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MISDEM COMPUTER SIMULATION. VOLUME I. USER MANUAL.(U)
JUL 79 G L GALLIEN, S C SILVER N00123-75-C-1265
UNCLASSIFIED JTCG/AS-76-S-003 NL

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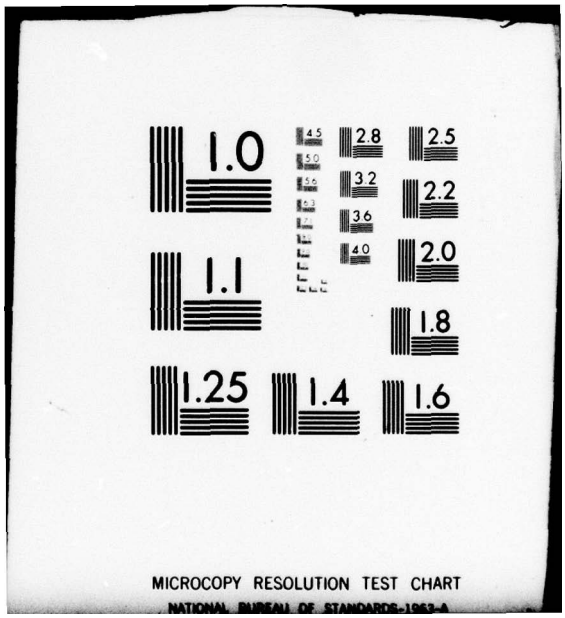
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REPORT JTCG/AS-76-S-003

FIELD OF INTEREST: 18.01

JTCG/AS

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MISDEM COMPUTER SIMULATION (VOLUME I, USER MANUAL)

Final Report

G.L. Gallien
S.C. Silver

July 1979

Prepared for

THE JOINT LOGISTICS COMMANDERS
JOINT TECHNICAL COORDINATING GROUP
ON
AIRCRAFT SURVIVABILITY

FOREWORD

Los Angeles Aircraft Division of Rockwell International personnel developed the Mission Damage Effectiveness Model computer simulation under Contract No. 1265R175900 issued by Armament Systems Incorporated, Anaheim, California. The work was performed between April 1975 and August 1976. Marvin Gove, Analysis Branch, NWC (Naval Weapons Center), acted as contract administrator for the documentation of the program under NWC Contract N00123-75-C-1265. Technical direction for the continued use of this program at NWC and the documentation maintenance will be provided by M. Gove.

The work was sponsored by the JTCG/AS as part of a 3-year TEAS (Test and Evaluation Aircraft Survivability) program. The TEAS program was funded by DDR&E/ ODDT&E. The effort was conducted under the direction of the JTCG/AS Survivability Assessment Subgroup, as part of JTCG/AS Project SA-6-02, *Trade Studies*.

The purpose of the user and analyst manuals is to provide a current documentation of the methodology and easy update maintenance for future program applications on a page-by-page basis.

G. L. Gallien and S. C. Silver, with the program managership of R. L. Moonan, were the key Rockwell International personnel responsible for the computer program development and documentation.

NOTE

This technical report was prepared by the Survivability Assessment Subgroup of the Joint Technical Coordinating Group in Aircraft Survivability in the Joint Logistics Commanders' organization. Because the Services' aircraft survivability development programs are dynamic and changing, this report represents the best data available to the subgroup at this time. It has been coordinated and approved at the JTCG subgroup level. The purpose of the report is to exchange data on all aircraft survivability programs, thereby promoting interservice awareness of the DoD aircraft survivability program under the cognizance of the Joint Logistics Commanders. By careful analysis of the data in this report, personnel with expertise in the aircraft survivability area should be better able to determine technical voids and areas of potential duplication or proliferation.

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REPORT DOCUMENTATION PAGE

READ INSTRUCTIONS BEFORE COMPLETING FORM

1. REPORT NUMBER: JTCG/AS-76-S-003	2. GOVT ACCESSION NO.
3. RECIPIENT'S CATALOG NUMBER	
4. TITLE (and Subtitle): MISDEM Computer Simulation (Volume I, User Manual)	5. TYPE OF REPORT & PERIOD COVERED: Final Report
6. PERFORMING ORG. REPORT NUMBER: NA-75-837	
7. AUTHOR(s): G. L. Gallien, S. C. Silver	8. CONTRACT OR GRANT NUMBER(s): N00123-75-C-1265
9. PERFORMING ORGANIZATION NAME AND ADDRESS: Rockwell International/Los Angeles Aircraft Division, 5701 W. Imperial Highway, Los Angeles, CA 90009	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS: JTCG/AS SA-6-02
11. CONTROLLING OFFICE NAME AND ADDRESS: JTCG/AS Central Office, Naval Air Systems Command, AIR-5204J, Washington, D. C. 20361	12. REPORT DATE: July 1979
	13. NUMBER OF PAGES: 272
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office): Naval Weapons Center, Systems Development Department (Code 4081), China Lake, CA 93555	15. SECURITY CLASS. (of this report): UNCLASSIFIED
	15a. DECLASSIFICATION/DOWNGRADING SCHEDULE

16. DISTRIBUTION STATEMENT (of this Report)

Approved for public release; distribution unlimited. Statement applied July 1979.

17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)

DDC RECEIVED SEP 7 1979 C

18. SUPPLEMENTARY NOTES

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

Survival Probability
Survivability
Mission Effectiveness
Effectiveness Model
Math Model

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

See reverse.

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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

Naval Weapons Center

MISDEM Computer Simulation (Volume I, User Manaul), by G. L. Gallien and S. C. Silver, Rockwell International, China Lake, CA, NWC, for Joint Technical Coordinating Group on Aircraft Survivability. July 1979, 272 pp. (JTCG/AS-76-S-003, publication UNCLASSIFIED.)

The MISDEM (Mission/Damage Effectiveness Model) is a survivability/vulnerability model that transforms aircraft subsystem probabilities of survival into probabilities of aircraft survival and probabilities of various aircraft response modes, such as flight, countermeasures, and weapon delivery modes having different degrees of effectiveness. The model may be used to compute measures of effectiveness, such as number of targets killed in a mission or a campaign. It is intended for use in measuring the impact of subsystem vulnerability on aircraft survival and effectiveness for unenhanced or protected subsystems.

This user manual contains: (1) a detailed description of the variables required to execute the program and the proper order of the input deck, (2) a detailed description of the output, complete with definitions of the printed data, and (3) a sample case.

CONTENTS

INTRODUCTION

The attrition of large numbers of fixed- and rotary-wing aircraft during the Southeast Asia conflict has focused attention on the requirement to provide design features that will enhance the survivability of these systems, curtailing the losses in hostile engagements. Implementing the design features, whether in initial design or the more costly retrofit programs, usually impacts aircraft weight and cost. Because of these impacts, trade studies are required to develop a prioritized listing of survival enhancement features that increase mission effectiveness. The priority list will identify those features that provide the greatest increment to improved effectiveness, and provide the data base from which a bound can be established on the amount of hardening that is effective from a mission-cost standpoint. The data base will also permit a determination of the best mix of hardening features when a budget constraint is imposed.

The MISDEM (Mission/Damage Effectiveness Model) is a simulation of an aircraft (and its subsystems) experiencing a time-series of events. The events may include targets to be attacked, threat weapons to be encountered, refueling, recovery at an air base, or certain events selected by the user.

MISDEM computes the progressive degradation in weapon system status resulting from subsystem failures due to reliability and/or enemy air defense operation for each offensive/defensive subfunction. The status of the system is measured in terms of the probability of each mode of response, where each mode requires a specific combination of operational and non-operational subsystems. MISDEM computations are based upon input time histories of offensive/defensive events and input offensive and defensive kill probabilities associated with each subfunction and mode. The probabilities of each mode are computed as MISDEM steps from one mission event to the next, in chronological sequence.

MISDEM evaluates the capability and effectiveness of an aircraft system throughout a mission scenario provided by the user. A schematic illustrating where MISDEM fits into the total mission effectiveness analysis procedure is displayed in Figure 1. MISDEM performs a statistical bookkeeping function, aggregating the detailed results of systems and operations analyses carried out for various threat elements and target combinations. The generation of the inputs may require the user to exercise several other simulations. The output of the model is several scalar effectiveness parameters that the user/analyst must assemble and combine to make a determination of mission effectiveness for his particular problem.

The model was initially developed to analyze the impact on system survivability and mission effectiveness of hardening various aircraft subsystems to the weapon effects produced by nuclear weapons. The model, as presented here, has been extended to include non-nuclear weapons effect capability. The approach is an extension of concepts developed by the WSEIAC (Weapon System Effectiveness Industry Advisory Committee)[1]. The basic theory of MISDEM has been described in other documents[2,3,4].

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[1] Air Force Systems Command. *Weapon System Effectiveness Industry Advisory Committee (WSEIAC).* Final Report of Task Group II, Andrews AFB, D.C. January 1965. (AFSC-TR-65-2 (Volume II)).

[2] Rockwell International (Los Angeles Aircraft Division). *Description of an Inproved Effectiveness Model,* November 1973, (TFD-74-62).

[3] Rockwell International (Los Angeles Aircraft Division). *Mission/Damage Effectiveness Model,* 1974, (NA-74-62).

[4] Joint Technical Coordinating Group/Aircraft Survivability. *MISDEM Computer Simulation (Volume II, Analyst Manual),* by G. L. Gallien and S. C. Silvez, Rockwell International. Washington, D.C., JTCG/AS, October 1978 (preliminary). 164 pp. (JTCG/AS-76-S-004, publication UNCLASSIFIED.)

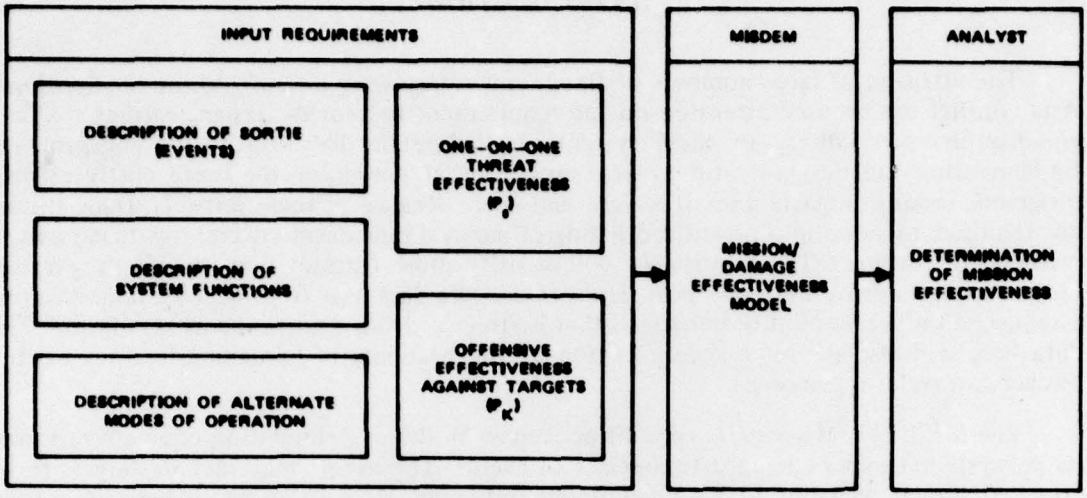

FIGURE 1. Schematic of Mission Effectiveness Analysis.

Figure 2 is a brief summary of the basic inputs and outputs to the MISDEM simulation. The mission scenario consists of a time/event series, in which the events are either offensive (aircraft system against the enemy) or defensive (enemy defensive system against the aircraft system). The aircraft system must be defined in terms of identifying electronic "black box" functions and mechanical functions that must perform at specified times during the mission (e.g., terrain-following radar, IR (infrared) target acquisition, engine must operate, and weapon launch). Each combination of electronic functions and mechanical functions define system modes of operation. The optimum mode would be to have all functions available and operating. However, due to enemy damage inflicted on the aircraft or system breakdown, some subsystems may not function and the aircraft must operate in a degraded mode. An example of a degraded mode of operation is the pilot's use of a visual navigation fix plus dead reckoning instead of utilizing inertial navigation with a radar update. In the situation where several functions are lost during the mission, the user may elect to abort the mission and determine the probability that the aircraft can be recovered.

Each defensive event requires the input of the effectiveness of the enemy's defensive system against each aircraft component/subsystem for each mode of operation. After each defensive event, MISDEM evaluates the various mission-related subsystems to define aircraft system survivability (for that event) and the system's capability for performing at the next event. The survivability and capability methodology also includes the loss of functions due to reliability factors.

The offensive events require the input of our weapon effectiveness for each target type for each possible mode of delivery (a degraded mode of delivery may be the use of fixed sights instead of the fire control computer). After each offensive event, target kill probability is evaluated to define aircraft system effectiveness for that event. This number is combined with those of preceding offensive events to define a cumulative mission effectiveness update.

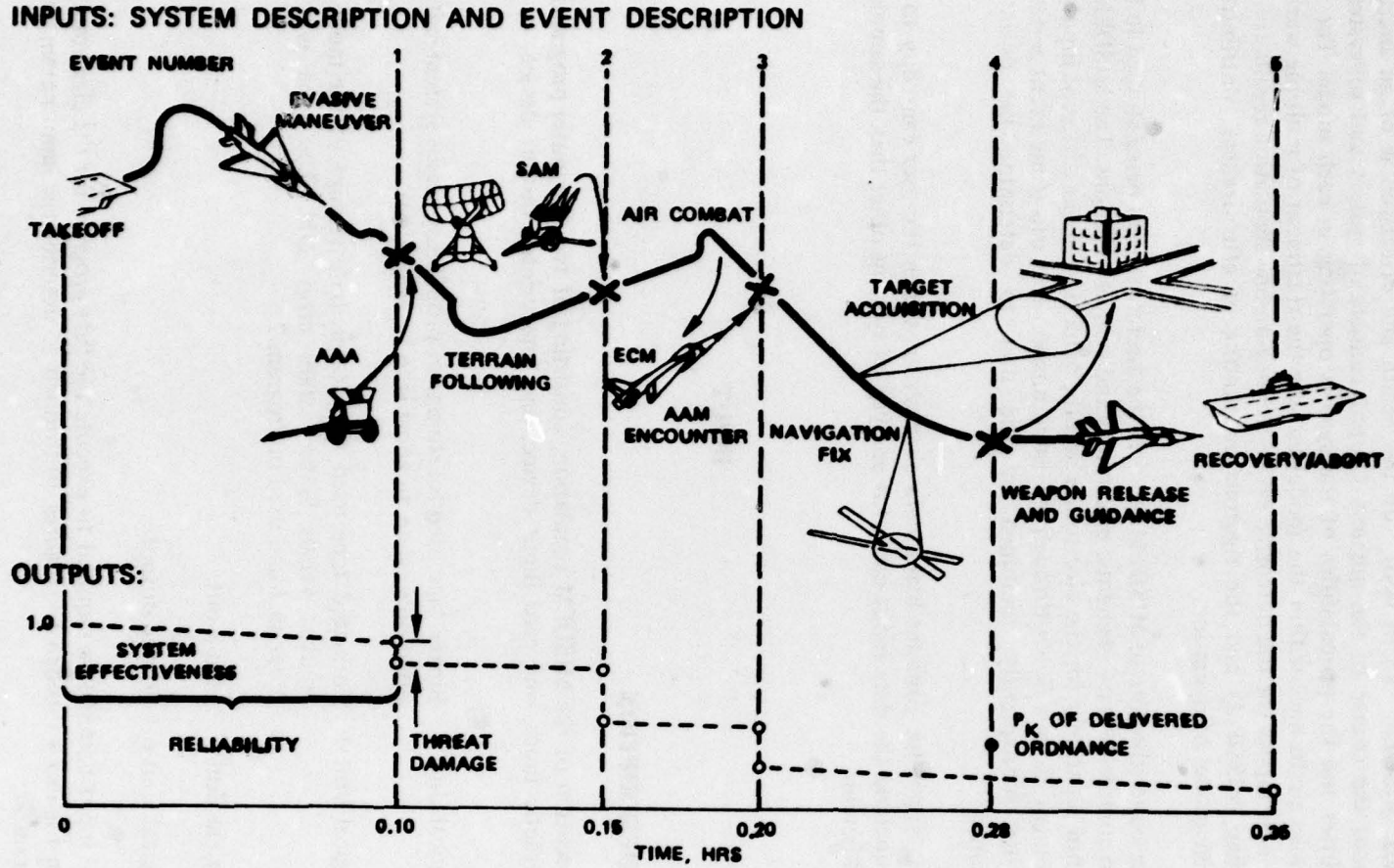

FIGURE 2. MISDEM Simulation Summary.

Thus, MISDEM "keeps book" on the health and effectiveness of an aircraft system throughout the course of the mission. Output consists of system and subsystem survival probabilities and the probabilities of the system operating in each mode. The important calculations performed within the model include the treatment of multiple warheads (the effectiveness inputs for the defensive events are one-on-one simulation results from a model other than MISDEM) and the rigorous accounting of effectiveness contributions from alternative modes of operation.

The basic structure of MISDEM requires the aircraft system being studied to be divided into two complementary elements: electronics and vehicle functions. The MISDEM program is then run separately for the electronics and the vehicle, utilizing different inputs for each. Each element is thus *flown* through the same mission scenario (time/event series) and the results are subsequently combined by the user to determine the overall mission effectiveness.

The Appendix contains blank data checksheets which the user can copy to use as an aid in punching the data input cards for analysis of systems other than the sample problem included herein.

INPUT

INPUT DESCRIPTION

Execution of the MISDEM simulation, consisting of two computer programs, requires two magnetic tapes, one card input device, and one printed output device, as described below.

Logical Unit 3	Binary tape used for storage of probability versus system state array PJ (used only when an abort is to be evaluated).
Logical Unit 4	Formated tape used for intermediate storage of the mode sequence number versus system state array IJN. The tape is created in Program 1 and used in Program 2.
Logical Unit 5	Card input.
Logical Unit 6	Printed output.

The input parameters required to execute the first program for the electronics case are shown in Figures 4 through 13. Figures 14 through 25 describe the input parameters needed for Program 2.

Program 1

INPUT OPTION CARD					CARD: 1
	A B C D				
ID	PARA	UNITS	FORMAT	COLUMNS	DESCRIPTION
A	NZT	ND*	I3	1–3	Maximum number of zeros (0) in the KW array
B	MCR	ND	I3	4–6	Ordinal number of crew
C	MPR	ND	I3	7–9	Ordinal number of propulsion system
D	MAV	ND	I3	10–12	Ordinal number of air vehicle
					NOTE 1: MCR, MPR, and MAV should be left blank or zero (0) for a vehicle case only.
					NOTE 2: Columns 13–80 are unused.
	*Non-Dimensional				CARD: 1

FIGURE 3. Program 1 Input Option Card.

Program 1

SUBSYSTEM DESCRIPTION – CARD A					CARD: 2A
	A	B		C	
ID	PARA	UNITS	FORMAT	COLUMNS	DESCRIPTION
A	M	ND	I3	1–3	Original number of subsystem element. Also used as flag. Maximum value is 23 unless used as a flag.
B	DNAME	ND	8A4	5–36	Subsystem Name
C	TBFM	Hours	F10.2	37–46	Mean Time Between Failures
					NOTE 1: TBFM should be given a value of 10,000 for vehicle case only.
					NOTE 2: Columns 4 and 47–80 are unused.

CARD: 2A

FIGURE 4. Program 1 Subsystem Description–Card A.

Program 1

SUBSYSTEM DESCRIPTION – CARD B					CARD: 2B
	A_1	A_2	A_3	A_4	B
ID	PARA	UNITS	FORMAT	COLUMNS	DESCRIPTION
A	HDMT	ND	4E12.5	1–48	Damage threshold for the various damage mechanism
A_1	HDMT (1)	ND	E12.5	1–12	Gamma dot damage threshold
A_2	HDMT (2)	ND	E12.5	13–24	Neutron damage threshold
A_3	HDMT (3)	ND	E12.5	25–36	Blast damage threshold
A_4	HDMT (4)	ND	E12.5	37–48	Thermal damage threshold
B	ONOFF	ND	A2	65–66	A flag used to include or exclude a set from the subsystem T = include F = exclude NOTE 1: HDMT array not used in vehicle case. NOTE 2: Columns 49–64 and 67–80 are unused.
					CARD: 2B

FIGURE 5. Program 1 Subsystem Description–Card B.

Program 1

SUBSYSTEM DESCRIPTION FLAG CARD					CARD: 3
	A				
	1 2 3	4 5 6	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80			
ID	PARA	UNITS	FORMAT	COLUMNS	DESCRIPTION
A	M	ND	I3	1–3	A flag M = 999 signifies end of subsystem description cards NOTE 1: This card is always followed by a blank card. NOTE 2: Columns 4–80 are unused.

CARD: 3

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FIGURE 6. Program 1 Subsystem Description Flag Card.

Program 1

EVENT DESCRIPTION CARD					CARD: 4
	A	B	C	D	E
ID	PARA	UNITS	FORMAT	COLUMNS	DESCRIPTION
A	IEVENT	ND	I3	1–3	Event Number
B	T2	Hours	F6.2	5–10	Time of Current Event
C	NC	ND	I3	12–14	A flag NC = 0 signifies offensive (or other non-defensive) event NC = 1, 2, 3, 4, or 5 signifies nuclear defensive event NC = 6 signifies fragmentation event NC = 7 signifies vehicle simulation
D	WEAPN	ND	7A4	16–43	Description of weapon used, whether event is offensive or defensive
E	MDT	ND	L1	46	Mission description T = Scenario Constraint Imposed F = Scenario Constraint not Imposed
					NOTE 1: WEAPN and MDT not used in vehicle case.
					NOTE 2: Columns 4, 11, 15, 44–45, and 47–80 are unused.
					NOTE 3: Maximum value for IEVENT is 10.
					CARD: 4

FIGURE 7. Program 1 Event Description Card.

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Program 1

NUCLEAR DEFENSIVE EVENT – NUMBER OF TABLE LOOK-UP POINTS	CARD: 5

A

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

ID	PARA	UNITS	FORMAT	COLUMNS	DESCRIPTION
A	NPOINT	Integer	I3	1–3	Number of points in the miss distance damage level table look-up. NOTE 1: This card should not be included for a vehicle case. NOTE 2: Columns 4–80 are unused.

CARD: 5

FIGURE 8. Program 1 Nuclear Defensive Event–Number of Table Look-Up Points.

Program 1

NUCLEAR DEFENSIVE EVENT – NUCLEAR WARHEAD CHARACTERISTICS CARD A	CARD: 6A

	A	B_1	B_2	B_3	B_4	B_5	B_6
1 2 3	4 5	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	51 52 53 54 55 56 57 58 59 60 61 62 63 64 65	66 67 68 69 70 71 72 73 74 75 76 77	78 79 80

ID	PARA	UNITS	FORMAT	COLUMNS	DESCRIPTION
A	ISUB (I)	ND	I3	1–3	Damage Mechanism type No. (I) associated with gamma dot, neutrons, blast and thermal.
B	CURVE (I,J)	**	6E12.5	6–77	Data points for the miss distance versus damage level curve for this damage mechanism type number. J = 1 to 2* NPOINT (see Card 5) First NPOINT numbers are damage level (in increasing order). Second NPOINT numbers are miss distance. Repeat for all I.
B_1	CURVE (I,1)	**	E125	6–17	** Units for CURVE are a function of damage mechanism used and are defined as follows: Gamma dot: rads/second Neutron: neutrons/cm^2 Blast: lb/$inch^2$ Thermal: calories/$inch^2$
⋮	⋮	⋮	⋮	⋮	
B_6	CURVE (I,6)	**	E12.5	66–77	

NOTE 1: Values for the parameter curve may be continued on next four cards if necessary.

NOTE 2: This card should not be included for a vehicle case.

NOTE 3: Columns 4–5 and 78–80 are unused.

CARD: 6A

FIGURE 9. Program 1 Nuclear Defensive Event–Nuclear Warhead Characteristics.

Program 1

NUCLEAR DEFENSIVE EVENT – NUCLEAR WARHEAD CHARACTERISTICS CARD B					CARD: 6B
	B_7	B_8	B_9	B_{10}	B_{11}	B_{12}
	1 2 3 4 5	7 8 9 10 11 12 13 14 15 16 17	18 19 20 21 22 23 24 25 26 27 28	29 30 31 32 33 34 35 36 37 38 39	40 41 42 43 44 45 46 47 48 49 50	51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

ID	PARA	UNITS	FORMAT	COLUMNS	DESCRIPTION
B_7	CURVE (I,7)	**	E12.5	6–17	Data points for the miss distance versus damage level curve for this damage mechanism type number continued.
B_{12}	CURVE (I,12)	**	E12.5	66–77	** Units are defined on card 6A

NOTE 1: This card may be duplicated three more times if necessary.

NOTE 2: This card should not be included for a vehicle case.

NOTE 3: Columns 1–5 and 78–80 are unused.

CARD: 6B

FIGURE 10. Program 1 Nuclear Defensive Event–Nuclear Warhead Characteristics–Card B.

SUBFUNCTIONAL FLOW EVENT DESCRIPTION -- CARD A					CARD: 7A
	A B C D E F G H				
ID	PARA	UNITS	FORMAT	COLUMNS	DESCRIPTION
A	LF(I)	ND	I3	1–3	Ordinal function number of current event (must be ⩽10)
B	LLF(K)	ND	I3	4–6	Ordinal number of mode in current event (must be ⩽27)
C	LQ (I,K)	ND	I3	7–9	Next function number, if current subfunction mode can be accomplished
D	LLQ (I,K)	ND	I3	10–12	Next mode number, if current subfunction mode can be accomplished.
E	FNAME (I,K,J)	ND	10A4	14–53	Alphanumeric name of subfunction -- mode where I = subfunction index K = mode index J = 40 columns allotted for description
F	MQ (I, K)	ND	I3	55–57	Next function number if current function subfunction does not meet requirements of the "mission descriptor" MDT.
G	MMQ (I,K)	ND	I3	58–60	Next subfunction number if current function does meet requirements of MDT
H	MD (I,K)	ND	L1	62	Required mission condition for function/subfunction (relates to scenario constraint, MDT)
					NOTE 1: LLF (K) = 99 signifies end of this function; blank 7B card is required. NOTE 2: LF(I) = 999 signifies end of this event; blank 7B card is required. NOTE 3: Columns 13, 54, 61, and 63–80 are unused.

CARD: 7A

FIGURE 11. Subfunctional Flow Event Description–Card A.

SUBFUNCTIONAL FLOW EVENT DESCRIPTION – CARD B					CARD: 7B
	A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15 A16 A17 A18 A19 A20 A21 A22 A23				
ID	PARA	UNITS	FORMAT	COLUMNS	DESCRIPTION
A	LMAT (I,K,J)	ND	2313	1–69	Ordinal numbers of subsystems needed for the I,J function–subfunction read in to show location of a (1) in LMA. NOTE: Columns 70–80 are unused.

CARD: 7B

FIGURE 12. Subfunctional Flow Event Description–Card B.

SUBFUNCTIONAL EVENT FLOW FLAG CARD					CARD: 8
	A				
ID	PARA	UNITS	FORMAT	COLUMNS	DESCRIPTION
A	M	ND	I3	1–3	M = 999 signifies end of system description cards. NOTE 1: This card is used only if LF(I) = 10 (see card 7A) NOTE 2: This card is always followed by a blank card. NOTE 3: Columns 4–40 are unused.

CARD: 8

FIGURE 13. Subfunctional Event Flow Flag Card.

INPUT OPTION CARD — CARD: 9

A B C D E F

ID	PARA	UNITS	FORMAT	COLUMNS	DESCRIPTION
A	NZT	ND	I3	1–3	Maximum number of zeros (0) in the KW array (see additional description on Card 1)
B	MCR	ND	I3	4–6	Ordinal number of crew
C	MPR	ND	I3	7–9	Ordinal number of propulsion system
D	MAV	ND	I3	10–12	Ordinal number of air vehicle
E	MLTH	ND	I3	13–15	Mission length measured from initiation of first threat exposure
F	NABORT	ND	I3	16–18	Ordinal number of the event at which the abort path is initiated

NOTE 1: MCR, MPR, and MAV not used in vehicle case.

NOTE 2: NABORT should be left blank or zero (0) for an electronics case only.

NOTE 3: NZT must be equal to the number of bits in MLTH for the vehicle case only.

NOTE 4: Columns 19–80 are unused.

CARD: 9

FIGURE 14. Program 2 Input Option Card.

Program 2

SUBSYSTEM DESCRIPTION -- CARD A					CARD: 10A
	A		B		C
ID	PARA	UNITS	FORMAT	COLUMNS	DESCRIPTION
A	M	ND	I3	1–3	Ordinal number of subsystem element. Also used as flag. Maximum value is 23 unless used as a flag.
B	DNAME	ND	8A4	5–36	Subsystem Name
C	TBFM	Hours	F10.2	37–46	Mean Time Between Failures
					NOTE 1: Columns 4 and 47–80 are unused.
					NOTE 2: TBFM should be given a value of 10,000 for vehicle case only.

CARD: 10A

FIGURE 15. Program 2 Subsystem Description–Card A.

Program 2

SUBSYSTEM DESCRIPTION -- CARD B	CARD: 10B

A_1 A_2 A_3 A_4 B C D

ID	PARA	UNITS	FORMAT	COLUMNS	DESCRIPTION
A	HDMT	ND	4E12.5	1–48	Damage threshold for the various damage mechanisms
A_1	HDMT (1)	ND	E12.5	1–12	Gamma dot damage threshold
A_2	HDMT (2)	ND	E12.5	13–24	Neutron damage threshold
A_3	HDMT (3)	ND	E12.5	25–36	Blast damage threshold
A_4	DHMT (4)	ND	E12.5	37–48	Thermal damage threshold
B	TMN	Hours	F6.2	51–56	Time that subsystem is made functional (i.e., turned on)
C	TMF	Hours	F6.2	57–62	Time that subsystem is turned off
D	ONOFF	ND	A2	65–66	A flag used to include or exclude a set from the subsystem T = include F = exclude

NOTE 1: HDMT not used in vehicle case.

NOTE 2: TMN should be made zero for vehicle case only; TMF should be made as great as the mission length for the vehicle case only.

NOTE 3: ONOFF should be left blank for the vehicle case.

NOTE 4: Columns 49–50, 63–64, and 67–80 are unused.

CARD: 10B

FIGURE 16. Program 2 Subsystem Description–Card B.

Program 2

SUBSYSTEM DESCRIPTION FLAG CARD					CARD: 11
	A				
ID	PARA	UNITS	FORMAT	COLUMNS	DESCRIPTION
A	M	ND	I3	1–3	A flag M = 999 signifies end of subsystem description cards NOTE 1: This card is always followed by a blank card. NOTE 2: Columns 4–80 are unused.

CARD: 11

FIGURE 17. Program 2 Subsystem Description Flag Card.

