



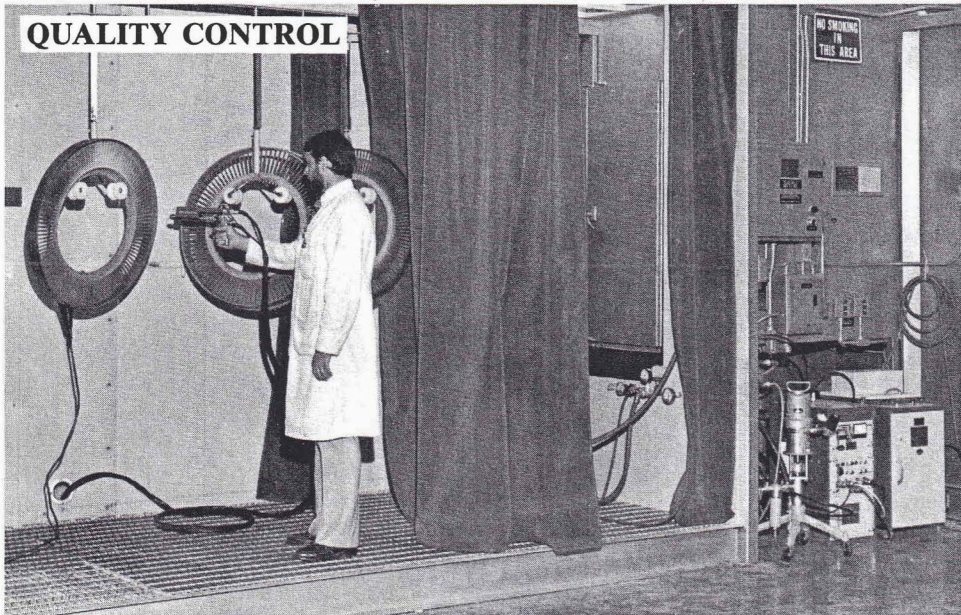
# ORENDA

# NEWS

Hawker Siddeley Canada Inc. ORENDA DIVISION, BOX 6001, TORONTO A.M.F., ONTARIO L5P 1B3

VOL.14 NO.3 JULY-AUG-SEPT 1981

## QUALITY CONTROL

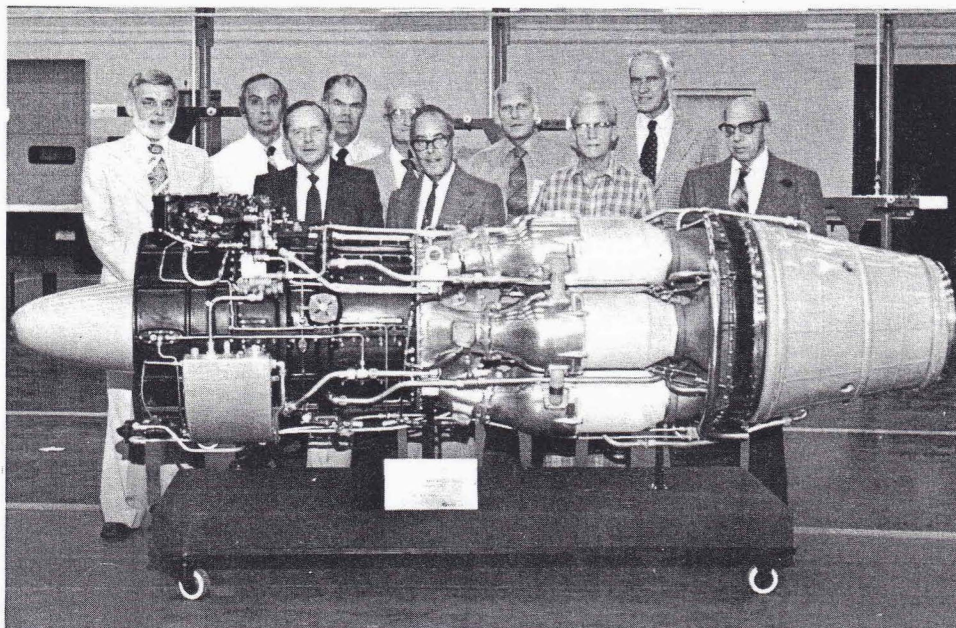


Among the new equipment recently installed in the plant is this Electrostatic Penetrant Unit for use by the Quality Control Department. Made by Ardrex Limited to our specifications, the unit is primarily intended for crack detection of parts for the Pratt and Whitney stator programme. Welding, brazing, and forming operations can cause a part to crack. Locating fine cracks on a complex assembly would be very time-consuming without the use of fluorescent penetrant fluid to reveal such faults.

