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APPENDIX

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GLOSSARY

DATE	The date on which a problem, failure, or discrepancy occurred or was discovered.
ITEM NO. (Paragraph 2)	Problems, failures, and discrepancies are consecutively listed under each system. The items are numbered in sequence as to the date on which the problem, failure, or discrepancy occurred during the period from arrival of the missile at the complex to the time of launch.
MARS	Martin Automatic Reporting System Report Form.
PROBLEM	Description of the discrepancy.
ACTION	The repair, replacement, or disposition necessary to correct the discrepancy.
FAILURE	The letter F with the item number indicates a failure. A failure is defined as the cessation of the equipment's ability to continue its operation, including those out of tolerance conditions causing cessation of operation, during the operational readiness, pre-launch, and in-flight modes.
DISCREPANCY	Errors, inaccuracies, or omissions detected in publications, drawings and procedures; unsatisfactory packaging and shipping; inadequate or unsatisfactory training; and evidence of unsatisfactory quality control are classified as discrepancies.
RELIABILITY STATUS	An explanation of the problem, and a review of historical records on significant failures and discrepancies. Also, an indication of action that has been taken or initiated.

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GENERAL HISTORY

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Date	Operation	Event
25 August 1961	Receipt of Missile	Missile J-20 arrived via C-133A aircraft at AMR skid strip. It was inspected and unloaded in accordance with (IAW) the missile unloading and transportation log and transported to Hangar U for the receiving inspection.
28 August 1961 30 August 1961	Receiving Inspection	The missile was inspected IAW Quality Assurance Integrity Inspection Procedures 100 through 105, and 107 and 110.
30 August 1961	Ordnance Installation	Ordnance was installed at the hangar IAW Procedure 509.
8 September 1961	Stage Erection	The missile was erected IAW Procedure 704. Degreasing operations on Stage I and Stage II were accomplished IAW Procedures 205 and 208 respectively.
26 September 1961	Combined Systems Test (CST)	The official CST was performed.
28 September 1961	Launch	The missile was successfully launched.