Program 2

EVENT DESCRIPTION CARD				CARD: 12
A	B	C	D	E

ID	PARA	UNITS	FORMAT	COLUMNS	DESCRIPTION
A	IEVENT	ND	I3	1–3	Event Number
B	T2	Hours	F6.2	5–10	Time of Current Event
C	NC	ND	I3	12–14	A flag NC = 0 signifies offensive event NC = 1, 2, 3, 4, or 5 signifies nuclear defensive event NC = 6 signifies fragmentation event NC = 7 signifies vehicle simulation
D	WEAPN	ND	7A4	16–43	Description of weapon used, whether event is offensive or defensive
E	MDT	ND	L1	46	Mission description T = Scenario Constraint Imposed F = Scenario Constraint not Imposed

NOTE 1: WEAPN and MDT are not used in the vehicle case.

NOTE 2: Columns 4, 11, 15, 44–45, and 47–80 are unused.

CARD: 12

FIGURE 18. Program 2 Event Description Card.

Program 2

NUCLEAR DEFENSIVE EVENT -- NUMBER OF TABLE LOOK-UP POINTS	CARD: 13

A

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

ID	PARA	UNITS	FORMAT	COLUMNS	DESCRIPTION
A	NPOINT	Integer	I3	1–3	Number of points in the miss distance damage level table look-up. NOTE 1: This card should not be included for a vehicle case. NOTE 2: Columns 4--80 are unused.

CARD: 13

FIGURE 19. Program 2 Nuclear Defensive Event--Number of Table Look-Up Points.

Program 2

NUCLEAR DEFENSIVE EVENT – NUCLEAR WARHEAD CHARACTERISTICS CARD A	CARD: 14A

A | B_1 | B_2 | B_3 | B_4 | B_5 | B_6

ID	PARA	UNITS	FORMAT	COLUMNS	DESCRIPTION
A	ISUB (I)	ND	I3	1-3	Damage Mechanism type No. (I) associated with gamma dot, neutrons, blast and thermal
B	CURVE (I-J)	**	6E12.5	6–77	Data points for the miss distance versus damage level curve for this damage mechanism type number. J = 1 to 2 NPOINT (see Card 5) first NPOINT numbers are damage level (in increasing order) second NPOINT numbers are miss distance. Repeat for all I.
B_1	CURVE (I,1)	**	E12.5	6–17	
⋮	⋮	⋮	⋮	⋮	** Units are defined on Card 6A
B_6	CURVE (I,6)	**	E12.5	66–77	

NOTE 1: Values for the parameter curve may be continued on next four cards if necessary.

NOTE 2: This card should not be included for a vehicle case.

Columns 4–5 and 78–80 are unused.

CARD: 14A

FIGURE 20. Program 2 Nuclear Defensive Event–Nuclear Warhead Characteristics–Card A.

Program 2

NUCLEAR DEFENSIVE EVENT – NUCLEAR WARHEAD CHARACTERISTICS CARD B					CARD: 14B
	B_7	B_8	B_9	B_{10}	B_{11}	B_{12}

ID	PARA	UNITS	FORMAT	COLUMNS	DESCRIPTION
B_7	CURVE (1,7)	**	E12.5	6–17	Data points for the miss distance versus damage level curve for this damage mechanism type number continued.
⋮	⋮	⋮	⋮	⋮	** Units are defined on card 6A
B_{12}	CURVE (1,12)	**	E12.5	66–77	

NOTE 1: This card may be duplicated three more times if necessary.

NOTE 2: This card should not be included for a vehicle case.

NOTE 3. Columns 1–5 and 78–80 are unused.

CARD: 14B

FIGURE 21. Program 2 Nuclear Defensive Event–Nuclear Warhead Characteristics–Card B.

CAPABILITY STATE PROBABILITY INPUTS					CARD: 15
	A	B	C		
ID	PARA	UNITS	FORMAT	COLUMNS	DESCRIPTION
A	CEP(J)	Feet	E12.5	1–12	Threat circular error probable for Jth mode sequence
B	FA(J)	ND	E12.5	13–24	Expected number of weapons arriving in target vicinity, each characterized by CEP(J)
C	PK(J)	ND	E12.5	25–36	Weapon delivery effectiveness associated with the Jth mode sequence
					NOTE 1: CEP(J), FA(J), and PK(J) are not used in the vehicle case.
					NOTE 2: Columns 37–80 are unused.
					CARD: 15

FIGURE 22. Capability State Probability Inputs.

WARHEAD TRAJECTORY OFFSET PATTERNS						CARD: 16
	A B	C_1	C_2	C_3	C_4	C_5 C_6 C_7 C_8 C_9 C_{10}
	1 2 3 4 5 6	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80				

ID	PARA	UNITS	FORMAT	COLUMNS	DESCRIPTION
A	LMAX	ND	I3	1–3	Number of different elevation angles associated with warhead offset
B	KMAX	ND	I3	4–6	Number of different offset zones
C	R(K)	Feet	10F7.0	7–76	Radius associated with Kth offset zone
					NOTE 1: This card should not be included for a vehicle case.
					NOTE 2: Columns 77–80 are unused.

CARD: 16

FIGURE 23. Warhead Trajectory Offset Pattern.

DEFENSIVE EVENT SUBSYSTEM KILL PROBABILITIES					CARD: 17
	A1	A2	A3	A4	A5 A6 A7 A8
ID	PARA	UNITS	FORMAT	COLUMNS	DESCRIPTION
A	PCKILL(M,L,K)	ND	8E10.4	1–80	Defensive event kill probability on Mth subsystem, for Lth elevation and Kth offset zone. Repeat for all subsystems by elevation for each offset zone. i.e., PCKILL (1,1,1), ... , PCKILL (1,1,KMAX) PCKILL (1,LMAX,1), ... , PCKILL(1,LMAX,KMAX) PCKILL (INCEI,LMAX,1), ... , PCKILL (INCEI,LMAX,KMAX) NOTE: This card should not be included in a vehicle case.

CARD: 17

FIGURE 24. Defensive Event Subsystem Kill Probabilities.

TIME OF FLIGHT AND DETECTION PROBABILITY DISTRIBUTIONS					CARD: 18
	A_1 B_1 B_2 B_3 B_4 B_5 B_6 B_7 B_8 B_9 B_{10} B_{11} B_{12} B_{13} B_{14} B_{15} B_{16}				
ID	PARA	UNITS	FORMAT	COLUMNS	DESCRIPTION
A	FTFNN(I)	ND	F3.2	1–3	Time of flight remaining cumulative probability at time I (measured in mission segments)
B	FTDNN(I,J)	ND	16F3.2	4–51	Time of detection remaining probability at time J (measured in mission segments) for a remaining time of flight of I. Repeat for all times of flight up to and including MLTH (every event) i.e., FTDNN(I,1), . . . , FTDNN(I,J) NOTE 1: This card should not be included for an electronics case. NOTE 2: Columns 52–80 are unused.

FIGURE 25. Time of Flight and Detection Probability Distributions.

CARD: 18

Changes in intepretation and types of data are necessary for the vehicle case. These are indicated in the appropriate places.

There are two basic modes of operation of the two programs, called *electronics mode* and *vehicle mode*. The required input data are somewhat different, even though in some cases the same variable names are used. Either mode may be run, independent of the other.

The electronics case is run through Programs 1 and 2 in consecutive order and then the vehicle case is run through both programs. It is not possible, in this version of the programs, to stack the data to run the electronics and then the vehicle in Program 1 and then follow that run with the corresponding electronics and vehicle data in Program 2.

There are also differences in the program flow for the two modes, controlled by the use of the variable NC. For the vehicle mode, the user must set NC = 7 for all events. For the electronics mode, the user must select NC = 6 for conventional warhead damage simulation, NC = 1 to 5 for nuclear warhead damage simulation, and NC = 0 for non-defensive events such as target attack and landing.

The user may want to determine the aircraft arrival probability at home base, no matter how the aircraft got there. In the vehicle mode, the program allows the user to define abort paths to home base. Each such path is defined as starting at a point in the basic (normal) mission corresponding to an event, and consists of a limited number of events along the way home defined in the same manner as in the normal mission path. The procedure for obtaining base arrival probability is as follows: The user first runs Programs 1 and 2 in the normal vehicle mode. This results in a tape generated on unit 3 containing the vehicle state probabilities at each event. The user then re-runs Programs 1 and 2, starting with the first event and following a new time/event series for recovering the damaged aircraft. This method of utilizing the two programs is called the "abort option". The user specifies the event number (IEVENT) for that abort by specifying NABORT = (IEVENT). (The default is NABORT = 0, which will result in a "normal" (i.e., non-abort) simulation.) This procedure is repeated for all possible abort paths. The arrival probability is the sum of all arrival probabilities computed from the abort and normal paths.

The data flow for the abort case is illustrated in Figure 26. For the abort option, both sides of Figure 26 are applicable, whereas for the electronics mode, or the usual vehicle mode, only the left side is applicable, and unit 3 is not needed.

DATA DECK SETUP

Figure 27 illustrates the data deck setups to be used to ensure proper execution of the simulation of both programs.

PROGRAM DECK SETUP

Figure 28 illustrates sample source and object deck setups for Programs 1 and 2.

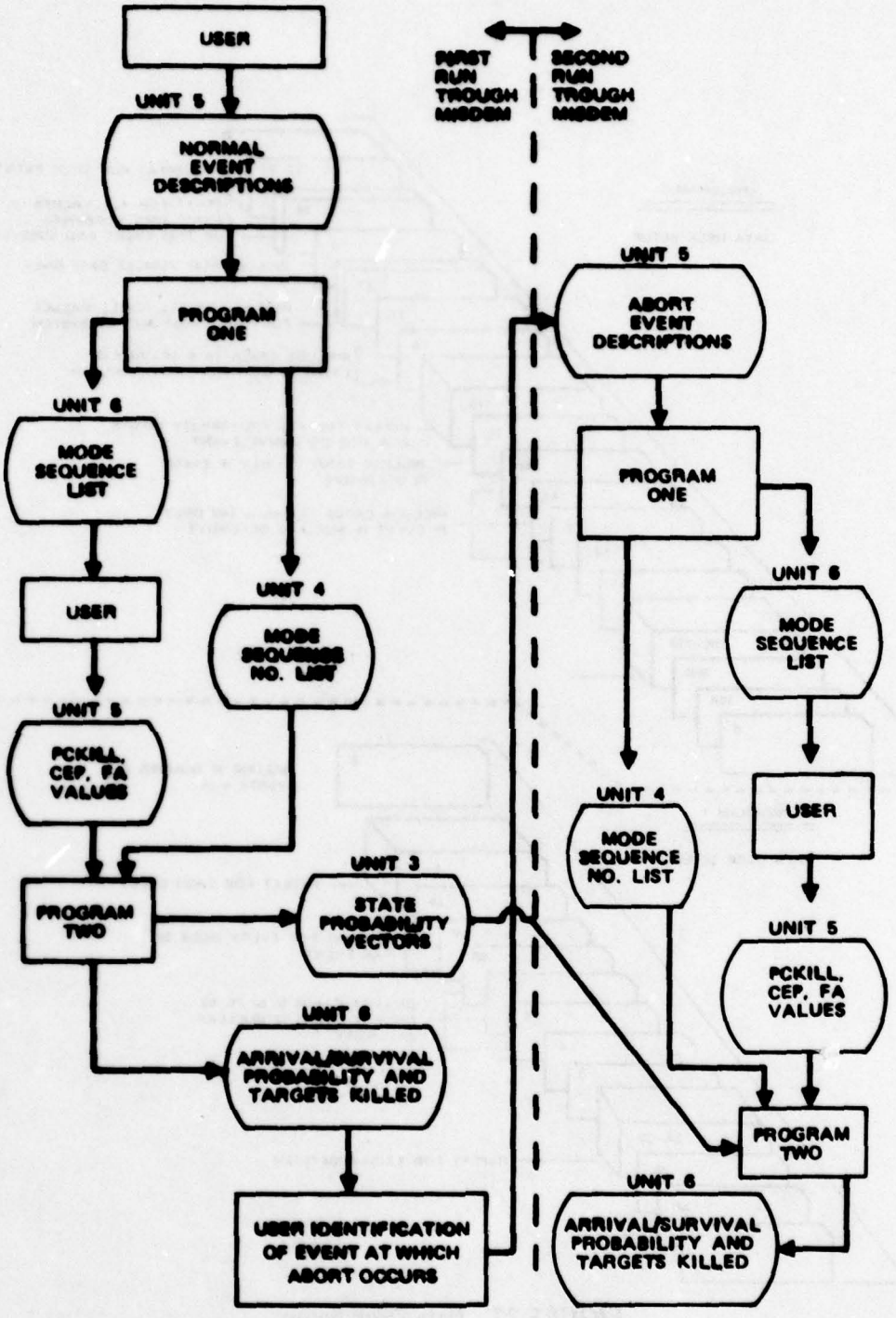


FIGURE 26. Data Flow for the General Case (Abort Mode).

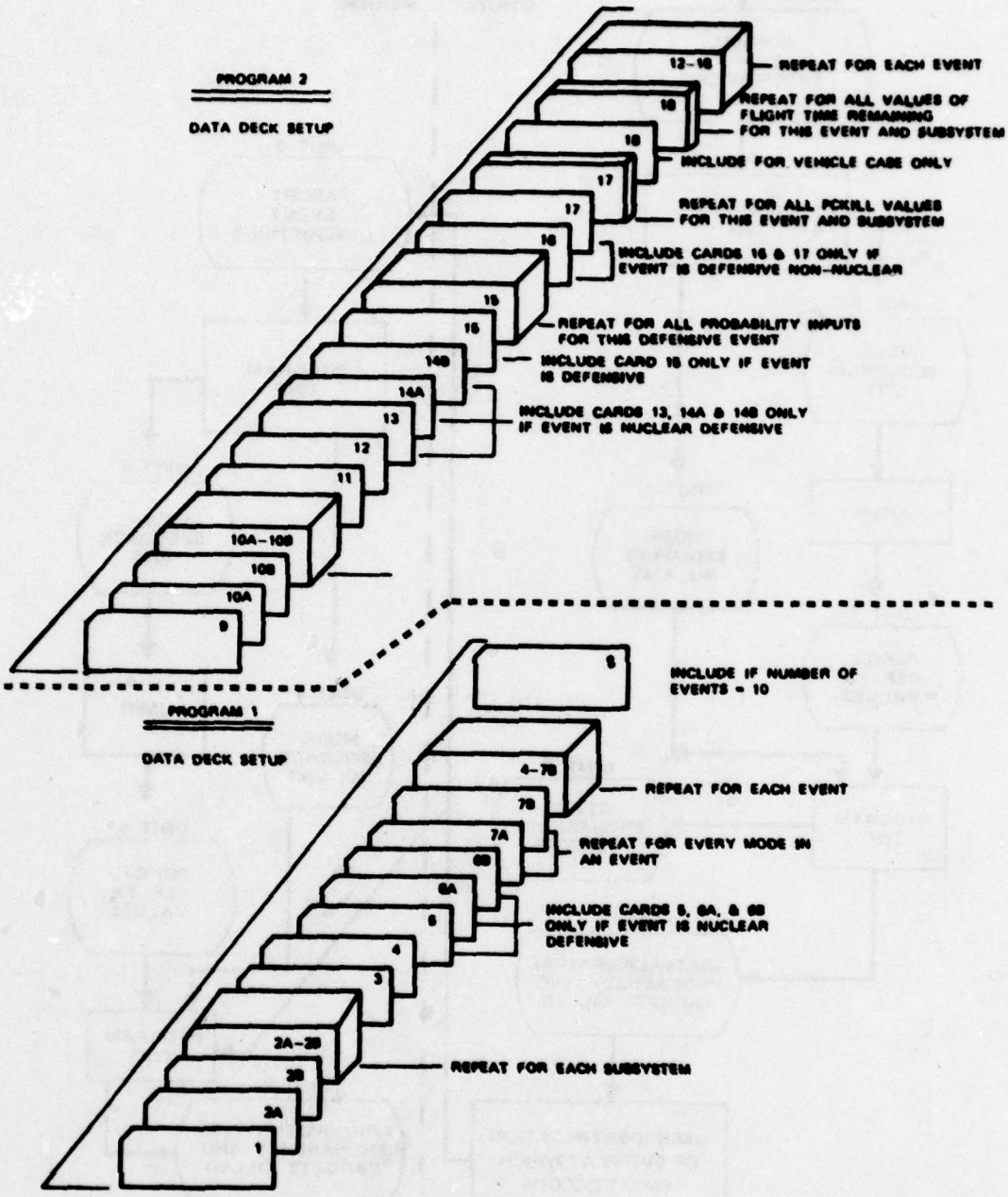


FIGURE 27. Data Deck Setup.

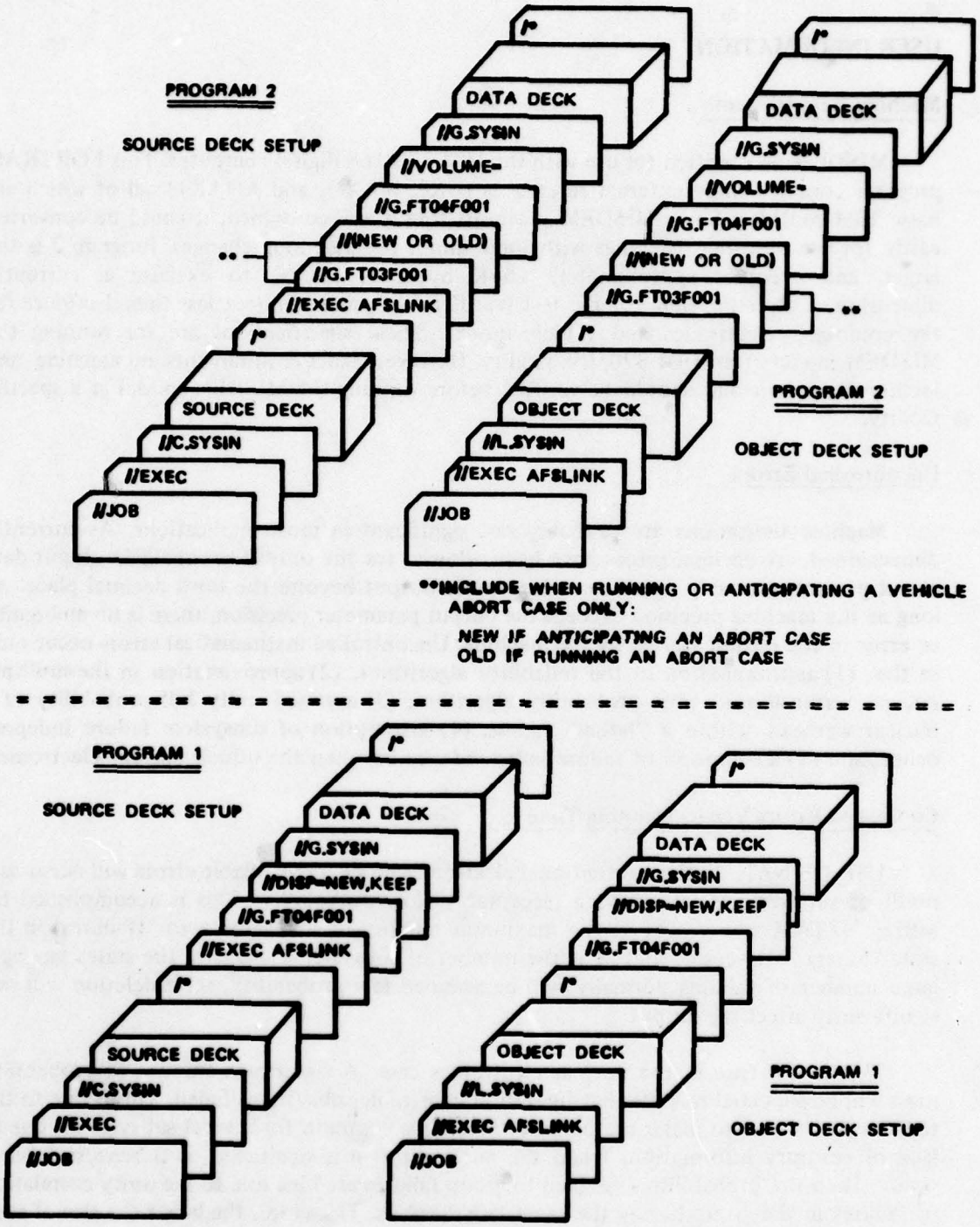


FIGURE 28. Program Deck Setup, IBM System 370/168 Operating System.

USER INFORMATION

Machine Requirements

MISDEM was written for use with the IBM 370/168 digital computer. This FORTRAN program contains three external references (EXP, MAXO, and AMAX1), all of which are basic IBM routines. Since MISDEM is almost totally self-contained, it could be converted easily for use on other machines with some minor programming changes. Program 2 is the larger, and occupies approximately 168K bytes of storage to execute as currently dimensioned. Running time for the test (verification) cases required less than 1 minute for the combined electronics and vehicle modes. These specifications are for running the MISDEM model at an IBM 370/168 facility. However, exact requirements are machine- and facility-dependent and should be verified before running the MISDEM model at a specific facility.

Uncontrolled Errors

Machine limitations are probably not significant in most applications. As currently dimensioned, six decimal places have been allowed for the output probabilities. Input data are at present, probably resulting in inaccurate output beyond the third decimal place. As long as the machine precision exceeds the output parameter precision, there is no ambiguity or error in the output caused by the machine. Uncontrolled mathematical errors occur only in the: (1) approximation in the reliability algorithms, (2) approximation in the multiple nuclear warhead zone miss probability algorithm, (3) assumed unity kill probability of a nuclear warhead within a "lethal" radius, (4) assumption of subsystem failure independence, and (5) assumption of failure independence between the vehicle and the electronics.

Controlled Errors Versus Running Time

USE OF NZT. In the conventional electronics mode, controllable errors will occur as a result of suppressing states having (acceptably) low probability. This is accomplished by setting NZT<M where NZT is the maximum number of allowable zeros (failures) in the state (binary -M) vector, and M is the number of subsystems. Because the states having a large number of failures normally will be assigned low probability, their deletion will not significantly affect the output.

This is not true in the nuclear electronics case. A significant amount of probability mass will be allocated to states having several vulnerable subsystems failed. This is due to the tendency of a user to make the damage thresholds common for several subsystems, due to lack of contrary information. When the nuclear threat is significant, it is because failures occur. Then the probabilities assigned to group failures are high due to the unity correlation of failures in the group having the same lethal radius. Therefore, the larger the size of such groups, the larger the value of NZT must be to ensure accounting for significant probability mass.

The use of NZT<M is a way to reduce machine use time in electronics modes, so its choice is important. The error caused by NZT<M is difficult to predict, but it can be (in some cases) observed in the output by adding all values of PCAP(J) (mode sequence probability) at a given event. If the sum falls short of 1.0, the defect is due to NZT. The cases where this technique works is where states have not been suppressed by the subsystem criticality (MCR, MPR, MAV) tests (which would otherwise result in an additional loss of probability mass, that would thereby hide the loss caused by NZT alone).

The variable NZT cannot be used to reduce the running time in the vehicle mode because it would introduce large errors as follows. If NZT is less than INCEI (the size of the state vector), the state having all zeros is suppressed. This is the state that causes flight failure in a single event and could carry a significant probability mass, if the damage mechanisms are relatively quick.

QUANTIZATION ERRORS. The use of a relatively small number of events to represent a larger number of events in the real world results in time-quantization errors. For the electronics case, the simulated system is not allowed to change its response to encounters (i.e., employ a different mode sequence) except at the specified event time; whereas in the real world, the response could have changed several times in the time interval. The state probability distribution could be in error at the end of the interval for defensive events, as a result of the instability caused by the feedback of countermeasures effectiveness to survivability of countermeasures. When precise results are required, the quantization interval can be decreased to suit. When the mission results are within desired values of the apparent asymptotic values, the interval need be decreased no further. The running time increase is directly proportional to the number of events, when it is large.

In the vehicle mode, there is a quantization error due to scenario event times possibly not coinciding with the regular intervals required in this mode. One cure for this is the use of a larger number of events, although the impact on running time is much greater than in the electronics case. The running time in the vehicle case is proportional to 2 exp (4 $\log_2$ N) for large N, where N is the number of events. Another possible cure for this problem is manipulation of the input data to provide flight time and abort-detection time distribution functions at regular intervals, which are then compatible with MISDEM.

USE OF MCR, MPR, AND MAV. The use of critical subsystems (MCR, MPR, and MAV) in the electronics case, to reduce running time, suppresses those states having zeros in those subsystems, and results in a loss of probability mass in those modes not requiring such subsystems. If these latter modes are not considered significant to the output, the error is acceptable. The three variables (MCR, MPR, and MAV) are identical in function.

OUTPUT

NORMAL OUTPUT

The output of the MISDEM simulation consists of two major groups of printed data for the electronics and vehicle simulations. The first group represents the output from the first progam and the second group from the second program. All output is fixed in format. The output values discussed here were generated by the sample cases discussed in the *SAMPLE PROBLEM* section herein. The output varies slightly depending upon the mode (electronics or vehicle) in which the programs are used.

Output generated by the first program consists of three separate tables; the same is true of the second program.

Sample output tables for the electronics case are shown in Figures 29 through 40. The electronics sample system description table is illustrated in Figure 29. The variable names MTBF and THDM used in that table are defined in Figure 30. Figure 31 illustrates the event description table. Figure 32 defines the variables used in Figure 31, while Figure 33 shows the subfunctional flow table. This figure is self-explanatory. Figure 34 illustrates the electronics Program 2 system description table. Since this table is the same as shown in Figure 29, the definitions in Figure 30 hold true for this table also. Figures 35 through 40 illustrate and define the variables used in the electronics effectiveness summary for non-nuclear defensive, nuclear defensive, and offensive events.

Figures 41 through 45 illustrate and define the variables for vehicle output from Program 1. Program 2 vehicle output is shown in Figures 46 through 48.

ERROR OUTPUT

All error outputs are the same type for electronics and vehicle simulations. Program 1 contains two input data checks. If either of the two conditions is not satisfied, the program will terminate. The first error message is shown in Figure 49. The definitions for the variables are the same as given previously in Figure 30. The error message printed out refers to the fact that the equipment list must be numbered between 1 and 23. The 0 is not allowed.

The second error message in Program 1 is shown in Figure 50. The variables in Figure 50 are the same as defined in Figure 32.

Program 2 contains one data check similar to the first error message of Program 1. Figure 51 illustrates an example and the variables used are defined in Figure 42.

SYSTEM CONFIGURATION

EQUIPMENT	MTBF	THDM(1) G D	THDM(2) N	THDM(3) B	THDM(4) T
1 ELECTRONICS A	10.00	0.0	0.0	0.0	0.0
2 ELECTRONICS B	20.00	0.0	0.0	0.0	0.0

FIGURE 29. Sample Electronics Program 1 System Description Table.

The equipment name is preceded by its ordinal number in the system

M where $1 \leq M \leq 23$

MTBF: MEAN TIME BETWEEN FAILURES

THDM(1): DAMAGE THRESHOLD FOR GAMMA DOT (GD), RAD/SEC

THDM(2): DAMAGE THRESHOLD FOR NEUTRON (N), NEUTRONS/CM^2

THDM(3): DAMAGE THRESHOLD FOR BLAST (B), LB/IN^2

THDM(4): DAMAGE THRESHOLD FOR THERMAL (T), $CALORIES/IN^2$

FIGURE 30. Definitions for Figure 29.

```
EVENT DESCRIPTION

EVENT NO. 1 IS DEFENSIVE
EVENT OCCURRED   0.10 HOURS AFTER TAKEOFF
EVENT DESCRIPTION IS 23MM QUAD, POSITION 4
```

SUBFUNCTION/MODE					EQUIPMENT DESCRIPTION		MISSION DESCRIPTOR
1	1	1	2	MILITARY FUNCTION A	00	0 0	F
1	2	2	1	NORMAL MODE	10	0 0	F
1	3	5	5	COMPLETE FAILURE	00	0 0	F
0	99	0	0		00	0 0	F
2	1	2	2	MILITARY FUNCTION B	00	0 0	F
2	2	5	5	NORMAL MODE	01	0 0	F
2	3	4	4	DEGRADED MODE	00	0 0	F
0	99	0	0		00	0 0	F
999	0	0	0		00	0 0	F

FIGURE 31. Sample Electronics Program 1 Event Description Table.

EVENT NO. 1 IS DEFENSIVE
EVENT OCCURRED   0.10 HOURS AFTER TAKEOFF
EVENT DESCRIPTION IS 23MM QUAD, POSITION 4

SUBFUNCTION/MODE

SUBFUNCTION NUMBER FOR THIS EVENT

MODE NUMBER FOR THIS EVENT

NEXT SUBFUNCTION IF CURRENT SUBFUNCTION CAN BE ACCOMPLISHED

NEXT MODE IF CURRENT MODE CAN BE ACCOMPLISHED

1	1	1	2	MILITARY FUNCTION A
1	2	2	1	NORMAL MODE
1	3	5	5	COMPLETE FAILURE
0	99	0	0	

END OF THIS SUBFUNCTION

2	1	2	2	MILITARY FUNCTION B
2	2	5	5	NORMAL MODE
2	3	4	4	DEGRADED MODE
0	99	0	0	
999	0	0	0	

END OF THIS EVENT

EQUIPMENT DESCRIPTION

ELECTRONICS A REQUIRED?

ELECTRONICS B REQUIRED?

* 0 = NO
1 = YES

00 *	
10	
00	
00	
00	
01	
00	
00	
00	

MISSION DESCRIPTOR

NEXT SUBFUNCTION NUMBER IF CURRENT SUBFUNCTION/MODE IS NOT SATISFIED BY MDT DESCRIPTOR

NEXT MODE NUMBER IF CURRENT SUBFUNCTION/MODE IS NOT SATISFIED BY MDT DESCRIPTOR

MISSION CONDITION REQUIRED?
F = FALSE

0	0	F
0	0	F
0	0	F
0	0	F
0	0	F
0	0	F
0	0	F
0	0	F
0	0	F

FIGURE 32. Definitions for Figure 31.

MODE SEQUENCE NO	SUBFUNCTIONAL FLOW
1	MILITARY FUNCTION A NORMAL MODE MILITARY FUNCTION B NORMAL MODE
	SUBSYSTEMS USED
	ELECTRONICS A ELECTRONICS B
MODE SEQUENCE NO	SUBFUNCTIONAL FLOW
2	MILITARY FUNCTION A COMPLETE FAILURE
	SUBSYSTEMS USED
MODE SEQUENCE NO	SUBFUNCTIONAL FLOW
3	MILITARY FUNCTION A NORMAL MODE MILITARY FUNCTION B

FIGURE 33. Sample Electronics Program 1 Subfunctional Flow Table.