The fluid penetrates all cracks and crevices and glows brightly when the part is examined under ultra-violet light. In the photo, stators are seen suspended from the overhead monorail. Doug Taylor, NDT Technician, is holding the electrostatic spray gun. By applying opposite charges to the gun and the stator, sprayed particles of penetrant will adhere only where required, with the minimum of overspray and waste. Adjacent booths house the washing, drying, powder application and inspection operations.

**CHINOOK VETERANS** — With the Chinook engine prepared for display on 'Open House' day, it seemed appropriate to gather together the few remaining 'veteran' employees associated with it. These men were all involved with some aspect of design, manufacturing or testing the engine away back in 1946, '47 and '48.

In the photo, (left to right, front row): John Brisley, J-P. Laviolette, Mitch Silverthorn, Alec Wardlaw, Ray Joyce. (Rear Row): Jim DeSylva, Reg Simpson, Mike McCullough, Gil Hunt and Joe Purvis. Not included in photograph: Gene Carlton.



## 35 YEARS AGO

Thirty-five years have passed since the 'birth' of this organization. We can trace our beginnings to May 1946 and the creation of the Gas Turbine Division of A.V. Roe Canada Ltd. The division was formed by the purchase of a Crown company, Turbo Research Limited, which had commenced the design of an axial jet engine to be called the Chinook.

By the summer of 1946, the design team had been given the task of developing a larger engine intended for a new all-weather fighter for the RCAF. Project work was started in the autumn of '46, and detail design was under way by the end of the year. Just over two years after detailing began, the prototype engine, now named 'Orenda', made its first test run on February 10, 1949. In July of 1950, a pair of the new power plants made their first flight in a converted Lancaster aircraft.

Increasing activity in gas turbine work made it necessary to expand to a new facility. Construction of the engine production plant (Plant 2) began in May 1951. By the following October the Tool Room had moved in. Manufacturing, assembly and test personnel were all in place within the next 12 months.

On September 29, 1952 the new facility was officially opened with appropriate ceremony by Mr. C.D. Howe, Minister of Defence Production. The day is still remembered for the spectacular fly-past by A.V. Roe test pilots, flying their brand new CF-100 aircraft.

## APPOINTMENT

At the annual general meeting of the Air Industries Association of Canada, held in Quebec City on September 30, Mr. D.J. Caple, Vice-President and General Manager of Orenda Division, was elected a director of the association for a three-year term.

The Association represents all aspects of the aircraft industry in Canada, and ensures that the interests of the members are formally presented to the Canadian government and the Canadian public.





## BURT AVERY

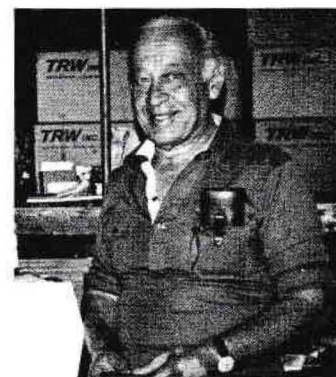
Mr. B.A. Avery, our Director of Engineering, has left Orenda Division to take a new assignment as Deputy General Manager of B and K Machinery Division. Burt joined A.V. Roe Gas Turbine Division in 1946 and would shortly have completed 35 years of service.

