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Post Launch
Mission Operation Report
No. M-492-206-82-06

January 17, 1983

TO: A/Administrator
FROM: M/Associate Administrator for Space Flight
SUBJECT: RCA-E/Delta Post Launch Report

The RCA-E spacecraft was launched successfully from the Eastern Space and Missile Center (ESMC) at 9:27 p.m., EDT, on October 27, 1982, by a Delta 3924 Vehicle, Mission Number 165.

Performance of the three-stage Delta launch vehicle was nominal and placed the payload in a transfer orbit as planned. The synchronous transfer orbital elements achieved, compared with the nominal expected, are as follows:

	<u>EXPECTED</u>	<u>MEASURED</u>
Apogee (n.mi.)	19,758.6	19,700.8
Perigee (n.mi.)	95.5	95.1
Inclination (degrees)	24.9	24.9

The ABM was fired successfully at 7:19 p.m., EDT, on October 30, 1982. The satellite was maneuvered to a position 143 degrees West Longitude above the equator and satellite status is satisfactory.

JAMES A. ABRAHAMSON
Lieutenant General, USAF
Associate Administrator for
Space Flight



(NASA-TM-85205) RCA-E/DELTA ECST LAUNCH
RECEPT (National Aeronautics and Space
Administration) 2 p HC A02/MF A01 CSCL 22A

N83-17568

Unclas
G3/15 02476

NASA MISSION OBJECTIVES FOR THE RCA-E MISSION

Launch the RCA-E spacecraft into a synchronous transfer orbit on a three-stage Delta 3924 launch vehicle with sufficient accuracy to allow the spacecraft apogee kick motor to place the spacecraft into a stationary synchronous orbit while retaining sufficient station-keeping propulsion to meet the mission lifetime requirements.

Joseph B. Mahon
Joseph B. Mahon, Acting Director
Special Programs
Office of Space Flight

Date: October 20, 1982

J. Abrahamson
JAMES A. ABRAHAMSON
Lieutenant General, USAF
Associate Administrator for
Space Flight

Date: 22 Oct 82

ASSESSMENT OF THE RCA-E MISSION

Based on the performance of the Delta 3924 launch vehicle (Mission 165), which placed the RCA-E spacecraft in the planned orbit, the NASA objectives for this mission are judged to have been accomplished successfully.

Joseph B. Mahon
Joseph B. Mahon, Director
Special Programs
Office of Space Flight

Date: January 7, 1983

J. Abrahamson
JAMES A. ABRAHAMSON
Lieutenant General, USAF
Associate Administrator for
Space Flight

Date: 9 Jan 83