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Eleven Alaskan airports will be equipped with standard radio control systems for approach lights, with the installations to be completed before the end of 1976, the Alaskan Region of the Federal Aviation Administration announced recently.

At three of the airports—Aniak, Ft. Yukon and

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St. Mary's—the new system will allow a pilot in flight to activate airport lights just prior to landing. FAA does not have an airport traffic control tower or light, source station at these flight service station at these three locations.

At three other locations where At three other locations where the FAA provides air traffic services on a part-time basis—Yakutat, Homer and Bettles—air-to-ground airport Bettles—air-to-ground airport lighting controls will be available to pilots at times when air traffic

services are not being provided.

The new radio control systems for airport approach lighting will also go in at five other Alaskan airports where the FAA provides air train. Cordova, round-the-clock service: Ketchikan, Cordova, Kenai, Deadhorse and Barrow. At these locations, however, pilots will not activate the

(Continued on Page 12)

Harold Esmailka

Ruby, Alaska

Owner

Satcom I on geosynchronous orbit

contiguous 48 states. Initial

satellite operations will be with

The RCA Satcom I domestic communications satellite has achieved geosynchronous orbit and moved toward operational satellite has status today with its solar panels and generating directly from electricity dire

Howard R. Hawkins. president, RCA tions, reported Communica tions, reported that the spacecraft was in "excellent health" with extra on-board fuel

for 9½ years of operation, which is well above design criteria.

He said the satellite now would undergo in-space testing of its systems before going into commercial service, scheduled for February

The RCA Satcom I is the heart f RCA's domestic domestic communications satellite system designed to provide telephone, video and data services to customers throughout the 50

states.

The satellite is the most advanced communications spacecraft ever put into commercial service. It has 24 channels (or transponders), which is double the capacity of which is double the capacity of any similar satellite yet launched. It is a three-axis stabilized spacecraft employing new technology developed by RCA, compared with the spin-stabilized mode used in communications satellites

"The RCA Satcom I represents a significant step forward in communications space ventures, marking the beginning of a new marking the beginning of a new generation of satellites providing high reliability, low-cost communications throughout the United States," Hawkins said.

The RCA Satcom I can operate via earth stations in Alaska, Hawaii and the

nine existing RCA earth stations.

An additional 12 RCA standard stations, and up to 60 small earth stations scheduled for operation with the

RCA Satcom System in 1976.

There also will be another 11 earth stations in operation that will be just for video reception, and they will be used for Home Box Office programing.

In addition, Home Box Office

said that more than 100 applications are in process or on file with the Federal Communications Commission for video-only earth stations.

RCA has scheduled the launch of a similar 24-c communications satellite 24-channel Satcom II-for the end of March

RCA Satcom I was launched into eliptical earth orbit from Cape Canaveral, Florida, on Dec. 12, 1975. Approximately 68 hours later, a small rocket was fired to place the satellite into geosynchronous orbit 22,300 miles above the equator, which

will be its permanent home.

After achieving geosynchronous orbit—in which the satellite and the earth rotate in the same direction at the same speed—the satellite was stabilized and its solar panels deployed.
The pa

The panels are constantly aimed at the sun to produce 740 watts of power by converting sunlight directly into electricity to run all the spacecraft's functions. functions

The satellite's unmatched cost effectiveness results from development of a lightweight, high-capacity spacecraft with 24 separate channels that could be launched by an economical Thor Delta launch vehicle.

The existing Thor Delta 2914 was capable of lifting only 12-channel satellites.

By uprating the 2914 st payload capacity from 1,550 pounds to 2,000 pounds, the new Thor Delta 3914 was able launch the lightweight, channel RCA satellite, 24-channel achieving twice the capacity of communications satellites with a single launch.

Each transponder on the RCA Satcom I is capable of handling 1,200 voice grade channels, one color television transmission, or than 60 million bits per second of digital data.

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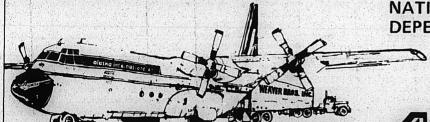


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