

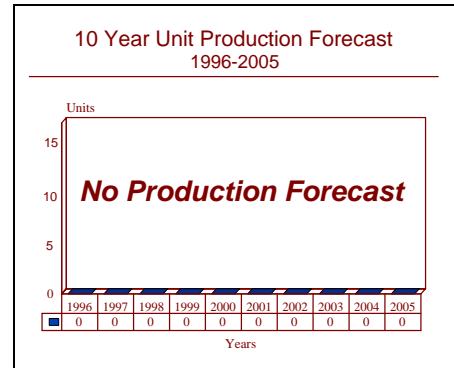
ARCHIVED REPORT

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ARC-207 - Archived 9/97

Outlook

- Production is complete
- A Navy backfit order is being completed



Orientation

Description. A family of high frequency transceivers.

Sponsor

US Navy
 Naval Air Systems Command
 Jefferson Plaza Bldg. 1
 Washington, DC 20361-0001
 USA
 Tel: +1 202 692 2260

Contractors

Rockwell International Corp
 Collins Avionics/Communications Division
 350 Collins Road NE
 Cedar Rapids, Iowa (IA) 52498
 USA
 Tel: +1 319 395 1000

Status. Production believed completed in 1994.

Total Produced. Approximately 330 units produced through the end of 1994.

Application. P-3C and P-3AEW&C aircraft.

Price Range. Estimated at US \$250,000 per set.

Technical Data

Characteristics

Dimensions

Size:

671U-10A Receiver

913Z-4A Control

Frequency Range:

No. of Channels:

Operating Modes:

Primary Power:

Environmental:

Metric

30.79 cm x 55.88 cm x 25.4 cm

14.60 cm x 15.24 cm x 9.53 cm

2.0 MHz - 29.9999 MHz

280,000 in 100 Hz increments

AME, voice LSB/SB/DIV, data LSB/USB/DIV

MIL-STD-704A Category B, 200-250 V L-L ac, 400 Hz, 3 phase.

MIL-E-5400, Class I, -54° - +54° C with 1/2 hour operation at +71°C

US

12.12 in x 22.0 in x 10.0 in

5.75 in x 6.0 in x 3.75 in

Design Specifications. The ARC-207 high-frequency (HF) radio features extensive filtering to allow simultaneous operation of multiple co-located systems with minimal frequency separation. The system offers control flexibility adaptable to MIL-STD-1553 data bus communication for local and remote monitoring.

The architecture allows both the ARC-207 and ARC-182 radios onboard the P-3C to be operated by a single control

unit. Operating modes are compatible with voice, TTY, and Link 11 data operations. The ARC-207 consists of the RT-1544 receiver-transmitter, F-1508/U bandpass filter, MT-6546 mount, AM-7091/U power amplifier, MT-6161/U mount and C-11864 control. Standard installation in the P-3C is two ARC-207 radios and associated ancillary equipment.

Variants/Upgrades

ARC-191. Derived from earlier ARC-153 HF radio Collins developed for US Navy S-3A program. The US Navy has installed the ARC-191 in its E-6A Hermes TACAMO aircraft, which have three sets configured for transmit and receive and one as a receiver only. The Navy has procured 16 E-6As to replace its fleet of EC-130s. Aircraft of the 89th Military Airlift Wing had several ARC-191s installed in each of the EC-135 and EC-137 Presidential aircraft. Each of the five EC-137 aircraft has five ARC-191 sets, three transceivers and two receive-

only units. The EC-135s are equipped with only two transceivers each.

ARC-512. The NATO designation for the ARC-191. It is used aboard Canadian CP-140 (the Canadian version of the P-3) and Great Britain's Nimrod aircraft.

HF-121. Commercial designation for the ARC-191 HF radio.

HF-121B. Commercial designation for the ARC-207 HF radio.

Program Review

Background. The ARC-207 represents the latest version within the ARC-153/HF-121 family of one-kilowatt, high-frequency (HF) radios that were originally designed for the US Navy. Based on the Collins commercial HF-121B

HF radio set, the ARC-207 went into production in late 1988 for US Navy application to the Lockheed P-3C ASW aircraft.

Its sole order was a \$10.1 million deal in September 1988.

Funding

Individual procurement and maintenance funding for the ARC-207 is not broken out.

Recent Contracts

None identified.

Timetable

1969	ARC-153 development began
1969	ARC-157 development began
1976	Development of HF-121 began
1977	First deliveries of HF-121
1988	ARC-207 selected for USN P-3C
1989	E-6A TACAMO aircraft scheduled delivery
1994	Production completed

Worldwide Distribution

The ARC-207 is deployed on **US Navy** and **US Customs** P-3AEW&C (also known as Blue Sentinel) aircraft. The only known foreign customer is **Pakistan**, which procured the radio as part of the ARQ-50 system (also includes the CMS-80 cockpit management system) for its P-3Cs which, however, were embargoed.

Forecast Rationale

The ARC-207 was the last HF-121 series radio in production, which ceased around 1994. The ARC-207 began service on the P-3C in the late 1980s, following the award of an initial \$10.1 contract for 17 shipsets in September 1988. Two ARC-207s replace two older ARC-143 HF radios on the P-3C aircraft.

The US Navy is completing a backfit to the ARC-207 to approximately 163 aircraft; our forecast projects no activity beyond this job. No new orders have been recorded, nor are any expected.

Ten-Year Outlook

No further production is forecast.

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