

Remmert-Werner

Inc. of Inc. of
St. Louis Toledo
 Lambert Field Express Airport

Specialists in

DC-3

Lodestar Twin Beech
 Maintenance Conversion Overhaul

Deicers Heating systems Rewiring
 Interiors Picture windows Painting
 Custom radio and instrument panels
 Insulation, heat and sound
 Autopilots Specialties

Executive radio
 A.R.C. BENDIX COLLINS SPERRY
 NARCO WILCOX LEAR

Engines

R985 R1340 R1820
 R1830 Super-92 R2000

R A D A R

Bendix R.C.A. C-band X-band

DC3 Heating systems—400,000 BTU
 3 way—automatic—ground
 Janitrol—Hot air—
 Stewart-Warner

DC3 Blow out proof oil coolers
 automatic surge-proof thermostats

DC3 Outer wing tanks

DC3 Geared rudder tabs—
 for 1350 HP

DC3 Landing gear doors

DC3 Retract tail wheel

DC3 Short tail pipes

DC3 Dual hydraulic system

DC3 Airstairs—electrolift

DC3 One piece birdproof windshields

DC3 Picture windows

DC3 Shutoff valves

DC3 Fire detectors and extinguishers

DC3 Fuel flow meters

DC3 Brakes

Hayes-Goodrich, Goodyear,
 Bendix

DC3 Deicers

DC3 Spare Surfaces, wings, controls

DC3 Spare Parts for airframe, engines

DC3 Propellers, toothpick, paddle

DC3 Engines — ALL

R1820-56,-72,-202

R1830-75,-92,-94

R2000

SUPER-92

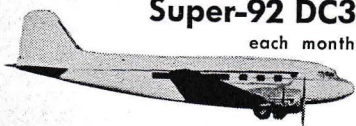
C47s

Available

1086 to 6402 hours total, 8000 hr.
 OH, NTSO engines, new ship guaran-
 tee.

Super-92 DC3

each month



your choice of engines:

Bendix or Collins radio, new ship
 guarantee, complete 8000 hour over-
 haul, beautiful custom interior, big
 windows, 200 mph.

aviation intelligence

► **A. V. Roe Canada Ltd.** will direct the new engineering and production job of building the U. S. developed, Douglas-Sperry **Sparrow** air-to-air guided missile in Canada for the CF-100 and CF-105. **Canadian Westinghouse Co.**, Hamilton, will make the electronic guidance system and do the redesign work to meet Canadian requirements; **Canadair Ltd.**, Montreal, will build the airframe.

Originally a U. S. Navy project, three versions of the missile exist, the: AAM-N-2 Sparrow 1, AAM-N-3 Sparrow 2, and AAM-N-4 Sparrow 3. All have solid rocket engines. Development was started in 1951.

The **Sparrow 1**, which is in production for the U. S. Navy, is 8 ft. 3 ins. long, weighs 280 lbs., has a range of approximately five miles and a speed of Mach 3.

A. H. Zimmerman, chairman designate of DRB, said the Sparrow was chosen for its comparative simplicity and low cost. It's not decided yet which model Canada will make.

► **Velvet Glove** work will be continued to keep the Canadian guided missile team together. Canada is considering integration of efforts with those of the U. S. and U. K. for development of surface-to-air and ship-to-air weapons.

► **Civil Radar** network is in the works for the Department of Transport. Initial project calls for four short-range **Decca MR-75** radar sets for installation at Montreal, Toronto, Winnipeg and Vancouver airports. These are temporary surveillance units to aid traffic control.

Long-range plans: 15 larger units being custom-built by **Raytheon** for installation at all major airports in Canada: Vancouver, Edmonton, Calgary, Saskatoon, Winnipeg, Fort William, North Bay, Toronto, London, Ottawa, Montreal, Quebec, Seven Islands, Moncton and Halifax.

Range of the larger sets would be a minimum of 90 miles and 60,000 ft. altitude with potential for general surveillance in a range of 150-200 miles and precision surveillance extending to a minimum of 90 miles. Delivery of these large sets is expected in 1957 with the chain operational in 1958.

► **CAEC (Civil Air Emergency Corps)** has got under way in the Toronto area. Regular Civil Defense training will be given first to be followed by air rescue and communications training this summer with flying exercises.

► **Avro Aircraft's** CF-100 Mark V production line is already rolling with the first of the new Mark V's delivered to the RCAF. These are covered by existing contracts well into 1958 despite recent press reports announcing new contracts.

Meanwhile, according to some reports, the first delta-wing CF-105 supersonic interceptor is expected to be finished by late spring 1957. It will be the first of a batch of five which will probably be powered with the Pratt & Whitney J-57 engines. The next batch of 11 will get the Orenda P.S. 13 new 20,000 lb.-plus thrust engines if testing schedules are met.

► **Guest Aerovias Mexico, S.A.**, has already started to operate a twice a week Constellation service between Mexico City and Windsor, Ontario. \$87 one-way.

► **Spartan Air Services Ltd.** new association with **McPhar Engineering Co.** of Canada will expand Spartan's geophysical potential to be able to offer EM and magnetometer surveying and geophysical analysis.