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GUIDE TO GOVERNMENT RELIABILITY MAINTAINABILITY AND
QUALITY ASSURANCE ORGANIZATIONS(U) ROME AIR DEVELOPMENT
CENTER GRIFFISS AFB NY P R MACDIARMID ET AL. FEB 83

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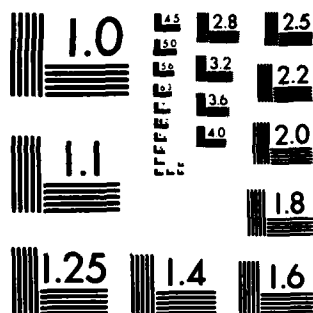
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Technical Report
February 1980



GUIDE TO GOVERNMENT RELIABILITY, MAINTAINABILITY AND QUALITY ASSURANCE ORGANIZATIONS

ADA 130465

Preston R. MacDiarmid and George W. Lyne

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these disciplines. Respondees were encouraged to add the names of others not included in the original distribution. The results, as presented, represent a first attempt at compiling such a listing. Subsequent updates will be more complete.

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PREFACE

This final report was prepared by the Systems Reliability and Engineering Branch of Rome Air Development Center, Griffiss AFB NY to document the final results of an in-house study effort. The purpose was to identify reliability, maintainability and quality assurance organizations within the government as a means of improving communication, cooperation and technology transfer.

Capt Gerald Salatino was the initial RADC Project Engineer responsible for the idea to create a guide. Mr. Preston R. MacDiarmid was the RADC Project Engineer who completed the effort. Mr. George Lyne and Mr. Richard Unkle were responsible for developing the software that produced the final results.

Other RADC contributors that enabled the successful completion of this effort were Nancy Phalen, Vincent Nivaggi and Debra Rehm.

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1.0 INTRODUCTION

Many agencies within the United States government perform functions related to reliability, maintainability and quality assurance. It was not possible to determine if there was a complete guide of these organizations available from any source. Compilation of such a list is complicated by the frequent organizational changes of government agencies as well as the transitory nature of military personnel. The RADC Systems Reliability & Engineering Branch felt there was a definite need to formulate, as complete as possible, a guide to government reliability, maintainability and quality assurance organizations in the hope of fostering more communication between agencies to share techniques and experiences as well as prevent duplication of effort. The guide would subdivide organizations by function within the reliability, maintainability and quality assurance disciplines.

2.0 APPROACH

A "Survey of Government Reliability and Maintainability Organizations" was formulated and distributed to over 200 organizations throughout government assumed to have a role in reliability, maintainability, or quality assurance. Recognizing that the initial distribution would probably not be complete, respondents were asked for potential additional distribution. Survey questions addressed R/M activities, facilities, types of equipment specialties as well as number of people and other organizational information.

Appendix A includes the survey as well as the initial distribution list. Because the "fill-in" type replies did not readily lend themselves

to automation, all responses were reviewed and put into a "multiple-choice" type format included as Appendix B. A computer program was written to alphabetize, format, and sort the responses.

3.0 RESULTS

Detailed results of agencies responding who indicated they have a significant role in reliability, maintainability, and quality assurance are included in Section 3.1 through 3.4.

These sections are tabulated as follows:

<u>Section</u>	<u>Agency</u>
3.1	Air Force
3.2	Army
3.3	Navy
3.4	Others

No attempt was made to assess responses to determine the degree to which the agency plays a role in a particular function or whether it has more responsibility than other organizations.

While an attempt was made to include all R/M/QA organizations, it is very difficult to be all encompassing on a first attempt. As a result, provision has been made to add additional agencies as well as to update the information on existing responses. Self addressed forms for doing so are provided in Appendix C. The initial plan is to update this guide annually.

3.1 AIR FORCE ORGANIZATIONS

AIR FORCE

Reliability/Maintainability/Quality Assurance Organizations

Organization/ Address/Chief/ Phone	Functions		Policy				Number of People	Equipment/ System Type	Use Environment		Facilities	
	R/M	R/M Q/A	(a)Policy	(b)Techniques	(c)Applications	(d)Testing			Ground	Air	LTC	LTC
AFTEC/LG AFTEC/LG Kirtland AFB NM 87117 Col Richard Gunkel AV-244-9736,	x	q/a	d				60	Weapons Systems	G	A	M	T
Air Force Institute of Technology AFIT/LBEJ Bldg 641, Area B Wright-Patterson AFB OH 45433 B. Boettcher (513)255-7336	x		f				400	Avionics	G	A	M	LTC
Air Force Institute of Technology AFIT/LSV Wright-Patterson AFB OH 45433 Professor V. Rehg AV-785-4845	x		f				15	Air Force Systems	G	A	M	
Air Force Plant Representative Office Det 9/EN The Boeing Co. PO Box 3707 Seattle WA 98124 Lt Col J. Pierson 206-655-8279	x		d				25	Aerospace	A			
Air Frame Systems Division, R&M Branch 6520 Test Group/ENAR Edwards AFB CA 93523 Jan M. Howell AV-350-3066, 804-942-9988	x		c	d			11	Aeronautical Systems	A			T C