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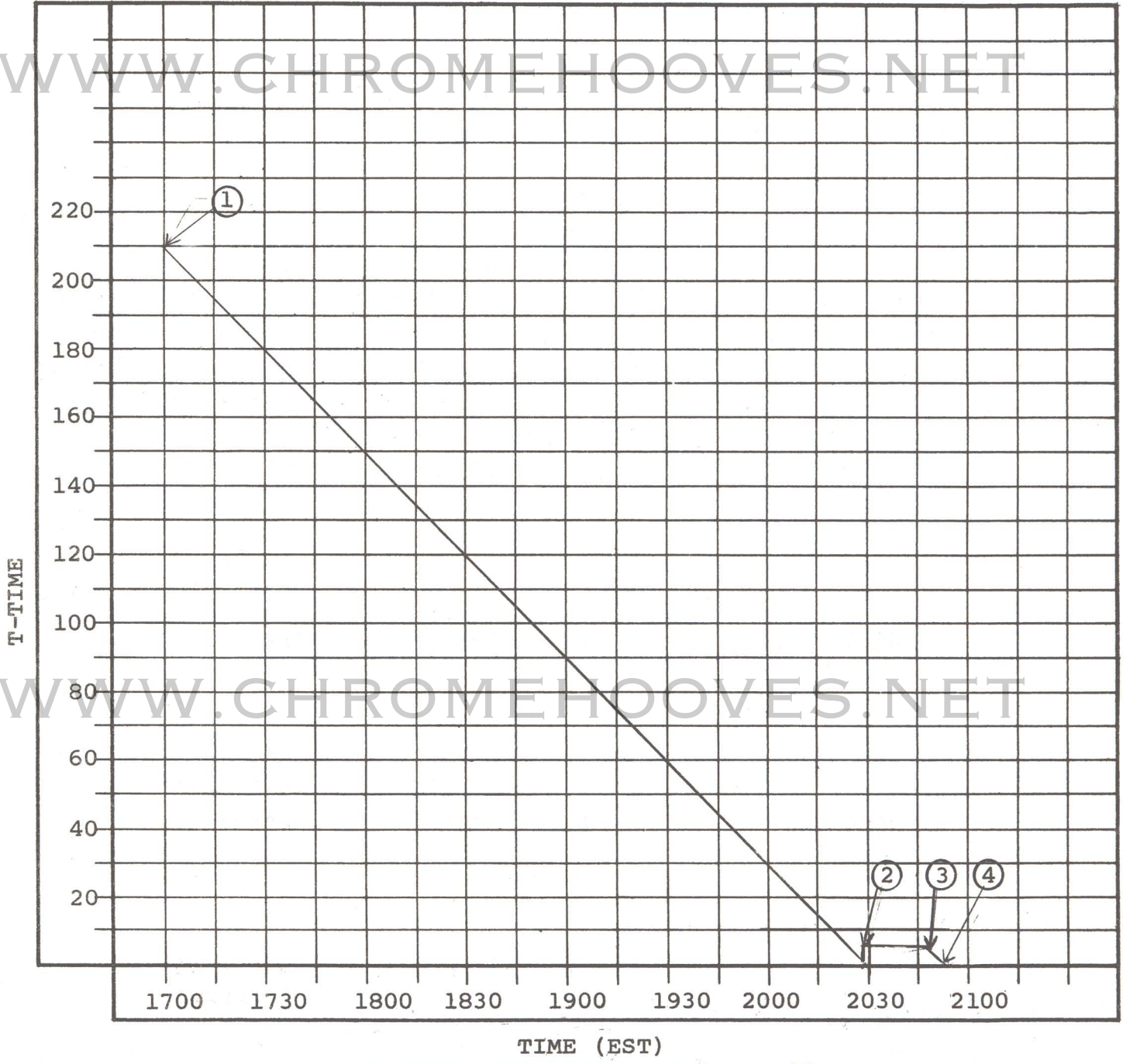
~~SECRET~~ ~~CONFIDENTIAL~~PROBLEMS ENCOUNTERED DURING LAUNCH OPERATION

<u>ITEM</u>	<u>T TIME</u>	<u>EST</u>	<u>PROBLEM</u>	<u>ACTION</u>
1	T-210	1700		The count was initiated for launch at 2030 EST, 28 September 1961.
2	T-0:38	2029	A low lox tank pressure signal caused an automatic hold. However, the pressurization observer noted that the pressurization was within limits at all times. There was a total hold time of 18 minutes.	The problem could not be duplicated. However, it was believed to have been caused by a sticking relay in the tank pressure gauge. This could not be confirmed.
3	T-5	2047		The count was resumed.
4	T-0	2052		Titan Missile J-20 was successfully launched.