SYSTEM CONFIGURATION

	EQUIPMENT					
1	ELECTRONICS A	10.00	0.200E+02	0.100E+02	0.0	0.0
2	ELECTRONICS B	20.00	0.100E+02	0.200E+02	0.0	0.0

FIGURE 34. Sample Electronics Program 2 System Description Table.

```
 EVENT DESCRIPTION

 EVENT NO. 1 IS DEFENSIVE
EVENT OCCURRED   0.10 HOURS AFTER TAKEOFF
EVENT DESCRIPTION IS 23MM QUAD,POSITION 4
T

        J =  1  PCAP(J) = 0.10000E+01  CEP(J) = 0.10000E+02  FA(J) = 0.10000E+01

        J =  2  PCAP(J) = 0.0          CEP(J) = 0.10000E+02  FA(J) = 0.10000E+01

        J =  3  PCAP(J) = 0.0          CEP(J) = 0.10000E+02  FA(J) = 0.10000E+01
PARIVE =  0.10000E+01

  COMPONENT PROBABILITIES OF KILL
 COMP# ELEV#  R=    100.     1000.
    1     1    0.0            0.0
    2     1    0.1000E+00     0.0
```

FIGURE 35. Sample Electronics Program 2 Effectiveness Summary – Non-nuclear Defensive Event.

T:	FLAG THAT WEATHER CONDITION IS ASSUMED TO PREVAIL AT CURRENT TIME AND PLACE
J:	INDEX NUMBER FOR CURRENT MODE SEQUENCE
PCAP(J):	PROBABILITY OF CURRENT MODE SEQUENCE
CEP(J):	THREAT CIRCULAR ERROR PROBABLE FOR Jth MODE SEQUENCE, FT
FA(J):	EXPECTED NUMBER OF WEAPONS ARRIVING IN TARGET VICINITY AT THE START OF THE CURRENT EVENT (i.e., NOT ABORTED AND NOT DOWN)
	COMPONENT PROBABILITIES OF KILL AND CUMULATIVE SURVIVAL: THREAT KILL PROBABILITIES FOR CURRENT EVENT AND COMPONENT CUMULATIVE SURVIVAL PROBABILITY SUBSEQUENT TO THE CURRENT EVENT
COMP#:	SUBSYSTEM ORDINAL NUMBER
ELEV#:	ELEVATION INDEX NUMBER OF THE OFFSET MISSILE WARHEAD TRAJECTORY (if event is AAA only 1 elevation is used)
R=:	OFFSET DISTANCE OF THE OFFSET WARHEAD TRAJECTORY, FT

FIGURE 36. Definition for Figure 35.

```
 EVENT DESCRIPTION

 EVENT NO. 1 IS OFFENSIVE
EVENT OCCURRED   2.00 HOURS AFTER TAKEOFF
EVENT DESCRIPTION IS NUCLEARTHREAT
T

 RM ARRAY
           0.20000E+02   0.18333E+02

      J =  1  PCAP(J) = 0.82000E+00  CEP(J) = 0.40000E+02  FA(J) = 0.10000E+01

      J =  2  PCAP(J) = 0.0          CEP(J) = 0.10000E+02  FA(J) = 0.10000E+01
PMSURV =  0.82000E+00
```

FIGURE 37. Sample Electronics Program 2 Effectiveness Summary—Nuclear Event.

T:	FLAG THAT MISSION CONDITION IS ASSUMED TO PREVAIL AT CURRENT TIME AND PLACE
RM ARRAY:	LETHAL RADIUS VALUES
J:	INDEX NUMBER FOR CURRENT MODE SEQUENCE
PCAP(J):	PROBABILITY OF Jth MODE SEQUENCE
CEP(J):	THREAT CIRCULAR ERROR PROBABLE FOR Jth MODE SEQUENCE, FT
FA(J):	EXPECTED NUMBER OF WEAPONS ARRIVING IN TARGET VICINITY FOR Jth MODE SEQUENCE, EACH CHARACTERIZED BY CEP(J)
PMSURV:	CUMULATIVE AIRCRAFT SURVIVAL PROBABILITY AT THE START OF THE CURRENT EVENT

FIGURE 38. Definitions for Figure 37.

```
     EVENT DESCRIPTION

     EVENT NO. 4 IS OFFENSIVE
    EVENT OCCURRED    0.30 HOURS AFTER TAKEOFF
    EVENT DESCRIPTION IS MARK 82 SNAKEYE
    F

          J =  1  PCAP(J) = 0.70745E+00  PK(J) = 0.90000E+00

          J =  2  PCAP(J) = 0.19801E-01  PK(J) = 0.0

          J =  3  PCAP(J) = 0.27274E+00  PK(J) = 0.60000E+00
PARIVE =  0.10000E+01

          EFFECTIVENESS FOR OFFENSIVE EVENT NUMBER  4 IS 0.80036E+00

          CUMULATIVE MISSION EFFECTIVENESS IS  0.80036E+00
```

FIGURE 39. Sample Electronics Program 2 Effectiveness Summary–Offensive Event.

F:	FLAG THAT WEATHER CONDITION IS ASSUMED NOT TO PREVAIL AT CURRENT TIME AND PLACE
J:	INDEX NUMBER FOR CURRENT MODE SEQUENCE
PCAP(J):	CAPABILITY PROBABILITY FOR CURRENT MODE SEQUENCE
PK(J):	ASSIGNED (INPUT) WEAPON DELIVERY EFFECTIVENESS ASSOCIATED WITH CURRENT MODE SEQUENCE
PARIVE:	PROBABILITY THAT THE VEHICLE IS IN A NORMAL FLIGHT MODE AT THE START OF THE CURRENT EVENT (i.e., NOT ABORTED AND NOT DOWN)

FIGURE 40. Defintions for Figure 39.

SYSTEM CONFIGURATION

	EQUIPMENT	MTBF	THDM(1) G D	THDM(2) N	THDM(3) B	THDM(4) T
1	VEH ACTUALLY GOOD FOR 2 OR 3 ET	10000.00	0.0	0.0	0.0	0.0
2	VEH ACTUALLY GOOD FOR DELTA T	10000.00	0.0	0.0	0.0	0.0
3	VEH APPARENTLY GOOD FOR 2OR3 ET	10000.00	0.0	0.0	0.0	0.0
4	VEH APPARENTLY GOOD FOR DELTA T	10000.00	0.0	0.0	0.0	0.0

FIGURE 41. Sample Vehicle Program 1 System Description Table.

The equipment name is preceded by its ordinal number in the system

M where $1 \leq M \leq 23$

MTBF: MEAN TIME BETWEEN FAILURES

THDM(1): DAMAGE THRESHOLD FOR GAMMA DOT (GD), RAD/SEC

THDM(2): DAMAGE THRESHOLD FOR NEUTRON (N), NEUTRONS/CM^2

THDM(3): DAMAGE THRESHOLD FOR BLAST (B), LB/IN^2

THDM(4): DAMAGE THRESHOLD FOR THERMAL (T), $CALORIES/IN^2$

FIGURE 42. Definitions for Figure 41.

```
EVENT DESCRIPTION

 EVENT NO. 2 IS DEFENSIVE
EVENT OCCURRED   0.20 HOURS AFTER TAKEOFF
EVENT DESCRIPTION IS 23MM QUAD, POSITION 4
T

        SUBFUNCTION/MODE                          FLIGHT AND DETECTION TIME REMAINING
  1   1     1   2  FLIGHT FUNCTION                 0000
  1   2     5   5    NORMAL MODE A                 0010
  1   3     5   5    NORMAL MODE B                 0001
  1   4     5   5    NORMAL MODE C                 1100
  1   5     5   5    ABORT MODE A                  1000
  1   6     5   5    ABORT MODE B                  0100
  1   7     5   5    DOWN                          0000
  0  99     0   0                                  0000
999   0     0   0                                  0000
```

FIGURE 43. Sample Vehicle Program 1 Event Description Table.

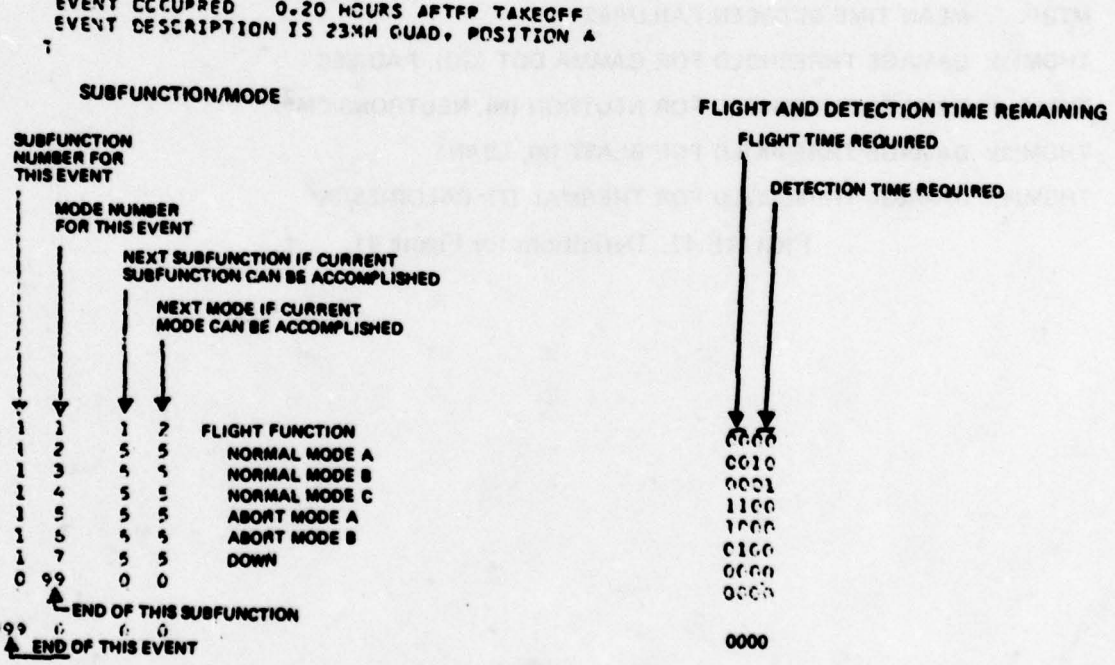


FIGURE 44. Definitions for Figure 43.

MODE SEQUENCE NO	SUBFUNCTIONAL FLOW
1	FLIGHT FUNCTION NORMAL MODE A
	ACTUAL AND APPARENT FLIGHT TIME VEH APPARENTLY GOOD FOR 2OR3 DT
MODE SEQUENCE NO	SUBFUNCTIONAL FLOW
2	FLIGHT FUNCTION NORMAL MODE B
	ACTUAL AND APPARENT FLIGHT TIME VEH APPARENTLY GOOD FOR DELTA T
MODE SEQUENCE NO	SUBFUNCTIONAL FLOW
3	FLIGHT FUNCTION NORMAL MODE C
	ACTUAL AND APPARENT FLIGHT TIME VEH ACTUALLY GOOD FOR 2 OR 3 DT VEH ACTUALLY GOOD FOR DELTA T
MODE SEQUENCE NO	SUBFUNCTIONAL FLOW
4	

FIGURE 45. Sample Vehicle Program 1 Subfunctional Flow Table.

SYSTEM CONFIGURATION

	EQUIPMENT	MTBF	THDM(1) C F	THDM(2) N	THDM(3) R	THDM(4) T
1	VEH ACTUALLY GOOD FOR 2 OR 3 DT	10000.00	0.0	0.0	0.0	0.0
2	VEH ACTUALLY GOOD FOR DELTA T	10000.00	0.0	0.0	0.0	0.0
3	VEH APPARENTLY GOOD FOR 2OR3 DT	10000.00	0.0	0.0	0.0	0.0
4	VEH APPARENTLY GOOD FOR DELTA T	10000.00	0.0	0.0	0.0	0.0

FIGURE 46. Sample Vehicle Program 2 Systems Description Table.

```
 EVENT DESCRIPTION

 EVENT NO. 1 IS DEFENSIVE
EVENT OCCURRED   0.10 HOURS AFTER TAKEOFF
EVENT DESCRIPTION IS 23MM QUAD, POSITION 4
F

        J =  1  PCAP(J) = 0.10000E+01
PARIVE =  0.10000E+01
```

FIGURE 47. Sample Vehicle Program 2 Effectiveness Summary.

F: FLAG THAT WEATHER CONDITION IS ASSUMED TO NOT PREVAIL AT CURRENT TIME AND PLACE

J: INDEX NUMBER FOR CURRENT MODE SEQUENCE

PCAP(J): PROBABILITY OF CURRENT MODE SEQUENCE

PARIVE: PROBABILITY THAT THE VEHICLE IS IN A NORMAL FLIGHT MODE AT THE START OF THE CURRENT EVENT (i.e., NOT ABORTED AND NOT DOWN)

FIGURE 48. Definitions for Figure 47.

```
 SYSTEM CONFIGURATION
    EQUIPMENT                          MTBF    THDM(1)     THDM(2)     THDM(3)     THDM(4)
                                               G  D        A           B           T

 0  ELECTRONICS A                      1C.CC   0.C         0.0         0.0         0.0
TCC MANY INPUTS CR M IS OUTSIDE ALLOWABLE RANGE
```

FIGURE 49. Program 1 Error Output for System Configuration Table.

```
   EVENT DESCRIPTION

   EVENT NO. 1 IS DEFENSIVE
EVENT OCCURRED   0.10 HOURS AFTER TAKEOFF
EVENT DESCRIPTION IS 23MM QUAD. POSITION 4
T

     SUBFUNCTION/MODE                          EQUIPMENT DESCRIPTION        MISSION DESCRIPTOR
1 99    1  2  MILITARY FUNCTION A             00                0 0        F
1 99    2  1    NORMAL MODE                    10                0 0        F
1 99    5  5    COMPLETE FAILURE               00                0 0        F
0 99    0  0                                   00                0 0        F
2 99    1  2  MILITARY FUNCTION B             00                0 0        F
2 99    5  5    NORMAL MODE                    01                0 0        F
2 99    5  5    DEGRADED MODE                  00                0 0        F
0 99    0  0                                   00                0 0        F
3 99    1  2  MILITARY FUNCTION C             00                0 0        F
3 99    2  1    NORMAL MODE                    10                0 0        F

TCC MANY INPUTS FOR F ARRAY
```

FIGURE 50. Program 1 Error Output for Event Description Table.

```
 SYSTEM CONFIGURATION
    EQUIPMENT                          MTBF    THDM(1)     THDM(2)     THDM(3)     THDM(4)
                                               G  D        A           B           T

 0  ELECTRONICS A                      1C.CC   0.2C0C0E+02 0.1C000E+02 0.0         0.0
TOO MANY INPUTS CR M IS OUTSIDE ALLOWABLE RANGE
```

FIGURE 51. Program 2 Error Output for System Configuration Table.

SAMPLE PROBLEM

PROBLEM DESCRIPTION

Two fictitious cases have been set up to exercise all non-nuclear options in the model and yet be simple enough to be understood by the user.

Mission/Damage Effectiveness Model (Sample Case)[5] presents a different sample case with the threat being SAM (surface-to-air missiles) and air-to-air missiles. The descriptions of the electronic functions and the acceptable modes of operation for each event are more extensive than those presented here. However, footnote 5 is not a "user" type document and does not discuss the details of how to use the MISDEM model. Its primary function is to display the outputs of MISDEM along with the outputs of several simulations that were used to generate the individual weapon effectiveness numbers required as input to MISDEM. Table 1 shows the event sequence and a description of the threat type and weather conditions for the encounters of this sample problem.

The aircraft system for this sample case is defined to consist of two subsets of equipment: electronics and vehicle. The electronics sample case is described first, followed by the vehicle sample case.

TABLE 1. Scenario Description.

Event	Time, hours	Event type/description	Visual weather
1	0.10	Conventional AAA (defensive)	Yes
2	0.20	Conventional AAA (defensive)	Yes
3	0.30	Conventional AAA (defensive)	Yes
4	0.30	Mark 82 Snakeye (offensive)	No
5	0.40	Conventional AAA (defensive)	Yes
6	0.50	Land at base	Yes

Electronics Sample Case

The electronics subset for the sample case is defined to consist of two subsystems: electronics A and electronics B. Twenty and 10 hours, respectively, were chosen to represent the MTBF (mean-time-between-failures) for the subsystems. Parameters THDM(1), (2), (3), and (4) are irrelevant in this non-nuclear case.

[5] Rockwell International Los Angeles Aircraft Division), *Mission/Damage Effectiveness Model (Sample Case)*, for Joint Technical Coordinating Group/Aircraft Survivability, Survivability Assessment Subgroup, May 1974, (NA-74-358).

Both subsystems are effectively "on" throughout the mission, so on-time is 0.0, and off-time is 1.0 hour in this mission.

Thus the elapsed time the electronics are on is 1.0 hour and this exceeds the mission time of 0.50 hour only to ensure that the electronic systems are on for the entire mission. If one of the electronic subsystems was to be used only during event 4, it could be turned on at a time prior to 0.30 hour and turned off at an appropriate time after 0.30 hour. In the electronics mode, subsystems may be deleted on a mission basis only, by means of the variable ONOFF in the system configuration data. This is not applicable to the vehicle mode, which does not use subsystems in its state vector. For purposes of computing reliability in the electronics mode, the program requires a single turn-on time and a single turn-off time for each subsystem. The variables TMN (time-on) and TMF (time-off) cannot, however, be used to delete subsystems (a function reserved for ONOFF). In fact, it is necessary that the user select TMN and TMF in such a way that the subsystems are "on" for every event whose mode sequence logic requires them "up" for any mode (unless the user is willing to accept the error resulting from the inconsistent inputs). Both subsystems are to be considered in the analysis, so ON OFF is not assigned the value OUT. A value of OUT is assigned ON OFF to signify that a subsystem is out of action and the reliability calculations need not be performed.

The successful completion of each event requires that the weapon system execute two subfunctions: military A and military B. The normal mode of the military subfunction A requires that the first subsystem (i.e., electronics A) be viable. Failure of electronics A results in a complete failure of military A and B. The normal mode of the military B requires that the second subsystem (electronics B) be viable. For event 5 only, if the second subsystem fails and if the weather is *visual*, the second subfunction is performed without the aid of electronics. Otherwise, the subfunction is not performed at all.

The damage potential associated with the conventional warhead encounter (events 1, 2, 3, and 5) is represented by subsystem survival probabilities as a function of warhead miss distance (see Figure 52).

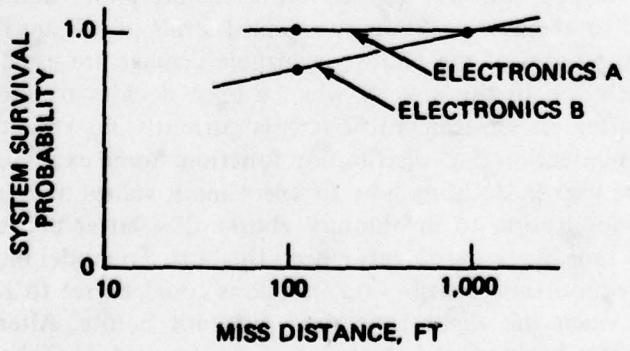


FIGURE 52. Threat Conventional Warhead Effectiveness.

The program computational procedure requires system probabilities of being killed rather than the survival probabilities shown in Figure 52. Therefore, the probabilities required for input are obtained by taking 1.0 minus the survival probabilities for the electronics subsystems at miss distances of 100 and 1000 feet. Normally, the probabilities of being killed during each defensive event would be different, depending upon the localized threat and flight conditions postulated for the mission scenario. For simplicity, this sample problem uses the same values for all AAA engagements.

Vehicle Sample Case

The vehicle subset for the sample case is a single element, characterized by flight failure time and abort-detection time distribution functions (FTFN and FTDN, respectively), for each defensive event, as shown in Table 2. Normally these functions are different for each threat encounter; for simplicity, the sample case utilizes the same functions for all threat encounters (defensive events).

TABLE 2. Flight Failure Time and Abort Detection Time Distribution.

Failure time	FTFN	Abort detection time	1	2	3	4	
1	0.02		1.0	1.0	1.0	1.0	F
2	0.04		0.5	1.0	1.0	1.0	T
3	0.05		0.3	0.6	0.9	1.0	D
4	1.00		0.2	0.4	0.7	1.0	N

Table 2 lists four failure time increments. Each failure time increment corresponds to a defensive event (viz, the exposure of the aircraft to an AAA (antiaircraft artillery) site). The flight failure time and abort detection time probabilities may not exist either operationally or analytically. These probabilities basically represent the pilot's ability to detect damage after being exposed to enemy fire. Some recognized levels of kill are time-dependent (KK, K, A, B, etc.) but the times of the pilot-recognizable damage are usually very short and no hard look has been given to the area of when a pilot decides to abort the mission as a function of time after an engagement. There is currently no known documentary data source for the abort-detection time distribution function. Some examples of these functions are given to aid the user in deciding how to select input values of this function. Consider first the MISDEM application to involuntary aborts. The latter aborts are defined to be independent of the time the crew detects a need to abort. To model the involuntary aborts, the input abort-detection time distribution functions could be set to zero for all time. The abort then occurs when the flight time runs out, not before. Alternatively, it may be assumed that the crew has perfect knowledge of the amount of flight time remaining. To model this situation, the abort-detection time distribution functions would be set to 1.0 for all time. The abort then occurs in accordance with the mode sequence logic (e.g., when the flight time remaining becomes less than the normal mission duration).

These functions define the effects of threat damage on the vehicle, analogous to the subsystem survival probabilities used in the electronics sample case.

As compared to the electronics sample case, the mode definition for the vehicle case is completely different (Table 3). An explanation of Table 3 follows.

Event 1. There are no failure or detection time requirements; therefore, no ones (1) appear in the time requirements. The location of ones in this array is analogous to the location of ones in the output format for the electronics sample case, as in Figure 31, where "equipment description" is replaced by "time requirements". For the vehicle case, the modes are determined by the flight time and abort detection time; whereas in the electronics case, the modes are determined by the equipments available.

Event 2. The first two normal modes require that the time of detection exceeds the previous event duration, so that the vehicle will have arrived at the current event without detecting a need to abort. Time is measured in mission segments, which are made equal for vehicle simulation. The next mode is also a normal mode, since, even though the damage is detected within the previous event (detection time remaining = zero), the crew determines that the flight time remaining equals the mission time remaining (3 units). In the next two modes, the flight time is less than the mission time, so the crew elects to abort. When the flight time remaining after the event is reduced to zero, the aircraft has landed or crashed.

The other events are similar; and moving toward the end of the mission, the criterion for continuing to fly the mission when damage is discovered, is relaxed. When the aircraft, in event 5, has no better abort route than the normal mission route, the abort mode is abolished.

Figures 53 through 217 contain the data checksheets for the electronics and vehicle simulations. Figure 218 shows a listing of the data deck input for the electronics case and Figure 219 shows the input for the vehicle case. Output listings are contained in Figures 220 and 221 for the electronics and vehicle cases, respectively.

TABLE 3. Mode Definitions for Vehicle Case.

Event	Event description	Mode name	Time requirements	
			Failure time, binary	Detection time, binary
1	First defensive event	Normal	00	00
2	Second defensive event	Normal A	00	10
		Normal B	00	01
		Normal C	11	00
		Abort A	10	00
		Abort B	01	00
		Down	00	00
3	Third defensive event	Normal A	00	10
		Normal B	00	01
		Normal C	10	00
		Abort A	01	00
		Down	00	00
5	Fourth defensive event	Normal A	00	01
		Normal B	10	00
		Normal C	01	00
		Down	00	00
6	Landing event	Normal A	00	01
		Normal B	10	00
		Normal C	01	00
		Down	00	00

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
1	2-2	NZT	2				
	2-2	MCR	0				
	2-2	MPR	0				
	2-2	MAV	0				

FIGURE 53. Data Checksheet for Electronics Sample Case, Card Type 1.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
2A	2-3	M	1	2B	2-4	HDMT(1)	20.
	2-3	DNAME(1)	ELEC		2-4	HDMT(2)	10.
	2-3	DNAME(2)	TRON		2-4	HDMT(3)	
	2-3	DNAME(3)	ICSb		2-4	HDMT(4)	
	2-3	DNAME(4)	A		2-4	ONOFF	
	2-3	DNAME(5)					
	2-3	DNAME(6)					
	2-3	DNAME(7)					
	2-3	DNAME(8)					
	2-3	TBFM	10.				

FIGURE 54. Data Checksheet for Electronics Sample Case, Card Type 2–Electronics A.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
2A	2-3	M	2	2B	2-4	HDMT(1)	10.
	2-3	DNAME(1)	ELEC		2-4	HDMT(2)	20.
	2-3	DNAME(2)	TRON		2-4	HDMT(3)	
	2-3	DNAME(3)	ICSb		2-4	HDMT(4)	
	2-3	DNAME(4)	B		2-4	ONOFF	
	2-3	DNAME(5)					
	2-3	DNAME(6)					
	2-3	DNAME(7)					
	2-3	DNAME(8)					
	2-3	TBFM	20.				

FIGURE 55. Data Checksheet for Electronics Sample Case, Card Type 2–Electronics B.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
3A	2-5	M	999	3B	2-5	(THIS CARD	IS ALWAYS
						BLANK)	

FIGURE 56. Data Checksheet for Electronics Sample Case, Card Type 3.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
4	2-6	IEVENT	1				
	2-6	T2	.10				
	2-6	NC	6				
	2-6	WEAPN(1)	23MM				
	2-6	WEAPN(2)	bQUA				
	2-6	WEAPN(3)	D,bP				
	2-6	WEAPN(4)	OSIT				
	2-6	WEAPN(5)	IONb				
	2-6	WEAPN(6)	4				
	2-6	WEAPN(7)					
	2-6	MDT	T				

FIGURE 57. Data Checksheet for Electronics Sample Case, Card Type 4–Event 1.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1	7B	2-11	LMAT(I,K,1)	THIS CARD
	2-10	LLF(K)	1		2-11	LMAT(I,K,2)	IS BLANK
	2-10	LQ(I,K)	1		2-11	LMAT(I,K,3)	FOR THIS
	2-10	LLQ(I,K)	2		2-11	LMAT(I,K,4)	CASE
	2-10	FNAME(I,K,1)	MILI		2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)	TARY		2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)	bFUN		2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)	CTIO		2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)	NbA		2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)	0		2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)	0		2-11	LMAT(I,K,16)	
	2-10	MD(I,K)	F		2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 58. Data Checksheet for Electronics Sample Case, Card Type 7–Event 1, Military Function A.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1	7B	2-11	LMAT(I,K,1)	1
	2-10	LLF(K)	2		2-11	LMAT(I,K,2)	
	2-10	LQ(I,K)	2		2-11	LMAT(I,K,3)	
	2-10	LLQ(I,K)	1		2-11	LMAT(I,K,4)	
	2-10	FNAME(I,K,1)	bbNO		2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)	RMAL		2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)	bMOD		2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)	E		2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)			2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)	.		2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)	0		2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)	0		2-11	LMAT(I,K,16)	
	2-10	MD(I,K)	F		2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 59. Data Checksheet for Electronics Sample Case, Card Type 7–Event 1, Military Function A, Normal Mode.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	3
	2-10	LQ(I,K)	5
	2-10	LLQ(I,K)	5
	2-10	FNAME(I,K,1)	bbCO
	2-10	FNAME(I,K,2)	MPLE
	2-10	FNAME(I,K,3)	TEbF
	2-10	FNAME(I,K,4)	AILU
	2-10	FNAME(I,K,5)	RE
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 60. Data Checksheet for Electronics Sample Case, Card Type 7–Event 1, Military Function A, Complete Failure.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	0
	2-10	LLF(K)	99
	2-10	LQ(L,K)	0
	2-10	LLQ(I,K)	0
	2-10	FNAME(I,K,1)	
	2-10	FNAME(I,K,2)	
	2-10	FNAME(I,K,3)	
	2-10	FNAME(I,K,4)	
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	
	2-10	MMQ(I,K)	
	2-10	MD(I,K)	

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 61. Data Checksheet for Electronics Sample Case, Card Type 7–Event 1, End of Military Function A.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	2
	2-10	LLF(K)	1
	2-10	LQ(I,K)	2
	2-10	LLQ(I,K)	2
	2-10	FNAME(I,K,1)	MILI
	2-10	FNAME(I,K,2)	TARY
	2-10	FNAME(I,K,3)	bFUN
	2-10	FNAME(I,K,4)	CTIO
	2-10	FNAME(I,K,5)	NbB
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 62. Data Checksheet for Electronics Sample Case, Card Type 7—Event 1, Military Function B.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	2	7B	2-11	LMAT(I,K,1)	2
	2-10	LLF(K)	2		2-11	LMAT(I,K,2)	
	2-10	LQ(I,K)	5		2-11	LMAT(I,K,3)	
	2-10	LLQ(I,K)	5		2-11	LMAT(I,K,4)	
	2-10	FNAME(I,K,1)	bbNO		2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)	RMAL		2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)	bMOD		2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)	E		2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)			2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)	0		2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)	0		2-11	LMAT(I,K,16)	
	2-10	MD(I,K)	F		2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 63. Data Checksheet for Electronics Sample Case, Card Type 7–Event 1, Military Function B, Normal Mode.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	2
	2-10	LLF(K)	3
	2-10	LQ(I,K)	5
	2-10	LLQ(I,K)	5
	2-10	FNAME(I,K,1)	bbDE
	2-10	FNAME(I,K,2)	GRAD
	2-10	FNAME(I,K,3)	EDbM
	2-10	FNAME(I,K,4)	ODE
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 64. Data Checksheet for Electronics Sample Case, Card Type 7–Event 1, Military Function B, Degraded Mode.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	0	7B	2-11	LMAT(I,K,1)	THIS CARD
	2-10	LLF(K)	99		2-11	LMAT(I,K,2)	IS BLANK
	2-10	LQ(I,K)	0		2-11	LMAT(I,K,3)	FOR THIS
	2-10	LLQ(I,K)	0		2-11	LMAT(I,K,4)	CASE
	2-10	FNAME(I,K,1)			2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)			2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)			2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)			2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)			2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)			2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)			2-11	LMAT(I,K,16)	
	2-10	MD(I,K)			2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 65. Data Checksheet for Electronics Sample Case, Card Type 7—Event 1, End of Military Function B.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	999	7B	2-11	LMAT(I,K,1)	THIS CARD
	2-10	LLF(K)	0		2-11	LMAT(I,K,2)	IS BLANK
	2-10	LQ(I,K)	0		2-11	LMAT(I,K,3)	FOR THIS
	2-10	LLQ(I,K)	0		2-11	LMAT(I,K,4)	CASE
	2-10	FNAME(I,K,1)			2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)			2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)			2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)			2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)			2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)			2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)			2-11	LMAT(I,K,16)	
	2-10	MD(I,K)			2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 66. Data Checksheet for Electronics Sample Case, Card Type 7–End of Event 1.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
4	2-6	IEVENT	2				
	2-6	T2	.20				
	2-6	NC	6				
	2-6	WEAPN(1)	23MM				
	2-6	WEAPN(2)	bQUA				
	2-6	WEAPN(3)	D,bP				
	2-6	WEAPN(4)	OSIT				
	2-6	WEAPN(5)	IONb				
	2-6	WEAPN(6)	4				
	2-6	WEAPN(7)					
	2-6	MDT	T				