AIR FORCE

Reliability/Maintainability/Quality Assurance Organizations

Organization/ Address/Chief/ Phone	Functions		(a) Policy				Number of People	Equipment/ System Type	Use Environment		Facilities	
	R/M	Q/A	(b) Techniques	(c) Applications	(d) Testing	(e) Standards			Ground	Air	Missile	Sea
Directorate of Inertial Engineering AGMC/SN Newark AFS OH 43055 Lt Col Thomas P. Currie AV-580-7402	x						65	Gyros/Inertial Guidance				
Directorate of Reliability & Maintainability AFALB/PTB Wright-Patterson AFB OH 45433 Major L. Griffin AV-785-4177, 513-255-4177	x						12	Aircraft, Missiles and Space				
Engineering Division OOALC/MME Ogden ALC Hill AFB UT 84056 Col V. R. Hollandsworth 801-777-7555	x						265	Avionics				
Engineering Division SA-ALC/MMEA Kelly AFB TX 78241 Mr. L. F. Smith AV-945-4225	x						26	Aircraft				
Hq Air Force Systems Command Hq AFSC/CCK Andrews AFB DC 20334 Mr. Jack Lavery AV-858-6869	x						13	Air force systems				

AIR FORCE

Reliability/Maintainability/Quality Assurance Organizations

Organization/ Address/Chief/ Phone	Functions		-----Policy				Number of People	Equipment/ System Type	Use		Facilities	
	R/M	Q/A	(a)Policy	(b)Techniques	(c)Applications	(d)Testing			Environment			
Hq ESC	x						20	Electronics	6	A		T
Hq ESC/LCHQ												
San Antonio TX 78243												
Lt Col Charles D. Meadows												
AV-945-2736, 512-925-2736												
Hq Oklahoma City Air	x						12	Aircraft & Missiles	A	M		T
Logistics Center												
OC-ALC/MHEAR												
Tinker AFB OK 73145												
Mr. Gary E. Wall												
AV-735-5569, 405-734-5569												
Product Assurance Office												
ESD/7TOP	x						4	Electronics & Avionics	6	A		C
Wanscom AFB MA 01731												
Lt Col Francis Caravaglio												
AV-478-3231												
Reliability &												
Maintainability Branch	x						33	All Aircraft Systems	A			T C
ASD/EMESR												
Wright-Patterson AFB OH 45433												
Mr. John D. Gerber (Actg)												
AV785-6914, 513-255-6914												
Reliability Engineering												
Section	x						5	Communications & Electronics	A			L T C
SM-ALC/MHEAR												
McClellan AFB CA 95052												
Mr. Clarence E. Howard												
AV-633-2865, 916-643-2865												

Reliability/Maintainability/Quality Assurance Organizations

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3.2 ARMY ORGANIZATIONS

Reliability/maintainability/quality Assurance Organizations

Organization/ Address/Chief/ Phone	Functions		-----Policy							Number of people	Equipment/ System Type	Use Environment	Facilities
	R/M	Q/A	(a)Techniques	(b)Applications	(c)Testing	(d)Standards	(e)Training						
Advanced Attack	x		c						5	Helicopters	A		
Helicopter Program Manager ATTN: DRCPM-AAM-PA 43ND Goodfellow Blvd. St. Louis MO 63120 Mr. Albert J. Lauber AV-693-1952,314-263-1952													
Amunition Survl Division	x		d						45	Electronic & Mechanical Systems	G M L	L	
Commander SDSR-AV Red River Army Depot Texarkana TX 75507 Mr. Dwight E. Grassler, Sr. AV-829-2708,214-R3R-2708													
DARCOM HQ DRCSA-ER 5001 Eisenhower Ave. Alexandria VA 22333 Mr. Arthur Nordstrom AV-284-8216,202-274-R916	x		a						15				C
Bob Project Manager Mobile Electrical Power DRCPM-MEP-C (Mr. R. Sackett) 750D Backlick Rd. Springfield VA 22150 Col Michael Higgins AV-354-1952,703-664-1952	x		d						30	Portable Generators	G		C
Industrial Engineering & Development Div DELET-R Electronics Technology & Devices Lab USAEWADCOM Ft Monmouth NJ 07703 Eleanor A. Twomey AV-995-2A92,201-544-28A2	x		c						14	Electronics Devices & Power Supplies	G		