TABLE I

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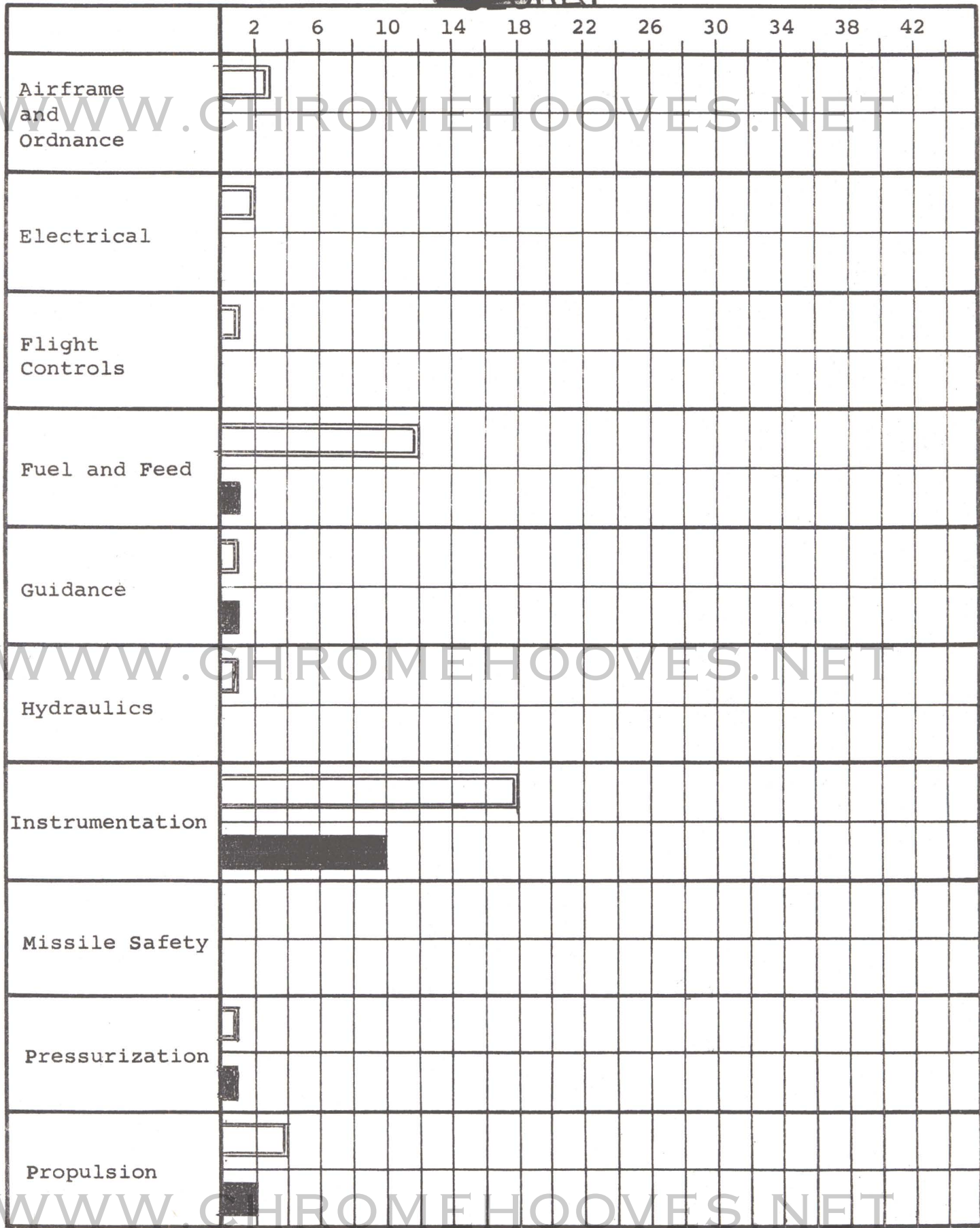