FIGURE 67. Data Checksheet for Electronics Sample Case, Card Type 4–Event 2.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	1
	2-10	LQ(I,K)	1
	2-10	LLQ(I,K)	2
	2-10	FNAME(I,K,1)	MILI
	2-10	FNAME(I,K,2)	TARY
	2-10	FNAME(I,K,3)	bFUN
	2-10	FNAME(I,K,4)	CTIO
	2-10	FNAME(I,K,5)	NbA
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K 3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 68. Data Checksheet for Electronics Sample Case, Card Type 7—Event 2, Military Function A.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1	7B	2-11	LMAT(I,K,1)	1
	2-10	LLF(K)	2		2-11	LMAT(I,K,2)	
	2-10	LQ(I,K)	2		2-11	LMAT(I,K,3)	
	2-10	LLQ(I,K)	1		2-11	LMAT(I,K,4)	
	2-10	FNAME(I,K,1)	bbNO		2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)	RMAL		2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)	bMOD		2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)	E		2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)			2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)	0		2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)	0		2-11	LMAT(I,K,16)	
	2-10	MD(I,K)	F		2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 69. Data Checksheet for Electronics Sample Case, Card Type 7—Event 2, Military Function A, Normal Mode.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	3
	2-10	LQ(I,K)	5
	2-10	LLQ(I,K)	5
	2-10	FNAME(I,K,1)	bbCO
	2-10	FNAME(I,K,2)	MPLE
	2-10	FNAME(I,K,3)	TEbF
	2-10	FNAME(I,K,4)	AILU
	2-10	FNAME(I,K,5)	RE
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 70. Data Checksheet for Electronics Sample Case, Card Type 7–Event 2, Military Function A, Complete Failure.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	0
	2-10	LLF(K)	99
	2-10	LQ(I,K)	0
	2-10	LLQ(I,K)	0
	2-10	FNAME(I,K,1)	
	2-10	FNAME(I,K,2)	
	2-10	FNAME(I,K,3)	
	2-10	FNAME(I,K,4)	
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	
	2-10	MMQ(I,K)	
	2-10	MD(I,K)	

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 71. Data Checksheet for Electronics Sample Case, Card Type 7–Event 2, End of Military Function A.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	2
	2-10	LLF(K)	1
	2-10	LQ(I,K)	2
	2-10	LLQ(I,K)	2
	2-10	FNAME(I,K,1)	MILI
	2-10	FNAME(I,K,2)	TARY
	2-10	FNAME(I,K,3)	bFUN
	2-10	FNAME(I,K,4)	CTIO
	2-10	FNAME(I,K,5)	NbB
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 72. Data Checksheet for Electronics Sample Case, Card Type 7–Event 2, Military Function B.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	2	7B	2-11	LMAT(I,K,1)	2
	2-10	LLF(K)	2		2-11	LMAT(I,K,2)	
	2-10	LQ(I,K)	5		2-11	LMAT(I,K,3)	
	2-10	LLQ(I,K)	5		2-11	LMAT(I,K,4)	
	2-10	FNAME(I,K,1)	bbNO		2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)	RMAL		2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)	bMOD		2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)	E		2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)			2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)	0		2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)	0		2-11	LMAT(I,K,16)	
	2-10	MD(I,K)	F		2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 73. Data Checksheet for Electronics Sample Case, Card Type 7—Event 2, Military Function B, Normal Mode.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	2	7B	2-11	LMAT(I,K,1)	THIS CARD
	2-10	LLF(K)	3		2-11	LMAT(I,K,2)	IS BLANK
	2-10	LQ(I,K)	5		2-11	LMAT(I,K,3)	FOR THIS
	2-10	LLQ(I,K)	5		2-11	LMAT(I,K,4)	CASE
	2-10	FNAME(I,K,1)	bbDE		2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)	GRAD		2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)	EDbM		2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)	ODE		2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)			2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)	0		2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)	0		2-11	LMAT(I,K,16)	
	2-10	MD(I,K,)	F		2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 74. Data Checksheet for Electronics Sample Case, Card Type 7—Event 2, Military Function B, Degraded Mode.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	0
	2-10	LLF(K)	99
	2-10	LQ(I,K)	0
	2-10	LLQ(I,K)	0
	2-10	FNAME(I,K,1)	
	2-10	FNAME(I,K,2)	
	2-10	FNAME(I,K,3)	
	2-10	FNAME(I,K,4)	
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	
	2-10	MMQ(I,K)	
	2-10	MD(I,K)	

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 75. Data Checksheet for Electronics Sample Case, Card Type 7–Event 2, End of Military Function B.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	999	7B	2-11	LMAT(I,K,1)	THIS CARD
	2-10	LLF(K)	0		2-11	LMAT(I,K,2)	IS BLANK
	2-10	LQ(I,K)	0		2-11	LMAT(I,K,3)	FOR THIS
	2-10	LLQ(I,K)	0		2-11	LMAT(I,K,4)	CASE
	2-10	FNAME(I,K,1)			2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)			2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)			2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)			2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)			2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)			2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)			2-11	LMAT(I,K,16)	
	2-10	MD(I,K)			2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 76. Data Checksheet for Electronics Sample Case, Card Type 7—End of Event 2.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
4	2-6	IEVENT	3				
	2-6	T2	.30				
	2-6	NC	6				
	2-6	WEAPN(1)	23MM				
	2-6	WEAPN(2)	bQUA				
	2-6	WEAPN(3)	D,bP				
	2-6	WEAPN(4)	OSIT				
	2-6	WEAPN(5)	IONb				
	2-6	WEAPN(6)	4				
	2-6	WEAPN(7)					
	2-6	MDT	T				

FIGURE 77. Data Checksheet for Electronics Sample Case, Card Type 4—Event 3.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1	7B	2-11	LMAT(I,K,1)	THIS CARD
	2-10	LLF(K)	1		2-11	LMAT(I,K,2)	IS BLANK
	2-10	LQ(I,K)	1		2-11	LMAT(I,K,3)	FOR THIS
	2-10	LLQ(I,K)	2		2-11	LMAT(I,K,4)	CASE
	2-10	FNAME(I,K,1)	MILI		2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)	TARY		2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)	bFUN		2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)	CTIO		2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)	NbA		2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)	0		2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)	0		2-11	LMAT(I,K,16)	
	2-10	MD(I,K)	F		2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 78. Data Checksheet for Electronics Sample Case, Card Type 7–Event 3, Military Function A.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	2
	2-10	LQ(I,K)	2
	2-10	LLQ(I,K)	1
	2-10	FNAME(I,K,1)	bbNO
	2-10	FNAME(I,K,2)	RMAL
	2-10	FNAME(I,K,3)	bMOD
	2-10	FNAME(I,K,4)	E
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	1
	2-11	LMAT(I,K,2)	
	2-11	LMAT(I,K,3)	
	2-11	LMAT(I,K,4)	
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 79. Data Checksheet for Electronics Sample Case, Card Type 7–Event 3, Military Function A, Normal Mode.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	3
	2-10	LQ(I,K)	5
	2-10	LLQ(I,K)	5
	2-10	FNAME(I,K,1)	bbCO
	2-10	FNAME(I,K,2)	MPLE
	2-10	FNAME(I,K,3)	TEbF
	2-10	FNAME(I,K,4)	AILU
	2-10	FNAME(I,K,5)	RE
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 8A. Data Checksheet for Electronics Sample Case, Card Type 7–Event 3, Military Function A, Complete Failure.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	0	7B	2-11	LMAT(I,K,1)	THIS CARD
	2-10	LLF(K)	99		2-11	LMAT(I,K,2)	IS BLANK
	2-10	LQ(I,K)	0		2-11	LMAT(I,K,3)	FOR THIS
	2-10	LLQ(I,K)	0		2-11	LMAT(I,K,4)	CASE
	2-10	FNAME(I,K,1)			2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)			2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)			2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)			2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)			2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)			2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)			2-11	LMAT(I,K,16)	
	2-10	MD(I,K)			2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 81. Data Checksheet for Electronics Sample Case, Card Type 7–Event 3, End of Military Function A.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	2
	2-10	LLF(K)	1
	2-10	LQ(I,K)	2
	2-10	LLQ(I,K)	2
	2-10	FNAME(I,K,1)	MILI
	2-10	FNAME(I,K,2)	TARY
	2-10	FNAME(I,K,3)	bFUN
	2-10	FNAME(I,K,4)	CTIO
	2-10	FNAME(I,K,5)	NbB
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 82. Data Checksheet for Electronics Sample Case, Card Type 7–Event 3, Military Function B.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	2
	2-10	LLF(K)	2
	2-10	LQ(I,K)	5
	2-10	LLQ(I,K)	5
	2-10	FNAME(I,K,1)	bbNO
	2-10	FNAME(I,K,2)	RMAL
	2-10	FNAME(I,K,3)	bMOD
	2-10	FNAME(I,K,4)	E
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	2
	2-11	LMAT(I,K,2)	
	2-11	LMAT(I,K,3)	
	2-11	LMAT(I,K,4)	
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 83. Data Checksheet for Electronics Sample Case, Card Type 7—Event 3, Military Function B, Normal Mode.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	2
	2-10	LLF(K)	3
	2-10	LQ(I,K)	5
	2-10	LLQ(I,K)	5
	2-10	FNAME(I,K,1)	bbDE
	2-10	FNAME(I,K,2)	GRAD
	2-10	FNAME(I,K,3)	EDbM
	2-10	FNAME(I,K,4)	ODE
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 84. Data Checksheet for Electronics Sample Case, Card Type 7–Event 3, Military Function B, Degraded Mode.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	0
	2-10	LLF(K)	99
	2-10	LQ(I,K)	0
	2-10	LLQ(I,K)	0
	2-10	FNAME(I,K,1)	
	2-10	FNAME(I,K,2)	
	2-10	FNAME(I,K,3)	
	2-10	FNAME(I,K,4)	
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	
	2-10	MMQ(I,K)	
	2-10	MD(I,K)	

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 85. Data Checksheet for Electronics Sample Case, Card Type 7–Event 3, End of Military Function B.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	999	7B	2-11	LMAT(I,K,1)	THIS CARD
	2-10	LLF(K)	0		2-11	LMAT(I,K,2)	IS BLANK
	2-10	LQ(I,K)	0		2-11	LMAT(I,K,3)	FOR THIS
	2-10	LLQ(I,K)	0		2-11	LMAT(I,K,4)	CASE
	2-10	FNAME(I,K,1)			2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)			2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)			2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)			2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)			2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)			2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)			2-11	LMAT(I,K,16)	
	2-10	MD(I,K)			2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 86. Data Checksheet for Electronics Sample Case, Card Type 7--End of Event 3.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
4	2-6	IEVENT	4				
	2-6	T2	.30				
	2-6	NC	0				
	2-6	WEAPN(1)	MARK				
	2-6	WEAPN(2)	b82b				
	2-6	WEAPN(3)	SNAK				
	2-6	WEAPN(4)	EYE				
	2-6	WEAPN(5)					
	2-6	WEAPN(6)					
	2-6	WEAPN(7)					
	2-6	MDT	F				

FIGURE 87. Data Checksheet for Electronics Sample Case, Card Type 4—Event 4.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1	7B	2-11	LMAT(I,K,1)	THIS CARD
	2-10	LLF(K)	1		2-11	LMAT(I,K,2)	IS BLANK
	2-10	LQ(I,K)	1		2-11	LMAT(I,K,3)	FOR THIS
	2-10	LLQ(I,K)	2		2-11	LMAT(I,K,4)	CASE
	2-10	FNAME(I,K,1)	MILI		2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)	TARY		2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)	bFUN		2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)	CTIO		2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)	NbA		2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)	0		2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)	0		2-11	LMAT(I,K,16)	
	2-10	MD(I,K)	F		2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 88. Data Checksheet for Electronics Sample Case, Card Type 7—Event 4, Military Function A.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1	7B	2-11	LMAT(I,K,1)	1
	2-10	LLF(K)	2		2-11	LMAT(I,K,2)	
	2-10	LQ(I,K)	2		2-11	LMAT(I,K,3)	
	2-10	LLQ(I,K)	1		2-11	LMAT(I,K,4)	
	2-10	FNAME(I,K,1)	bbNO		2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)	RMAL		2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)	bMOD		2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)	E		2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)			2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)	0		2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)	0		2-11	LMAT(I,K,16)	
	2-10	MD(I,K)	F		2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 89. Data Checksheet for Electronics Sample Case, Card Type 7–Event 4, Military Function A, Normal Mode.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	3
	2-10	LQ(I,K)	5
	2-10	LLQ(I,K)	5
	2-10	FNAME(I,K,1)	bbCO
	2-10	FNAME(I,K,2)	MPLE
	2-10	FNAME(I,K,3)	TEbF
	2-10	FNAME(I,K,4)	AILU
	2-10	FNAME(I,K,5)	RE
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 90. Data Checksheet for Electronics Sample Case, Card Type 7–Event 4, Military Function A, Complete Failure.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	0	7B	2-11	LMAT(I,K,1)	THIS CARD
	2-10	LLF(K)	99		2-11	LMAT(I,K,2)	IS BLANK
	2-10	LQ(I,K)	0		2-11	LMAT(I,K,3)	FOR THIS
	2-10	LLQ(I,K)	0		2-11	LMAT(I,K,4)	CASE
	2-10	FNAME(I,K,1)			2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)			2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)			2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)			2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)			2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)			2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)			2-11	LMAT(I,K,16)	
	2-10	MD(I,K)			2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 91. Data Checksheet for Electronics Sample Case, Card Type 7–Event 4, End of Military Function A.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	2
	2-10	LLF(K)	1
	2-10	LQ(I,K)	2
	2-10	LLQ(I,K)	2
	2-10	FNAME(I,K,1)	MILI
	2-10	FNAME(I,K,2)	TARY
	2-10	FNAME(I,K,3)	bFUN
	2-10	FNAME(I,K,4)	CTIO
	2-10	FNAME(I,K,5)	NbB
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 92. Data Checksheet for Electronics Sample Case, Card Type 7—Event 4, Military Function B.

DATA CHECKSHEET

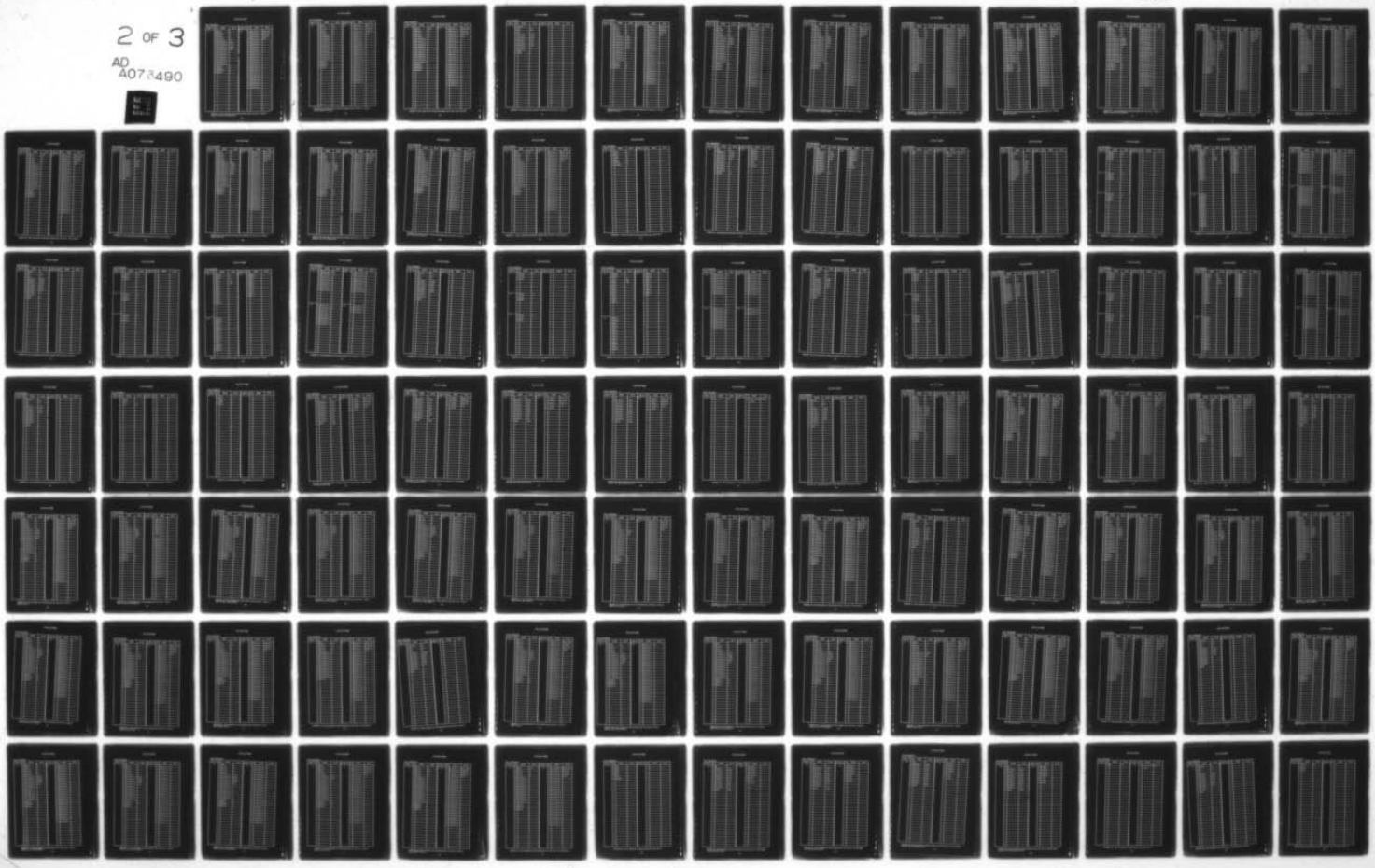
CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	2
	2-10	LLF(K)	2
	2-10	LQ(I,K)	5
	2-10	LLQ(I,K)	5
	2-10	FNAME(I,K,1)	bbNO
	2-10	FNAME(I,K,2)	RMAL
	2-10	FNAME(I,K,3)	bMOD
	2-10	FNAME(I,K,4)	E
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

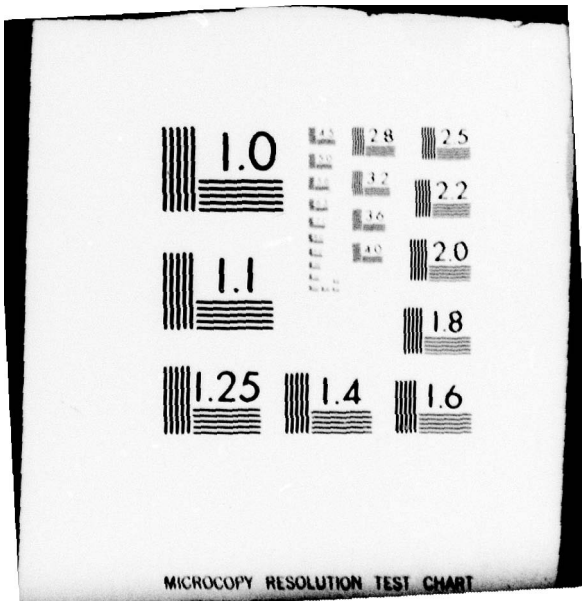
CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	2
	2-11	LMAT(I,K,2)	
	2-11	LMAT(I,K,3)	
	2-11	LMAT(I,K,4)	
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 93. Data Checksheet for Electronics Sample Case, Card Type 7–Event 4, Military Function B, Normal Mode.

AD-A073 490 ARMAMENT SYSTEMS INC ANAHEIM CA F/G 15/3
MISDEM COMPUTER SIMULATION. VOLUME I. USER MANUAL.(U)
JUL 79 G L GALLIEN, S C SILVER N00123-75-C-1265
UNCLASSIFIED JTCG/AS-76-S-003 NL

2 OF 3
AD A073490




1.0
1.1
1.25
1.4
1.6
1.8
2.0
2.2
2.5
2.8
3.2
3.6
4.0
MICROCOPY RESOLUTION TEST CHART

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	2	7B	2-11	LMAT(I,K,1)	THIS CARD
	2-10	LLF(K)	3		2-11	LMAT(I,K,2)	IS BLANK
	2-10	LQ(I,K)	5		2-11	LMAT(I,K,3)	FOR THIS
	2-10	LLQ(I,K)	5		2-11	LMAT(I,K,4)	CASE
	2-10	FNAME(I,K1)	bbDE		2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)	GRAD		2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)	EDbM		2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)	ODE		2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)			2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)	0		2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)	0		2-11	LMAT(I,K,16)	
	2-10	MD(I,K)	F		2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 94. Data Checksheet for Electronics Sample Case, Card Type 7—Event 4, Military Function B, Degraded Mode.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	0	7B	2-11	LMAT(I,K,1)	THIS CARD
	2-10	LLF(K)	99		2-11	LMAT(I,K,2)	IS BLANK
	2-10	LQ(I,K)	0		2-11	LMAT(I,K,3)	FOR THIS
	2-10	LLQ(I,K)	0		2-11	LMAT(I,K,4)	CASE
	2-10	FNAME(I,K,1)			2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)			2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)			2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)			2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)			2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)			2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)			2-11	LMAT(I,K,16)	
	2-10	MD(I,K)			2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 95. Data Checksheet for Electronics Sample Case, Card Type 7–Event 4, End of Military Function B.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	999	7B	2-11	LMAT(I,K,1)	THIS CARD
	2-10	LLF(K)	0		2-11	LMAT(I,K,2)	IS BLANK
	2-10	LQ(I,K)	0		2-11	LMAT(I,K,3)	FOR THIS
	2-10	LLQ(I,K)	0		2-11	LMAT(I,K,4)	CASE
	2-10	FNAME(I,K,1)			2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)			2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)			2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)			2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)			2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)			2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)			2-11	LMAT(I,K,16)	
	2-10	MD(I,K)			2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 96. Data Checksheet for Electronics Sample Case, Type 4–End of Event 4.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
4	2-6	IEVENT	5				
	2-6	T2	.40				
	2-6	NC	6				
	2-6	WEAPN(1)	23MM				
	2-6	WEAPN(2)	bQUA				
	2-6	WEAPN(3)	D,bP				
	2-6	WEAPN(4)	OSIT				
	2-6	WEAPN(5)	IONb				
	2-6	WEAPN(6)	4				
	2-6	WEAPN(7)					
	2-6	MDT	T				

FIGURE 97. Data Checksheet for Electronics Sample Case, Card Type 4—Event 5.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	1
	2-10	LQ(I,K)	1
	2-10	LLQ(I,K)	2
	2-10	FNAME(I,K,1)	MILI
	2-10	FNAME(I,K,2)	TARY
	2-10	FNAME(I,K,3)	bFUN
	2-10	FNAME(I,K,4)	CTIO
	2-10	FNAME(I,K,5)	NbA
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 98. Data Checksheet for Electronics Sample Case, Card Type 7–Event 5, Military Function A.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1	7B	2-11	LMAT(I,K,1)	1
	2-10	LLF(K)	2		2-11	LMAT(I,K,2)	
	2-10	LQ(I,K)	2		2-11	LMAT(I,K,3)	
	2-10	LLQ(I,K)	1		2-11	LMAT(I,K,4)	
	2-10	FNAME(I,K,1)	bbNO		2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)	RMAL		2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)	bMOD		2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)	E		2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)			2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)	0		2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)	0		2-11	LMAT(I,K,16)	
	2-10	MD(I,K)	F		2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 99. Data Checksheet for Electronics Sample Case, Card Type 7–Event 5, Military Function A, Normal Mode.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	3
	2-10	LQ(I,K)	5
	2-10	LLQ(I,K)	5
	2-10	FNAME(I,K,1)	bbCO
	2-10	FNAME(I,K,2)	MPLE
	2-10	FNAME(I,K,3)	TEbF
	2-10	FNAME(I,K,4)	AILU
	2-10	FNAME(I,K,5)	RE
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 100. Data Checksheet for Electronics Sample Case, Card Type 7—Event 5, Military Function A, Complete Failure.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	0
	2-10	LLF(K)	99
	2-10	LQ(I,K)	0
	2-10	LLQ(I,K)	0
	2-10	FNAME(I,K,1)	
	2-10	FNAME(I,K,2)	
	2-10	FNAME(I,K,3)	
	2-10	FNAME(I,K,4)	
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	
	2-10	MMQ(I,K)	
	2-10	MD(I,K)	

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 101. Data Checksheet for Electronics Sample Case, Card Type 7--Event 5, End of Military Function A.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	2	7B	2-11	LMAT(I,K,1)	THIS CARD
	2-10	LLF(K)	1		2-11	LMAT(I,K,2)	IS BLANK
	2-10	LQ(I,K)	2		2-11	LMAT(I,K,3)	FOR THIS
	2-10	LLQ(I,K)	2		2-11	LMAT(I,K,4)	CASE
	2-10	FNAME(I,K,1)	MILI		2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)	TARY		2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)	bFUN		2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)	CTIO		2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)	NbB		2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)	0		2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)	0		2-11	LMAT(I,K,16)	
	2-10	MD(I,K)	F		2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 102. Data Checksheet for Electronics Sample Case, Card Type 7–Event 5, Military Function B.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(1)	2		2-11	LMAT(I,K,1)	2
	2-10	LLF(K)	2		2-11	LMAT(I,K,2)	
	2-10	LQ(I,K)	5		2-11	LMAT(I,K,3)	
	2-10	LLQ(I,K)	5		2-11	LMAT(I,K,4)	
	2-10	FNAME(I,K,1)	bbNO		2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)	RMAL		2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)	bMOD		2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)	E		2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)			2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)	0		2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)	0		2-11	LMAT(I,K,16)	
	2-10	MD(I,K)	F		2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 103. Data Checksheet for Electronics Sample Case, Card Type 7–Event 5, Military Function B, Normal Mode.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	2	7B	2-11	LMAT(I,K,1)	THIS CARD
	2-10	LLF(K)	3		2-11	LMAT(I,K,2)	iS BLANK
	2-10	LQ(I,K)	5		2-11	LMAT(I,K,3)	FOR THIS
	2-10	LLQ(I,K)	5		2-11	LMAT(I,K,4)	CASE
	2-10	FNAME(I,K,1)	bbDE		2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)	GRAD		2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)	EDbM		2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)	ODE		2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)			2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)	5		2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)	5		2-11	LMAT(I,K,16)	
	2-10	MD(I,K)	T		2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 104. Data Checksheet for Electronics Sample Case, Card Type 7–Event 5, Military Function B, Degraded Mode.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	0
	2-10	LLF(K)	99
	2-10	LQ(I,K)	0
	2-10	LLQ(I,K)	0
	2-10	FNAME(I,K,1)	
	2-10	FNAME(I,K,2)	
	2-10	FNAME(I,K,3)	
	2-10	FNAME(I,K,4)	
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	
	2-10	MMQ(I,K)	
	2-10	MD(I,K)	

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 105. Data Checksheet for Electronics Sample Case, Card Type 7–Event 5, End of Military Function B.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	999	7B	2-11	LMAT(I,K,1)	THIS CARD
	2-10	LLF(K)	0		2-11	LMAT(I,K,2)	IS BLANK
	2-10	LQ(I,K)	0		2-11	LMAT(I,K,3)	FOR THIS
	2-10	LLQ(I,K)	0		2-11	LMAT(I,K,4)	CASE
	2-10	FNAME(I,K,1)			2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)			2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)			2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)			2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)			2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)			2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)			2-11	LMAT(I,K,16)	
	2-10	MD(I,K)			2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 106. Data Checksheet for Electronics Sample Case, Card Type 7–End of Event 5.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
4	2-6	IEVENT	6				
	2-6	T2	.50				
	2-6	NC	0				
	2-6	WEAPN(1)	LAND				
	2-6	WEAPN(2)	bATb				
	2-6	WEAPN(3)	BASE				
	2-6	WEAPN(4)					
	2-6	WEAPN(5)					
	2-6	WEAPN(6)					
	2-6	WEAPN(7)					
	2-6	MDT	T				

FIGURE 107. Data Checksheet for Electronics Sample Case, Card Type 4--Event 6.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	1
	2-10	LQ(I,K)	1
	2-10	LLQ(I,K)	2
	2-10	FNAME(I,K,1)	MILI
	2-10	FNAME(I,K,2)	TARY
	2-10	FNAME(I,K,3)	bFUN
	2-10	FNAME(I,K,4)	CTIO
	2-10	FNAME(I,K,5)	NbA
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 108. Data Checksheet for Electronics Sample Case, Card Type 7–Event 6, Military Function A.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	2
	2-10	LQ(I,K)	5
	2-10	LLQ(I,K)	5
	2-10	FNAME(I,K,1)	bbNO
	2-10	FNAME(I,K,2)	RMAL
	2-10	FNAME(I,K,3)	bMOD
	2-10	FNAME(I,K,4)	E
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 109. Data Checksheet for Electronics Sample Case, Card Type 7–Event 6, Military Function A, Normal Mode.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	0	7B	2-11	LMAT(I,K,1)	THIS CARD
	2-10	LLF(K)	99		2-11	LMAT(I,K,2)	IS BLANK
	2-10	LQ(I,K)	0		2-11	LMAT(I,K,3)	FOR THIS
	2-10	LLQ(I,K)	0		2-11	LMAT(I,K,4)	CASE
	2-10	FNAME(I,K,1)			2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)			2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)			2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)			2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)			2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)			2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)			2-11	LMAT(I,K,16)	
	2-10	MD(I,K)			2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 110. Data Checksheet for Electronics Sample Case, Card Type 7–Event 6, End of Military Function A.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	999	7B	2-11	LMAT(I,K,1)	THIS CARD
	2-10	LLF(K)	0		2-11	LMAT(I,K,2)	IS BLANK
	2-10	LQ(I,K)	0		2-11	LMAT(I,K,3)	FOR THIS
	2-10	LLQ(I,K)	0		2-11	LMAT(I,K,4)	CASE
	2-10	FNAME(I,K,1)			2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)			2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)			2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)			2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)			2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)			2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)			2-11	LMAT(I,K,16)	
	2-10	MD(I,K)			2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 111. Data Checksheet for Electronics Sample Case, Card Type 7–End of Event 6.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
9	2-13	NZT	2				
	2-13	MCR	0				
	2-13	MPR	0				
	2-13	MAV	0				
	2-13	MLTH	0				
	2-13	NABORT	0				

FIGURE 112. Data Checksheet for Electronics Sample Case, Card Type 9.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
10A	2-14	M	1
	2-14	DNAME(1)	ELEC
	2-14	DNAME(2)	TRON
	2-14	DNAME(3)	ICSb
	2-14	DNAME(4)	A
	2-14	DNAME(5)	
	2-14	DNAME(6)	
	2-14	DNAME(7)	
	2-14	DNAME(8)	
	2-14	TBFM	10.

