

AFB-4578-1-73  
AS OF 11/2/73

QUARTERLY PROGRAM REVIEW

Project STRAWMAN

Program Director: Brig Gen David D. Bradburn  
Project Director: Col Jack Simonton

1. On-Orbit Vehicles

a. STRAWMAN IV (2737). STRAWMAN IV was launched on July 1971 and operated successfully until 23 March 1973. The vehicle operated successfully in the Strategic Order of Battle mode until tasking termination of rev 939, 16 March 1973. The tenth yaw maneuver was completed on rev 850, 29 January 1973.

b. There were several spacecraft anomalies during this reporting period and are listed as follows:

(1) During a high beta period batteries #1 and 3 exceeded 90° F and payload tasking was discontinued from rev 8015 day 539 to rev 8252 day 548.

(2) Battery #2 stopped sharing the vehicle bus load on rev 8389 and failed on rev 8387, day 550. Payload tasking was stopped on rev 8387 to assess the impact of reduced available power. Tasking was resumed on rev 8541 but limited only to daylight operations where the solar array output could support the load.

(3) Battery #3 failed to support its share of the load on rev 8800, 16 February 1973. The remaining battery #1 was carrying the entire load. All night time critical operations were suspended on rev 8902, 18 February 1973 and tasking was limited to THRESHER and REAPER payloads with daylight operations only.

(4) Charge controller 2A stopped sharing its portion of the charge cycle and charge controller 2B was selected on rev 9191.

(5) Charge controller 3A stopped sharing its portion of the charge cycle and charge controller 3B was selected on rev 9371.

(6) The vehicle bus dropped to 22 volts on rev 9371, indicating a shorted cell in the remaining battery #1. All payload operations ceased on rev 9304, 16 March 1973.

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c. The two primary payloads, THRESHER (125 to 2100 MHz) and REAPER (1400 to 3200 MHz) operated successfully in the EOB mode throughout the STRAWMAN IV 617 day operation.

d. The HARVESTER payload (2 to 12 GHz) had only the high band (3 to 12 GHz) capability in the EOB mode but was not tasked during this reporting period.

e. The [redacted] payload operated successfully through the STRAWMAN IV mission but was only tasked from 24 through 28 February 1973 during this reporting period.

25X1

#### 2. Program Direction

No changes have occurred nor are any anticipated. The STRAWMAN program is terminated.