ARMY

Reliability/Maintainability/Quality Assurance Organizations

Organization/ Address/Chief/ Phone	Functions		Policy				Number of People	Equipment/ System Type	Use Environment		Facilities
	R/M Q/A	R/M Q/A	(a)Policy	(b)Techniques	(c)Applications	(d)Testing			Ground	Air	
Logistics Assessment Division DRSAR-GAL ABRCON QA Directorate Rock Island Arsenal IL 61299 Mr. Gerald J. Kenaley AV-793-6851, 09-794-4855	x						24	Weapons & Ammunition			C
Logistics Audit Branch, PAB SARUV-QAC-L Waterbury Arsenal Waterbury CT 06206 Mr. Bertram C. Neiseman AV-974-5538, 518-266-5538	x						17	Cannons & Weaponry			T
MI Abrams Tank-Product Assurance & Test BRCPH-ECM-QA Warren MI 48090 Mr. Paul Leichter AV-786-6801	x						4	Tank Equipment			C
Maintenance Engr Branch, Logistics Directorate US Army TMBE Support Group BR341-MFM Redstone Arsenal AL 35898 Mr. William Brinsen AV-744-3054	x						12	Electronics			L T C
Patriot Missile System BARCON Project Manager BRCPH-MB-S-P Redstone Arsenal AL 35898 Mr. Vernon O. Chance AV-742-3161, 205-895-3141	x						9	Missiles			M

ARMY

Reliability/Maintainability/Quality Assurance Organizations

Organization/ Address/Chief/ Phone	Functions		Policy						Number of People	Equipment/ System Type	Use Environment		facilities
	R/M Q/A	R/M Q/A	(a)Policy	(b)Techniques	(c)Applications	(d)Testing	(e)Standards	(f)Training			Ground	Air	
Product Assurance & Test Dir CECOM DASEL-PTA Fort Monmouth NJ 07703 Mr. Joseph J. D'oria AV-995-2743	x								78	Electronics, Communications & Control			C
Quality Sys & Mgmt Division Commander SBSR-0A Red River Army Depot Texasiana TX 75307 Mr. James E. Barling AV-829-2516, 2714-828-2516	x		d						62	Electronic & Mechanical Systems			L
RAM Division, Army Test & Eval Dir Commander, USAUSMR ATTN: STEWS-TE-R White Sands Missile Range NM 88002 Mr. William G. Frye AV-25R-1185, 505-078-1185	x		h	d					80	Missiles			T C
RAM Ener Br, Cml Sys Div, Prod Assurance Dir AARACOM, DRBAR-0AC-R Aberdeen Proving Ground MD 21010 Mr. George E. Rose AV584-4322, 301-071-4322	x		c						15	Chemical & Biological			T C
Reliability & Maintainability Engineering Section Penet Weapons Laboratory DRBAR-LCR-DR Watervliet NY 12190 Mr. Thaddeus H. Moraczewski AV-976-4107	x		d						0	Cannons, Mortars, Recoilless Rifles			L T

ARMY

Reliability/Maintainability/Quality Assurance Organizations

Organization/ Address/Chief/ Phone	Functions		Policy				Number of People	Equipment/ System Type	Use		Facilities
	R/M	R/M	(a)	(b)	(c)	(d)			Environment		
	Q/A	Q/A	Testing	Applications	Standards	Training			Ground	Air	L T C
											a e o
											b s m
											t p
Reliability and Maintainability Engineering Div Hq US Army Missile Command ORSMI-OR Redstone Arsenal AL 35898 Mr. William L. Walker AV-746-7570-205-976-7570	x						33	Missiles			M
Reliability/Logistic Supportability Division ORSTE-AB-R MO, US Army Test & Evaluation Command Aberdeen Proving Ground MD 21005 Mr. William B. McIntosh AV-283-3026-301-278-3026	x						9	All Types of Army Equipment	G A		
TRMP Office Commander SBSM-01 Tomball TX 75507 Mr. William B. Wuerz AV-829-3202-214-818-3202	x						45	Electronic & Mechanical Systems	G M		L
TSARCOM & AVRADCOM Dir of Product Assurance 4300 Goodfellow Blvd St. Louis MO 63120	x						0	Airborne	A		C
US Army Aviation R&D Command ORBAV-OR 4300 Goodfellow Blvd St. Louis MO 63120 AV-693-1575-314-261-1575	x						14	Aircraft	A		C

ARMY

Reliability/Maintainability/Quality Assurance Organizations

Organization/ Address/Chief/ Phone	Functions		Policy				Number of People	Equipment/ System Type	Use		Facilities	
	R/M	R/M	(a)	(b)	(c)	(d)			Environment			
US Army Comd-Elec Engrg Installation Acty HQ USACEEIA CCC-TEB-9A Ft Muechuca AZ 85613 J. Summers AV-879-6014, 602-538-6014	x	Q/A					5	Ground Electronics/Communications				
US Army Defense Ammo Center & School SARAC-80 Savanna IL 61074 Mr. John Byrd AV-585-8511, 815-273-8511	x						200	Ground Mechanics & Electronics				
US Army Elec Materiel Readiness Acty USAEHRA SELEM-8A Vint Mill Farms Station Warrenton VA 22186 Mr. Robert E. Emery AV249-6791	x						14	Electronics-Electronic Warfare				
US Army Electronic Proving Ground Test Operations Office STESP-XI-1 Ft Muechuca AZ 85613 Mr. Will M. Dunn/CW2 Bell AV-879-6418, 602-538-6418	x						37	Electronics-Comm, Avionics, Comp, EM Surv Sys				
US Army Management Engineering Training Acty Director, Quality Assurance Dept 8820M-8A Reck Island IL 61209 Wilbur L. Weare, PhD., Department Head AV 793-4041, 309-794-4041	x						11	Weapons/Support Systems				