As a tribute to his many contributions to the design and development of engines over the years, a farewell dinner was given at the Constellation Hotel on October 8th. Just under one hundred people attended. Several speakers referred to his early work in the design of 'hot end' parts for the Orenda engine, and his continued association with them. This was emphasized in one of the gifts which he received. In the photo, Burt is examining one of a pair of book-ends which embodied sections of an Orenda 11 turbine wheel, complete with blades, baffles and locking strips. On all of these parts Burt has an intimate knowledge, and we hope that the memento will always evoke happy memories.

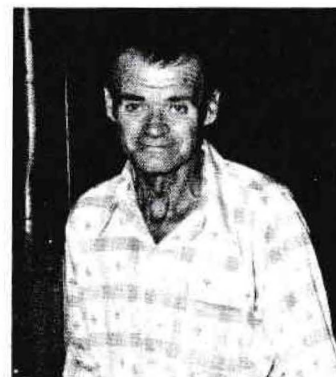


A total of 85 people from Orenda and Forestry divisions turned out for the Blood Donor Clinic on September 29th. In the above photo, a nervous Chriss Knudsen is making her first donation, while veteran donor Eileen Nagels is calmly making her 30th. At right, John O'Neil heads the line waiting for blood typing.

## BLOOD DONORS



**TOM BARON**, Storekeeper A, retired on 1 September 1981 after 28 years of service.



**KEN HEFFERNAN**, Labourer General, retired on 1 October 1981 after 27 years of service.

★

**GORD PENDER**, Process Planner, retired on 1 September 1981 after 28 years of service. (Photo not available).

★

**ALBERT MASHINTER**, Sheet Metal Worker, took early retirement in September on grounds of medical disability, after 31 years service. (Photo not available).

## ORENDA EMPLOYEES' WELFARE SERVICE FUND CHARITIES DISTRIBUTION FOR 1980

	Percentage	Amount
Salvation Army	11.00	\$ 766.09
Canadian Paraplegic Association	2.00	139.30
Ontario Society for Crippled Children	3.10	215.90
Canadian Hearing Society	3.20	222.86
Canadian Cancer Society	3.80	264.65
Canadian Association for Retarded Children	3.30	229.83
Canadian Diabetic Association	1.00	69.64
Canadian Cystic Fibrosis Foundation	2.00	139.29
Runnymede Hospital Comfort Club	1.50	104.47
Scott Mission Inc.	2.20	153.22
Star Fresh Air Fund	2.20	153.22
Canadian Heart Foundation	3.80	264.65
United Way - Metro	28.00	1950.05
C.A.S. York County	2.30	160.18
Hospital for Sick Children	5.20	362.15
C.A.S. Peel County	2.30	160.18
Etiobioke General Hospital	2.60	181.08
United Way - Peel County	15.00	1044.67
Share Life - Metro	4.50	313.40
St. Johns Ambulance (Orangeville)	1.00	69.64
	100.00	\$6964.47

## SMALL ADS

**FOR SALE** — 1978 Plymouth Sport, 56000 K, excellent condition, P/S and P/B, Michelin tires, \$4200 or best offer. Call 742-2328 after 5 p.m.

**FOR SALE** — Storm windows, aluminium, white baked enamel finish, in various sizes. Phone 826-7196.

## SCHOLARSHIPS

Hawker Siddeley Canada has awarded scholarships for the academic year of 1981/1982 to the sons of two employees in Orenda Division. Mr. Bruce Sunley, who is entering his third year in Mechanical Engineering at the University of Toronto, will receive \$1,500. He is the son of Murray Sunley of Plant Engineering Department. Mr. Michael Unwin, now in his third year of Civil Engineering at Ryerson Polytechnical Institute, will receive \$1,000. He is the son of Bill Unwin of the Tool Room.

## OPEN HOUSE

Our Open House on September 19th was a great success and we received many favourable comments. Although no accurate count was made, it is known that over one thousand employees, family members, retirees and invited guests came through the front lobby. Flowers were presented to the ladies, and souvenir penknives to the men. In the plant, a display of our engines, past and present, probably drew the most attention. In the cafeteria there was free coffee, ice-cream, doughnuts and soft drinks for all. (The children could not believe their eyes).

A special insert in this issue shows some of the people involved in the days activities.

