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DEPARTMENT OF THE AIR FORCE

AF UNIT POST OFFICE, LOS ANGELES, CALIFORNIA 90045

REPLY TO
ATTN OF:

4 March 1971

SUBJECT: CORONA Mission Summary

TO: DNRO (Dr. McLucas)

Attached is the summary for Mission 1113.

Brig Gen, USAF
Director

Atch
Summary Mission 1113

Declassified and Released by the NRO

In Accordance with E. O. 12958


on NOV 26 1997

EXCLUDED FROM AUTOMATIC
REGRADING; DOD DIR 5200.10
DOES NOT APPLY

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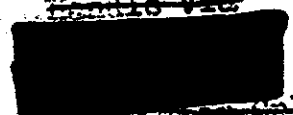
SUMMARY

MISSION 1113

EXCLUDED FROM AUTOMATIC
REGRADING; DOD DIR 5200.10
DOES NOT APPLY.

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MISSION BRIEF

I. Mission 1113 was launched from Vandenberg AFB at 2004Z on 17 February 1970. The flight terminated at ground impact after approximately 69 seconds of flight.

II. Mission 1113 did not achieve orbit and no recoveries were made.

III. P-801 unit 801-3, Logacs, Quantic Star Tracker, and Transit Beacon TR-4 were carried as additional payloads.

IV. Failure of Mission 1113 to achieve orbit is being investigated.

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CORONA

MISSION SUMMARY

Mission Number: 1113
FV/Booster/Payload: 1659/69-033/CR-13
IRON: 3297
Launch Date: 2004Z, 17 February 1971
Launch Facility: SLC-3, West Pad, Vandenberg AFB, California
Recovery: None
Film Take: None

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MISSION HISTORY AND PERFORMANCE

I. PREFLIGHT

A. Mission Scheduling

[REDACTED] dated 22 January 1971, scheduled mission 1113 for 17 February 1971.

B. Payload/CR-13

Payload CR-13 arrived at Vandenberg AFB on 10 February 1971. Payload mating and confidence checks were accomplished satisfactorily. The pan camera load consisted of type 3414 film.

C. Booster/THORAD/69-033

Booster 69-033 arrived at Vandenberg AFB on 24 June 1970 and was placed in storage. The booster was transferred to the launch pad and erected on 16 December 1970. Prelaunch testing was normal and completed as scheduled.

D. FV/Agena 1659

FV 1659 completed manufacturing and systems test on 6 February 1970 and was shipped to Vandenberg AFB on 8 August 1970. Prelaunch testing was normal and completed as scheduled. A type 22 decoder was removed and replaced due to a faulty wiring crimp connection and the inertial reference package was replaced due to excessive pitch gyro drift.

II. COUNTDOWN AND LAUNCH

A. The countdown was initiated at 1221Z on 17 February 1971 and proceeded normally to liftoff at 2004Z, 17 February 1971.

B. Performance of the THORAD/Agena vehicle was normal until approximately 23 seconds after liftoff, at which time the THORAD booster main engine exhibited loss of thrust, the solid motor rockets separated from the vehicle, the booster vehicle disintegrated in flight, and the Agena with payload impacted the ground approximately one-half mile downrange from the pad and within the safety hazard area - all events occurring in close sequence. The self destruction of the booster was due to failure of the main engine turbopump lubrication system which caused destruction of the turbopump and subsequent destruction of the

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booster. A specific cause for the loss of lubrication has not been identified. The AFSC Investigation Board is continuing testing to establish the primary failure mode and to develop recommendations to prevent recurrence of this problem.

III. ORBIT

A. Injection Parameters

	<u>Predicted</u>	<u>Actual</u>
Period	.89.24 Min.	Did not achieve orbit
Perigee	90.00 NM	
Apogee	171.50 NM	
Inclination	96.40 Deg	

B. Mission Performance

Flight vehicle was not injected into orbit and mission objectives were not achieved.

C. Post Mission Events

None.

IV. RECOVERY

None.

V. RECOVERY OF HARDWARE

All classified payload components and associated hardware were destroyed upon ground impact. The majority of remaining pieces were recovered and placed in secure storage pending the conclusion of the accident investigation. Agena/THORAD remains necessary for the investigation, were recovered and placed in bonded storage. All remaining hardware debris was placed in the impact crater and covered with compacted earth fill.

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