CARD ID	PG	PARAM	VALUE
10B	2-15	HDMT(1)	
	2-15	HDMT(2)	
	2-15	HDMT(3)	
	2-15	HDMT(4)	
	2-15	TMN	.1
	2-15	TMF	.6
	2-15	ONOFF	

FIGURE 113. Data Checksheet for Electronics Sample Case, Card Type 10–Electronics A.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
10A	2-14	M	2	10B	2-15	HDMT(1)	
	2-14	DNAME(1)	ELEC		2-15	HDMT(2)	
	2-14	DNAME(2)	TRON		2-15	HDMT(3)	
	2-14	DNAME(3)	ICSb		2-15	HDMT(4)	
	2-14	DNAME(4)	B		2-15	TMN	.1
	2-14	DNAME(5)			2-15	TMF	.6
	2-14	DNAME(6)			2-15	ONOFF	
	2-14	DNAME(7)					
	2-14	DNAME(8)					
	2-14	TBFM	20.				

FIGURE 114. Data Checksheet for Electronics Sample Case, Card Type 10–Electronics B.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
11A	2-16	M	999	11B	2-16	THIS CARD IS	ALWAYS
						BLANK	

FIGURE 115. Data Checksheet for Electronics Sample Case, Card Type 11.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
12	2-17	IEVENT	1				
	2-17	T2	.10				
	2-17	NC	6				
	2-17	WEAPN(1)	23MM				
	2-17	WEAPN(2)	bQUA				
	2-17	WEAPN(3)	D,bP				
	2-17	WEAPN(4)	OSIT				
	2-17	WEAPN(5)	IONb				
	2-17	WEAPN(6)	4				
	2-17	WEAPN(7)					
	2-17	MDT	T				

FIGURE 116. Data Checksheet for Electronics Sample Case, Card Type 12–Event 1.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
15	2-21	CEP(J)	10.				
	2-21	FA(J)	1.				
	2-21	PK(J)					
15	2-21	CEP(J)	10.				
	2-21	FA(J)	1.				
	2-21	PK(J)					
15	2-21	CEP(J)	10.				
	2-21	FA(J)	1.				
	2-21	PK(J)					

FIGURE 117. Data Checksheet for Electronics Sample Case, Card Type 15–Event 1.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
16A	2-22	LMAX	1
	2-22	KMAX	2
	2-22	R(1)	100.
	2-22	R(2)	1000.
	2-22	R(3)	
	2-22	R(4)	
	2-22	R(5)	
	2-22	R(6)	
	2-22	R(7)	
	2-22	R(8)	
	2-22	R(9)	
	2-22	R(10)	
16B	2-22	LMAX	
	2-22	KMAX	
	2-22	R(11)	
	2-22	R(12)	
	2-22	R(13)	
	2-22	R(13)	
	2-22	R(14)	
	2-22	R(15)	
	2-22	R(16)	
	2-22	R(17)	
	2-22	R(18)	
	2-22	R(19)	
	2-22	R(20)	

CARD ID	PG	PARAM	VALUE
16C	2-22	LMAX	
	2-22	KMAX	
	2-22	R(21)	
	2-22	R(22)	
	2-22	R(23)	
	2-22	R(24)	
	2-22	R(25)	
	2-22	R(26)	
	2-22	R(27)	

FIGURE 118. Data Checksheet for Electronics Sample Case, Card Type 16–Event 1.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
17A	2-23	PCKILL(M,L,1)	0.
	2-23	PCKILL(M,L,2)	0.
	2-23	PCKILL(M,L,3)	
	2-23	PCKILL(M,L,4)	
	2-23	PCKILL(M,L,5)	
	2-23	PCKILL(M,L,6)	
	2-23	PCKILL(M,L,7)	
	2-23	PCKILL(M,L,8)	
17B	2-23	PCKILL(M,L,9)	.1
	2-23	PCKILL(M,L,10)	0.
	2-23	PCKILL(M,L,11)	
	2-23	PCKILL(M,L,12)	
	2-23	PCKILL(M,L,13)	
	2-23	PCKILL(M,L,14)	
	2-23	PCKILL(M,L,15)	
	2-23	PCKILL(M,L,16)	

CARD ID	PG	PARAM	VALUE
17C	2-23	PCKILL(M,L,17)	
	2-23	PCKILL(M,L,18)	
	2-23	PCKILL(M,L,19)	
	2-23	PCKILL(M,L,20)	
	2-23	PCKILL(M,L,21)	
	2-23	PCKILL(M,L,22)	
	2-23	PCKILL(M,L,23)	
	2-23	PCKILL(M,L,24)	
17D	2-23	PCKILL(M,L,25)	
	2-23	PCKILL(M,L,26)	
	2-23	PCKILL(M,L,27)	

FIGURE 119. Data Checksheet for Electronics Sample Case, Card Type 17–Event 1.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
12	2-17	IEVENT	2				
	2-17	T2	.20				
	2-17	NC	6				
	2-17	WEAPN(1)	23MM				
	2-17	WEAPN(2)	bQUA				
	2-17	WEAPN(3)	D,bP				
	2-17	WEAPN(4)	OSIT				
	2-17	WEAPN(5)	IONb				
	2-17	WEAPN(6)	4				
	2-17	WEAPN(7)					
	2-17	MDT	T				

FIGURE 120. Data Checksheet for Electronics Sample Case, Card Type 12–Event 2.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
15	2-21	CEP(J)	10.				
	2-21	FA(J)	1.				
	2-21	PK(J)					
15	2-21	CEP(J)	10.				
	2-21	FA(J)	1.				
	2-21	PK(J)					
15	2-21	CEP(J)	10.				
	2-21	FA(J)	1.				
	2-21	PK(J)					

FIGURE 121. Data Checksheet for Electronics Sample Case, Card Type 15–Event 2.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
16A	2-22	LMAX	1
	2-22	KMAX	2
	2-22	R(1)	100.
	2-22	R(2)	1000.
	2-22	R(3)	
	2-22	R(4)	
	2-22	R(5)	
	2-22	R(6)	
	2-22	R(7)	
	2-22	R(8)	
	2-22	R(9)	
	2-22	R(10)	
16B	2-22	LMAX	
	2-22	KMAX	
	2-22	R(11)	
	2-22	R(12)	
	2-22	R(13)	
	2-22	R(13)	
	2-22	R(14)	
	2-22	R(15)	
	2-22	R(16)	
	2-22	R(17)	
	2-22	R(18)	
	2-22	R(19)	
	2-22	R(20)	

CARD ID	PG	PARAM	VALUE
16C	2-22	LMAX	
	2-22	KMAX	
	2-22	R(21)	
	2-22	R(22)	
	2-22	R(23)	
	2-22	R(24)	
	2-22	R(25)	
	2-22	R(26)	
	2-22	R(27)	

FIGURE 122. Data Checksheet for Electronics Sample Case, Card Type 16–Event 2.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
17A	2-23	PCKILL(M,L,1)	0.	17C	2-23	PCKILL(M,L,17)	
	2-23	PCKILL(M,L,2)	0.		2-23	PCKILL(M,L,18)	
	2-23	PCKILL(M,L,3)			2-23	PCKILL(M,L,19)	
	2-23	PCKILL(M,L,4)			2-23	PCKILL(M,L,20)	
	2-23	PCKILL(M,L,5)			2-23	PCKILL(M,L,21)	
	2-23	PCKILL(M,L,6)			2-23	PCKILL(M,L,22)	
	2-23	PCKILL(M,L,7)			2-23	PCKILL(M,L,23)	
	2-23	PCKILL(M,L,8)			2-23	PCKILL(M,L,24)	
17B	2-23	PCKILL(M,L,9)	.1	17D	2-23	PCKILL(M,L,25)	
	2-23	PCKILL(M,L,10)	0.		2-23	PCKILL(M,L,26)	
	2-23	PCKILL(M,L,11)			2-23	PCKILL(M,L,27)	
	2-23	PCKILL(M,L,12)					
	2-23	PCKILL(M,L,13)					
	2-23	PCKILL(M,L,14)					
	2-23	PCKILL(M,L,15)					
	2-23	PCKILL(M,L,16)					

FIGURE 123. Data Checksheet for Electronics Sample Case, Card Type 17–Event 2.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
12	2-17	IEVENT	3				
	2-17	T2	.30				
	2-17	NC	6				
	2-17	WEAPN(1)	23MM				
	2-17	WEAPN(2)	bQUA				
	2-17	WEAPN(3)	D,bP				
	2-17	WEAPN(4)	OSIT				
	2-17	WEAPN(5)	IONb				
	2-17	WEAPN(6)	4				
	2-17	WEAPN(7)					
	2-17	MDT	T				

FIGURE 124. Data Checksheet for Electronics Sample Case, Card Type 12–Event 3.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
15	2-21	CEP(J)	10.				
	2-21	FA(J)	1.				
	2-21	PK(J)					
15	2-21	CEP(J)	10.				
	2-21	FA(J)	1.				
	2-21	PK(J)					
15	2-21	CEP(J)	10.				
	2-21	FA(J)	1.				
	2-21	PK(J)					

FIGURE 125. Data Checksheet for Electronics Sample Case, Card Type 15–Event 3.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
16A	2-22	LMAX	1
	2-22	KMAX	2
	2-22	R(1)	100.
	2-22	R(2)	1000.
	2-22	R(3)	
	2-22	R(4)	
	2-22	R(5)	
	2-22	R(6)	
	2-22	R(7)	
	2-22	R(8)	
	2-22	R(9)	
	2-22	R(10)	
16B	2-22	LMAX	
	2-22	KMAX	
	2-22	R(11)	
	2-22	R(12)	
	2-22	R(13)	
	2-22	R(13)	
	2-22	R(14)	
	2-22	R(15)	
	2-22	R(16)	
	2-22	R(17)	
	2-22	R(18)	
	2-22	R(19)	
	2-22	R(20)	

CARD ID	PG	PARAM	VALUE
16C	2-22	LMAX	
	2-22	KMAX	
	2-22	R(21)	
	2-22	R(22)	
	2-22	R(23)	
	2-22	R(24)	
	2-22	R(25)	
	2-22	R(26)	
	2-22	R(27)	

FIGURE 126. Data Checksheet for Electronics Sample Case, Card Type 16–Event 3.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
17A	2-23	PCKILL(M,L,1)	0.
	2-23	PCKILL(M,L,2)	0.
	2-23	PCKILL(M,L,3)	
	2-23	PCKILL(M,L,4)	
	2-23	PCKILL(M,L,5)	
	2-23	PCKILL(M,L,6)	
	2-23	PCKILL(M,L,7)	
	2-23	PCKILL(M,L,8)	
17B	2-23	PCKILL(M,L,9)	.1
	2-23	PCKILL(M,L,10)	0.
	2-23	PCKILL(M,L,11)	
	2-23	PCKILL(M,L,12)	
	2-23	PCKILL(M,L,13)	
	2-23	PCKILL(M,L,14)	
	2-23	PCKILL(M,L,15)	
	2-23	PCKILL(M,L,16)	

CARD ID	PG	PARAM	VALUE
17C	2-23	PCKILL(M,L,17)	
	2-23	PCKILL(M,L,18)	
	2-23	PCKILL(M,L,19)	
	2-23	PCKILL(M,L,20)	
	2-23	PCKILL(M,L,21)	
	2-23	PCKILL(M,L,22)	
	2-23	PCKILL(M,L,23)	
	2-23	PCKILL(M,L,24)	
17D	2-23	PCKILL(M,L,25)	
	2-23	PCKILL(M,L,26)	
	2-23	PCKILL(M,L,27)	

FIGURE 127. Data Checksheet for Electronics Sample Case, Card Type 17–Event 3.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
12	2-17	IEVENT	4				
	2-17	T2	.30				
	2-17	NC	0.				
	2-17	WEAPN(1)	MARK				
	2-17	WEAPN(2)	b82b				
	2-17	WEAPN(3)	SNAK				
	2-17	WEAPN(4)	EYE				
	2-17	WEAPN(5)					
	2-17	WEAPN(6)					
	2-17	WEAPN(7)					
	2-17	MDT	F				

FIGURE 128. Data Checksheet for Electronics Sample Case, Card Type 12—Event 4.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
15	2-21	CEP(J)					
	2-21	FA(J)					
	2-21	PK(J)	0.9				
15	2-21	CEP(J)					
	2-21	FA(J)					
	2-21	PK(J)	0.0				
15	2-21	CEP(J)					
	2-21	FA(J)					
	2-21	PK(J)	0.6				

FIGURE 129. Data Checksheet for Electronics Sample Case, Card Type 15–Event 4.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
12	2-17	IEVENT	5				
	2-17	T2	.40				
	2-17	NC	6				
	2-17	WEAPN(1)	23MM				
	2-17	WEAPN(2)	bQUA				
	2-17	WEAPN(3)	D,bP				
	2-17	WEAPN(4)	OSIT				
	2-17	WEAPN(5)	IONb				
	2-17	WEAPN(6)	4				
	2-17	WEAPN(7)					
	2-17	MDT	T				

FIGURE 130. Data Checksheet for Electronics Sample Case, Card Type 12–Event 5.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
15	2-21	CEP(J)	10.				
	2-21	FA(J)	1.				
	2-21	PK(J)					
15	2-21	CEP(J)	10.				
	2-21	FA(J)	1.				
	2-21	PK(J)					
15	2-21	CEP(J)	10.				
	2-21	FA(J)	1.				
	2-21	PK(J)					

FIGURE 131. **Data Checksheet for Electronics Sample Case,** Card Type 15–Event 5.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
16A	2-22	LMAX	1
	2-22	KMAX	2
	2-22	R(1)	100.
	2-22	R(2)	1000.
	2-22	R(3)	
	2-22	R(4)	
	2-22	R(5)	
	2-22	R(6)	
	2-22	R(7)	
	2-22	R(8)	
	2-22	R(9)	
	2-22	R(10)	
16B	2-22	LMAX	
	2-22	KMAX	
	2-22	R(11)	
	2-22	R(12)	
	2-22	R(13)	
	2-22	R(13)	
	2-22	R(14)	
	2-22	R(15)	
	2-22	R(16)	
	2-22	R(17)	
	2-22	R(18)	
	2-22	R(19)	
	2-22	R(20)	

CARD ID	PG	PARAM	VALUE
16C	2-22	LMAX	
	2-22	KMAX	
	2-22	R(21)	
	2-22	R(22)	
	2-22	R(23)	
	2-22	R(24)	
	2-22	R(25)	
	2-22	R(26)	
	2-22	R(27)	

FIGURE 132. Data Checksheet for Electronics Sample Case, Card Type 16–Event 5.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
17A	2-23	PCKILL(M,L,1)	0.	17C	2-23	PCKILL(M,L,17)	
	2-23	PCKILL(M,L,2)	0.		2-23	PCKILL(M,L,18)	
	2-23	PCKILL(M,L,3)			2-23	PCKILL(M,L,19)	
	2-23	PCKILL(M,L,4)			2-23	PCKILL(M,L,20)	
	2-23	PCKILL(M,L,5)			2-23	PCKILL(M,L,21)	
	2-23	PCKILL(M,L,6)			2-23	PCKILL(M,L,22)	
	2-23	PCKILL(M,L,7)			2-23	PCKILL(M,L,23)	
	2-23	PCKILL(M,L,8)			2-23	PCKILL(M,L,24)	
17B	2-23	PCKILL(M,L,9)	.1	17D	2-23	PCKILL(M,L,25)	
	2-23	PCKILL(M,L,10)	0.		2-23	PCKILL(M,L,26)	
	2-23	PCKILL(M,L,11)			2-23	PCKILL(M,L,27)	
	2-23	PCKILL(M,L,12)					
	2-23	PCKILL(M,L,13)					
	2-23	PCKILL(M,L,14)					
	2-23	PCKILL(M,L,15)					
	2-23	PCKILL(M,L,16)					

FIGURE 133. Data Checksheet for Electronics Sample Case, Card Type 17–Event 5.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
12	2-17	IEVENT	6				
	2-17	T2	.50				
	2-17	NC	0				
	2-17	WEAPN(1)	LAND				
	2-17	WEAPN(2)	bATb				
	2-17	WEAPN(3)	BASE				
	2-17	WEAPN(4)					
	2-17	WEAPN(5)					
	2-17	WEAPN(6)					
	2-17	WEAPN(7)					
	2-17	MDT	T				

FIGURE 134. Data Checksheet for Electronics Sample Case, Card Type 12–Event 6.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
15		CEP(J)					
		FA(J)					
		PK(J)	0.0				

FIGURE 135. Data Checksheet for Electronics Sample Case, Card Type 15–Event 6.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
1	2-2	NZT	4				
	2-2	MCR	1 -				
	2-2	MPR	1				
	2-2	MAV	1				

FIGURE 136. Data Checksheet for Vehicle Sample Case, Card Type 1.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
2A	2-3	M	1	2B	2-4	HDMT(1)	THIS CARD
	2-3	DNAME(1)	VEHb		2-4	HDMT(2)	IS BLANK
	2-3	DNAME(2)	ACTU		2-4	HDMT(3)	FOR THIS
	2-3	DNAME(3)	ALLY		2-4	HDMT(4)	CASE
	2-3	DNAME(4)	bGOO		2-4	ONOFF	
	2-3	DNAME(5)	DbFO				
	2-3	DNAME(6)	Rb2b				
	2-3	DNAME(7)	ORb3				
	2-3	DNAME(8)	bDT				
	2-3	TBFM	10000.				

FIGURE 137. Data Checksheet for Vehicle Sample Case, Card Type 2–Vehicle Flight Time Remaining, First Bit.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
2A	2-3	M	2	2B	2-4	HDMT(1)	THIS CARD
	2-3	DNAME(1)	VEHb		2-4	HDMT(2)	IS BLANK
	2-3	DNAME(2)	bACT		2-4	HDMT(3)	FOR THIS
	2-3	DNAME(3)	UALL		2-4	HDMT(4)	CASE
	2-3	DNAME(4)	YbGO		2-4	ONOFF	
	2-3	DNAME(5)	ODbF				
	2-3	DNAME(6)	ORbD				
	2-3	DNAME(7)	ELTA				
	2-3	DNAME(8)	bT				
	2-3	TBFM	10000.				

FIGURE 138. Data Checksheet for Vehicle Sample Case, Card Type 2–Vehicle Flight Time Remaining, Second Bit.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
2A	2-3	M	3
	2-3	DNAME(1)	VEHb
	2-3	DNAME(2)	APPA
	2-3	DNAME(3)	RENT
	2-3	DNAME(4)	LYbG
	2-3	DNAME(5)	OODb
	2-3	DNAME(6)	FORb
	2-3	DNAME(7)	20R3
	2-3	DNAME(8)	bDT
	2-3	TBFM	10000.

CARD ID	PG	PARAM	VALUE
2B	2-4	HDMT(1)	THIS CARD
	2-4	HDMT(2)	IS BLANK
	2-4	HDMT(3)	FOR THIS
	2-4	HDMT(4)	CASE
	2-4	ONOFF	

FIGURE 139. Data Checksheet for Vehicle Sample Case, Card Type 2–Vehicle Failure Detection Time Remaining, First Bit.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
2A	2-3	M	4
	2-3	DNAME(1)	VEHb
	2-3	DNAME(2)	bAPP
	2-3	DNAME(3)	AREN
	2-3	DNAME(4)	TLYb
	2-3	DNAME(5)	GOOD
	2-3	DNAME(6)	bFOR
	2-3	DNAME(7)	bDEL
	2-3	DNAME(8)	TAbT
	2-3	TBFM	10000.

CARD ID	PG	PARAM	VALUE
2B	2-4	HDMT(1)	THIS CARD
	2-4	HDMT(2)	IS BLANK
	2-4	HDMT(3)	FOR THIS
	2-4	HDMT(4)	CASE
	2-4	ONOFF	

FIGURE 140. Data Checksheet for Vehicle Sample Case, Card Type 2–Vehicle Failure Detection Time Remaining, Second Bit.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
3A	2-5	M	999	3B	2-5	THIS CARD IS	ALWAYS
						BLANK	

FIGURE 141. Data Checksheet for Vehicle Sample Case, Card Type 3.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
4	2-6	IEVENT	1				
	2-6	T2	.10				
	2-6	NC	7				
	2-6	WEAPN(1)	23MM				
	2-6	WEAPN(2)	bQUA				
	2-6	WEAPN(3)	D,bP				
	2-6	WEAPN(4)	OSIT				
	2-6	WEAPN(5)	IONb				
	2-6	WEAPN(6)	4				
	2-6	WEAPN(7)					
	2-6	MDT	T				

FIGURE 142. Data Checksheet for Vehicle Sample Case, Card Type 4–Event 1.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	1
	2-10	LQ(I,K)	1
	2-10	LLQ(I,K)	2
	2-10	FNAME(I,K,1)	FLIG
	2-10	FNAME(I,K,2)	HTbF
	2-10	FNAME(I,K,3)	UNCT
	2-10	FNAME(I,K,4)	ION
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 143. Data Checksheet for Vehicle Sample Case, Card Type 7–Event 1, Flight Function.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1	7B	2-11	LMAT(I,K,1)	THIS CARD
	2-10	LLF(K)	2		2-11	LMAT(I,K,2)	IS BLANK
	2-10	LQ(I,K)	5		2-11	LMAT(I,K,3)	FOR THIS
	2-10	LLQ(I,K)	5		2-11	LMAT(I,K,4)	CARD
	2-10	FNAME(I,K,1)	bbNO		2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)	RMAL		2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)	bMOD		2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)	E		2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)			2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)	0		2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)	0		2-11	LMAT(I,K,16)	
	2-10	MD(I,K)	F		2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 144. Data Checksheet for Vehicle Sample Case, Card Type 7–Event 1, Flight Function, Normal Mode.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	0
	2-10	LLF(K)	99
	2-10	LQ(I,K)	0
	2-10	LLQ(I,K)	0
	2-10	FNAME(I,K,1)	
	2-10	FNAME(I,K,2)	
	2-10	FNAME(I,K,3)	
	2-10	FNAME(I,K,4)	
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	
	2-10	MMQ(I,K)	
	2-10	MD(I,K)	

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 145. Data Checksheet for Vehicle Sample Case, Card Type 7–Event 1, End of Flight Function.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	999	7B	2-11	LMAT(I,K,1)	THIS CARD
	2-10	LLF(K)	0		2-11	LMAT(I,K,2)	IS BLANK
	2-10	LQ(I,K)	0		2-11	LMAT(I,K,3)	FOR THIS
	2-10	LLQ(I,K)	0		2-11	LMAT(I,K,4)	CASE
	2-10	FNAME(I,K,1)			2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)			2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)			2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)			2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)			2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)			2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)			2-11	LMAT(I,K,16)	
	2-10	MD(I,K)			2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 146. Data Checksheet for Vehicle Sample Case, Card Type 7–End of Event 1.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
4	2-6	IEVENT	2				
	2-6	T2	.20				
	2-6	NC	7				
	2-6	WEAPN(1)	23MM				
	2-6	WEAPN(2)	bQUA				
	2-6	WEAPN(3)	D,bP				
	2-6	WEAPN(4)	OSIT				
	2-6	WEAPN(5)	IONb				
	2-6	WEAPN(6)	4				
	2-6	WEAPN(7)					
	2-6	MDT	T				

FIGURE 147. Data Checksheet for Vehicle Sample Case, Card Type 4--Event 2.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	1
	2-10	LQ(I,K)	1
	2-10	LLQ(I,K)	2
	2-10	FNAME(I,K,1)	FLIG
	2-10	FNAME(I,K,2)	HTbF
	2-10	FNAME(I,K,3)	UNCT
	2-10	FNAME(I,K,4)	ION
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 14a. Data Checksheet for Vehicle Sample Case, Card Type 7–Event 2, Flight Functions.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	2
	2-10	LQ(I,K)	5
	2-10	LLQ(I,K)	5
	2-10	FNAME(I,K,1)	bbNO
	2-10	FNAME(I,K,2)	RMAL
	2-10	FNAME(I,K,3)	bMOD
	2-10	FNAME(I,K,4)	EbA
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	3
	2-11	LMAT(I,K,2)	
	2-11	LMAT(I,K,3)	
	2-11	LMAT(I,K,4)	
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 149. Data Checksheet for Vehicle Sample Case, Card Type 7–Event 2, Flight Function, Normal Mode A.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	3
	2-10	LQ(I,K)	5
	2-10	LLQ(I,K)	5
	2-10	FNAME(I,K,1)	bbNO
	2-10	FNAME(I,K,2)	RMAL
	2-10	FNAME(I,K,3)	bMOD
	2-10	FNAME(I,K,4)	EbB
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	4
	2-11	LMAT(I,K,2)	
	2-11	LMAT(I,K,3)	
	2-11	LMAT(I,K,4)	
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 150. Data Checksheet for Vehicle Sample Case, Card Type 7–Event 2, Flight Function, Normal Mode B.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	4
	2-10	LQ(I,K)	5
	2-10	LLQ(I,K)	5
	2-10	FNAME(I,K,1)	bbNO
	2-10	FNAME(I,K,2)	RMAL
	2-10	FNAME(I,K,3)	bMOD
	2-10	FNAME(I,K,4)	EbC
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	1
	2-11	LMAT(I,K,2)	2
	2-11	LMAT(I,K,3)	
	2-11	LMAT(I,K,4)	
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 151. Data Checksheet for Vehicle Sample Case, Card Type 7–Event 2, Flight Function, Normal Mode C.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1	7B	2-11	LMAT(I,K,1)	1
	2-10	LLF(K)	5		2-11	LMAT(I,K,2)	
	2-10	LQ(I,K)	5		2-11	LMAT(I,K,3)	
	2-10	LLQ(I,K)	5		2-11	LMAT(I,K,4)	
	2-10	FNAME(I,K,1)	bbAB		2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)	ORTb		2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)	MODE		2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)	bA		2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)			2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)	0		2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)	0		2-11	LMAT(I,K,16)	
	2-10	MD(I,K)	F		2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 152. Data Checksheet for Vehicle Sample Case, Card Type 7–Event 2, Flight Function, Abort Mode A.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	6
	2-10	LQ(I,K)	5
	2-10	LLQ(I,K)	5
	2-10	FNAME(I,K,1)	bbAB
	2-10	FNAME(I,K,2)	ORTb
	2-10	FNAME(I,K,3)	MODE
	2-10	FNAME(I,K,4)	bB
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	2
	2-11	LMAT(I,K,2)	
	2-11	LMAT(I,K,3)	
	2-11	LMAT(I,K,4)	
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 153. Data Checksheet for Vehicle Sample Case, Card Type 7—Event 2, Flight Function, Abort Mode B.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	7
	2-10	LQ(I,K)	5
	2-10	LLQ(I,K)	5
	2-10	FNAME(I,K,1)	bbDO
	2-10	FNAME(I,K,2)	WN
	2-10	FNAME(I,K,3)	
	2-10	FNAME(I,K,4)	
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 154. Data Checksheet for Vehicle Sample Case, Card Type 7–Event 2, Flight Function, Down.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	0
	2-10	LLF(K)	99
	2-10	LQ(I,K)	0
	2-10	LLQ(I,K)	0
	2-10	FNAME(I,K,1)	
	2-10	FNAME(I,K,2)	
	2-10	FNAME(I,K,3)	
	2-10	FNAME(I,K,4)	
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	
	2-10	MMQ(I,K)	
	2-10	MD(I,K)	

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 155. Data Checksheet for Vehicle Sample Case, Card Type 7–Event 2, End of Flight Function.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	999	7B	2-11	LMAT(I,K,1)	THIS CARD
	2-10	LLF(K)	0		2-11	LMAT(I,K,2)	IS BLANK
	2-10	LQ(I,K)	0		2-11	LMAT(I,K,3)	FOR THIS
	2-10	LLQ(I,K)	0		2-11	LMAT(I,K,4)	CASE
	2-10	FNAME(I,K,1)			2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)			2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)			2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)			2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)			2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)			2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)			2-11	LMAT(I,K,16)	
	2-10	MD(I,K)			2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 156. Data Checksheet for Vehicle Sample Case, Card Type 7–End of Event 2.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
4	2-6	IEVENT	3				
	2-6	T2	.30				
	2-6	NC	7				
	2-6	WEAPN(1)	23MM				
	2-6	WEAPN(2)	bQUA				
	2-6	WEAPN(3)	D,bP				
	2-6	WEAPN(4)	OSIT				
	2-6	WEAPN(5)	IONb				
	2-6	WEAPN(6)	4				
	2-6	WEAPN(7)					
	2-6	MDT	T				

FIGURE 157. Data Checksheet for Vehicle Sample Case, Card Type 4–Event 3.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1	7B	2-11	LMAT(I,K,1)	THIS CARD
	2-10	LLF(K)	1		2-11	LMAT(I,K,2)	IS BLANK
	2-10	LQ(I,K)	1		2-11	LMAT(I,K,3)	FOR THIS
	2-10	LLQ(I,K)	2		2-11	LMAT(I,K,4)	CASE
	2-10	FNAME(I,K,1)	FLIG		2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)	HTbF		2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)	UNCT		2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)	ION		2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)			2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)	0		2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)	0		2-11	LMAT(I,K,16)	
	2-10	MD(I,K)	F		2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 158. Data Checksheet for Vehicle Sample Case, Card Type 7–Event 3, Flight Function.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	2
	2-10	LQ(I,K)	5
	2-10	LLQ(I,K)	5
	2-10	FNAME(I,K,1)	bbNO
	2-10	FNAME(I,K,2)	RMAL
	2-10	FNAME(I,K,3)	bMOD
	2-10	FNAME(I,K,4)	EbA
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	3
	2-11	LMAT(I,K,2)	
	2-11	LMAT(I,K,3)	
	2-11	LMAT(I,K,4)	
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 159. Data Checksheet for Vehicle Sample Case, Card Type 7–Event 3, Flight Function, Normal Mode A.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	3
	2-10	LQ(I,K)	5
	2-10	LLQ(I,K)	5
	2-10	FNAME(I,K,1)	bbNO
	2-10	FNAME(I,K,2)	RMAL
	2-10	FNAME(I,K,3)	bMOD
	2-10	FNAME(I,K,4)	EbB
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	4
	2-11	LMAT(I,K,2)	
	2-11	LMAT(I,K,3)	
	2-11	LMAT(I,K,4)	
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 160. Data Checksheet for Vehicle Sample Case, Card Type 7–Event 3, Flight Function, Normal Mode B.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	4
	2-10	LQ(I,K)	5
	2-10	LLQ(I,K)	5
	2-10	FNAME(I,K,1)	bbNO
	2-10	FNAME(I,K,2)	RMAL
	2-10	FNAME(I,K,3)	bMOD
	2-10	FNAME(I,K,4)	EbC
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	1
	2-11	LMAT(I,K,2)	
	2-11	LMAT(I,K,3)	
	2-11	LMAT(I,K,4)	
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 161. Data Checksheet for Vehicle Sample Case, Card Type 7—Event 3, Flight Function, Normal Mode C.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	5
	2-10	LQ(I,K)	5
	2-10	LLQ(I,K)	5
	2-10	FNAME(I,K,1)	bbAB
	2-10	FNAME(I,K,2)	ORTb
	2-10	FNAME(I,K,3)	MODE
	2-10	FNAME(I,K,4)	bA
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	2
	2-11	LMAT(I,K,2)	
	2-11	LMAT(I,K,3)	
	2-11	LMAT(I,K,4)	
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 162. Data Checksheet for Vehicle Sample Case, Card Type 7–Event 3, Flight Function, Abort Mode A.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	6
	2-10	LQ(I,K)	5
	2-10	LLQ(I,K)	5
	2-10	FNAME(I,K,1)	bbDO
	2-10	FNAME(I,K,2)	WN
	2-10	FNAME(I,K,3)	
	2-10	FNAME(I,K,4)	
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 163. Data Checksheet for Vehicle Sample Case, Card Type 7–Event 3, Flight Function, Down.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	0
	2-10	LLF(K)	99
	2-10	LQ(I,K)	0
	2-10	LLQ(I,K)	0
	2-10	FNAME(I,K,1)	
	2-10	FNAME(I,K,2)	
	2-10	FNAME(I,K,3)	
	2-10	FNAME(I,K,4)	
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	
	2-10	MMQ(I,K)	
	2-10	MD(I,K)	

