

# THE CF105 AVRO ARROW: THE PLAYERS

Updated 22 January, 2006

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### **A.V. Roe Canada**

**Arnold Banks**, Line Crew  
**Stu Barefoot**, Avro  
 Photography  
**Ken Barnes**, Senior  
 Designer  
**Cy Beard**, Avro  
 Photography  
**Harry Beffort**,  
**Al Betts**, Avro  
 Photography  
**Pete Bonell**, Flight Test  
 Dept  
**Murray Boyd**, Line Crew  
**F. Brame**, Chief of  
 Technical Design  
**Peter Brown**, Avro  
 Photography  
**Bob Cairns**, Wrote the  
 Specifications of the  
 Arrows  
**Jim Chamberlin**, Chief of  
 Technical Design  
**Ken Cooke**, Engineering  
**Mike Cooper-Slipper**,  
 Chief Test Pilot, Pilot B-  
 47  
**Peter Cope**, Test Pilot  
**Art Cowper**, Line Crew  
**Gordon Crawford**,  
 President & General  
 Manager  
**Wilf Farrance**, Cockpit  
 Implementation  
**Jim Floyd**, VP  
 Engineering  
**Bill Forester**, Line Crew  
**Jack Gary**, Line Crew  
**Guest Hake**, Chief Project  
 Engineer  
**Ted Harmsworth**,  
 Technical Pubs  
**Dorothy Henry**,  
 Technical Pubs  
**Len Hobbs**, Co-Pilot, B-  
 47  
**Fred Hopkinson**, Avro  
 Photography  
**Ian Higgins**, Flight Test  
 Department

### **Government, R.C.A.F. & The Public**

**W/C John R.D. Braham**, A/DADR  
**June Callwood**, Journalist  
**A/M Hugh Campbell**, Chief of Air  
 Staff  
**V/A H.D. DeWolf**, Chief of Naval  
 Staff  
**John G. Diefenbaker**, Prime Minister  
**A/V/M J. Easton**  
**G/C Ray Foottitt**  
**Gen Charles Foulkes**, Chiefs of Staff  
**Joe Gibson**, CBC Newsman  
**L/G H.D. Graham**, Chief of General  
 Staff  
**Paul Hellyer**, Liberal M.P.  
**A/M M.M. Hendrick**  
**C.A. Horne**, Department Defence  
 Production  
**Jim Hornick**, Globe & Mail  
**G/C J.J. Jordon**, DFS  
**Herb Knott**, Private Photographer  
**Mac Kuhring**, Interim Curator NAM  
**Sam Lax**  
**G/C Abe Lieff**  
**Roland Michener**, House Speaker  
**A/V/M Frank Miller**, Deputy Defence  
 Minister  
**George Pearkes V.C.**, Minister of  
 Defence  
**F/L Norm Ronaason**, CEPE Pilot  
**C. Roy Slemon**, Chief of the Air Staff  
**D.L. Thompson**, Dept of Defence  
 Production  
**A/C G.G. Truscott**  
**F/L Jack Woodman**, CEPE Pilot  
**Dr. A. Zimmerman**, Head of DRB

### **Orenda Engines Limited**

**Burt Avery**, Chief Design Engineer  
**Peter Brennan**  
**Syd Britton**, Chief Administrative  
 Engineer  
**Earle Brownridge**, Exec VP and GM  
**C.E. Elliot**, Contract & Parts Manager  
**Dolly Ford**, Production Control  
**Marg Fry**, Experimental Purchasing  
 Department  
**Len Goodenough**, Photography  
**Charles A. Grinyer**, VP Engineering  
**Cliff Heckel**, Photography  
**Harry Keast**, Assistant Chief Engineer  
 (Technical)  
**Robert Lindsey**, Engineer  
**Walter R. McLachlan**, VP & Gen  
 Manager  
**Dr. A. Muraszew**, Chief Experimental  
 Engineer  
**Herb Saruanemuto**, Engineer  
**Frank L Trethewey**, VP Sales &  
 Service

**C.D. Howe**  
**Jack Hurst**, Avro  
Photography  
**Stan Kwatkowski**,  
Supervisor, Analog  
Cockpit Simulator  
**George Laidlaw**, Avro  
Photography  
**Ron Lewis**, Human  
Factors Engineer  
**Robert N. Lindley**, Chief  
Engineer  
**Bob Levitt**, Line Crew  
**Owen Maynard**, Engineer  
**Hugh MacKechnie**, Flight  
Test photographer  
**Johnny MacLaughlin**,  
Flight Engineer B-47  
**Bill McDowell**, Avro  
Photography  
**Dan Moore**, Engineer, (In  
charge of fuselage centre  
section)  
**Joseph A. Morley**, VP  
Sales & Service  
**Verne Morse**, Avro PR  
Photography  
**Ron Northcott**, Avro  
Photography  
**Ron Nunney**, Avro  
Photography  
**John L. Plant**, Pres &  
Gen Mgr  
**Spud Potocki**, Test Pilot  
**Ross Richardson**,  
Engineer, (Designed  
intakes and front fuselage)  
**Duke Riggs**, V.P.  
Manufacturing  
**Harold Roberts**, Avro  
Photography  
**Don Rogers**,  
**John Salmon**, Line Crew  
**Bill Seggie**, Line Crew  
**George Shaw**, Mechanical  
Design Engineer  
**Frank Shoji**, Avro Stress  
Group  
**Harry Shipley**,  
**Harvey R. Smith**, VP  
Manufacturing  
**Fred T. Smye**, Ex VP  
Aeronautical Design  
**Doc Staley**, Line Crew  
**Johnnie Straboe**, Line  
Crew  
**Granville Stuart**, Avro  
Photography  
**June Thompson**,

