

Example of a Failure Report -

To support a The Failure Reporting and Corrective Action System (FRACAS).

System FAILURE REPORT					
PART I: RELIABILITY INFORMATION					
<u>OPERATIONAL PHASE</u>		<u>FAULT SYMPTOMS</u>		<u>DATE</u>	<u>LOG No.:</u>
	<u>REFERENCE DESIGNATOR</u>	<u>NOMENCLATURE</u>	<u>SERIAL No.</u>	<u>CUM. OP HOURS.</u>	
WRA					
SRA					
LOW. ASSY					
<u>DESCRIPTION OF FAILURE EFFECTS</u>					
<u>DESCRIPTION OF CAUSE OF FAILURE</u>					
PART II: MAINTAINABILITY ON EQUIPMENT (FIRST LINE)					
<u>FAULT DETECTION/ ISOLATION</u> <input type="checkbox"/> <u>BIT</u> <input type="checkbox"/> <u>SUPPORT EQUIPMENT</u> <input type="checkbox"/> <u>MAINTENANCE MANUALS</u>					<u>NAME</u>
<u>MAINTAINER PROVISIONS</u> <input type="checkbox"/> <u>ACCESSIBILITY</u> <input type="checkbox"/> <u>HANDLING</u> <input type="checkbox"/> <u>TOOLS</u>					<u>MTR</u>
<u>MAINTAINERS IMPROVEMENT RECOMMENDATIONS</u>					
PART III: MAINTAINABILITY OFF EQUIPMENT (SECOND LINE)					
<u>FAULT DETECTION/ ISOLATION</u> <input type="checkbox"/> <u>BIT</u> <input type="checkbox"/> <u>SUPPORT EQUIPMENT</u> <input type="checkbox"/> <u>MAINTENANCE MANUALS</u>					<u>NAME</u>
<u>MAINTAINER PROVISIONS</u> <input type="checkbox"/> <u>ACCESSIBILITY</u> <input type="checkbox"/> <u>HANDLING</u> <input type="checkbox"/> <u>TOOLS</u>					<u>MTR</u>
<u>MAINTAINERS IMPROVEMENT RECOMMENDATIONS</u>					
PART IV; CLOSE OUT ACTION					
<u>DISPOSITION:</u> <input type="checkbox"/> <u>NO ACTION</u> <input type="checkbox"/> <u>OBSERVATION</u> <input type="checkbox"/> <u>CORRECTIVE ACTION</u>					
<u>DATE:</u>	<u>Rel.:</u>	<u>Proj. Eng</u>	<u>Prog. Mgr</u>		
<u>CA No.:</u>					



Seq.#	Data Element Identification	Data Element Description	Notes/ Comments
1	Operation Phase	Enter the operation (or test) phase	e.g. Flight, Test, Operational Deployment.
2	Fault Symptom(s)	Summary of the fault (one liner)	e.g. Loss of Transmitter
3	Date	Date of the fault occurrence	
4	Log No.:	Enter a sequential Log Number	<i>This may be allocated automatically by a database utility</i>
5	WRA Reference Designator	Enter the WRA reference designator/ part number.	If a WRA is removed due to failure.
6	WRA: Nomenclature	Enter the WRA nomenclature	If a WRA is removed due to failure.
7	WRA Serial Number	Enter the WRA serial number	If a WRA is removed due to failure
8	WRA Cum. Op Hours	Enter the WRAs cumulative operating hours	If a WRA is removed due to failure
9	SRA Reference Designator	Enter the SRA reference designator/ part number.	If a SRA is removed due to failure. <i>If a WRA is returned to the subcontractor and vendor failures reports will supplement the information in this field.</i>
10	SRA: Nomenclature	Enter the SRA nomenclature	If a SRA is removed due to failure. <i>If a WRA is returned to the subcontractor and vendor failures reports will supplement the information in this field.</i>
11	SRA Serial Number	Enter the SRA serial number	If a SRA is removed due to failure. <i>If a WRA is returned to the subcontractor and vendor failures reports will supplement the information in this field.</i>
12	Description of Failure Effects	Enter a detailed description for the failure effects on the operation of the System	
13	Description of Failure Cause	Enter a detailed description of the Failure Cause. Detail to be entered is to commensurate to the level of the unit replacement. e.g. System, WRA, SRA	<i>In addition to the collected field data the subcontractor and vendor failures reports will supplement the information in this field.</i>
14	Fault detection/ isolation "On-Equipment"	Enter detailed information on for the "On-Equipment" fault detection isolation activities	Provide details on BIT, use of support equipment etc. that was used to aid the fault detect/ isolate task. To the WRA and/ or SRA level
15	Maintainers Provisions "On-Equipment"	Comment on the maintainers provisions	Provide details such as accessibility, handling and tools used.
16	Name "On-Equipment"	Enter the name of the person(s) who completed the maintenance task	
17	Task time "On-Equipment"	Enter the task time that was required to fault isolate and rectify the System failure	
18	Maintainer Improvements/ recommendations	Enter observed potential problems areas associated to the maintenance characteristics.	e.g. WRA was difficult to remove from its operational position due to.....or, the BIT was ineffective and the use of additional SE for

Copyright © 2001 - 2009 MTain except where otherwise noted. All rights reserved.
Reproduction in whole or in part without permission is prohibited.

Contact: info@mtain.com or at www.mtain.com



Seq.#	Data Element Identification	Data Element Description	Notes/ Comments
			diagnostics was required
19	Fault detection/ isolation "Off-Equipment"	Enter detailed information on for the "on-aircraft" fault detection isolation activities	Provide details on BIT, use of support equipment etc. that was used to aid in the fault detect/ isolate task. To the SRA level, as the WRA would of been removed from its operational position
20	Maintainers Provisions "Off-Equipment"	Comment on the maintainers provisions	Provide details such as accessibility, handling and tools used. <i>If required</i> , as the remove unit (WRA/ SRA) may be directly returned to the subcontractor, vendor or Customer
21	Name "Off-Equipment"	Enter the name of the person(s) who completed the maintenance task	<i>If required</i> , as the remove unit (WRA/ SRA) may be directly returned to the subcontractor, vendor or Customer
22	MTTR "Off-Equipment"	Enter the task time that was required to fault isolate and rectify the System failure	<i>If required</i> , as the remove unit (WRA/ SRA) may be directly returned to the subcontractor, vendor or Customer
23	Fault detection/ isolation "Off-Equipment"	Enter detailed information on for the "On-Equipment" fault detection isolation activities	Provide details on BIT, use of support equipment etc. that was used to aid in the fault detect/ isolate task
24	Maintainer Improvements/ recommendations	Enter any observed potential problems areas associated to the maintenance characteristics.	e.g. SRA was difficult to remove from its operational position due to... or, the BIT/ test points were ineffective and the use of additional SE for diagnostics was required
25	Disposition	Enter the disposition of the analysis activity as performed by the R&M Engineer. This will include No Action, Observation, Corrective Action	The Reliability Engineer will enter the disposition information.
26	Date	Enter the date for the close-out of the Failure Report.	
27	Names	Enter the names for the key personnel involved in the disposition of the FR.	This includes the Reliability Engineer, Reliability Engineering Manager, and the Program Manager (In the event of a CA been Raised)
28	CA No.:	Enter the corrective action number	This is a sequential tracking assigned to each Corrective Action Raised