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History: The Urban Transportation Development Corp Ltd (UTDC) was established in 1973 to design, develop and market new transit equipment and systems. Other locations include offices in Vancouver, British Columbia; Kingston, Ontario; Thunder Bay, Ontario; Detroit, MI; San Francisco, CA; and London, England.

Capability: As mentioned above UTDC's main objective is to develop new, rail-based transit systems. Some of their vehicles/systems are described below:

Intermediate Capacity Transit System – an automated system that has the capability of transporting in excess of 25,000 people per hour.

Canadian Light Rail Vehicle – a single ended, 4 axle rigid vehicle capable of operating singly or in trains of up to six units. Propulsion by two, 220-HP motors, each driving two axles (440 HP per car). Solid state chopper control with blended, regenerative braking.

Articulated Light Rail Vehicle – a 6-axle version of the CLRV (above).

All UTDC research and development in the ground transportation area is carried out at their Kingston facility by UTDC Research and Development Ltd. All projects are product delivery programs, and all exploitation of technology advances and designs already acquired, are carried out by Metro Canada Ltd. This division delivers all transit systems and related hardware products.

Average Work Force: 700 employees (All locations)

Gross Sales: No Data

Plant Size: 40,000 sq ft (Kingston, Ontario location)

Equipment: Training facilities, propulsion development laboratories, transit test track, SELTRAC-Vehicle command control and communication system, and energy test lab.

Experience: Major customers include – Toronto Transit Commission; BC Transit; Southeastern Michigan Transportation Authority; Santa Clara County Transit District; San Francisco Municipal Railway; Transport Canada; Royal Commission on Electric Power Planning; Ontario Northland Railroad; California Department of Transportation; Department of Transportation (US); and MBTA-Massachusetts Bay Transportation Authority.

Some major projects include:

SCCTD ALRV – 30 Articulated LRVs for San Jose, CA.

Vancouver ALRT – a turnkey rapid transit system from the Sea Bus Terminal to New Westminster – to open in 1986.

Detroit CATS – a turnkey rapid transit system running as a downtown loop – to open in 1985.

Scarborough RT – 24 vehicles for an extension to the existing rapid transit system running in Metro-Toronto.

Steerable Truck Retrofit Design – a preliminary design to modify an existing heavy rail transit truck to make it steerable for the US DOT.

Transit Management Advisory Services – a study (including recommendations) of San Francisco Municipal Railway Maintenance Procedures, and the implementation of improvements for the city of San Francisco.

LRT Training Program – an Operations Training Program for San Francisco's new underground light rail transit service for the city of San Francisco.

Transportation Advisory Services – evaluate and recommend ways and means to upgrade rail commuter services between San Francisco and San Jose for the California DOT.

Santa Clara County Life Cycle Costing Demonstration Project – a demonstration and validation of life cycle cost procurement methodology for the purchase of transit coaches for Santa Clara County, California.

Canadian Light Rail Vehicles – design, develop and delivery of 191 Light Rail Vehicles for the Toronto Transit Commission.

Hydrogen Powered Buses – develop hydrogen storage and fuel systems, and equip two demonstration transit buses to use hydrogen for the Ministry of Energy, Province of Ontario.

Composite Flywheel Materials – a development program for the design and testing of composite materials for flywheels for the National Research Council of Canada.

Rotary Powered Steerable Rail Truck – preliminary design of a steerable rail truck with AC rotary propulsion for Transport Canada.

Keywords: 20 = Miscellaneous; Ground Transportation = 20; Transit Systems = 20; Trucks = 20.

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VAC-AERO INTERNATIONAL Inc

Code: VAI

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History: VAC-AERO is a Canadian owned, high technology company offering heat treating, brazing, electron beam welding, and repair and coating services to the aerospace, airline, avionics, electronics and other key industries throughout the US and Canada. In addition, VAC-AERO designs, manufactures and sells specialized heat treating and vacuum furnaces to these industries.

VAC-AERO was originally founded in 1959 in Oakville, Ontario, and a Montreal Division was established in 1967 to meet the growing demand for its services from Quebec area customers.

Capabilities: VAC-AERO holds processing approvals from all major aerospace manufacturers for the following services:

Thermal processing of OEM components:

Vacuum heat treatment of high strength steels – Landing gear components, structural airframe parts.

Vacuum heat treatment – Turbine parts, shafts, turbine blades, casings, nuclear components.

Vacuum Brazing – Turbine nozzles, compressor stators, afterburner casings, combustion cowls, wave guides, aluminum cold wall assemblies and heat exchangers, nuclear parts.

Electron beam welding – Turbine assemblies, electronic components.