especially since the sound reflects from the rock face that forms the backdrop to the terminal. The car park is literally cut out of a sheer rock cliff. The horns are facing the parking lot, so they can't be too loud as they'll reflect back into the town. This was a large installation, but needed to

be precise in the same token, to stay within the SPL guidelines. So far we've had no complaints from local residents, and the staff at the terminal are very happy."

The heart of Horseshoe Bay's paging system

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Dynacord ProAnnounce equipment specified for Horseshoe Bay ferry terminal:

(1) DCS 420 Monitoring Unit
(1) DPM 4000 Central Processor
(1) NRS 90234 Input Mic/Line + DPC
(2) NRS 90226 Screw Terminal Distribution RJ-45
(1) NRS 90216 Input Mic/Line + 2 Aux
(3) DPC 4530 30-Key Paging Console with Display
(1) DMM 4650 Digital Message Manager
(1) DPP 4004 PA 19” Power Supply, 4 Amp
(1) DPA 4260 PA Power Amplifier 2X 600W, 100V, 70V, 25V
(1) DPA 4410 PA Power Amplifier 4X100W@100V, 70V, 25V
(1) DCS 401 Controller Board
(4) DCS 408 Lines – Relay Module
(4) DCS 409 NF Relay Board
(2) DCS 412 Logic Input Board
(3) NRS 90205 Extension Module, Message Memory
(1) SW Message – Speech Rec. & Play, Message Stacking
(1) SW Clock – Masterclock for Slaveclock with Calendar
(1) SW Signal – Chime and Alarm Signals
(1) PA Software – System Designer Software
(1) NRS 90218 – Line Output – 2 Channels
(4) NRS 90227 Output Transformer, Line Balanced
(8) NRS 90208 Line Balanced Input Transformer
(1) DTI 2000 Telephone Interface
(2) DPA 4260 PA Power Amplifier 2X600W, 100V, 70V, 25V

Paging Projectors:
(30) Electro-Voice CDP848AT Duplex Horn, Compound Diffraction Projectors

Communications Consultant: Flagel Lewandowski
Consultant: Phi Ho (VP, Technology Integration)
Technicians: Ken Oldhaver (Senior Technician, Pro Sound), Shawn Gabel (Installer, Pro Sound)
Project Coordinator: John Drake

(more)

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Dynacord ProAnnounce matrix management systems form the heart of countless modern business, corporate and industrial paging and background music systems around the world, ranging from small restaurants to large department stores. No other matrix system offers so much power, flexibility and value, with such a wide range of products designed to precisely meet the demands of so many applications. Telex Communications offers a complete range of products for integration with ProAnnounce systems in business environments:

Microphones: Telex and EV paging mics - over 50 years of proven performance.

System integration: Dynacord ProAnnounce designer software - the most flexible and sophisticated solution available.

Loudspeakers: EVID premium surface-mountable and ceiling speakers – a wide range of solutions with leading-edge designs.

Amplification: MA series mixer/amplifiers, ProAnnounce and EV power amplifiers – comprehensive and reliable products at a wide range of price points.

For full details on all Dynacord products, please visit www.dynacord.com

Dynacord® is a professional audio brand of Telex Communications, Inc., a leader in the design, manufacture and marketing of sophisticated audio, wireless, multimedia, aircraft, broadcast and communications equipment for commercial, professional and industrial customers. Telex Communications markets its products in more than 80 countries under the brands EV®, Telex®, RTS™, Dynacord®, Midas®, Klark Teknik®, University® and others.

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