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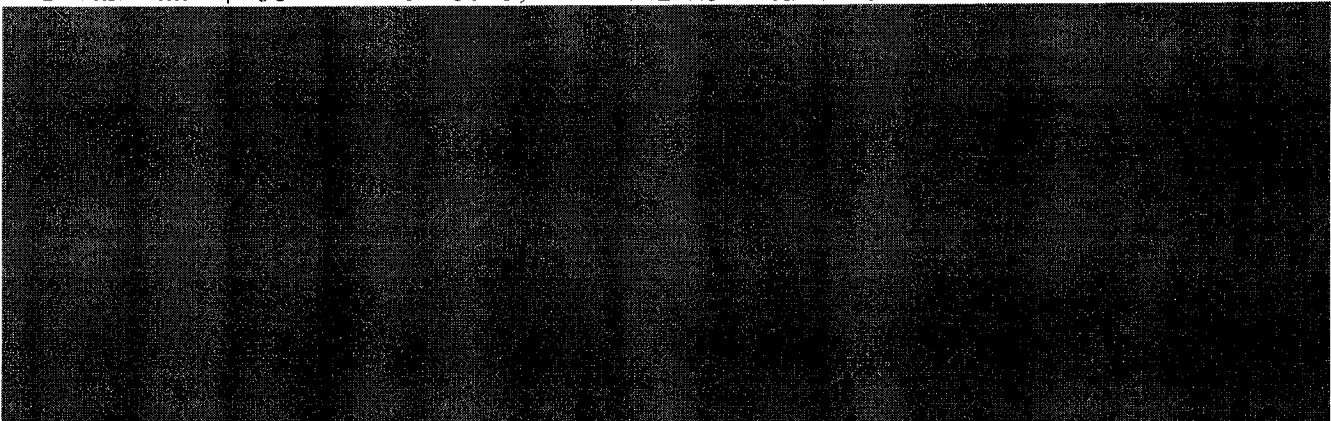
SIGINT RECONNAISSANCE FAILURES/ANOMALIES
DURING PERIOD JUNE 1960 THRU MARCH 1973

PART I

Catastrophic Failures

Any component failure within launch or on-orbit vehicle which voided the mission.

<u>PROGRAM</u>	<u>MISSION NUMBER</u>	<u>LAUNCH DATE</u>	<u>CAUSE OF FAILURE</u>
GRAB II		Nov 60	Failed on launch.
TAKI	(1120)	13 Jan 62	AGENA failed to orbit.
GRAB IV		24 Jan 62	No orbit due to last stage failure.
GRAB V		23 May 62	Failed to achieve orbit.
RED VINO II	7206	28 Feb 63	Vehicle aborted on launch and was destroyed.



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PART II

Severe Mission Impacts

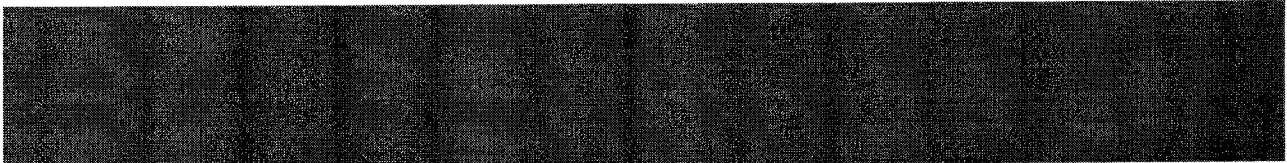
Any failure which has a significantly degrading effect upon the planned mission.

<u>PROGRAM</u>	<u>MISSION NUMBER</u>	<u>LAUNCH DATE</u>	<u>CAUSE OF SEVERE MISSION IMPACTS</u>
GRAB I		22 Jun 60	Six-month expected life; 10-week actual life.
TAKI I	(1107)	16 Jun 61	Payload failed to intercept radar due to circuit malfunction.
WILD BILL I	(1109)	7 Jul 61	Payload recorder malfunction. 40% loss of data.
TEXAS PINT I	(1112)	30 Aug 61	Command system failed after first orbit due to blown fuse. 75% data loss thereafter.
TOPSOC II	(1114)	18 Sep 61	400 cycles power failure end pass 34.
TOPSOC III	(1115)	13 Oct 61	2 KC power failure end pass 31.
GRAPE JUICE I	(1119)	12 Dec 61	Power failed first day. Lost T/M link end pass 9. Interference and spurious signal limited data.
NEW JERSEY I	(1131)	27 Jul 62	Locator finder technique proved unworkable due to clock failure.
RED VINO I	7203	5 Dec 62	Very low orbit achieved; went down on third day of 12-14 day mission.
WILD BILL II	7202	13 Dec 62	Eccentric orbit -- last R-0 pass 254 suspect recorder failure.
TAKI III	7204	14 Dec 62	12-14 day expected life; actual 6 days.
NEW JERSEY II	7205	7 Jan 63	12-14 day expected life; actual 6 days.
WILD BILL III	7207	12 Jun 63	Loss of power on Day 16 of 30-day mission.
POPPY		15 Jun 63	The three satellites orbited on non-nominal orbit caused by no second burn of AGENA.
PLYMOUTH ROCK	7208	29 Jun 63	Inverter failed on Day 11 of 17-day mission causing loss of all 3 phase power to payload.