ARMY

Reliability/Maintainability/Quality Assurance Organizations

Organization/ Address/Chief/ Phone	Functions		----- (a) Policy ----- (b) Techniques ----- (c) Applications				Number of People	Equipment/ System Type	Use Environment		Facilities
	R/M O/A	R/M O/A	1	2	3	4			1	2	
US Army Mobility Equip R&D Command Quality & Reliability Div ATTN: DRDME-10 Fort Belvoir VA 22060 Mr. Lynwood M. Rabon, Jr. AV-356-5771, 703-664-2037	x			d			30	Mechanical & Electromechanical Sys	6		L T
US Army Night Vision & Electro-Optics Lab BLW-PA Fort Belvoir VA 22060 Mr. Kenneth Selinski AV-356-6895, 703-664-6895	x			c			9	Electro-Optical	6		L C
US Army TACOM RAM Assessment & Data Division DRSTA-OR Warren MI 48090 Mr. Leonard K. Jekubaitis AV780-6343, 313-574-6343	x			c			50	Tank & Auto Equipment	6		L C
US Army TRADOC Systems Analysis Acty Commander, USATRADOC-ATAA White Sands Missile Range NM 88002 Dr. Wilbur B. Payne, Director 505-678-1810	x			b c			345	Studies Relating to All Army Systems	6 A M		C
US Army TRACOM DRSTS-GE 4300 Goodfellow Blvd St. Louis MO 63120 Mr. Martin Joseph 314-263-2464	x			c			30	All Except Weaponry & Systems	6 A		T

3.3 NAVY ORGANIZATIONS

NAVY

Reliability/Maintainability/Quality Assurance Organizations

Organization/ Address/Chief/ Phone	Functions R/M R/M Q/A Q/A Q/A	----- Policy (a) Techniques (b) Applications (c) Testing (d) Standards (e) Training (f) Training	Number of People	Equipment/ System Type	Use Environment ----- Ground Air Missile Sea	Facilities L T C a e o b s m t d
Applied Sciences Department Naval Weapons Support Center (Code 50) Crane IN 47522 C. D. Robinson 812-854-1282	x	d	115	Chemical	6	T
David Taylor Naval Ship R&B Center Commanding Officer (Code 2733) Annapolis Laboratory Annapolis MD 21402 Mr. Gordon C. Heglein AV-281-3836, 301-267-3836	x	d e	2	Shipboard Equipment	S	L T C
Engineering & Logistics Support Naval Sea Systems Command NAVSEA 62C Washington DC 20362 Mr. A.R. Frizalone 202-692-1939	x	a	40	Surface/Sea	S	
Fleet Logistics Support Department Plans & Programs Staff (Code 70C) Naval Weapons Support Center Crane IN 47522 Mr. John C. Summers AV-482-1876, 812-854-1876	x	d	8	Chemical	6	
Hq Naval Material Command Commanding Officer (MAT-06) Washington DC 20360 Mr. W.J. Willoughby 202-692-1106	x	a	21	Naval Systems	G A M	

NAVY

Reliability/Maintainability/Quality Assurance Organizations

Organization/ Address/Chief/ Phone	Functions		Policy						Equipment/ System Type	Use Environment		Facilities
	R/M	Q/A	(a)	(b)	(c)	(d)	(e)	(f)		Ground	Air	
	R/M	Q/A							Number of People			L T C a e o b s m t p
Mine Warfare Project Office Naval Sea Systems Command (PMS-407) Washington DC 20362 Capt J.M.P. Wright 202-692-3881	x								45			S
NAVAIR Engineering Support Office Naval Air Network Facility MCAS Cherry Point NC 28533 W. T. Taylor 919-666-2895	x								150			A
Naval Air Engineering Center Commanding Officer Tech Library (Code 1115) Lakehurst NJ 08733 Capt R.D. Fritchenlicht, W.J. Cox AV-624-2893, 201-323-2893	x								1500			G A L T C
Naval Electronics Systems Command Detachment PME120-1333 Attn: J. Gardner Patuxent River MD 20670 Cdr M. Davidson AV-356-3891	x								6			A L C
Naval Sea Systems Command Naval Sea Systems Command (Code 3133) Washington DC 20362 M.L. Buckberg 202-692-2150	x								10			S C