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 164. Data Checksheet for Vehicle Sample Case, Card Type 7–Event 3, End of Flight Function.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	999
	2-10	LLF(K)	0
	2-10	LQ(I,K)	0
	2-10	LLQ(I,K)	0
	2-10	FNAME(I,K,1)	
	2-10	FNAME(I,K,2)	
	2-10	FNAME(I,K,3)	
	2-10	FNAME(I,K,4)	
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 165. Data Checksheet for Vehicle Sample Case, Card Type 7–End of Event 3.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
4	2-6	IEVENT	5				
	2-6	T2	.40				
	2-6	NC	7				
	2-6	WEAPN(1)	23MM				
	2-6	WEAPN(2)	bQUA				
	2-6	WEAPN(3)	D,bP				
	2-6	WEAPN(4)	OSIT				
	2-6	WEAPN(5)	IONb				
	2-6	WEAPN(6)	4				
	2-6	WEAPN(7)					
	2-6	MDT	T				

FIGURE 166. Data Checksheet for Vehicle Sample Case, Card Type 4–Event 5.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	1
	2-10	LQ(I,K)	1
	2-10	LLQ(I,K)	2
	2-10	FNAME(I,K,1)	FLIG
	2-10	FNAME(I,K,2)	HTbF
	2-10	FNAME(I,K,3)	UNCT
	2-10	FNAME(I,K,4)	ION
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 167. Data Checksheet for Vehicle Sample Case, Card Type 7 - Event 5, Flight Function.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	2
	2-10	LQ(I,K)	5
	2-10	LLQ(I,K)	5
	2-10	FNAME(I,K,1)	bbNO
	2-10	FNAME(I,K,2)	RMAL
	2-10	FNAME(I,K,3)	bMOD
	2-10	FNAME(I,K,4)	EbA
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	4
	2-11	LMAT(I,K,2)	
	2-11	LMAT(I,K,3)	
	2-11	LMAT(I,K,4)	
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 168. Data Checksheet for Vehicle Sample Case, Card Type 7–Event 5, Flight Function, Normal Mode A.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	3
	2-10	LQ(I,K)	5
	2-10	LLQ(I,K)	5
	2-10	FNAME(I,K,1)	bbNO
	2-10	FNAME(I,K,2)	RMAL
	2-10	FNAME(I,K,3)	bMOD
	2-10	FNAME(I,K,4)	EbB
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	1
	2-11	LMAT(I,K,2)	
	2-11	LMAT(I,K,3)	
	2-11	LMAT(I,K,4)	
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 169. Data Checksheet for Vehicle Sample Case, Card Type 7–Event 5, Flight Function, Normal Mode B.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	4
	2-10	LQ(I,K)	5
	2-10	LLQ(I,K)	5
	2-10	FNAME(I,K,1)	bbNO
	2-10	FNAME(I,K,2)	RMAL
	2-10	FNAME(I,K,3)	bMOD
	2-10	FNAME(I,K,4)	EbC
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	2
	2-11	LMAT(I,K,2)	
	2-11	LMAT(I,K,3)	
	2-11	LMAT(I,K,4)	
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 170. Data Checksheet for Vehicle Sample Case, Card Type 7–Event 5, Flight Function, Normal Mode C.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	5
	2-10	LQ(I,K)	5
	2-10	LLQ(I,K)	5
	2-10	FNAME(I,K,1)	bbDO
	2-10	FNAME(I,K,2)	WN
	2-10	FNAME(I,K,3)	
	2-10	FNAME(I,K,4)	
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 171. Data Checksheet for Vehicle Sample Case, Card Type 7–Event 5, Flight Function, Down.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	0	7B	2-11	LMAT(I,K,1)	THIS CARD
	2-10	LLF(K)	99		2-11	LMAT(I,K,2)	IS BLANK
	2-10	LQ(I,K)	0		2-11	LMAT(I,K,3)	FOR THIS
	2-10	LLQ(I,K)	0		2-11	LMAT(I,K,4)	CASE
	2-10	FNAME(I,K,1)			2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)			2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)			2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)			2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)			2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)			2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)			2-11	LMAT(I,K,16)	
	2-10	MD(I,K)			2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 172. Data Checksheet for Vehicle Sample Case, Card Type 7—Event 5, End of Flight Function.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	999
	2-10	LLF(K)	0
	2-10	LQ(I,K)	0
	2-10	LLQ(I,K,)	0
	2-10	FNAME(I,K,1)	
	2-10	FNAME(I,K,2)	
	2-10	FNAME(I,K,3)	
	2-10	FNAME(I,K,4)	
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	
	2-10	MMQ(I,K)	
	2-10	MD(I,K)	

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 173. Data Checksheet for Vehicle Sample Case, Card Type 7–End of Event 5.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
4	2-6	IEVENT	6				
	2-6	T2	.50				
	2-6	NC	7				
	2-6	WEAPN(1)	LAND				
	2-6	WEAPN(2)	bATb				
	2-6	WEAPN(3)	BASE				
	2-6	WEAPN(4)					
	2-6	WEAPN(5)					
	2-6	WEAPN(6)					
	2-6	WEAPN(7)					
	2-6	MDT	T				

FIGURE 174. Data Checksheet for Vehicle Sample Case, Card Type 4—Event 6.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	1
	2-10	LQ(I,K)	1
	2-10	LLQ(I,K)	2
	2-10	FNAME(I,K,1)	FLIG
	2-10	FNAME(I,K,2)	HTbF
	2-10	FNAME(I,K,3)	UNCT
	2-10	FNAME(I,K,4)	ION
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 175. Data Checksheet for Vehicle Sample Case, Card Type 7–Event 6, Flight Function.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	2
	2-10	LQ(I,K)	5
	2-10	LLQ(I,K)	5
	2-10	FNAME(I,K,1)	bbNO
	2-10	FNAME(I,K,2)	RMAL
	2-10	FNAME(I,K,3)	bMOD
	2-10	FNAME(I,K,4)	EbA
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	4
	2-11	LMAT(I,K,2)	
	2-11	LMAT(I,K,3)	
	2-11	LMAT(I,K,4)	
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 176. Data Checksheet for Vehicle Sample Case, Card Type 7–Event 6, Flight Function, Normal Mode A.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LE(I)	1	7B	2-11	LMAT(I,K,1)	1
	2-10	LLE(K)	3		2-11	LMAT(I,K,2)	
	2-10	LQ(I,K)	5		2-11	LMAT(I,K,3)	
	2-10	LLQ(I,K)	5		2-11	LMAT(I,K,4)	
	2-10	FNAME(I,K,1)	bbNO		2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)	RMAL		2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)	bMOD		2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)	EbB		2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)			2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)	0		2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)	0		2-11	LMAT(I,K,16)	
	2-10	MD(I,K)			2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 177. Data Checksheet for Vehicle Sample Case, Card Type 7–Event 6, Flight Function, Normal Mode B.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	4
	2-10	LQ(I,K)	5
	2-10	LLQ(I,K)	5
	2-10	FNAME(I,K,1)	bbNO
	2-10	FNAME(I,K,2)	RMAL
	2-10	FNAME(I,K,3)	bMOD
	2-10	FNAME(I,K,4)	EbC
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2 10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	2
	2-11	LMAT(I,K,2)	
	2-11	LMAT(I,K,3)	
	2-11	LMAT(I,K,4)	
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 178. Data Checksheet for Vehicle Sample Case, Card Type 7–Event 6, Flight Function, Normal Mode C.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	1
	2-10	LLF(K)	5
	2-10	LQ(I,K)	5
	2-10	LLQ(I,K)	5
	2-10	FNAME(I,K,1)	bbDO
	2-10	FNAME(I,K,2)	WN
	2-10	FNAME(I,K,3)	
	2-10	FNAME(I,K,4)	
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	0
	2-10	MMQ(I,K)	0
	2-10	MD(I,K)	F

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 179. Data Checksheet for Vehicle Sample Case, Card Type 7–Event 6, Flight Function, Down.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	0	7B	2-11	LMAT(I,K,1)	THIS CARD
	2-10	LLF(K)	99		2-11	LMAT(I,K,2)	IS BLANK
	2-10	LQ(I,K)	0		2-11	LMAT(I,K,3)	FOR THIS
	2-10	LLQ(I,K)	0		2-11	LMAT(I,K,4)	CASE
	2-10	FNAME(I,K,1)			2-11	LMAT(I,K,5)	
	2-10	FNAME(I,K,2)			2-11	LMAT(I,K,6)	
	2-10	FNAME(I,K,3)			2-11	LMAT(I,K,7)	
	2-10	FNAME(I,K,4)			2-11	LMAT(I,K,8)	
	2-10	FNAME(I,K,5)			2-11	LMAT(I,K,9)	
	2-10	FNAME(I,K,6)			2-11	LMAT(I,K,10)	
	2-10	FNAME(I,K,7)			2-11	LMAT(I,K,11)	
	2-10	FNAME(I,K,8)			2-11	LMAT(I,K,12)	
	2-10	FNAME(I,K,9)			2-11	LMAT(I,K,13)	
	2-10	FNAME(I,K,10)			2-11	LMAT(I,K,14)	
	2-10	MQ(I,K)			2-11	LMAT(I,K,15)	
	2-10	MMQ(I,K)			2-11	LMAT(I,K,16)	
	2-10	MD(I,K)			2-11	LMAT(I,K,17)	
					2-11	LMAT(I,K,18)	
					2-11	LMAT(I,K,19)	
					2-11	LMAT(I,K,20)	
					2-11	LMAT(I,K,21)	
					2-11	LMAT(I,K,22)	
					2-11	LMAT(I,K,23)	

FIGURE 180. Data Checksheet for Vehicle Sample Case, Card Type 7–Event 6, End of Flight Function.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	999
	2-10	LLF(K)	0
	2-10	LQ(I,K)	0
	2-10	LLQ(I,K)	0
	2-10	FNAME(I,K,1)	
	2-10	FNAME(I,K,2)	
	2-10	FNAME(I,K,3)	
	2-10	FNAME(I,K,4)	
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	
	2-10	MMQ(I,K)	
	2-10	MD(I,K)	

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	THIS CARD
	2-11	LMAT(I,K,2)	IS BLANK
	2-11	LMAT(I,K,3)	FOR THIS
	2-11	LMAT(I,K,4)	CASE
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

FIGURE 181. Data Checksheet for Vehicle Sample Case, Card Type 7--End of Event 6.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
9	2-13	NZT	4				
	2-13	MCR	1				
	2-13	MPR	1				
	2-13	MAV	1				
	2-13	MLTH	4				
	2-13	NABORT	0				

FIGURE 182. Data Checksheet for Vehicle Sample Case, Card Type 9.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
10A	2-14	M	1	10B	2-15	HDMT(1)	
	2-14	DNAME(1)	VEHb		2-15	HDMT(2)	
	2-14	DNAME(2)	ACTU		2-15	HDMT(3)	
	2-14	DNAME(3)	ALLY		2-15	HDMT(4)	
	2-14	DNAME(4)	bGOO		2-15	TMN	
	2-14	DNAME(5)	DbFO		2-15	TMF	0.
	2-14	DNAME(6)	Rb2b		2-15	ONOFF	1.
	2-14	DNAME(7)	ORb3				
	2-14	DNAME(8)	bDT				
	2-14	TBFM	10000.				

FIGURE 183. Data Checksheet for Vehicle Sample Case, Card Type 10–Vehicle Flight Time Remaining, First Bit.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
10A	2-14	M	2	10B	2-15	HDMT(1)	
	2-14	DNAME(1)	VEHb		2-15	HDMT(2)	
	2-14	DNAME(2)	bACT		2-15	HDMT(3)	
	2-14	DNAME(3)	UALL		2-15	HDMT(4)	
	2-14	DNAME(4)	YbGO		2-15	TMN	0.
	2-14	DNAME(5)	ODbF		2-15	TMF	1.
	2-14	DNAME(6)	ORbD		2-15	ONOFF	
	2-14	DNAME(7)	ELTA				
	2-14	DNAME(8)	bT				
	2-14	TBFM	10000.				

FIGURE 184. Data Checksheet for Vehicle Sample Case, Card Type 10–Vehicle Flight Time Remaining, Second Bit.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
10A	2-14	M	3	10B	2-15	HDMT(1)	
	2-14	DNAME(1)	VEHb		2-15	HDMT(2)	
	2-14	DNAME(2)	APPA		2-15	HDMT(3)	
	2-14	DNAME(3)	RENT		2-15	HDMT(4)	
	2-14	DNAME(4)	LYbG		2-15	TMN	0.
	2-14	DNAME(5)	OODb		2-15	TMF	1.
	2-14	DNAME(6)	FORb		2-15	ONOFF	
	2-14	DNAME(7)	20R3				
	2-14	DNAME(8)	bDT				
	2-14	TBFM	10000.				

FIGURE 185. Data Checksheet for Vehicle Sample Case, Card Type 10–Vehicle Failure Detection Time Remaining, First Bit.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
10A	2-14	M	4
	2-14	DNAME(1)	VEHb
	2-14	DNAME(2)	bAPP
	2-14	DNAME(3)	AREN
	2-14	DNAME(4)	TLYb
	2-14	DNAME(5)	GOOD
	2-14	DNAME(6)	bFOR
	2-14	DNAME(7)	bDEL
	2-14	DNAME(8)	TAbT
	2-14	TBFM	10000.

CARD ID	PG	PARAM	VALUE
10B	2-15	HDMT(1)	
	2-15	HDMT(2)	
	2-15	HDMT(3)	
	2-15	HDMT(4)	
	2-15	TMN	0.
	2-15	TMF	1.
	2-15	ONOFF	

FIGURE 186. Data Checksheet for Vehicle Sample Case, Card Type 10--Vehicle Failure Detection Time Remaining, Second Bit.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
11A	2-16	M	999	11B	2-16	THIS CARD IS	ALWAYS
						BLANK	

FIGURE 187. Data Checksheet for Vehicle Sample Case, Card Type 11.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
12	2-17	IEVENT	1				
	2-17	T2	.10				
	2-17	NC	7				
	2-17	WEAPN(1)	23MM				
	2-17	WEAPN(2)	bQUA				
	2-17	WEAPN(3)	D,bP				
	2-17	WEAPN(4)	OSIT				
	2-17	WEAPN(5)	IONb				
	2-17	WEAPN(6)	4				
	2-17	WEAPN(7)					
	2-17	MDT					

FIGURE 188. Data Checksheet for Vehicle Sample Case, Card Type 12–Event 1.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
15	2-21	CEP(J)	10.				
	2-21	FA(J)	1.				
	2-21	PK(J)					

FIGURE 189. Data Checksheet for Vehicle Sample Case, Card Type 15–Event 1.

AD-A073 490 ARMAMENT SYSTEMS INC ANAHEIM CA F/G 15/3
MISDEM COMPUTER SIMULATION. VOLUME I. USER MANUAL.(U)
JUL 79 G L GALLIEN, S C SILVER N00123-75-C-1265
UNCLASSIFIED JTCG/AS-76-S-003 NL

3 OF 3
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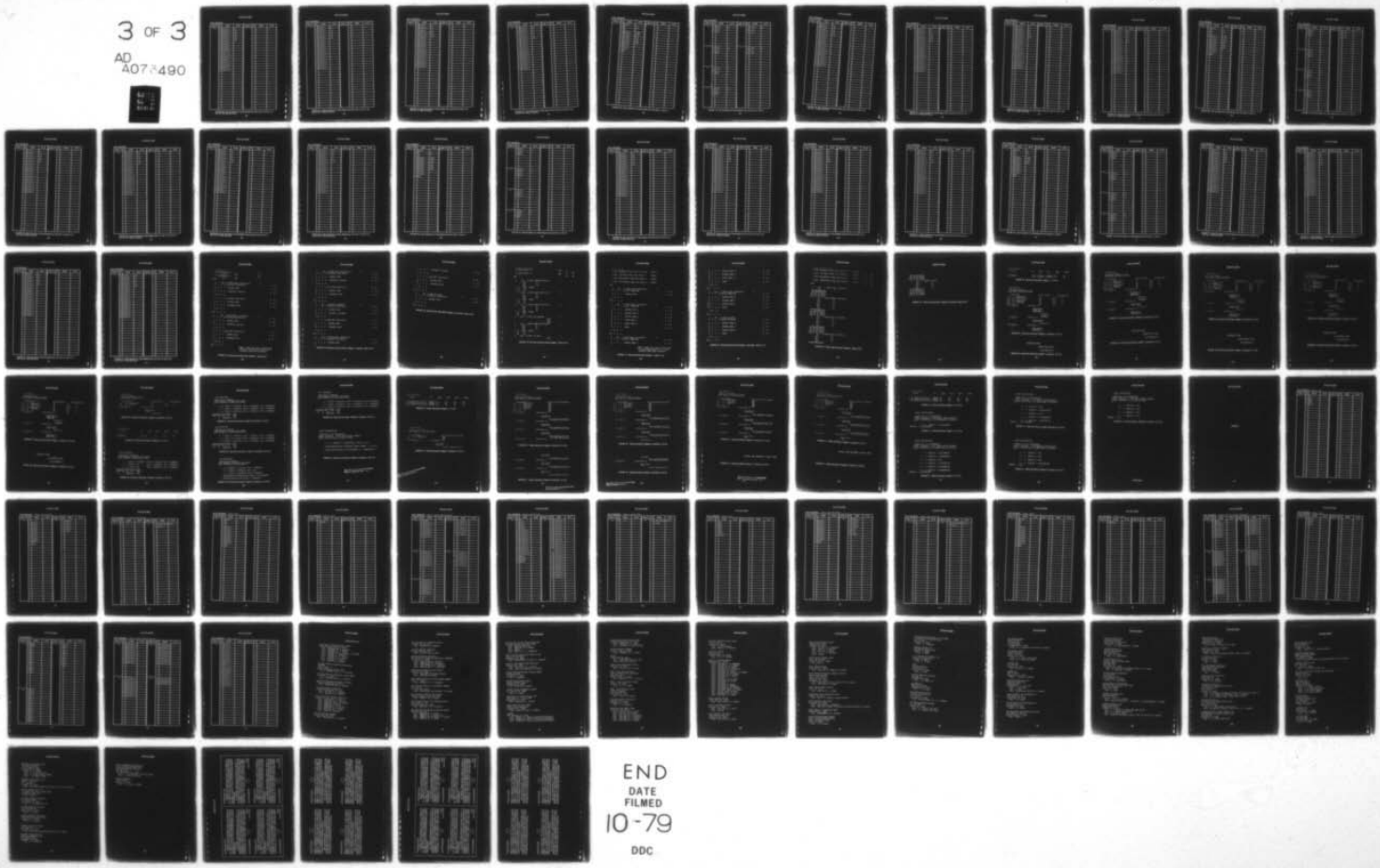

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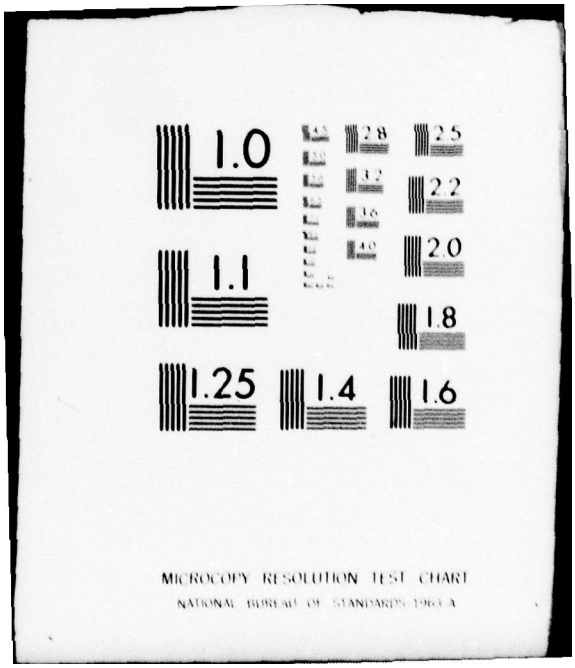
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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963 A

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
18	2-24	FTFNN(I)	02				
	2-24	FTDNN(I,1)	100				
	2-24	FTDNN(I,2)	100				
	2-24	FTDNN(I,3)	100				
	2-24	FTDNN(I,4)	100				
	2-24	FTDNN(I,5)					
	2-24	FTDNN(I,6)					
	2-24	FTDNN(I,7)					
	2-24	FTDNN(I,8)					
	2-24	FTDNN(I,9)					
	2-24	FTDNN(I,10)					
	2-24	FTDNN(I,11)					
	2-24	FTDNN(I,12)					
	2-24	FTDNN(I,13)					
	2-24	FTDNN(I,14)					
	2-24	FTDNN(I,15)					
	2-24	FTDNN(I,16)					

FIGURE 190. Data Checksheet for Vehicle Sample Case, Card Type 18–Event 1, for First Time of Flight Remaining.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
18	2-24	FTFNN(1)	04				
	2-24	FTDNN(1,1)	50				
	2-24	FTDNN(1,2)	100				
	2-24	FTDNN(1,3)	100				
	2-24	FTDNN(1,4)	100				
	2-24	FTDNN(1,5)					
	2-24	FTDNN(1,6)					
	2-24	FTDNN(1,7)					
	2-24	FTDNN(1,8)					
	2-24	FTDNN(1,9)					
	2-24	FTDNN(1,10)					
	2-24	FTDNN(1,11)					
	2-24	FTDNN(1,12)					
	2-24	FTDNN(1,13)					
	2-24	FTDNN(1,14)					
	2-24	FTDNN(1,15)					
	2-24	FTDNN(1,16)					

FIGURE 191. Data Checksheet for Vehicle Sample Case, Card Type 18–Event 1, for Second Time of Flight Remaining.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
18	2-24	FTFNN(I)	05				
	2-24	FTDNN(I,1)	30				
	2-24	FTDNN(I,2)	60				
	2-24	FTDNN(I,3)	90				
	2-24	FTDNN(I,4)	100				
	2-24	FTDNN(I,5)					
	2-24	FTDNN(I,6)					
	2-24	FTDNN(I,7)					
	2-24	FTDNN(I,8)					
	2-24	FTDNN(I,9)					
	2-24	FTDNN(I,10)					
	2-24	FTDNN(I,11)					
	2-24	FTDNN(I,12)					
	2-24	FTDNN(I,13)					
	2-24	FTDNN(I,14)					
	2-24	FTDNN(I,15)					
	2-24	FTDNN(I,16)					

FIGURE 192. Data Checksheet for Vehicle Sample Case, Card Type 18–Event 1, for Third Time of Flight Remaining.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
18	2-24	FTFNN(I)	100				
	2-24	FTDNN(I,1)	20				
	2-24	FTDNN(I,2)	40				
	2-24	FTDNN(I,3)	70				
	2-24	FTDNN(I,4)	100				
	2-24	FTDNN(I,5)					
	2-24	FTDNN(I,6)					
	2-24	FTDNN(I,7)					
	2-24	FTDNN(I,8)					
	2-24	FTDNN(I,9)					
	2-24	FTDNN(I,10)					
	2-24	FTDNN(I,11)					
	2-24	FTDNN(I,12)					
	2-24	FTDNN(I,13)					
	2-24	FTDNN(I,14)					
	2-24	FTDNN(I,15)					
	2-24	FTDNN(I,16)					

FIGURE 193. Data Checksheet for Vehicle Sample Case, Card Type 18–Event 1, for Fourth Time of Flight Remaining.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
12	2-17	IEVENT	2				
	2-17	T2	.20				
	2-17	NC	7				
	2-17	WEAPN(1)	23MM				
	2-17	WEAPN(2)	bQUA				
	2-17	WEAPN(3)	D,bP				
	2-17	WEAPN(4)	OSIT				
	2-17	WEAPN(5)	IONb				
	2-17	WEAPN(6)	4				
	2-17	WEAPN(7)					
	2-17	MDT					

FIGURE 194. Data Checksheet for Vehicle Sample Case, Card Type 12--Event 2.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
15	2-21	CEP(J)	10.	15	2-21	CEP(J)	10.
	2-21	FA(J)	1.		2-21	FA(J)	1.
	2-21	PK(J)			2-21	PK(J)	
15	2-21	CEP(J)	10.	15	2-21	CEP(J)	10.
	2-21	FA(J)	1.		2-21	FA(J)	1.
	2-21	PK(J)			2-21	PK(J)	
15	2-21	CEP(J)	10.				
	2-21	FA(J)	1.				
	2-21	PK(J)					
15	2-21	CEP(J)	10.				
	2-21	FA(J)	1.				
	2-21	PK(J)					

FIGURE 195. Data Checksheet for Vehicle Sample Case, Card Type 15–Event 2.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
18	2-24	FTFNN(1)	02				
	2-24	FTDNN(1,1)	100				
	2-24	FTDNN(1,2)	100				
	2-24	FTDNN(1,3)	100				
	2-24	FTDNN(1,4)	100				
	2-24	FTDNN(1,5)					
	2-24	FTDNN(1,6)					
	2-24	FTDNN(1,7)					
	2-24	FTDNN(1,8)					
	2-24	FTDNN(1,9)					
	2-24	FTDNN(1,10)					
	2-24	FTDNN(1,11)					
	2-24	FTDNN(1,12)					
	2-24	FTDNN(1,13)					
	2-24	FTDNN(1,14)					
	2-24	FTDNN(1,15)					
	2-24	FTDNN(1,16)					

FIGURE 196. Data Checksheet for Vehicle Sample Case, Card Type 18–Event 2, for First Time of Flight Remaining.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
18	2-24	FTFNN(I)	04				
	2-24	FTDNN(I,1)	50				
	2-24	FTDNN(I,2)	100				
	2-24	FTDNN(I,3)	100				
	2-24	FTDNN(I,4)	100				
	2-24	FTDNN(I,5)					
	2-24	FTDNN(I,6)					
	2-24	FTDNN(I,7)					
	2-24	FTDNN(I,8)					
	2-24	FTDNN(I,9)					
	2-24	FTDNN(I,10)					
	2-24	FTDNN(I,11)					
	2-24	FTDNN(I,12)					
	2-24	FTDNN(I,13)					
	2-24	FTDNN(I,14)					
	2-24	FTDNN(I,15)					
	2-24	FTDNN(I,16)					

FIGURE 197. Data Checksheet for Vehicle Sample Case, Card Type 18–Event 2, for Second Time of Flight Remaining.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
18	2-24	FTFNN(1)	05				
	2-24	FTDNN(1,1)	30				
	2-24	FTDNN(1,2)	60				
	2-24	FTDNN(1,3)	90				
	2-24	FTDNN(1,4)	100				
	2-24	FTDNN(1,5)					
	2-24	FTDNN(1,6)					
	2-24	FTDNN(1,7)					
	2-24	FTDNN(1,8)					
	2-24	FTDNN(1,9)					
	2-24	FTDNN(1,10)					
	2-24	FTDNN(1,11)					
	2-24	FTDNN(1,12)					
	2-24	FTDNN(1,13)					
	2-24	FTDNN(1,14)					
	2-24	FTDNN(1,15)					
	2-24	FTDNN(1,16)					

FIGURE 198. Data Checksheet for Vehicle Sample Case, Card Type 18–Event 2, for Third Time of Flight Remaining.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
18	2-24	FTFNN(I)	100				
	2-24	FTDNN(I,1)	20				
	2-24	FTDNN(I,2)	40				
	2-24	FTDNN(I,3)	70				
	2-24	FTDNN(I,4)	100				
	2-24	FTDNN(I,5)					
	2-24	FTDNN(I,6)					
	2-24	FTDNN(I,7)					
	2-24	FTDNN(I,8)					
	2-24	FTDNN(I,9)					
	2-24	FTDNN(I,10)					
	2-24	FTDNN(I,11)					
	2-24	FTDNN(I,12)					
	2-24	FTDNN(I,13)					
	2-24	FTDNN(I,14)					
	2-24	FTDNN(I,15)					
	2-24	FTDNN(I,16)					

FIGURE 199. Data Checksheet for Vehicle Sample Case, Card Type 18–Event 2, for Fourth Time of Flight Remaining.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
12	2-17	IEVENT	3				
	2-17	T2	.30				
	2-17	NC	7				
	2-17	WEAPN(1)	23MM				
	2-17	WEAPN(2)	bQUA				
	2-17	WEAPN(3)	D,bP				
	2-17	WEAPN(4)	OSIT				
	2-17	WEAPN(5)	IONb				
	2-17	WEAPN(6)	4				
	2-17	WEAPN(7)					
	2-17	MDT					

FIGURE 200. Data Checksheet for Vehicle Sample Case, Card Type 12–Event 3.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
15	2-21	CEP(J)	10.	15	2-21	CEP(J)	10.
	2-21	FA(J)	1.		2-21	FA(J)	1.
	2-21	PK(J)			2-21	PK(J)	
15	2-21	CEP(J)	10.				
	2-21	FA(J)	1.				
	2-21	PK(J)					
15	2-21	CEP(J)	10.				
	2-21	FA(J)	1.				
	2-21	PK(J)					
15	2-21	CEP(J)	10.				
	2-21	FA(J)	1.				
	2-21	PK(J)					

FIGURE 201. Data Checksheet for Vehicle Sample Case, Card Type 15–Event 3.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
18	2-24	FTFNN(1)	02				
	2-24	FTDNN(1,1)	100				
	2-24	FTDNN(1,2)	100				
	2-24	FTDNN(1,3)	100				
	2-24	FTDNN(1,4)	100				
	2-24	FTDNN(1,5)					
	2-24	FTDNN(1,6)					
	2-24	FTDNN(1,7)					
	2-24	FTDNN(1,8)					
	2-24	FTDNN(1,9)					
	2-24	FTDNN(1,10)					
	2-24	FTDNN(1,11)					
	2-24	FTDNN(1,12)					
	2-24	FTDNN(1,13)					
	2-24	FTDNN(1,14)					
	2-24	FTDNN(1,15)					
	2-24	FTDNN(1,16)					