LAUNCH COUNTDOWN, MISSILE J-20

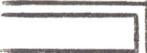

LEGEND
-----Scheduled Countdown
—————Actual Countdown

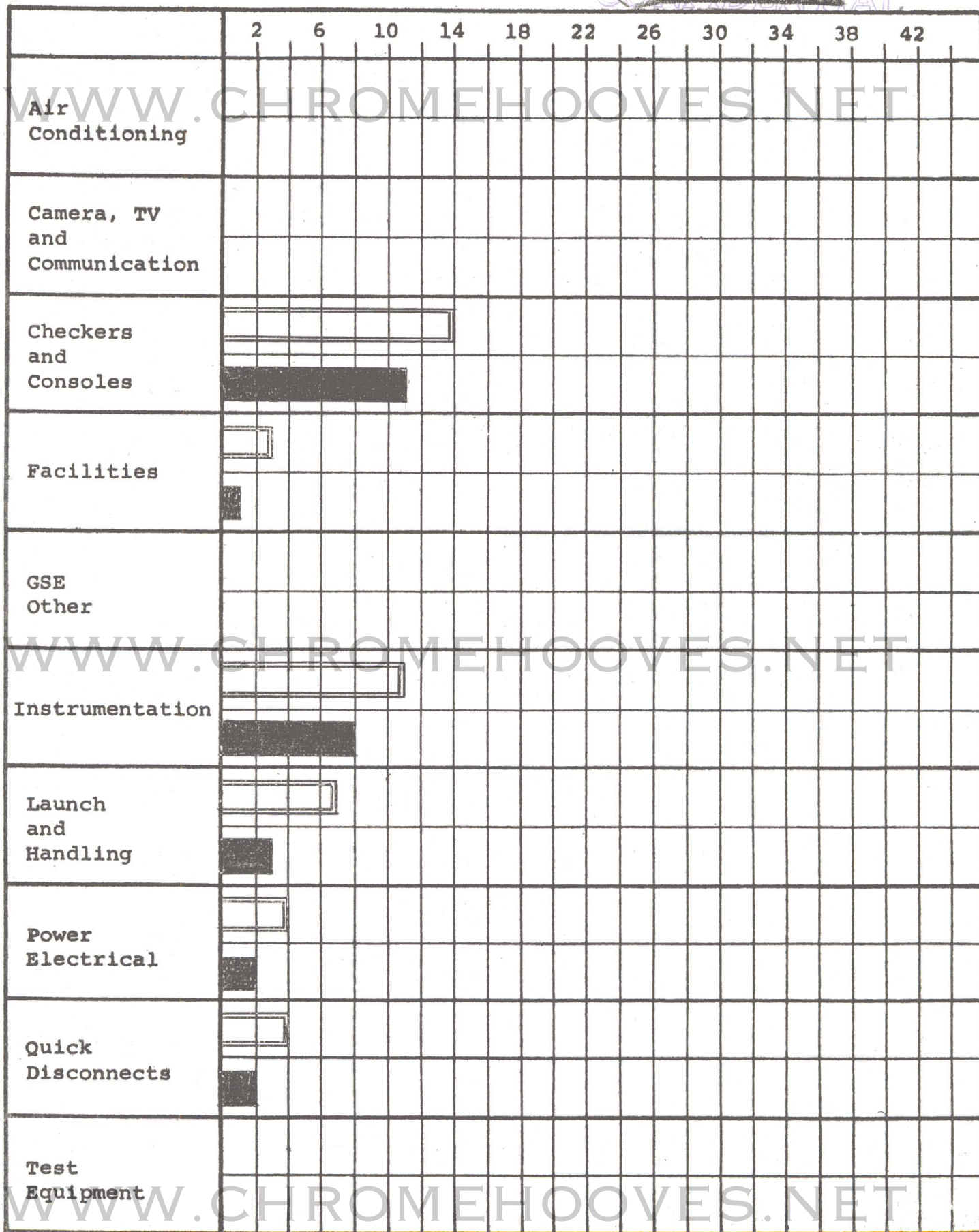
FIGURE 1

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AIRBORNE FAILURES AND DISCREPANCIES BY SYSTEMS

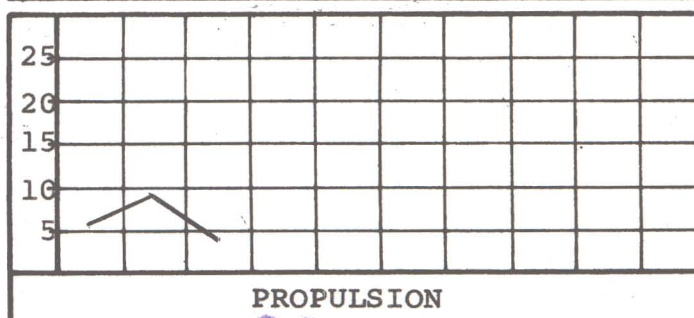
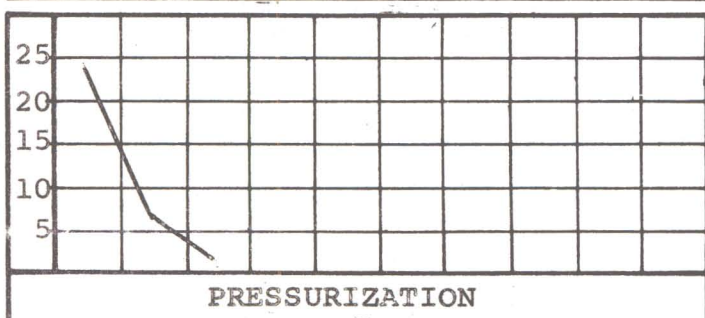