NAVY

Reliability/Maintainability/Quality Assurance Organizations

Organization/ Address/Chief/ Phone	Functions		-----Policy				Number of People	Equipment/ System Type	Use Environment		Facilities	
	R/M	Q/A	(a)Policy	(b)Techniques	(c)Applications	(d)Testing			-----Ground	-----Air	-----Missile	-----Sea
Naval Sea Systems Command (PMS 392) DEPARTMENT OF THE NAVY Naval Sea Systems Command (PMS 392) Washington DC 20362 Mr. Robert Snyder 202-692-5441	x						5	All Shipboard Systems				
Naval Sea Systems Command (SEA-03E) DEPARTMENT OF THE NAVY Naval Sea Systems Command (SEA-03E) Bethesda, Maryland 20084 Mr. George Tsuchida (Director, Material Readiness) AV287-1455, 203-227-1455	x						2	Shipboard				
Naval Ship Weapon System Engrg Station Commanding Officer MSWSES (Code 0700) Port Hueneme CA 93043 Billie M. Edwards 805-982-4210	x						0	Surface Missiles & Electronics, Mech	G	M		C
Naval Ship Weapon Systems Engineering Station Commanding Officer MSWSES (Code 0730/0740) Port Hueneme CA 93043 R. Muir, E.J. West AV360-5773, 805-982-5773	x						17	Shipboard Weapons Systems				T C
Pacific Missile Test Center PATE Division, Code 1140 Pacific Missile Test Center Point Mugu CA 93042 J.M. Perkins AV-351-7846, 805-982-7846	x						115	Missile & Electronic Warfare Devices		M		T

Reliability/Maintainability/Quality Assurance Organizations

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NAVY

Reliability/Maintainability/Quality Assurance Organizations

Organization/ Address/Chief/ Phone	Functions		----- (a) Policy						Equipment/ System Type	Use Environment		Facilities	
	R/M Q/A	R/M Q/A	(b) Techniques	(c) Applications	(d) Testing	(e) Standards	(f) Training	Number of People		-----Ground	-----Air	-----Missile	-----Sea
Reliability/Maintainability Branch Commanding Officer? Naval Weapons Center (Code 3686) China Lake CA 93555 Mr. Flint Jacobs AV-437-3303, 714-939-3303	x							30	Naval Weapons, EC, Mech, Avionics				
Sys Eval Div, Weapons Qual Engrg Cen Naval Weapons Support Center (Code 3064) Crane IN 47522 Mr. Robert E. Saum, Branch Manager AV-482-1285, 812-854-1285	x							15	Chemical				
System Effectiveness Division Naval Sea Systems Command (Code 6121) Washington DC 20362 Toshio Oishi	x							10	Seaboard Electronics				
System Safety and Reliability Group System Readiness Branch, U32 Naval Surface Weapons Center, White Oak Lab Silver Springs MD 20910 Mr. Overton C. Parrent, Group Head 202-394-1547	x							15	Shipboard Weapons systems				
Systems Engineering Division Commanding Officer Naval Coastal Systems Center (Code 752) Panama City FL 32407 F.A. Frassman AV-436-4475, 904-234-4475	x							6	Naval Systems				

3.4 OTHER ORGANIZATIONS

OTHERS

Reliability/Maintainability/Quality Assurance Organizations

Organization/ Address/Chief/ Phone	Functions R/M Q/A	----- Policy (a) Policy (b) Techniques (c) Applications (d) Testing (e) Standards (f) Training	Number of People	Equipment/ System Type	Use Environment ----- Ground Air Missile Sea	Facilities L T C a e o b s m t p
USMC Amphibian Vehicle Test Branch Marine Corps Tactical Sys Spt Acty (MCC NS2) Marine Corps Base, Camp Pendleton CA 92055 Maj J.M. Hawkins, Chief, AVTB AV-933-2601, 714-725-2601	x	d	65	Amphibious Vehicles	G	L T
Directorate for Quality Assurance DLA/OEL ATTN: Mr. Mason Cameron Station Alexandria VA 22314 RADM F. Collins 202-274-7141	x	e	40	Contract Admin	G A M	
Assistant for Reliability & Maintainability Office of the Under Secretary of Defense OUSD (R&E) The Pentagon, Rm 24318 Washington DC 20301 202-695-7915	x	a	1	All	G A M	
Defense Materiel Spec & Standards Office OUSD (R&E)-DMSSO Two Skyline Place 5203 Leesburg Pike Falls Church VA 22041 Mr. Samuel P. Miller AV-289-2343, 703-756-2343	x	a e	20	Military Systems	G A M	
Deputy Under Secretary of the Army SAUS-or Room 2E621 Pentagon Washington DC 20310 Mr. Walter Hollis AV-227-0366, 202-697-0366	x	a b d	11	All Army Equipment	G A M	T

Reliability/Maintainability/Quality Assurance Organizations

Organization/ Address/Chief/ Phone	Functions R/M Q/A	-----Policy						Equipment/ System Type	Use Environment	Facilities

