



CANAC INTERNATIONAL INC. RAILROAD TECHNOLOGIES DIVISION

Our track record? We know railroads.

They say it takes railway people to really know and understand railroads. For they are a special breed, a team of professionals unlike any other.

Professionals who take pride in their industry. Who understand its unique challenges and the very specific needs of those who operate and run the trains, rolling stock, hump and flat yards, and ribbons of steel that criss-cross countries around the world. Contributing immeasurably to their transportation vitality and economic prosperity.



Train movements are controlled safely and precisely using Beltpack® system.
Les mouvements du train sont contrôlés avec précision et en sécurité par le système LOCO COMMANDE®.

Nowhere is this more evident than at CANAC International's newest Division, Railroad Technologies of Saint Laurent, Québec, Canada, the former technical research centre of CN North America whose accomplishments have achieved worldwide recognition.

Here, for over 35 years, the railway team, with extensive and multi-faceted hands-on experience in the industry, has been playing a major role in keeping railroads on track in terms of reliability, improved performance, productivity and, the bottom line, profitability.

We have done so through the design, production and marketing of a long series of "firsts" in the industry which have saved railways millions of dollars. Railway firsts based on innovative technology, specifically designed to meet the ever-changing engineering and economic demands of our clients.

We have done so by providing the ultimate in technical services, including real time computer systems, electronic applications and systems, mechanical engineering, computer studies and evalua-

tion, civil engineering, chemical and metallurgical services. Consulting and field services have won international respect for their efficiency and the know-how that has gone into their leading-edge technology.

Railroad Technologies is a world-class facility and its resources include a 42,000 q. ft. main research building and a 5,500 sq. ft. locomotive and car test centre, adjacent to an inclined impact track.

Staffed by some 50 scientists and specialists in virtually every engineering discipline, it is renowned for its long history of success in transportation-related research and development. Innovative R&D that has resulted recently in two new major technological advances, both of which enjoy proven service in North America.

Hump Process Control System (HPCS) installed at Symington Yard control tower.

Le système HPCS ordinateur et ensemble informatique équipant le poste de commande C du triage Symington.



PROCESS CONTROL SYSTEM (PCS)

This real time Process Control System for hump yards is designed for significant improvements in car control through advanced measurement methods, digital processing and performance feedback.

Productivity improvements are achieved with a unique "hands-off" operation with there being no requirement for car retarder operators or hump foremen. The process is based on a one person operation for dual or single hump yards.

All indoor equipment related to the system can be replaced with new and modern electronics including the computers and peripherals, switch machine drivers, retarder motor drivers, track circuit relays and site specific interfaces. Interface and control modules are available to control electric, pneumatic or hydraulic field equipment.