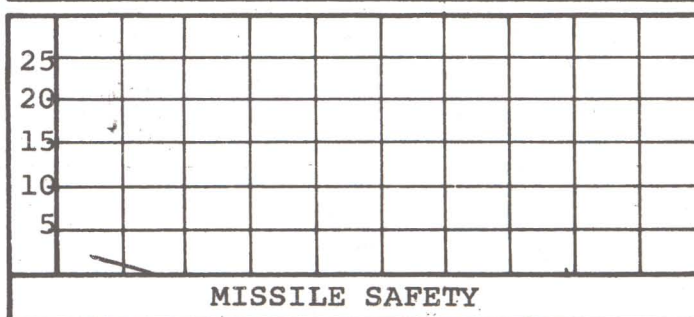
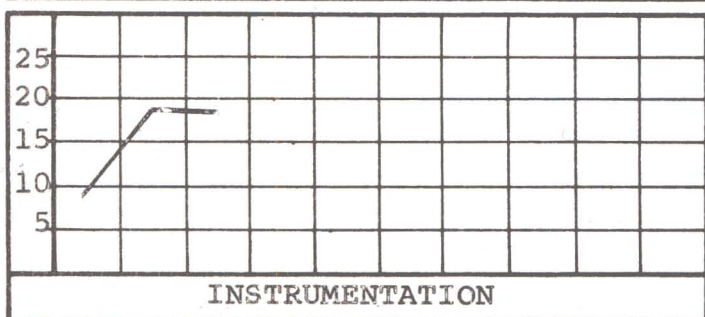
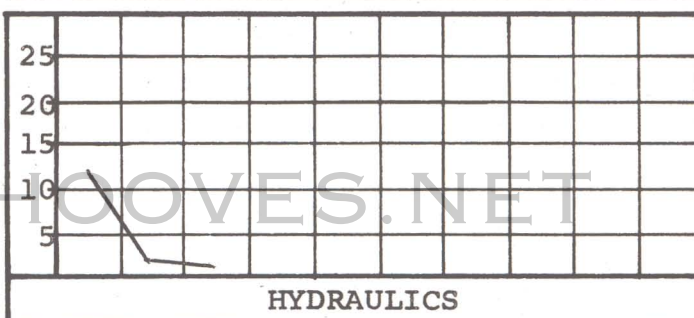
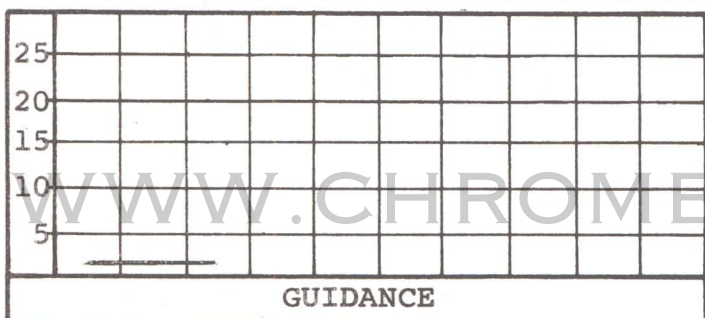
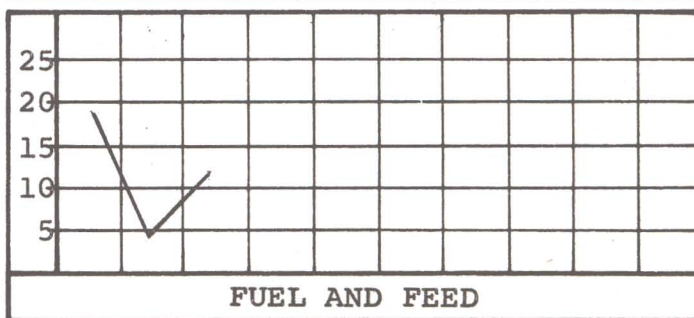
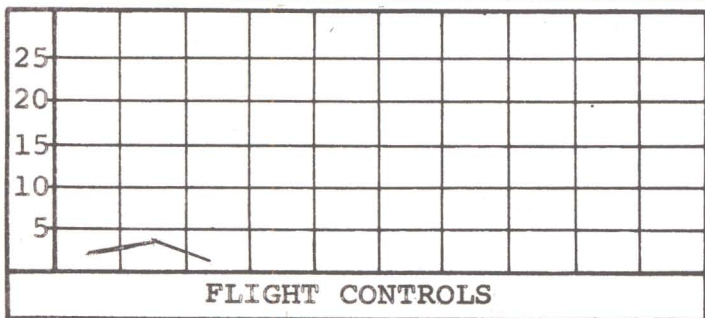
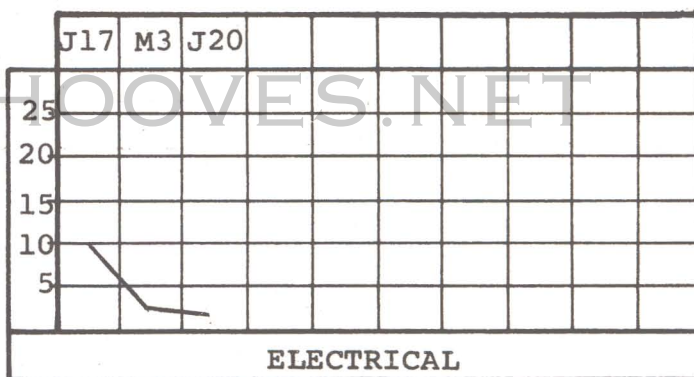
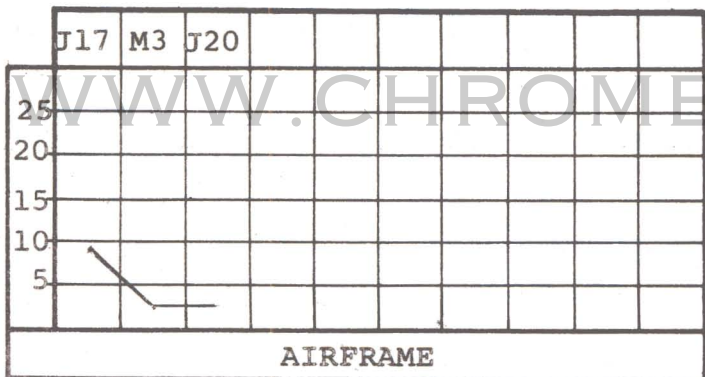
 Discrepancies
 Failures



GSE FAILURES AND DISCREPANCIES BY SYSTEMS

 Discrepancies
 Failures

FIGURE 3



AIRBORNE FAILURES AND DISCREPANCIES

THREE TITAN MISSILES

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DISTRIBUTION D

MASTER DISTRIBUTION LIST

PROCEDURES AND REPORTS

MARTIN COCOA

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