		(a) Policy	(b) Techniques	(c) Applications	(d) Testing	(e) Standards	(f) Training			
Airway Systems Division FAA AAS077 800 Independence Ave, SW Washington DC 20591 Mr. Mel Yoshikami 202-426-8345	x	a	c	4	Electronics	G				
DOT/FAA Technical Center DOT/FAA ARD-142 Atlantic City NJ 08405 A.R. Cioffi 609-641-8200	x	d		50	Air Traffic Control Systems	G		T C		
Program Assurance Division NASA, Office of the Chief Engineer Code BP Washington DC 20546 Dr. Richard S. Sapp, Director 202-755-3356	x	a	e	10	Aeronautical Equip		A M	L T C		
Program Assurance Office DOB NASA/Ames Research Center Moffett Field CA 94035 Mr. Fred F. deMuth 415-965-5638	x	c		34	Weaponry	G	A M	L T		
Reliability & Quality Assurance Office NASA Lewis Research Center Mail Stop 500-211 Cleveland OH 44135 Mr. John W. Gibb 216-433-4000	x	d		29	Aerospace Equip	G	A M	L T C		

OTHERS

Reliability/Maintainability/Quality Assurance Organizations

Organization/ Address/Chief/ Phone	Functions		----- (a) Policy ----- (b) Techniques ----- (c) Applications ----- (d) Testing ----- (e) Standards ----- (f) Training					Number of People	Equipment/ System Type	Use Environment		Facilities	
	R/M Q/A	R/M Q/A								----- Ground Air Missile Sea		LT C B M P	
Reliability Division NASA/JSC Houston TX 77058 Mr. Joseph M. Levine 713-483-3655	x			c	d			65	Manned Spacecraft Systems		M		
Systems Safety, Quality & Reliability Office NASA Langley Research Center Mail Stop 429 Hampton VA 23665 Mr. Walter C. Hoggard 804-827-3188	x			c				23	Aircraft Systems	A	M	LT	
Center for Materials Science National Bureau of Standards Center for Materials Science Washington DC 20234 Dr. John B. Wachtman, Jr. 301-921-2891	x			d				300	Materials	G	A	M	LT
Diagnostics & Techniques Director, National Security Agency ATTN: T2113 Ft Meade MD 20755 Mr. Robert L. Pless 301-688-8222	x			d				0	Electronics & Communications	6		LT	
National Security Agency Director, National Security Agency ATTN: R634 9800 Savage Road Fort Meade MD 20755 Mr. James B. Thomas 301-796-6301	x			c				10	Ground Equipment	6			C

OTHERS

Reliability/Maintainability/Quality Assurance Organizations

Organization/ Address/Chief/ Phone	Functions		Policy				Number of People	Equipment/ System Type	Use		Facilities
	R/M	Q/A	(a)Policy	(b)Techniques	(c)Applications	(d)Testing			Environment	Facilities	
Reliability & Maintainability Engineering Branch DIRNSA ATTN: S231 Ft Meade MD 20755 Mr. Larry M. Roelofs AV-235-6071, 301-688-6071	x						12	Electronics & Communications	6		L T

4.0 Conclusions

While this report certainly does not include all government R/M/QA organizations, it represents a good first cut attempt at establishing a list of them. Only by being aware of co-existing organizations and agencies within the government can communications be fostered and R/M/QA technology be efficiently developed, transitioned and applied.

As an additional step in transitioning technology, Appendix D includes a list of Rome Air Development Center Technical Reports in the field of Reliability and Maintainability (1981-1982). Also included are government agencies from whom the reports are available.

APPENDIX A

**SURVEY OF GOVERNMENT
RELIABILITY AND MAINTAINABILITY ORGANIZATIONS**

SURVEY OF GOVERNMENT RELIABILITY & MAINTAINABILITY ORGANIZATIONS

ORGANIZATION NAME & SYMBOL _____

ADDRESS _____

TELEPHONE NUMBER _____

ORGANIZATION CHIEF _____

NUMBER OF PEOPLE IN ORGANIZATION _____

R&M ACTIVITIES (Research & Development, Field Testing, Logistical
Support, Quality Assurance, Generation of Mil Standards, etc.) _____

DESCRIPTION OF FACILITIES (Laboratories, Computer Capabilities, Test
Facilities, etc.) _____

WHAT IS YOUR ORGANIZATION'S SPECIALTY (Avionics, Ground Equipment,
Mechanical Systems, Electronics, Weaponry, etc.) _____

WOULD YOU LIKE TO BE PUT ON A DISTRIBUTION LIST FOR ROME AIR
DEVELOPMENT CENTER R/M TECHNICAL REPORTS?