FIGURE 202. Data Checksheet for Vehicle Sample Case, Card Type 18–Event 3, for First Time of Flight Remaining.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
18	2-24	FTFNN(1)	04				
	2-24	FTDNN(1,1)	50				
	2-24	FTDNN(1,2)	100				
	2-24	FTDNN(1,3)	100				
	2-24	FTDNN(1,4)	100				
	2-24	FTDNN(1,5)					
	2-24	FTDNN(1,6)					
	2-24	FTDNN(1,7)					
	2-24	FTDNN(1,8)					
	2-24	FTDNN(1,9)					
	2-24	FTDNN(1,10)					
	2-24	FTDNN(1,11)					
	2-24	FTDNN(1,12)					
	2-24	FTDNN(1,13)					
	2-24	FTDNN(1,14)					
	2-24	FTDNN(1,15)					
	2-24	FTDNN(1,16)					

FIGURE 203. Data Checksheet for Vehicle Sample Case, Card Type 18–Event 3, for Second Time of Flight Remaining.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
18	2-24	FTFNN(I)	05				
	2-24	FTDNN(I,1)	30				
	2-24	FTDNN(I,2)	60				
	2-24	FTDNN(I,3)	90				
	2-24	FTDNN(I,4)	100				
	2-24	FTDNN(I,5)					
	2-24	FTDNN(I,6)					
	2-24	FTDNN(I,7)					
	2-24	FTDNN(I,8)					
	2-24	FTDNN(I,9)					
	2-24	FTDNN(I,10)					
	2-24	FTDNN(I,11)					
	2-24	FTDNN(I,12)					
	2-24	FTDNN(I,13)					
	2-24	FTDNN(I,14)					
	2-24	FTDNN(I,15)					
	2-24	FTDNN(I,16)					

FIGURE 204. Data Checksheet for Vehicle Sample Case, Card Type 18—Event 3, for Third Time of Flight Remaining.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
18	2-24	FTFNN(I)	100				
	2-24	FTDNN(I,1)	20				
	2-24	FTDNN(I,2)	40				
	2-24	FTDNN(I,3)	70				
	2-24	FTDNN(I,4)	100				
	2-24	FTDNN(I,5)					
	2-24	FTDNN(I,6)					
	2-24	FTDNN(I,7)					
	2-24	FTDNN(I,8)					
	2-24	FTDNN(I,9)					
	2-24	FTDNN(I,10)					
	2-24	FTDNN(I,11)					
	2-24	FTDNN(I,12)					
	2-24	FTDNN(I,13)					
	2-24	FTDNN(I,14)					
	2-24	FTDNN(I,15)					
	2-24	FTDNN(I,16)					

FIGURE 205. Data Checksheet for Vehicle Sample Case, Card Type 18– Event 3, for Fourth Time of Flight Remaining.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
12	2-17	IEVENT	5				
	2-17	T2	.40				
	2-17	NC	7				
	2-17	WEAPN(1)	23MM				
	2-17	WEAPN(2)	bQUA				
	2-17	WEAPN(3)	D,bP				
	2-17	WEAPN(4)	OSIT				
	2-17	WEAPN(5)	IONb				
	2-17	WEAPN(6)	4				
	2-17	WEAPN(7)					
	2-17	MDT					

FIGURE 206. Data Checksheet for Vehicle Sample Case, Card Type 12—Event 5.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
15	2-21	CEP(J)	10.				
	2-21	FA(J)	1.				
	2-21	PK(J)					
15	2-21	CEP(J)	10.				
	2-21	FA(J)	1.				
	2-21	PK(J)					
15	2-21	CEP(J)	10.				
	2-21	FA(J)	1.				
	2-21	PK(J)					
15	2-21	CEP(J)	10.				
	2-21	FA(J)	1.				
	2-21	PK(J)					

FIGURE 207. Data Checksheet for Vehicle Sample Case, Card Type 15–Event 5.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
18	2-24	FTFNN(1)	02				
	2-24	FTDNN(1,1)	100				
	2-24	FTDNN(1,2)	100				
	2-24	FTDNN(1,3)	100				
	2-24	FTDNN(1,4)	100				
	2-24	FTDNN(1,5)					
	2-24	FTDNN(1,6)					
	2-24	FTDNN(1,7)					
	2-24	FTDNN(1,8)					
	2-24	FTDNN(1,9)					
	2-24	FTDNN(1,10)					
	2-24	FTDNN(1,11)					
	2-24	FTDNN(1,12)					
	2-24	FTDNN(1,13)					
	2-24	FTDNN(1,14)					
	2-24	FTDNN(1,15)					
	2-24	FTDNN(1,16)					

FIGURE 208. Data Checksheet for Vehicle Sample Case, Card Type 18--Event 5, for First Time of Flight Remaining.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
18	2-24	FTFNN(I)	04				
	2-24	FTDNN(I,1)	50				
	2-24	FTDNN(I,2)	100				
	2-24	FTDNN(I,3)	100				
	2-24	FTDNN(I,4)	100				
	2-24	FTDNN(I,5)					
	2-24	FTDNN(I,6)					
	2-24	FTDNN(I,7)					
	2-24	FTDNN(I,8)					
	2-24	FTDNN(I,9)					
	2-24	FTDNN(I,10)					
	2-24	FTDNN(I,11)					
	2-24	FTDNN(I,12)					
	2-24	FTDNN(I,13)					
	2-24	FTDNN(I,14)					
	2-24	FTDNN(I,15)					
	2-24	FTDNN(I,16)					

FIGURE 209. Data Checksheet for Vehicle Sample Case, Card Type 18--Event 5, for Second Time of Flight Remaining.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
18	2-24	FTFNN(1)	05				
	2-24	FTDNN(1,1)	30				
	2-24	FTDNN(1,2)	60				
	2-24	FTDNN(1,3)	90				
	2-24	FTDNN(1,4)	100				
	2-24	FTDNN(1,5)					
	2-24	FTDNN(1,6)					
	2-24	FTDNN(1,7)					
	2-24	FTDNN(1,8)					
	2-24	FTDNN(1,9)					
	2-24	FTDNN(1,10)					
	2-24	FTDNN(1,11)					
	2-24	FTDNN(1,12)					
	2-24	FTDNN(1,13)					
	2-24	FTDNN(1,14)					
	2-24	FTDNN(1,15)					
	2-24	FTDNN(1,16)					

FIGURE 210. Data Checksheet for Vehicle Sample Case, Card Type 18–Event 5, for Third Time of Flight Remaining.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
18	2-24	FTFNN(I)	100				
	2-24	FTDNN(I,1)	20				
	2-24	FTDNN(I,2)	40				
	2-24	FTDNN(I,3)	70				
	2-24	FTDNN(I,4)	100				
	2-24	FTDNN(I,5)					
	2-24	FTDNN(I,6)					
	2-24	FTDNN(I,7)					
	2-24	FTDNN(I,8)					
	2-24	FTDNN(I,9)					
	2-24	FTDNN(I,10)					
	2-24	FTDNN(I,11)					
	2-24	FTDNN(I,12)					
	2-24	FTDNN(I,13)					
	2-24	FTDNN(I,14)					
	2-24	FTDNN(I,15)					
	2-24	FTDNN(I,16)					

FIGURE 211. Data Checksheet for Vehicle Sample Case, Card Type 18–Event 5, for Fourth Time of Flight Remaining.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
12	2-17	IEVENT	6				
	2-17	T2	.50				
	2-17	NC	7				
	2-17	WEAPN(1)	LAND				
	2-17	WEAPN(2)	bATb				
	2-17	WEAPN(3)	BASE				
	2-17	WEAPN(4)					
	2-17	WEAPN(5)					
	2-17	WEAPN(6)					
	2-17	WEAPN(7)					
	2-17	MDT					

FIGURE 212. Data Checksheet for Vehicle Sample Case, Card Type 12--Event 6.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
15	2-21	CEP(J)	10.				
	2-21	FA(J)	1.				
	2-21	PK(J)					
15	2-21	CEP(J)	10.				
	2-21	FA(J)	1.				
	2-21	PK(J)					
15	2-21	CEP(J)	10.				
	2-21	FA(J)	1.				
	2-21	PK(J)					
15	2-21	CEP(J)	10.				
	2-21	FA(J)	1.				
	2-21	PK(J)					

FIGURE 213. Data Checksheet for Vehicle Sample Case, Card Type 15–Event 6.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
18	2-24	FTFNN(1)	02				
	2-24	FTDNN(1,1)	100				
	2-24	FTDNN(1,2)	100				
	2-24	FTDNN(1,3)	100				
	2-24	FTDNN(1,4)	100				
	2-24	FTDNN(1,5)					
	2-24	FTDNN(1,6)					
	2-24	FTDNN(1,7)					
	2-24	FTDNN(1,8)					
	2-24	FTDNN(1,9)					
	2-24	FTDNN(1,10)					
	2-24	FTDNN(1,11)					
	2-24	FTDNN(1,12)					
	2-24	FTDNN(1,13)					
	2-24	FTDNN(1,14)					
	2-24	FTDNN(1,15)					
	2-24	FTDNN(1,16)					

FIGURE 214. Data Checksheet for Vehicle Sample Case, Card Type 18–Event 6, for First Time of Flight Remaining.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
18	2-24	FTFNN(1)	04				
	2-24	FTDNN(1,1)	50				
	2-24	FTDNN(1,2)	100				
	2-24	FTDNN(1,3)	100				
	2-24	FTDNN(1,4)	100				
	2-24	FTDNN(1,5)					
	2-24	FTDNN(1,6)					
	2-24	FTDNN(1,7)					
	2-24	FTDNN(1,8)					
	2-24	FTDNN(1,9)					
	2-24	FTDNN(1,10)					
	2-24	FTDNN(1,11)					
	2-24	FTDNN(1,12)					
	2-24	FTDNN(1,13)					
	2-24	FTDNN(1,14)					
	2-24	FTDNN(1,15)					
	2-24	FTDNN(1,16)					

FIGURE 215. Data Checksheet for Vehicle Sample Case, Card Type 18–Event 6, for Second Time of Flight Remaining.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
18	2-24	FTFNN(I)	05				
	2-24	FTDNN(I,1)	30				
	2-24	FTDNN(I,2)	60				
	2-24	FTDNN(I,3)	90				
	2-24	FTDNN(I,4)	100				
	2-24	FTDNN(I,5)					
	2-24	FTDNN(I,6)					
	2-24	FTDNN(I,7)					
	2-24	FTDNN(I,8)					
	2-24	FTDNN(I,9)					
	2-24	FTDNN(I,10)					
	2-24	FTDNN(I,11)					
	2-24	FTDNN(I,12)					
	2-24	FTDNN(I,13)					
	2-24	FTDNN(I,14)					
	2-24	FTDNN(I,15)					
	2-24	FTDNN(I,16)					

FIGURE 216. Data Checksheet for Vehicle Sample Case, Card Type 18–Event 6, for Third Time of Flight Remaining.

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
18	2-24	FTFNN(I)	100				
	2-24	FTDNN(I,1)	20				
	2-24	FTDNN(I,2)	40				
	2-24	FTDNN(I,3)	70				
	2-24	FTDNN(I,4)	100				
	2-24	FTDNN(I,5)					
	2-24	FTDNN(I,6)					
	2-24	FTDNN(I,7)					
	2-24	FTDNN(I,8)					
	2-24	FTDNN(I,9)					
	2-24	FTDNN(I,10)					
	2-24	FTDNN(I,11)					
	2-24	FTDNN(I,12)					
	2-24	FTDNN(I,13)					
	2-24	FTDNN(I,14)					
	2-24	FTDNN(I,15)					
	2-24	FTDNN(I,16)					

FIGURE 217. Data Checksheet for Vehicle Sample Case, Card Type 18–Event 6, for Fourth Time of Flight Remaining.

```
 2  0  0  0
 1 ELECTRONICS A                                10.
         20.        10.
 2 ELECTRONICS B                                20.
         10.        20.
999

 1       .10   6 23MM QUAD, POSITION 4           T
 1   1   1   2 MILITARY FUNCTION A                               0   0 F

 1   2   2   1   NORMAL MODE                                     0   0 F
 1
 1   3   5   5   COMPLETE FAILURE                                0   0 F

 0  99   0   0

 2   1   2   2 MILITARY FUNCTION B                               0   0 F

 2   2   5   5   NORMAL MODE                                     0   0 F
 2
 2   3   5   5   DEGRADED MODE                                   0   0 F

 0  99   0   0

999  0   0   0

 2       .20   6 23MM QUAD, POSITION 4           T
 1   1   1   2 MILITARY FUNCTION A                               0   0 F

 1   2   2   1   NORMAL MODE                                     0   0 F
 1
 1   3   5   5   COMPLETE FAILURE                                0   0 F

 0  99   0   0

 2   1   2   2 MILITARY FUNCTION B                               0   0 F

 2   2   5   5   NORMAL MODE                                     0   0 F
 2
 2   3   5   5   DEGRADED MODE                                   0   0 F

 0  99   0   0

999  0   0   0
```

(NOTE: blank rows, such as those after "999" and "1112 Military Function A", represent blank card locations.)

FIGURE 218. Electronics Case Input Decks—Program 1. (Sheet 1 of 4)

```
  3       .30   6 23MM QUAD, POSITION 4          T
  1   1   1   2 MILITARY FUNCTION A                                  0   0 F

  1   2   2   1   NORMAL MODE                                        0   0 F
  1
  1   3   5   5   COMPLETE FAILURE                                   0   0 F

  0  99   0   0

  2   1   2   2 MILITARY FUNCTION B                                  0   0 F

  2   2   5   5   NORMAL MODE                                        0   0 F
  2
  2   3   5   5   DEGRADED MODE                                      0   0 F

  0  99   0   0

999   0   0   0

  4       .30   0 MARK 82 SNAKEYE                F
  1   1   1   2 MILITARY FUNCTION A                                  0   0 F

  1   2   2   1   NORMAL MODE                                        0   0 F
  1
  1   3   5   5   COMPLETE FAILURE                                   0   0 F
  0  99   0   0

  2   1   2   2 MILITARY FUNCTION B                                  0   0 F

  2   2   5   5   NORMAL MODE                                        0   0 F
  2
  2   3   5   5   DEGRADED MODE                                      0   0 F

  0  99   0   0

999   0   0   0

  5       .40   6 23MM QUAD, POSITION 4          T
  1   1   1   2 MILITARY FUNCTION A                                  0   0 F

  1   2   2   1   NORMAL MODE                                        0   0 F
  1
```

FIGURE 218. Electronics Case Input Decks–Program 1 (continued). (Sheet 2 of 4)

```
  1  3  5  5   COMPLETE FAILURE                          0  0 F

  0 99  3  0

  2  1  2  2 MILITARY FUNCTION B                        0  0 F

  2  2  5  5   NORMAL MODE                              0  0 F
  2
  2  3  5  5   DEGRADED MODE                            5  5 T

  0 99  0  0

999  0  0  0

  6      .50  0 LAND AT BASE                  T
  1  1  1  2 MILITARY FUNCTION A                        0  0 F

  1  2  5  5   NORMAL MODE                              0  0 F

  0 99  0  0

999  0  0  0
```

FIGURE 218. Electronics Case Input Decks–Program 1 (concluded). (Sheet 3 of 4)

```
  2  0  0  0  0  0
  1 ELECTRONICS A                                    10.
                                                                .1     .6
  2 ELECTRONICS B                                    20.
                                                                .1     .6
999
  1     .10    6 23MM QUAD,POSITION 4                  T
          10.              1.
          10.              1.
          10.              1.
  1  2   100.   1000.
    0.     0.
    .1     0.
  2     .20    6 23MM QUAD,POSITION 4                  T
          10.              1.
          10.              1.
          10.              1.
  1  2   100.   1000.
    0.     0.
    .1     0.
  3     .30    6 23MM QUAD,POSITION 4                  T
          10.              1.
          10.              1.
          10.              1.
  1  2   100.   1000.
    0.     0.
    .1     0.
  4     .30    0 MARK 82 SNAKEYE                       F
                                          0.9
                                          0.0
                                          0.6
  5     .40    6 23MM QUAD,POSITION 4                  T
          10.              1.
          10.              1.
          10.              1.
  1  2   100.   1000.
    0.     0.
    .1     0.
  6     .40    0 LAND AT BASE                          T
                                          0.0
```

FIGURE 218. Electronics Case Input Decks–Program 2. (Sheet 4 of 4)

```
 4  1  1  1
 1 VEH ACTUALLY GOOD FOR 2 OR 3 DT     10000.

 2 VEH  ACTUALLY GOOD FOR DELTA T      10000.

 3 VEH APPARENTLY GOOD FOR 2OR3 DT     10000.

 4 VEH  APPARENTLY GOOD FOR DELTA T    10000.

999

  1     .10   7 23MM QUAD, POSITION 4          T
  1  1  1  2 FLIGHT FUNCTION                          0  0 F

  1  2  5  5   NORMAL MODE                           0  0 F

  0 99  0  0

999  0  0  0

  2     .20   7 23MM QUAD, POSITION 4          T
  1  1  1  2 FLIGHT FUNCTION                          0  0 F

  1  2  5  5   NORMAL MODE A                         0  0 F
  3
  1  3  5  5   NORMAL MODE B                         0  0 F
  4
  1  4  5  5   NORMAL MODE C                         0  0 F
  1  2
  1  5  5  5   ABORT MODE A                          0  0 F
  1
  1  6  5  5   ABORT MODE B                          0  0 F
  2
  1  7  5  5   DOWN                                  0  0 F

  0 99  0  0

999  0  0  0

  3     .30   7 23MM QUAD, POSITION 4          T
  1  1  1  2 FLIGHT FUNCTION                          0  0 F

  1  2  5  5   NORMAL MODE A                         0  0 F
  3
```

(NOTE: blank rows, such as those after "1 veh actually good for 2 or 3 DT", represent blank card locations.)

FIGURE 219. Vehicle Case Input Decks–Program 1. (Sheet 1 of 4)

```
  1   3   5   5   NORMAL MODE B                                  0   0 F
 14
  1   4   5   5   NORMAL MODE C                                  0   0 F
 11
  1   5   5   5   ABORT MODE A                                   0   0 F
 12
  1   6   5   5   DOWN                                          0   0 F

  0  99   0   0

999   0   0   0

  5       .40     7 23MM QUAD, POSITION 4            T
  1   1   1   2 FLIGHT FUNCTION                                 0   0 F

  1   2   5   5   NORMAL MODE A                                 0   0 F
 14
  1   3   5   5   NORMAL MODE B                                 0   0 F
 11
  1   4   5   5   NORMAL MODE C                                 0   0 F
 12
  1   5   5   5   DOWN                                          0   0 F

  0  99   0   0

999   0   0   0

  6       .50     7 LAND AT BASE                     T
  1   1   1   2 FLIGHT FUNCTION                                 0   0 F

  1   2   5   5   NORMAL MODE A                                 0   0 F
 14
  1   3   5   5   NORMAL MODE B                                 0   0 F
 11
  1   4   5   5   NORMAL MODE C                                 0   0 F
 12
  1   5   5   5   DOWN                                          0   0 F

  0  99   0   0

999   0   0   0
```


FIGURE 219. Vehicle Case Input Decks–Program 1 (concluded). (Sheet 2 of 4)

```
  4  1  1  1  4  0
  1 VEH ACTUALLY GOOD FOR 2 OR 3 DT      10000.
                                          0.     1.
  2 VEH  ACTUALLY GOOD FOR DELTA T       10000.
                                          0.     1.
  3 VEH APPARENTLY GOOD FOR 2OR3 DT      10000.
                                          0.     1.
  4 VEH  APPARENTLY GOOD FOR DELTA T     10000.
                                          0.     1.
999

  1     .10   7 23MM QUAD, POSITION 4
        10.             1.
 02100100100100
 04 50100100100
 05 30 60 90100
100 20 40 70100
  2     .20   7 23MM QUAD, POSITION 4
        10.             1.
        10.             1.
        10.             1.
        10.             1.
        10.             1.
        10.             1.
 02100100100100
 04 50100100100
 05 30 60 90100
100 20 40 70100
  3     .30   7 23MM QUAD, POSITION 4
        10.             1.
        10.             1.
        10.             1.
        10.             1.
        10.             1.
 02100100100100
 04 50100100100
 05 30 60 90100
100 20 40 70100
  5     .40   7 23MM QUAD, POSITION 4
        10.             1.
        10.             1.
        10.             1.
        10.             1.
 02100100100100
```

FIGURE 219. Vehicle Case Input Decks--Program 2. (Sheet 3 of 4)

```
 04 50100100100
 05 30 60 90100
100 20 40 70100
  0     .50   7 LAND AT BASE
        10.              1.
        10.              1.
        10.              1.
        10.              1.
 02100100100100
 04 50100100100
 05 30 60 90100
100 20 40 70100
```

FIGURE 219. Vehicle Case Input Decks--Program 2 (concluded). (Sheet 4 of 4)

SYSTEM CONFIGURATION

	EQUIPMENT	MTBF	THDM(1) G D	THDM(2) A	THDM(3) B	THDM(4) T
1	ELECTRONICS A	10.00	0.20000E+02	0.10000E+02	0.0	0.0
2	ELECTRONICS B	20.00	0.10000E+02	0.20000E+02	0.0	0.0

FIGURE 220. Electronics Case Output–Program 1. (1 of 19)

EVENT DESCRIPTION

EVENT NO. 1 IS DEFENSIVE
EVENT OCCURRED 0.10 HOURS AFTER TAKEOFF
EVENT DESCRIPTION IS 23MM QUAD. POSITION 4
T

SUBFUNCTION/MODE					EQUIPMENT DESCRIPTION			MISSION DESCRIPTOR
1	1	1	2	MILITARY FUNCTION A	00	0	0	F
1	2	2	1	NORMAL MODE	10	0	0	F
1	3	5	5	COMPLETE FAILURE	00	0	0	F
0	99	0	0		00	0	0	F
2	1	2	2	MILITARY FUNCTION B	00	0	0	F
2	2	5	5	NORMAL MODE	01	0	0	F
2	3	5	5	DEGRADED MODE	00	0	0	F
0	99	0	0		00	0	0	F
999	0	0	0		00	0	0	F

MODE SEQUENCE NO SUBFUNCTIONAL FLOW

1

MILITARY FUNCTION A
NORMAL MODE
MILITARY FUNCTION B
NORMAL MODE

SUBSYSTEMS USED

ELECTRONICS A
ELECTRONICS B

MODE SEQUENCE NO SUBFUNCTIONAL FLOW

2

MILITARY FUNCTION A
COMPLETE FAILURE

SUBSYSTEMS USED

MODE SEQUENCE NO SUBFUNCTIONAL FLOW

3

MILITARY FUNCTION A
NORMAL MODE
MILITARY FUNCTION B

FIGURE 220. Electronics Case Output–Program 1 (continued). (2 of 19)

DEGRADED MODE

SUBSYSTEMS USED

ELECTRONICS A

FIGURE 220. Electronics Case Output–Program 1 (continued). (3 of 19)

```
EVENT DESCRIPTION

 EVENT NO. 2 IS DEFENSIVE
EVENT OCCURRED   0.20 HOURS AFTER TAKEOFF
EVENT DESCRIPTION IS 23MM QUAD. POSITION 4
T

   SUBFUNCTION/MODE                                   EQUIPMENT DESCRIPTION              MISSION DESCRIPTOR

  1  1    1  2  MILITARY FUNCTION A                      CO                  0  0                F
  1  2    2  1    NORMAL MODE                            1C                  0  0                F
  1  3    5  5    COMPLETE FAILURE                       CO                  0  0                F
  0 99    0  0                                           OO                  0  0                F
  2  1    2  2  MILITARY FUNCTION B                      CC                  0  0                F
  2  2    5  5    NORMAL MODE                            C1                  0  0                F
  2  3    5  5    DEGRADED MODE                          CO                  0  0                F
  0 99    0  0                                           CO                  0  0                F
999  0    0  0                                           CO                  0  0                F
   MODE SEQUENCE NO                     SUBFUNCTIONAL FLOW

         1

                                              MILITARY FUNCTION A
                                                NORMAL MODE
                                              MILITARY FUNCTION B
                                                NORMAL MODE

                                                              SUBSYSTEMS USED

                                                                ELECTRONICS A
                                                                ELECTRONICS B
   MODE SEQUENCE NO                     SUBFUNCTIONAL FLOW

         2

                                              MILITARY FUNCTION A
                                                COMPLETE FAILURE

                                                              SUBSYSTEMS USED

   MODE SEQUENCE NO                     SUBFUNCTIONAL FLOW

         3

                                              MILITARY FUNCTION A
                                                NORMAL MODE
                                              MILITARY FUNCTION B
```

FIGURE 220. Electronics Case Output–Program 1 (continued). (4 of 19)

```
                DEGRADED MODE

                               SUBSYSTEMS USED

                                 ELECTRONICS A
```

FIGURE 220. Electronics Case Output–Program 1 (continued). (5 of 19)

```
EVENT DESCRIPTION

 EVENT NO. 3 IS DEFENSIVE
EVENT OCCURRED   0.30 HOURS AFTER TAKEOFF
EVENT DESCRIPTION IS 23MM QUAD, POSITION 4
T

   SUBFUNCTION/MODE                                      EQUIPMENT DESCRIPTION              MISSION DESCRIPTOR

  1  1    1  2  MILITARY FUNCTION A                      CC                   0  0            F
  1  2    2  1    NORMAL MODE                            10                   0  0            F
  1  3    5  5    COMPLETE FAILURE                       00                   0  0            F
  0 99    0  0                                           00                   0  0            F
  2  1    2  2  MILITARY FUNCTION B                      00                   0  0            F
  2  2    5  5    NORMAL MODE                            01                   0  0            F
  2  3    5  5    DEGRADED MODE                          00                   0  0            F
  0 99    0  0                                           00                   0  0            F
999  0    0  0                                           00                   0  0            F
   MODE SEQUENCE NO                       SUBFUNCTIONAL FLOW

         1

                                               MILITARY FUNCTION A
                                                 NORMAL MODE
                                               MILITARY FUNCTION B
                                                 NORMAL MODE

                                                          SUBSYSTEMS USED

                                                            ELECTRONICS A
                                                            ELECTRONICS B
   MODE SEQUENCE NO                       SUBFUNCTIONAL FLOW

         2

                                               MILITARY FUNCTION A
                                                 COMPLETE FAILURE

                                                          SUBSYSTEMS USED

   MODE SEQUENCE NO                       SUBFUNCTIONAL FLOW

         3

                                               MILITARY FUNCTION A
                                                 NORMAL MODE
                                               MILITARY FUNCTION B
```

FIGURE 220. Electronics Case Output–Program 1 (continued). (6 of 19)

```
DEGRADED MODE

            SUBSYSTEMS USED

              ELECTRONICS A
```

FIGURE 220. Electronics Case Output–Program 1 (continued). (7 of 19)

```
EVENT DESCRIPTION

 EVENT NO. 4 IS OFFENSIVE
EVENT OCCURRED   0.30 HOURS AFTER TAKEOFF
EVENT DESCRIPTION IS MARK 82 SNAKEYE
F

   SUBFUNCTION/MODE                                         EQUIPMENT DESCRIPTION          MISSION DESCRIPTOR

 1  1    1  2  MILITARY FUNCTION A                          00                     0  0          F
 1  2    2  1    NORMAL MODE                                10                     0  0          F
 1  3    5  5    COMPLETE FAILURE                           00                     0  0          F
 0 99    0  0                                               00                     0  0          F
 2  1    2  2  MILITARY FUNCTION B                          00                     0  0          F
 2  2    5  5    NORMAL MODE                                01                     0  0          F
 2  3    5  5    DEGRADED MODE                              00                     0  0          F
 0 99    0  0                                               00                     0  0          F
999  0   0  0                                               00                     0  0          F
  MODE SEQUENCE NO                      SUBFUNCTIONAL FLOW

         1

                                             MILITARY FUNCTION A
                                               NORMAL MODE
                                             MILITARY FUNCTION B
                                               NORMAL MODE

                                                         SUBSYSTEMS USED

                                                           ELECTRONICS A
                                                           ELECTRONICS B
  MODE SEQUENCE NO                      SUBFUNCTIONAL FLOW

         2

                                             MILITARY FUNCTION A
                                               COMPLETE FAILURE

                                                         SUBSYSTEMS USED

  MODE SEQUENCE NO                      SUBFUNCTIONAL FLOW

         3

                                             MILITARY FUNCTION A
                                               NORMAL MODE
                                             MILITARY FUNCTION B
```

FIGURE 220. Electronics Case Output—Program 1 (continued). (8 of 19)

```
DEGRADED MODE

          SUBSYSTEMS USED

            ELECTRONICS A
```

FIGURE 220. Electronics Case Output—Program 1 (continued) (9 of 19)

```
    EVENT DESCRIPTION

    EVENT NO. 5 IS DEFENSIVE
   EVENT OCCURRED   0.40 HOURS AFTER TAKEOFF
   EVENT DESCRIPTION IS 23MM QUAD. POSITION 4
   T

      SUBFUNCTION/MODE                              EQUIPMENT DESCRIPTION          MISSION DESCRIPTOR

 1  1    1  2  MILITARY FUNCTION A                    CO                0  0          F
 1  2    2  1    NORMAL MODE                          1C                0  0          F
 1  3    5  5    COMPLETE FAILURE                     CC                0  0          F
 0 99    0  0                                       CC                0  0          F
 2  1    2  2  MILITARY FUNCTION B                    CO                0  0          F
 2  2    5  5    NORMAL MODE                          C1                0  0          F
 2  3    5  5    DEGRADED MODE                        CO                5  5          T
 0 99    0  0                                       00                0  0          F
999  0    0  0                                       CO                0  0          F
    MODE SEQUENCE NO                SUBFUNCTIONAL FLOW

           1

                                          MILITARY FUNCTION A
                                            NORMAL MODE
                                          MILITARY FUNCTION B
                                            NORMAL MODE

                                                    SUBSYSTEMS USED

                                                      ELECTRONICS A
                                                      ELECTRONICS B
    MODE SEQUENCE NO                SUBFUNCTIONAL FLOW

           2

                                          MILITARY FUNCTION A
                                            COMPLETE FAILURE

                                                    SUBSYSTEMS USED

    MODE SEQUENCE NO                SUBFUNCTIONAL FLOW

           3

                                          MILITARY FUNCTION A
                                            NORMAL MODE
                                          MILITARY FUNCTION B
```

FIGURE 220. Electronics Case Output–Program 1 (continued). (10 of 19)

```
DEGRADED MODE

        SUBSYSTEMS USED

          ELECTRONICS A
```