## ORENDA NEWS COMMITTEE

CHAIRMAN	COLIN JOHNSON
EDITOR	DAVE ROBERTS
MEMBERS	HANK ARTT
	PETER GILDER
	EILEEN NAGELS
	ARCHIE NIMMO

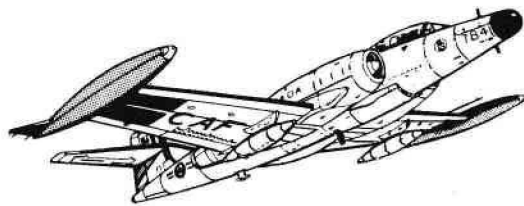
## DOROTHY BOTTOMLEY 1920 — 1981

Mrs. Dorothy Bottomley, for many years Secretary to the Director of Engineering, died in Georgetown Hospital on 19 August 1981 after a long illness. Dorothy had 25 years service with the company.

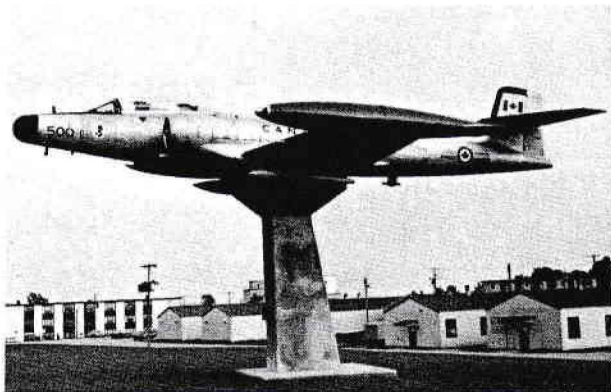




## CF-100 RETIREMENT AT NORTH BAY



After 30 years of service life, the Canadian Forces have retired the venerable CF-100 aircraft, which in recent years has been operated by 414 Electronic Warfare Squadron. To mark the occasion, a retirement party was held at CFB North Bay on the weekend of Sept. 11-12-13. As part of Armed Forces Day and Open House at the base, a formation of four CF-100's made their last public flypast. On the tarmac, a fifth aircraft was on display. Many hundreds of past and present aircrews and ground crews of the RCAF and CAF attended from all parts of the country, as did a contingent of ex-Avro employees, Orenda employees and retirees. All held fond memories of their association with this renowned aircraft.



*A pedestal-mounted CF-100 was officially unveiled in front of Base Headquarters building.*



*The last public flypast.*



*No. 18790 was parked on the tarmac and available for inspection by the public.*



*The pedestal bore this commemorative granite plaque.*



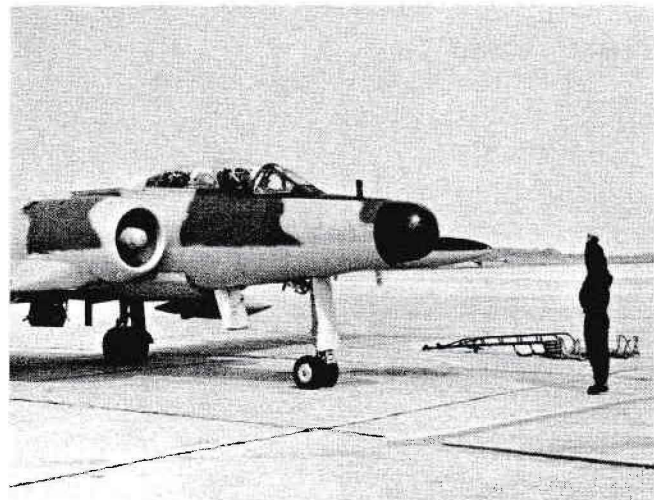
*Al Mabey and Tom Menzies were among the Orenda contingent.*



*One aircraft was painted all-back, with a white stripe, to simulate No. 18101, the first prototype.*



*Bill Sanders and his wife chatted with A.V.M. Crewe (RAF, retired) who was the first Officer Commanding, CF-100 OTU, in 1952.*



*Taxying-in to the flight line for the last time. Press and television cameramen were waiting to interview the crew.*