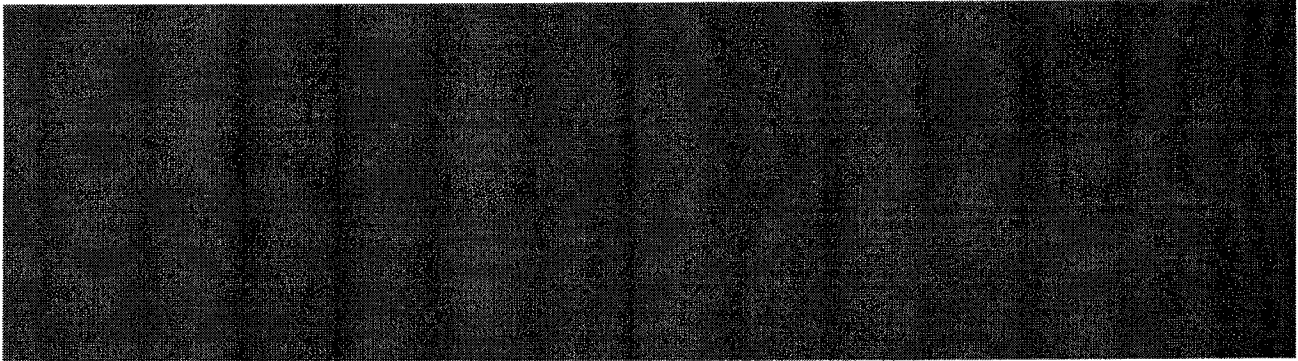
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HANDLE VIA
BYEMAN-TALENT-KEYHOLE
CONTROL SYSTEMS JOINTLY

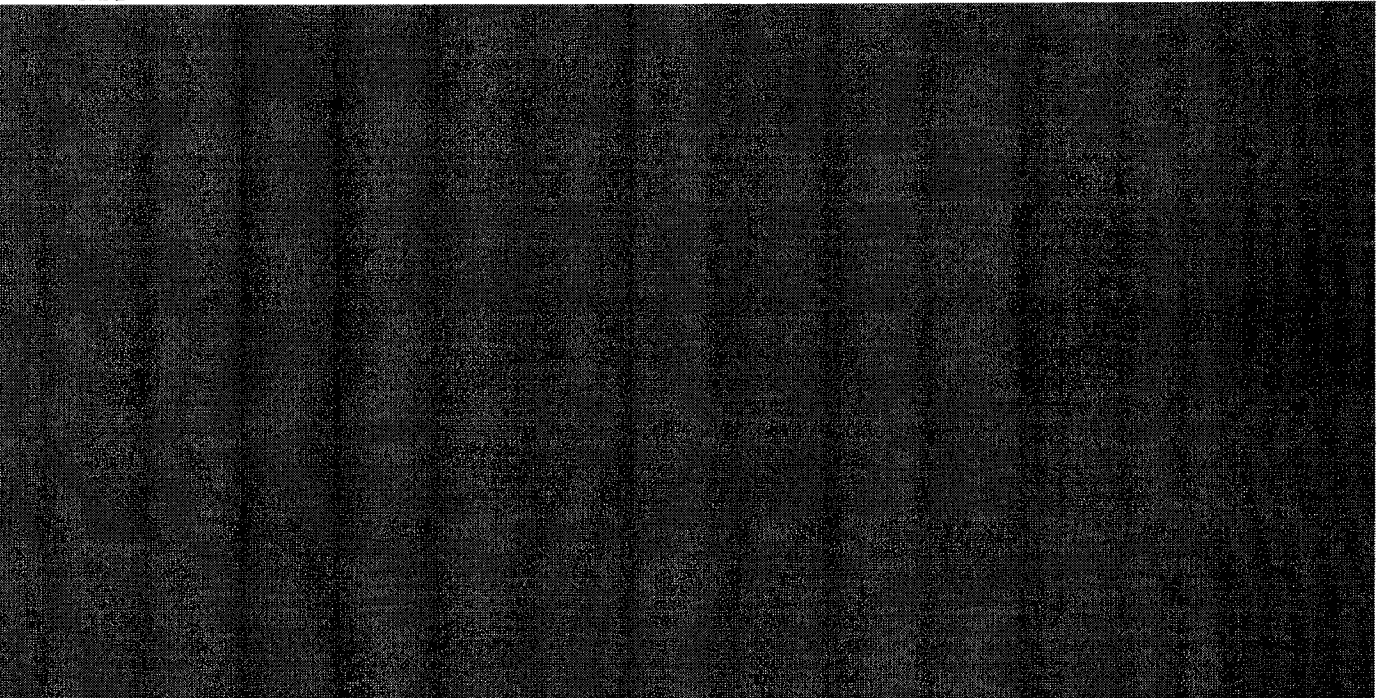
<u>PROGRAM</u>	<u>MISSION NUMBER</u>	<u>LAUNCH DATE</u>	<u>CAUSE OF SEVERE MISSION IMPACTS</u>
HAYLOFT	7201	11 Jan 64	Wideband 50KC became inoperative as of Rev 14.