_____ Reliability Reports
_____ Maintainability Reports
_____ Both

NOTE: PLEASE PLACE RADC ON YOUR DISTRIBUTION LIST FOR R/M TECHNICAL
REPORTS, AS FOLLOWS:

RADC/RBE
ATTN: Mr. Anthony J. Feduccia
Griffiss AFB NY 13441

DISTRIBUTION LIST

US Army Communications R&D Command
ATTN: DRDCO-PT
Fort Monmouth NJ 07703

Commanding Officer
Ecom Product Assurance Division
Advanced Methodology Branch
Fort Monmouth NJ 07703

Commanding Officer
US Army Electronics Command
Fort Monmouth NJ 07703

US Army Communications Electronics
& Material Readiness Command
ATTN: DRSEL-PA-S
Fort Monmouth NJ 07703

Electronics Technology & Devices
Laboratory
ATTN: DELET-D-PA
Fort Monmouth NJ 07703

US Army Electronics R&D Command
ATTN: DRDEL-PA
2800 Powder Mill Road
Adelphi MD 20783

US Army Electronics R&D Command
ATTN: DEDEL-CG
Adelphi MD 20783

Harry Diamond Laboratories
Product Assurance & Test Branch
ATTN: DELHD-I-EB
Adelphi MD 20783

US Army Tank-Automotive Materiel
Readiness Command
ATTN: DRSTA-GSEM
Warren MI 48090

US Army Tank-Automotive Materiel
Readiness Command
ATTN: DRSTA-QA
Warren MI 48090

US Army Tank-Automotive R&D Command
R&M Engineering Division
ATTN: DRSTA-JR
Warren MI 48090

US Army Aviation R&D Command
ATTN: DRDAV-EQA
St. Louis MO 63166

US Army Support & Aviation Materiel
Readiness Command
ATTN: DRSTS-Q
St. Louis MO 63120

Commanding Officer
US Army Aviation Systems Command
PO Box 209
St. Louis MO 63166

Commanding Officer
ALMSA/DRXAL
St. Louis MO 63120

US Army Aviation R&D Command
R&M Assessment Division
ATTN: DRDAV-QR
St. Louis MO 63166

US Army Test & Evaluation Command
ATTN: DRSTE-AD-M
Aberdeen Proving Ground MD 21005

Commanding Officer
US Army Materiel Systems Analysis
Activity
Aberdeen Proving Ground MD 21005

US Army Armament Materiel Readiness
Command
ATTN: DRXSY-RM
Aberdeen Proving Ground MD 21010

R&M Engineering Branch
ATTN: DRDAR-QAC-R
Edgewood Area
Aberdeen Proving Ground MD 21010

Director
US Army TRADOC Systems Analysis
Activity
White Sands Missile Range NM 88002

Commanding Officer
US Army White Sands Missile Range
White Sands Missile Range NM 88002

Commanding Officer
US Army Management Engineering Training
Activity
Rock Island IL 61201

US Army Armament Materiel Readiness Command
ATTN: DRSAR-QAL
Rock Island IL 61299

Commanding Officer
ATTN: DRCPM-MD-L-Q
Redstone Arsenal AL 35809

US Army Meteorology & Calibration Center
International Logistics Coordinator
ATTN: DRSMI-MFT
Redstone Arsenal AL 35809

US Army Missile R&D Command
R&M Engineering Division
ATTN: DEDMI-QR
Redstone Arsenal AL 35809

Commanding Officer
WECOM Benet Research Engineering Laboratory
Watervliet NY 12189

Commanding Officer
Reliability & Test Division
ATTN: SARWV-QAR
Watervliet NY 12189

Commanding Officer
International Logistics Coordinator
ATTN: SARWV-QAC-L
Watervliet NY 12189

Commanding Officer
Benet Weapons Laboratory
ATTN: LCWSL
Watervliet NY 12189

Commanding Officer
US Army Comm-Elec. Engineering
Installation Agency
Fort Huachuca AZ 85613

US Army Electronic Proving Ground
Logistics Directorate
ATTN: STEEP-LD
Fort Huachuca AZ 85613

US Army Armament R&D Command
PA Technology/Assessment Div
ATTN: DRDAR-QA
Dover NJ 07801

Commanding Officer
US Army Office of the Chief of
Engineers
Washington DC 20314

Deputy Under Secretary of the Army
for Operation Research
ATTN: SAUS-OP, The Pentagon
Washington DC 21310

US Army Materiel & Mechanics Research
Center
ATTN: DRXMR-TM
Watertown MA 02172

US Army Materiel & Mechanics Research
Center
ATTN: DRXMR-M2
Watertown MA 02172

US Army Mobility Equipment R&D Command
Quality & Reliability Division
ATTN: DRDME-TQ
Fort Belvoir VA 22060

US Army Night Vision & Electro-
Optical Laboratory
ATTN: DELVN-PA
Fort Belvoir VA 22060

Commanding Officer
DARCOM Quality Assurance Field
Activity
ATTN: DRZQA
Lexington KY 40511

Commanding Officer
Lexington-Blue Grass Depot Activity
ATTN: SDSRR-LQ
Lexington KY 40511

US Army Defense Ammunition Center
Logistics Engineering Office
ATTN: SARAC-DE
Savanna IL 61074

International Logistics Coordinator
ATTN: SDSLE-VS
Savanna Army Depot
Savanna IL 61074

Quality Systems & Management Division
ATTN: SDSTO-QA
Tobyhanna PA 18466

US Army, Corpus Christi Army Depot
ATTN: AVSCOM
Corpus Christi TX 78419

Commanding Officer
US Army Applied Technology Laboratory
Fort Eustis VA 23604

Commanding Officer
US Army Logistics Center
Fort Lee VA 23801

Commanding Officer
US Army Electronic Materiel Readiness
Activity
Warrenton VA 22186