Technical Pubs  
**Russ Thompson**, Avro  
Photography  
**Audrey Underwood**,  
Private Secretary to  
Crawford Gordon  
**Lou Wise**, Head of  
Photography  
**Jan Zurakowski**, Chief  
Test Pilot

#### Sub Contracted Companies

There were 650 suppliers and sub contractors, 400 Canadian and 250 American

##### Canadian Companies

**Alcoa**, (Forgings)  
**Canadair Ltd.**, Airframe detail, missile airframe, and  
program coordination  
**Canadian Westinghouse**, (Missile seeker)  
  
**Dowty Equipment**, Ajax, ON, (Landing Gear &  
Hydraulics)  
**Heroux Machine**, (Airframe detail)  
**Irvin**, Fort Erie, ON, (drag chutes)  
**Jarry Hydraulics**, (Landing Gear & Hydraulics)  
**Nobel**, (Partial engines were evaluated)  
**Vickers Hydraulics**, (Pumps)

##### American Companies

**B.F. Goodrich**, (deicing boots)  
**Cornell Aeronautical Laboratory**, (Now Veridan  
Engineering), (Wind Tunnel)  
**Minneapolis-Honeywell Regulator Company**, U.S.,  
(Development of Flight Controls)  
**Radio Corporation of America (RCA)**, U.S., (Electrical  
Weapon & Navigation System)

Last, but not least, **ALL** the employees of AVRO, Orenda, and their sub-contractors' employees, whose work and dedication ensured that the Arrows were built and flew!

#### Some of Avro and Orenda's Employees

**John Connell**, Skin Mill Operator

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





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# The Players

Government, R.C.A.F., & The Public  
A.V. Roe Canada  
Orenda Engines Limited  
Sub Contracted Companies  
Avro and Orenda's Employees

## Government, R.C.A.F., & The Public

John Bassett, PC CC OOnt , a prominent Toronto Tory  
W/C John R.D. Braham, DSO DFC AFC CD, , A/DADR  
G/C Ed P. Bridgland, CAS staff member  
June Callwood , Journalist  
A/M Hugh Campbell, CBE CD , Chief of Air Staff  
Ralph Campney, Minister of National Defence  
V/A Harry D. DeWolf, CBE DOS DSC CD, , Chief of Naval Staff  
John G. Diefenbaker , Prime Minister  
A/V/M J. Easton  
G/C Ray Footitt  
Gen Charles Foulkes, CC CB CBE DSO CD, , Chiefs of Staff  
Blair Fraser, political analyst  
Joe Gibson, CBC Newsman  
David Golden, Deputy Minister DPP  
L/G Howard D. Graham, OC CVO CBE DSO ED CD, , Chief of General Staff  
Howard Green, acting Minister of Defence Production  
Paul Hellyer , Liberal M.P.  
A/M M.M. Hendrick  
C.A. Horne, Department Defence Production  
Jim Hornick, Globe & Mail  
G/C J.J. Jordon, DFS  
Herb Knott, Private Photographer  
M.S. "Mac" Kuhring, Head of engineering Lab, NRC and Interim Curator NAM  
Sam Lax  
G/C Abe Lief  
McDonald, Secretary of the US Air Force  
Roland Michener, PC CC CMM OOnt Qc FRHSC(hon), , House Speaker  
A/V/M Frank Miller, CC CBE CD, , Deputy Defence Minister



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




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**Raymond O'Hurley**, Minister of DPP  
**Grattan O'Leary**, Ottawa Journal journalist  
**George Pearkes, VC PC CC CB DSO MC CD**, , Minister of Defence  
**Mike "Lester" Pearson**, Leader of the Opposition  
**F/L Norm Ronaason**, CEPE Pilot  
**C. Roy Slemon, CB CBE CD** , Chief of the Air Staff  
**Lieutenant-General Guy Simonds**, Chief of the General Staff  
**D.L. Thompson**, Director of the Aircraft Branch, Dept of Defence Production  
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**D.E. "Red" Darrah**,  
**John Douglas**, Contracts Manager  
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**Dan Moore**, Engineer, (In charge of fuselage centre section)  
**Morley**,  
**Joseph A. Morley**, VP Sales & Service  
**Verne Morse**, Avro PR Photography  
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**Frank Shoji**, Avro Stress Group  
**Harry Shipley**,  
**Harvey R. Smith**, VP Manufacturing  
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**Russ Thompson**,  
**John Tory**, Avro Photography  
**Audrey Underwood**, Private Secretary to Crawford Gordon  
**Murray Willer**, Manager AVRO Sales and Service Department, and editor of the AVRO Magazine  
**Lou Wise**, Head of Photography  
**Jan Zurakowski**, Chief Test Pilot

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**Dominion Steel & Coal**, Steel Producer  
**Dowty Equipment**, Ajax, ON, (Landing Gear & Hydraulics)  
**Heroux Machine**, (Airframe detail)  
**Irvin**, Fort Erie, ON, (drag chutes)  
**Jarry Hydraulics**, (Landing Gear & Hydraulics)  
**Nobel**, (Partial engines were evaluated)  
**Queensway Machine Products Ltd (The)** ☐  
**Vickers Hydraulics**, (Pumps)

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**Cornell Aeronautical Laboratory**, (Now Veridan Engineering), (Wind Tunnel)  
**Minneapolis-Honeywell Regulator Company**, U.S., (Development of Flight Controls)  
**Radio Corporation of America (RCA)**, U.S., (Electrical Weapon & Navigation System)

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### **Avro and Orenda's Employees**

Last, but not least, the employees of AVRO, Orenda, and their sub-contractors' employees, whose work and dedication ensured that the Arrows were built and flew!

Employees not already listed above

**John Connell**, Skin Mill Operator  
**Elwy Yost, CM** , Avro Personel Department

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