LONG JOHN IV	7224	13 Jun 64	50KC recorder failed after 16 days of 20-day mission.
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SQUARE TWENTY	7225	28 Oct 65	Battery failed after Rev 183.
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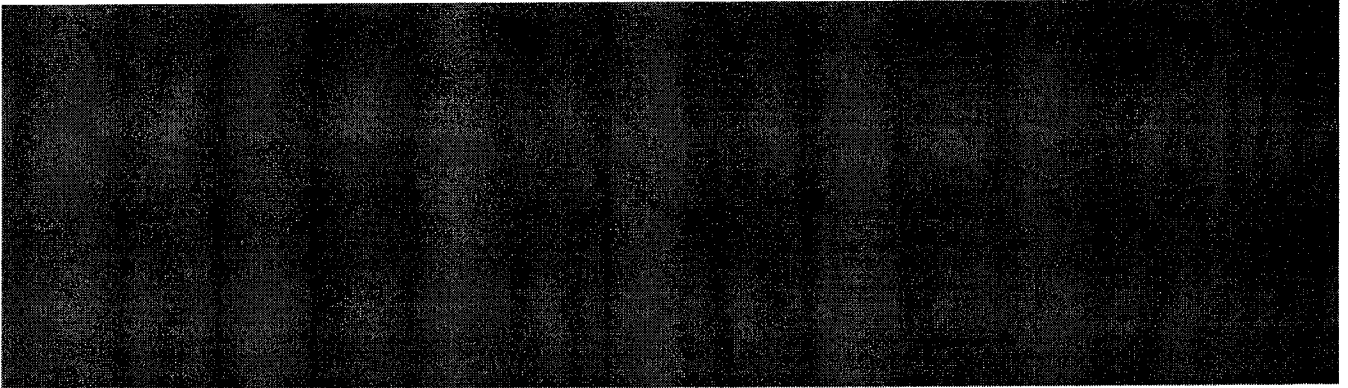


