THE INDUSTRY

Daystrom in Canada

Daystrom Limited, 840 Caledonia Road, Toronto 10, Ont., has been established to handle sales, service assembly and manufacture of Daystrom electronic products in Canada. The new company has planned a program of expansion that will lead to the establishment of a manufacturing facility in the Toronto area employing several hundred people and capable of turning out a large volume of electrical and electronic instruments for use by the Canadian industry. General manager of the new Toronto firm is H. W. Cowan.

A. V. Roe Adds

Formation of the ninth company in the rapidly expanding A. V. Roe Canada Ltd. Group, was announced recently by Crawford Gordon, Jr., president & general manager. The new company, Canadian Thermo Control Co. Ltd., has been established to sell and service refrigeration equipment for trucks and trailers, railway freight cars and tanks, buses and ships under license agreement with the Thermo King Corp., and Thermo King Railway Corp., of Minneapolis, Minn.

Forward Scatter

The Canadian Westinghouse Co., Hamilton, has disclosed the development of a versatile new system of long-distance, multi-channel communication that sends signals far beyond the horizon by beaming them off the lower atmosphere. Described as the first Canadian venture into the "scatter propagation" field of communication, the new system can be used for long-hop television, voice, teletype, facsimile or data transmission.

The result of a year-long concentrated engineering program, the system is the first to be completely developed, designed and built in Canada. Due to its long range and transportability, the new system is ideal for use in rugged and normally inaccessible regions. Microwave radio now employed is limited to line-of-sight transmission and costly relay stations must be used to cover appreciable distances.

The forward scatter technique has seen limited use but high costs and cumbersome equipment sharply restricts its practical application in isolated northern regions. Typical antennas for the new Westinghouse system are 18 feet in diameter and may be as small as 12 feet. A complete transmitter-receiver unit is small and light enough to be helicopter lifted.

ASL Bought Out

Aeromagnetic Surveys Limited, of Toronto, has become a wholly-owned subsidiary of Hunting Associates, holding company of the Hunting companies in Canada. J. R. Hughes, former president of the company, has become chairman of the board; and Douglas N. Kendall, former vice president, has become president. Douglas MacKay, general manager of the company, has also joined the board. Other directors are: P. F. Osler, of Montreal; H. S. MacKenzie, Q.C., of Toronto.

Automatic Attack

The Avro CF-100 jet all-weather interceptor is being modified for automatic attacking of targets. Multi-million dollar contracts for the necessary automatic controls have been awarded to Honeywell Controls Limited, Toronto, and Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.

"With the addition of Honeywell's fire control coupler system" said a company spokesman, "The CF-100's will be able to guide themselves by radar contact on an intercepting path toward a target, and then start firing at the target, all automatically. The system takes a lot of the guess-work out of intercepting enemy airplanes by deciding best how to attack them."

Included in the CF-100 modification program is a contract from the RCAF for a "command signal limiting" system, and a contract being handled through the USAF for components of the automatic fire control coupler system. The CSL system monitors signals from the fire control system to protect

A NEW INSTRUMENT LAB

Northwest Industries Ltd., of Edmonton, last April opened a new $275,000 building to house its Instruments & Electronic laboratory. This modern facility has been specifically designed to cater to the increasing demands made on the company for the repair, overhaul, testing and modification of aircraft instruments, airborne and ground telecommunications and radar equipment.

Constructed of brick and steel, the single-storey structure, with a floor area of 19,500 sq. ft., is temperature and humidity controlled. It has a completely equipped dial studio for the preparation and luminizing of instrument and related components.

A total of over 100 technicians are currently engaged in the new laboratory. This group has been drawn from many parts of Europe and the North American continent and brings together technicians, technologists and engineers from fifteen different countries.

With the emphasis on quality, no attempt is made here to introduce mass-production methods. Each piece of equipment, in many cases vital to airborne passenger safety, receives individual attention from qualified craftsmen. The instrument repair facilities have been approved since 1952 by the DoT, and surveillance over the military program is exercised by RCAF Quality Control Inspectors.

Backed by the resources of the Engineering Department, extensive research and development in the radar field is being currently undertaken. The present program includes development and installation of weather and search electronic equipment on C-119 series aircraft.

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