FIGURE 220. Electronics Case Output–Program 1 (continued). (11 of 19)

```
EVENT DESCRIPTION

 EVENT NO. 6 IS OFFENSIVE
EVENT OCCURRED   0.50 HOURS AFTER TAKEOFF
EVENT DESCRIPTION IS LAND AT BASE
T

   SUBFUNCTION/MODE                                   EQUIPMENT DESCRIPTION          MISSION DESCRIPTOR

 1  1    1  2  MILITARY FUNCTION A                    CC                  0  0              F
 1  2    5  5    NORMAL MODE                          CO                  0  0              F
 C 99    0  0                                         00                  0  0              F
999  0   C  C                                         00                  0  0              F
   MODE SEQUENCE NO                 SUBFUNCTIONAL FLOW

         1
                                          MILITARY FUNCTION A
                                            NORMAL MODE

                                                         SUBSYSTEMS USED
```

FIGURE 220. Electronics Case Output–Program 1 (concluded). (12 of 19)

```
SYSTEM CONFIGURATION

   EQUIPMENT                                MTBF      THDM(1)      THDM(2)      THDM(3)      THDM(4)
                                                        G D           A            B            T

1  ELECTRONICS A                            10.00    0.0          0.0          0.0          0.0
2  ELECTRONICS B                            20.00    0.0          0.0          0.0          0.0
```

FIGURE 220. Electronics Case Output–Program 2. (13 of 19)

```
EVENT DESCRIPTION

 EVENT NO. 1 IS DEFENSIVE
EVENT OCCURRED   0.10 HOURS AFTER TAKEOFF
EVENT DESCRIPTION IS 23MM GUAC.POSITION 4
T

      J =  1  PCAP(J) = 0.10000E+01  CEP(J) = 0.10000E+02  FA(J) = 0.10000E+01

      J =  2  PCAP(J) = 0.0          CEP(J) = 0.10000E+02  FA(J) = 0.10000E+01

      J =  3  PCAP(J) = 0.0          CEP(J) = 0.10000E+02  FA(J) = 0.10000E+01

 COMPONENT PROBABILITIES OF KILL
COMP# ELEV#  R=     100.      1000.
  1     1   0.0             0.0
  2     1   0.1000E+00      0.0
```

FIGURE 220. Electronics Case Output–Program 2 (continued). (14 of 19)

```
 EVENT DESCRIPTION

 EVENT NO. 2 IS DEFENSIVE
EVENT OCCURRED   0.20 HOURS AFTER TAKEOFF
EVENT DESCRIPTION IS 23MM QUAD,POSITION 4
T

      J =  1  PCAP(J) = C.8866CE+00  CEP(J) = 0.10000E+02  FA(J) = 0.10000E+01

      J =  2  PCAP(J) = 0.55500E-02  CEP(J) = 0.10000E+02  FA(J) = 0.10000E+01

      J =  3  PCAP(J) = 0.10345E+00  CEP(J) = 0.10000E+02  FA(J) = 0.10000E+01

 COMPONENT PROBABILITIES OF KILL
COMP# ELEV#  R=    100.     1000.
   1     1    0.0            0.0
   2     1    0.10000E+00    0.0
```

FIGURE 220. Electronics Case Output–Program 2 (continued). (15 of 19)

```
 EVENT DESCRIPTION

 EVENT NO. 3 IS DEFENSIVE
EVENT OCCURRED   0.30 HOURS AFTER TAKEOFF
EVENT DESCRIPTION IS 23MM QUAD,POSITION 4
T

      J =  1  PCAP(J) = C.78606E+00  CEP(J) = 0.10000E+02  FA(J) = 0.10000E+01

      J =  2  PCAP(J) = 0.19801E-01  CEP(J) = 0.10000E+02  FA(J) = 0.10000E+01

      J =  3  PCAP(J) = 0.19414E+00  CEP(J) = 0.10000E+02  FA(J) = 0.10000E+01

 COMPONENT PROBABILITIES OF KILL
COMP# ELEV#  R=    100.     1000.
   1     1    0.0            0.0
   2     1    0.10000E+00    0.0
```

FIGURE 220. Electronics Case Output–Program 2 (continued). (16 of 19)

```
 EVENT DESCRIPTION

 EVENT NO. 4 IS OFFENSIVE
EVENT OCCURRED   0.30 HOURS AFTER TAKEOFF
EVENT DESCRIPTION IS MARK 82 SNAKEYE
F

      J =  1  PCAP(J) = C.7C745E+00  PK(J) = C.90000E+00

      J =  2  PCAP(J) = 0.19801E-01  PK(J) = 0.0

      J =  3  PCAP(J) = 0.27274E+00  PK(J) = 0.60000E+00

 EFFECTIVENESS FOR OFFENSIVE EVENT NUMBER  4 IS 0.80036E+00

 CUMULATIVE MISSION EFFECTIVENESS IS  0.80036E+00
```

FIGURE 220. Electronics Case Output–Program 2 (continued). (17 of 19)

```
 EVENT DESCRIPTION

 EVENT NO. 5 IS DEFENSIVE
EVENT OCCURRED   0.40 HOURS AFTER TAKEOFF
EVENT DESCRIPTION IS 23MM GLAD,POSITION 4
T

      J =  1  PCAP(J) = 0.69692E+00  CEP(J) = 0.10000E+02  FA(J) = 0.10000E+01

      J =  2  PCAP(J) = 0.29554E-01  CEP(J) = 0.10000E+02  FA(J) = 0.10000E+01

      J =  3  PCAP(J) = 0.27352E+00  CEP(J) = 0.10000E+02  FA(J) = 0.10000E+01

 COMPONENT PROBABILITIES OF KILL
COMP# ELEV#  R=    100.    1000.
   1     1    0.0           0.0
   2     1    0.10000E+00   0.0
```

FIGURE 220. Electronics Case Output–Program 2 (continued). (18 of 19)

```
 EVENT DESCRIPTION

 EVENT NO. 6 IS OFFENSIVE
EVENT OCCURRED   0.40 HOURS AFTER TAKEOFF
EVENT DESCRIPTION IS LAND AT BASE
T

      J =  1  PCAP(J) = 0.10000E+01  PK(J) = 0.0

      EFFECTIVENESS FOR OFFENSIVE EVENT NUMBER  6 IS 0.0

      CUMULATIVE MISSION EFFECTIVENESS IS  0.80036E+00
```

FIGURE 220. Electronics Case Output–Program 2 (concluded). (19 of 19)

SYSTEM CONFIGURATION

	EQUIPMENT	MTBF	THDM(1) G D	THDM(2) N	THDM(3) B	THDM(4) T
1	VEH ACTUALLY GOOD FOR 2 OR 3 DT	10000.00	0.0	0.0	0.0	0.0
2	VEH ACTUALLY GOOD FOR DELTA T	10000.00	0.0	0.0	0.0	0.0
3	VEH APPARENTLY GOOD FOR 2OR3 DT	10000.00	0.0	0.0	0.0	0.0
4	VEH APPARENTLY GOOD FOR DELTA T	10000.00	0.0	0.0	0.0	0.0

FIGURE 221. Vehicle Case Output—Program 1. (1 of 16)

```
EVENT DESCRIPTION

 EVENT NO. 1 IS DEFENSIVE
EVENT OCCURRED   0.10 HOURS AFTER TAKEOFF
EVENT DESCRIPTION IS 23MM QUAD. POSITION 4
7

    SUBFUNCTION/MODE                                   FLIGHT AND DETECTION TIME REMAINING
 1  1     1  2  FLIGHT FUNCTION                             0000
 1  2     5  5    NORMAL MODE                               0000
 0 99     0  0                                              0000
999 0     0  0                                              0000
   MODE SEQUENCE NO                      SUBFUNCTIONAL FLOW

         1

                                              FLIGHT FUNCTION
                                               NORMAL MODE

                                                        ACTUAL AND APPARENT FLIGHT TIME
```

FIGURE 221. Vehicle Case Output—Program 1 (continued). (2 of 16)

```
   EVENT DESCRIPTION

   EVENT NO. 2 IS DEFENSIVE
  EVENT OCCURRED   0.20 HOURS AFTER TAKEOFF
  EVENT DESCRIPTION IS 23MM QUAD, POSITION 4
  T

     SUBFUNCTION/MODE                                  FLIGHT AND DETECTION TIME REMAINING
 1  1     1  2  FLIGHT FUNCTION                          0000
 1  2     5  5     NORMAL MODE A                        0010
 1  3     5  5     NORMAL MODE B                        0001
 1  4     5  5     NORMAL MODE C                        1100
 1  5     5  5     ABORT MODE A                         1000
 1  6     5  5     ABORT MODE B                         0100
 1  7     5  5     DOWN                                 0000
 0 99     0  0                                          0000
999  0     0  0                                          0000
     MODE SEQUENCE NO              SUBFUNCTIONAL FLOW

            1

                                        FLIGHT FUNCTION
                                          NORMAL MODE A

                                                    ACTUAL AND APPARENT FLIGHT TIME
                                                      VEH APPARENTLY GOOD FOR 2OR3 DT
     MODE SEQUENCE NO              SUBFUNCTIONAL FLOW

            2

                                        FLIGHT FUNCTION
                                          NORMAL MODE B

                                                    ACTUAL AND APPARENT FLIGHT TIME
                                                      VEH  APPARENTLY GOOD FOR DELTA T
     MODE SEQUENCE NO              SUBFUNCTIONAL FLOW

            3

                                        FLIGHT FUNCTION
                                          NORMAL MODE C

                                                    ACTUAL AND APPARENT FLIGHT TIME
                                                      VEH ACTUALLY GOOD FOR 2 OR 3 DT
                                                      VEH  ACTUALLY GOOD FOR DELTA T
     MODE SEQUENCE NO              SUBFUNCTIONAL FLOW

            4
```

FIGURE 221. Vehicle Case Output–Program 1 (continued). (3 of 16)

```
                                        FLIGHT FUNCTION
                                          ABORT MODE B

                                                    ACTUAL AND APPARENT FLIGHT TIME
                                                      VEH  ACTUALLY GOOD FOR DELTA T
     MODE SEQUENCE NO              SUBFUNCTIONAL FLOW

            5

                                        FLIGHT FUNCTION
                                          ABORT MODE A

                                                    ACTUAL AND APPARENT FLIGHT TIME
                                                      VEH ACTUALLY GOOD FOR 2 OR 3 DT
     MODE SEQUENCE NO              SUBFUNCTIONAL FLOW

            6

                                        FLIGHT FUNCTION
                                          DOWN

                                                    ACTUAL AND APPARENT FLIGHT TIME
```

FIGURE 221. Vehicle Case Output–Program 1 (continued). (4 of 16)

```
     EVENT DESCRIPTION

     EVENT NO. 2 IS DEFENSIVE
     EVENT OCCURRED   0.36 HOURS AFTER TAKEOFF
     EVENT DESCRIPTION IS 23MM GUAD, POSITION 4
     T

        SUBFUNCTION/MODE                                  FLIGHT AND DETECTION TIME REMAINING
   1  1     1  2  FLIGHT FUNCTION                          0000
   1  2     5  5     NORMAL MODE A                        0010
   1  3     5  5     NORMAL MODE B                        0001
   1  4     5  5     NORMAL MODE C                        0100
   1  5     5  5     ABORT MODE A                         0100
   1  6     5  5     DOWN                                 0000
   0 99     0  0                                          0000
999  0     0  0                                          0000
     MODE SEQUENCE NO                  SUBFUNCTIONAL FLOW

          1

                                              FLIGHT FUNCTION
                                                NORMAL MODE A

                                                        ACTUAL AND APPARENT FLIGHT TIME
                                                          VEH APPARENTLY GOOD FOR 2003 DT
     MODE SEQUENCE NO                  SUBFUNCTIONAL FLOW

          2

                                              FLIGHT FUNCTION
                                                NORMAL MODE B

                                                        ACTUAL AND APPARENT FLIGHT TIME
                                                          VEH  APPARENTLY GOOD FOR DELTA T
     MODE SEQUENCE NO                  SUBFUNCTIONAL FLOW

          3

                                              FLIGHT FUNCTION
                                                NORMAL MODE C

                                                        ACTUAL AND APPARENT FLIGHT TIME
                                                          VEH ACTUALLY GOOD FOR 2 OR 3 DT
     MODE SEQUENCE NO                  SUBFUNCTIONAL FLOW

          4

                                              FLIGHT FUNCTION
```

FIGURE 221. Vehicle Case Output–Program 1 (continued). (5 of 16)

```
                                                ABORT MODE A

                                                        ACTUAL AND APPARENT FLIGHT TIME
                                                          VEH  ACTUALLY GOOD FOR DELTA T
     MODE SEQUENCE NO                  SUBFUNCTIONAL FLOW

          5

                                              FLIGHT FUNCTION
                                                DOWN

                                                        ACTUAL AND APPARENT FLIGHT TIME
```

FIGURE 221. Vehicle Case Output–Program 1 (continued). (6 of 16)

```
   EVENT DESCRIPTION

   EVENT NO. 5 IS DEFENSIVE
  EVENT OCCURRED   0.40 HOURS AFTER TAKEOFF
  EVENT DESCRIPTION IS 23MM QUAD, POSITION 4
  T

     SUBFUNCTION/MODE                                  FLIGHT AND DETECTION TIME REMAINING
  1  1     1  2  FLIGHT FUNCTION                        0000
  1  2     5  5    NORMAL MODE A                       0001
  1  3     5  5    NORMAL MODE B                       1000
  1  4     5  5    NORMAL MODE C                       0100
  1  5     5  5    DOWN                                0000
  0 99     0  0                                        0000
999  0     0  0                                        0000
    MODE SEQUENCE NO              SUBFUNCTIONAL FLOW

          1

                                        FLIGHT FUNCTION
                                          NORMAL MODE A

                                                    ACTUAL AND APPARENT FLIGHT TIME
                                                      VEH  APPARENTLY GOOD FOR DELTA T
    MODE SEQUENCE NO              SUBFUNCTIONAL FLOW

          2

                                        FLIGHT FUNCTION
                                          NORMAL MODE B

                                                    ACTUAL AND APPARENT FLIGHT TIME
                                                      VEH ACTUALLY GOOD FOR 2 OR 3 DT
    MODE SEQUENCE NO              SUBFUNCTIONAL FLOW

          3

                                        FLIGHT FUNCTION
                                          NORMAL MODE C

                                                    ACTUAL AND APPARENT FLIGHT TIME
                                                      VEH  ACTUALLY GOOD FOR DELTA T
    MODE SEQUENCE NO              SUBFUNCTIONAL FLOW

          4

                                        FLIGHT FUNCTION
                                          DOWN
```

FIGURE 221. Vehicle Case Output–Program 1 (continued). (7 of 16)

```
ACTUAL AND APPARENT FLIGHT TIME
```

FIGURE 221. Vehicle Case Output–Program 1 (continued). (8 of 16)

```
 EVENT DESCRIPTION

 EVENT NO. 6 IS DEFENSIVE
EVENT OCCURRED   0.50 HOURS AFTER TAKEOFF
EVENT DESCRIPTION IS LAND AT BASE
T

   SUBFUNCTION/MODE                                  FLIGHT AND DETECTION TIME REMAINING
1  1     1  2  FLIGHT FUNCTION                        (200)
1  2     5  5    NORMAL MODE A                       0001
1  3     5  5    NORMAL MODE B                       1000
1  4     5  5    NORMAL MODE C                       0100
1  5     5  5    DOWN                                0000
0 99     0  0                                        0000
999  0   0  0                                        (00)
   MODE SEQUENCE NO                SUBFUNCTIONAL FLOW

          1

                                        FLIGHT FUNCTION
                                          NORMAL MODE A

                                                    ACTUAL AND APPARENT FLIGHT TIME
                                                      VEH  APPARENTLY GOOD FOR DELTA T
   MODE SEQUENCE NO                SUBFUNCTIONAL FLOW

          2

                                        FLIGHT FUNCTION
                                          NORMAL MODE B

                                                    ACTUAL AND APPARENT FLIGHT TIME
                                                      VEH ACTUALLY GOOD FOR 2 OR 3 DT
   MODE SEQUENCE NO                SUBFUNCTIONAL FLOW

          3

                                        FLIGHT FUNCTION
                                          NORMAL MODE C

                                                    ACTUAL AND APPARENT FLIGHT TIME
                                                      VEH  ACTUALLY GOOD FOR DELTA T
   MODE SEQUENCE NO                SUBFUNCTIONAL FLOW

          4

                                        FLIGHT FUNCTION
                                          DOWN
```

FIGURE 221. Vehicle Case Output–Program 1 (continued). (9 of 16)

```
ACTUAL AND APPARENT FLIGHT TIME
```

FIGURE 221. Vehicle Case Output–Program 1 (concluded). (10 of 16)

SYSTEM CONFIGURATION

	EQUIPMENT	MTBF	THDM(1) G D	THDM(2) N	THDM(3) B	THDM(4) T
1	VEH ACTUALLY GOOD FOR 2 OR 3 CT	10000.00	0.0	0.0	0.0	0.0
2	VEH ACTUALLY GOOD FOR DELTA T	10000.00	0.0	0.0	0.0	0.0
3	VEH APPARENTLY GOOD FOR 2OR3 CT	10000.00	0.0	0.0	0.0	0.0
4	VEH APPARENTLY GOOD FOR DELTA T	10000.00	0.0	0.0	0.0	0.0

FIGURE 221. Vehicle Case Output–Program 2. (11 of 16)

```
 EVENT DESCRIPTION

 EVENT NO. 1 IS DEFENSIVE
EVENT OCCURRED   0.10 HOURS AFTER TAKEOFF
EVENT DESCRIPTION IS 23MM QUAD, POSITION 4
F

          J =  1  PCAP(J) = 0.10000E+01
PARIVE =  0.10000E+01
```

FIGURE 221. Vehicle Case Output–Program 2. (12 of 16)

```
 EVENT DESCRIPTION

 EVENT NO. 2 IS DEFENSIVE
EVENT OCCURRED   0.20 HOURS AFTER TAKEOFF
EVENT DESCRIPTION IS 23MM QUAD, POSITION 4
F

          J =  1  PCAP(J) = 0.57298E+00

          J =  2  PCAP(J) = 0.20300E+00

          J =  3  PCAP(J) = 0.0

          J =  4  PCAP(J) = 0.999999E-02

          J =  5  PCAP(J) = 0.19300E+00

          J =  6  PCAP(J) = 0.20000E-01
PARIVE =  0.77598E+00
```

FIGURE 221. Vehicle Case Output–Program 2. (13 of 16)

```
 EVENT DESCRIPTION

 EVENT NO. 3 IS DEFENSIVE
EVENT OCCURRED   0.30 HOURS AFTER TAKEOFF
EVENT DESCRIPTION IS 23MM QUAD, POSITION 4
F

      J =  1  PCAP(J) = 0.0

      J =  2  PCAP(J) = 0.44463E+00

      J =  3  PCAP(J) = 0.0

      J =  4  PCAP(J) = 0.30526E+00

      J =  5  PCAP(J) = 0.25309E-01
PARIVE =  0.44463E+00
```

FIGURE 221. Vehicle Case Output–Program 2 (continued). (14 of 16)

```
 EVENT DESCRIPTION

 EVENT NO. 5 IS DEFENSIVE
EVENT OCCURRED   0.40 HOURS AFTER TAKEOFF
EVENT DESCRIPTION IS 23MM QUAD, POSITION 4
F

      J =  1  PCAP(J) = 0.0

      J =  2  PCAP(J) = 0.0

      J =  3  PCAP(J) = 0.0

      J =  4  PCAP(J) = 0.44419E+00
PARIVE =  0.0
```

FIGURE 221. Vehicle Case Output–Program 2 (continued). (15 of 16)

```
 EVENT DESCRIPTION

 EVENT NO. 6 IS DEFENSIVE
EVENT CCCURRED   0.50 HOURS AFTER TAKEOFF
EVENT DESCRIPTIC  IS LANC AT BASE
F

          J =  1   PCAP(J) = 0.0

          J =  2   PCAP(J) = 0.0

          J =  3   PCAP(J) = 0.0

          J =  4   PCAP(J) = 0.0
PARIVE =  0.0
```

FIGURE 221. Vehicle Case Output–Program 2 (concluded). (16 of 16)

APPENDIX

DATA CHECKSHEET Program 1, Card 1

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
1	2-2	NZT					
	2-2	MCR					
	2-2	MPR					
	2-2	MAV					

DATA CHECKSHEET Program 1, Cards 2A and 2B

CARD ID	PG	PARAM	VALUE
2A	2-3	M	
	2-3	DNAME(1)	
	2-3	DNAME(2)	
	2-3	DNAME(3)	
	2-3	DNAME(4)	
	2-3	DNAME(5)	
	2-3	DNAME(6)	
	2-3	DNAME(7)	
	2-3	DNAME(8)	
	2-3	TBFM	

CARD ID	PG	PARAM	VALUE
2B	2-4	HDMT(1)	
	2-4	HDMT(2)	
	2-4	HDMT(3)	
	2-4	HDMT(4)	
	2-4	ONOFF	

DATA CHECKSHEET For Program 1, Cards 3A and 3B

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
3A	2-5	M		3B	2-5	THIS CARD IS	ALWAYS
						BLANK	

DATA CHECKSHEET Program 1 Card 4

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
4	2-6	IEVENT					
	2-6	T2					
	2-6	NC					
	2-6	WEAPN(1)					
	2-6	WEAPN(2)					
	2-6	WEAPN(3)					
	2-6	WEAPN(4)					
	2-6	WEAPN(5)					
	2-6	WEAPN(6)					
	2-6	WEAPN(7)					
	2-6	MDT					

DATA CHECKSHEET Program 1, Card 5

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
5	2-7	NPOINT					

DATA CHECKSHEET Program 1, Cards 6A, 6B, 6C, 6D, and 6E

CARD ID	PG	PARAM	VALUE
6A	2-8	ISUB(1)	
	2-8	CURVE(I,1)	
	2-8	CURVE(I,2)	
	2-8	CURVE(I,3)	
	2-8	CURVE(I,4)	
	2-8	CURVE(I,5)	
	2-8	CURVE(I,6)	
6B	2-9	CURVE(I,7)	
	2-9	CURVE(I,8)	
	2-9	CURVE(I,9)	
	2-9	CURVE(I,10)	
	2-9	CURVE(I,11)	
	2-9	CURVE(I,12)	
6C	2-9	CURVE(I,13)	
	2-9	CURVE(I,14)	
	2-9	CURVE(I,15)	
	2-9	CURVE(I,16)	
	2-9	CURVE(I,17)	
	2-9	CURVE(I,18)	

CARD ID	PG	PARAM	VALUE
6D	2-9	CURVE(I,19)	
	2-9	CURVE(I,20)	
	2-9	CURVE(I,21)	
	2-9	CURVE(I,22)	
	2-9	CURVE(I,23)	
	2-9	CURVE(I,24)	
6E	2-9	CURVE(I,25)	
	2-9	CURVE(I,26)	
	2-9	CURVE(I,27)	
	2-9	CURVE(I,28)	
	2-9	CURVE(I,29)	
	2-9	CURVE(I,30)	

DATA CHECKSHEET Program 1 Cards 7A and 7B

CARD ID	PG	PARAM	VALUE
7A	2-10	LF(I)	
	2-10	LLF(K)	
	2-10	LQ(I,K)	
	2-10	LLQ(I,K)	
	2-10	FNAME(I,K,1)	
	2-10	FNAME(I,K,2)	
	2-10	FNAME(I,K,3)	
	2-10	FNAME(I,K,4)	
	2-10	FNAME(I,K,5)	
	2-10	FNAME(I,K,6)	
	2-10	FNAME(I,K,7)	
	2-10	FNAME(I,K,8)	
	2-10	FNAME(I,K,9)	
	2-10	FNAME(I,K,10)	
	2-10	MQ(I,K)	
	2-10	MMQ(I,K)	
	2-10	MD(I,K)	

CARD ID	PG	PARAM	VALUE
7B	2-11	LMAT(I,K,1)	
	2-11	LMAT(I,K,2)	
	2-11	LMAT(I,K,3)	
	2-11	LMAT(I,K,4)	
	2-11	LMAT(I,K,5)	
	2-11	LMAT(I,K,6)	
	2-11	LMAT(I,K,7)	
	2-11	LMAT(I,K,8)	
	2-11	LMAT(I,K,9)	
	2-11	LMAT(I,K,10)	
	2-11	LMAT(I,K,11)	
	2-11	LMAT(I,K,12)	
	2-11	LMAT(I,K,13)	
	2-11	LMAT(I,K,14)	
	2-11	LMAT(I,K,15)	
	2-11	LMAT(I,K,16)	
	2-11	LMAT(I,K,17)	
	2-11	LMAT(I,K,18)	
	2-11	LMAT(I,K,19)	
	2-11	LMAT(I,K,20)	
	2-11	LMAT(I,K,21)	
	2-11	LMAT(I,K,22)	
	2-11	LMAT(I,K,23)	

DATA CHECKSHEET Program 1, Cards 8A and 8B

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
8A	2-12	M		8B	2-12	THIS CARD IS	ALWAYS
						BLANK	

DATA CHECKSHEET Program 2, Card 9

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
9	2-13	NZT					
	2-13	MCR					
	2-13	MPR					
	2-13	MAV					
	2-13	MLTH					
	2-13	NABORT					

DATA CHECKSHEET Program 2, Cards 10A and 10B

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
10A	2-14	M		10B	2-15	HDMT(1)	
	2-14	DNAME(1)			2-15	HDMT(2)	
	2-14	DNAME(2)			2-15	HDMT(3)	
	2-14	DNAME(3)			2-15	HDMT(4)	
	2-14	DNAME(4)			2-15	TMN	
	2-14	DNAME(5)			2-15	TMF	
	2-14	DNAME(6)			2-15	ONOFF	
	2-14	DNAME(7)					
	2-14	DNAME(8)					
	2-14	TBFM					

DATA CHECKSHEET Program 2, Cards 11A and 11B

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
11A	2-16	M		11B	2-16	THIS CARD IS	ALWAYS
						BLANK	

DATA CHECKSHEET Program 2, Card 12

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
12	2-17	IEVENT					
	2-17	T2					
	2-17	NC					
	2-17	WEAPN(1)					
	2-17	WEAPN(2)					
	2-17	WEAPN(3)					
	2-17	WEAPN(4)					
	2-17	WEAPN(5)					
	2-17	WEAPN(6)					
	2-17	WEAPN(7)					
	2-17	MDT					

DATA CHECKSHEET Program 2, Card 13

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
13	2-18	NPOINT					

DATA CHECKSHEET Program 2, Cards 14A, 14B, 14C, 14D, and 14E

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
14A	2-19	ISUB(I)		14D	2-20	CURVE(I,19)	
	2-19	CURVE(I,1)			2-20	CURVE(I,20)	
	2-19	CURVE(I,2)			2-20	CURVE(I,21)	
	2-19	CURVE(I,3)			2-20	CURVE(I,22)	
	2-19	CURVE(I,4)			2-20	CURVE(I,23)	
	2-19	CURVE(I,5)			2-20	CURVE(I,24)	
	2-19	CURVE(I,6)					
14B	2-20	CURVE(I,7)		14E	2-20	CURVE(I,25)	
	2-20	CURVE(I,8)			2-20	CURVE(I,26)	
	2-20	CURVE(I,9)			2-20	CURVE(I,27)	
	2-20	CURVE(I,10)			2-20	CURVE(I,28)	
	2-20	CURVE(I,11)			2-20	CURVE(I,29)	
	2-20	CURVE(I,12)			2-20	CURVE(I,30)	
14C	2-20	CURVE(I,13)					
	2-20	CURVE(I,14)					
	2-20	CURVE(I,15)					
	2-20	CURVE(I,16)					
	2-20	CURVE(I,17)					
	2-20	CURVE(I,18)					

DATA CHECKSHEET Program 2, Card 15

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
15	2-21	CEP(J)					
	2-21	FA(J)					
	2-21	PK(J)					

DATA CHECKSHEET

CARD ID	PG	PARAM	VALUE
16A	2-22	LMAX	
	2-22	KMAX	
	2-22	R(1)	
	2-22	R(2)	
	2-22	R(3)	
	2-22	R(4)	
	2-22	R(5)	
	2-22	R(6)	
	2-22	R(7)	
	2-22	R(8)	
	2-22	R(9)	
	2-22	R(10)	
16B	2-22	LMAX	
	2-22	KMAX	
	2-22	R(11)	
	2-22	R(12)	
	2-22	R(13)	
	2-22	R(13)	
	2-22	R(14)	
	2-22	R(15)	
	2-22	R(16)	
	2-22	R(17)	
	2-22	R(18)	
	2-22	R(19)	
	2-22	R(20)	

CARD ID	PG	PARAM	VALUE
16C	2-22	LMAX	
	2-22	KMAX	
	2-22	R(21)	
	2-22	R(22)	
	2-22	R(23)	
	2-22	R(24)	
	2-22	R(25)	
	2-22	R(26)	
	2-22	R(27)	

DATA CHECKSHEET Program 2, Cards 17A, 17B, 17C, and 17D

CARD ID	PG	PARAM	VALUE
17A	2-23	PCKILL(M,L,1)	
	2-23	PCKILL(M,L,2)	
	2-23	PCKILL(M,L,3)	
	2-23	PCKILL(M,L,4)	
	2-23	PCKILL(M,L,5)	
	2-23	PCKILL(M,L,6)	
	2-23	PCKILL(M,L,7)	
	2-23	PCKILL(M,L,8)	
17B	2-23	PCKILL(M,L,9)	
	2-23	PCKILL(M,L,10)	
	2-23	PCKILL(M,L,11)	
	2-23	PCKILL(M,L,12)	
	2-23	PCKILL(M,L,13)	
	2-23	PCKILL(M,L,14)	
	2-23	PCKILL(M,L,15)	
	2-23	PCKILL(M,L,16)	

CARD ID	PG	PARAM	VALUE
17C	2-23	PCKILL(M,L,17)	
	2-23	PCKILL(M,L,18)	
	2-23	PCKILL(M,L,19)	
	2-23	PCKILL(M,L,20)	
	2-23	PCKILL(M,L,21)	
	2-23	PCKILL(M,L,22)	
	2-23	PCKILL(M,L,23)	
	2-23	PCKILL(M,L,24)	
17D	2-23	PCKILL(M,L,25)	
	2-23	PCKILL(M,L,26)	
	2-23	PCKILL(M,L,27)	

DATA CHECKSHEET Program 2, Card 18

CARD ID	PG	PARAM	VALUE	CARD ID	PG	PARAM	VALUE
18	2-24	FTFNN(I)					
	2-24	FTDNN(I,1)					
	2-24	FTDNN(I,2)					
	2-24	FTDNN(I,3)					
	2-24	FTDNN(I,4)					
	2-24	FTDNN(I,5)					
	2-24	FTDNN(I,6)					
	2-24	FTDNN(I,7)					
	2-24	FTDNN(I,8)					
	2-24	FTDNN(I,9)					
	2-24	FTDNN(I,10)					
	2-24	FTDNN(I,11)					
	2-24	FTDNN(I,12)					
	2-24	FTDNN(I,13)					
	2-24	FTDNN(I,14)					
	2-24	FTDNN(I,15)					
	2-24	FTDNN(I,16)					

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