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<u>PROGRAM</u>	<u>MISSION NUMBER</u>	<u>LAUNCH DATE</u>	<u>CAUSE OF SEVERE MISSION IMPACTS</u>
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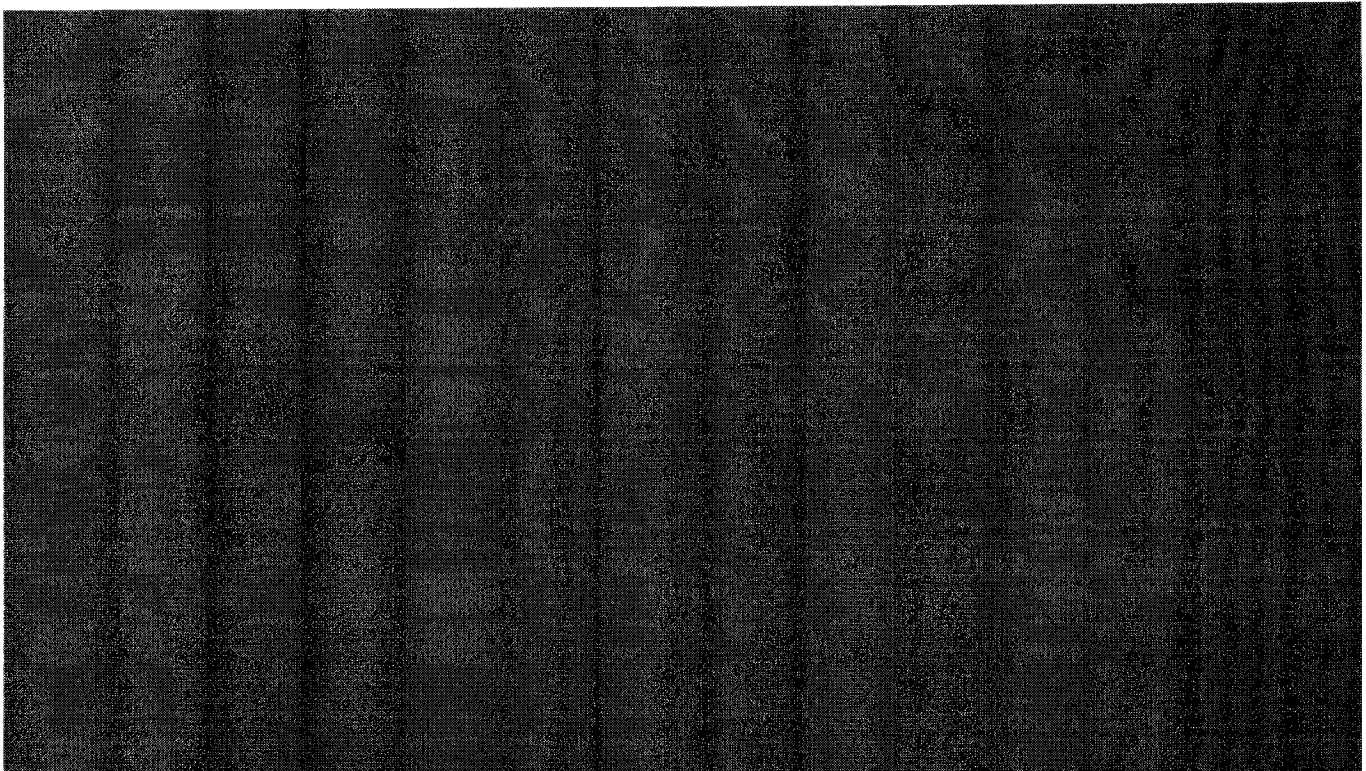
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PART III

Orbital Anomalies

Any equipment failure or partial failure which occurred during the mission, but was of minimal impact as a result of: (1) the nature of the failure, (2) the ability to switch to a redundant system, and (3) the development of work-around procedures.

<u>PROGRAM</u>	<u>MISSION NUMBER</u>	<u>LAUNCH DATE</u>	<u>ANOMALIES</u>
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LOW ORBITERS

WILD BILL	(1123)	27 Feb 62	Limited data acquired due to low TM signal strength.
WILD BILL IV	7216	15 Jun 63	Noisy data.
LONG JOHN II	7219	27 Nov 63	Wideband transmitter malfunction after MMD.



LONG JOHN III	7222	15 Feb 64	Recorder failed after MMD.
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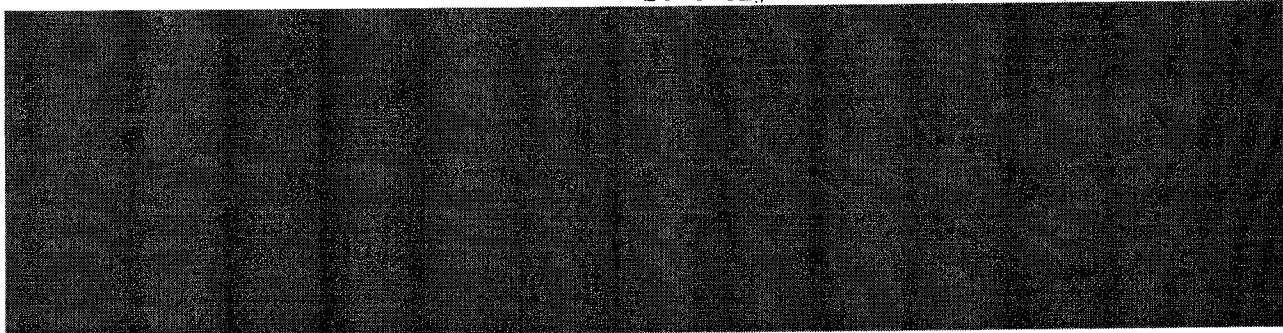


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LOW ORBITERS (continued)

<u>PROGRAM</u>	<u>MISSION NUMBER</u>	<u>LAUNCH DATE</u>	<u>ANOMALIES</u>
POPPY	[REDACTED]	30 Sep 69	Failure of three sub-satellites prior to MMD. (Two failures within [REDACTED] severely reduced capability.)



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