Directorate for Quality Assurance
ATTN: DRCQA
Alexandria VA 22333

Directorate for Quality Assurance
ATTN: SARRM-QA
Rocky Mountain Arsenal
Commerce City CO 80022

Directorate for Quality Assurance
ATTN: DRSDS-Q
Letterkenny Army Depot
Chambersburg PA 17201

Directorate for Quality Assurance
ATTN: SESRR-Q
Red River Army Depot
Texarkana TX 75501

Maintenance Quality Control Division
ATTN: SESSA-QMC
Sacramento Army Depot
Sacramento CA 95813

Directorate for Quality Assurance
ATTN: SDSSE-R
Seneca Army Depot
Rumulus NY 14541

International Logistics Coordinator
ATTN: SDSSI-QA
Sierra Army Depot
Herlong CA 96113

Directorate for Quality Assurance
ATTN: SESTE-QA
Tooele Army Depot
Tooele UT 84074

International Logistics Coordinator
ATTN: SDSTE-UAS
US Army Umatilla Depot Activity
Hermiston OR 97838

Directorate for Quality Assurance
ATTN: SDSMZ-O
Mainz Army Depot
APO NY 09185

Directorate for Quality Assurance
ATTN: SDSNZ-OR-Q
US Army Depot Activity, Ober Ramstadt
APO NY 09175

Commanding Officer
US Army Operational Test & Evaluation
Agency
Falls Church VA 22041

Commanding Officer
US Army Research Office
PO Box 11211
Research Triangle Park NC 27709

Commanding Officer
Chief of Naval Operations
ATTN: OP-941F
Washington DC 20350

Commanding Officer
Naval Research Laboratory
Code 2627
Washington DC 20375

Commanding Officer
NAVELEXSYCOM
ATTN: PME-117-22
Washington DC 20360

Commanding Officer
Naval Sea System Command
Code 06H5
Washington DC 20362

Commanding Officer
Code 03F
Crystal Plaza 6
Washington DC 20362

Commanding Officer
NAWESA, Code ESA 11
Washington Navy Yard
Washington DC 20374

Commanding Officer
NAVSEA
Code 982B1
Washington DC 20362

Commanding Officer
Naval Air Systems Command
Washington DC 20361

Commanding Officer
Naval Ship Engineering Center
Washington DC 20362

Commanding Officer
Naval Sea Systems Command
Washington DC 20362

Commanding Officer
Chief of Naval Material
ATTN: MAT 0631
Washington DC 20360

Commanding Officer
NAVELEXSYCOM
Det 108-1333
Patuxent River MD 20670

Commanding Officer
Naval Aviation Logistics Center
Naval Air Station
Patuxent River MD 20670

Commanding Officer
Naval Coastal Support Center
Crane IN 47522

Commanding Officer
David W. Taylor Naval Ship
R&D Center
Bethesda MD 20084

Commanding Officer
Naval Surface Weapons Center,
White Oak
Silver Springs MD 20910

Commanding Officer
Naval Oceanographic Laboratory
Naval Ocean R&D Activity
Bay St. Louis MS 39520

Commanding Officer
Naval Air Rework Facility
Cherry Point NC 28533

Commanding Officer
Naval Weapons Station
Colts Neck NJ 07722

Commanding Officer
Naval Air Engineering Center
Lakehurst NJ 08733

Commanding Officer
Naval Ship Engineering Center
Mechanicsburg PA 17055

Commanding Officer
Naval Ship Engineering Center
Philadelphia Division
Philadelphia PA 19112

Commanding Officer
Naval Surface Weapons Center
Dahlgren VA 22448

Commanding Officer
Naval Ship Engineering Center
Norfolk Division
Norfolk VA 23511

Commanding Officer
Naval Weapons Station
Yorktown VA 23691

Commanding Officer
Naval Undersea Warfare Engineering
Station
Keyport WA 98345

Commanding Officer
Naval Avionics Center
Library - Code 765
Indianapolis IN 46218

Commanding Officer
Naval Training Equipment Center
Technical Information Center
Orlando FL 32813

Commanding Officer
Naval Ocean System Center
Code 4473B
San Diego CA 92152

Superintendent
Naval Postgraduate School
Code 1424
Monterey CA 93940

Commanding Officer
Naval Underwater Systems Center
Code EA 151
Newport RI 02840

Commanding Officer
Air Vehicle Technology Department
Naval Air Development Center
Warminster PA 18974

Commanding Officer
Naval Fleet Analysis Center
Corona CA 91720

Commanding Officer
Naval Calibration Laboratory
PO Box 87
FPO San Francisco CA 96637

Commanding Officer
Naval Pacific Missile Test Center
Point Mugu CA 93042

Commanding Officer
Naval Ship Weapons System Engineering
Station
Port Hueneme CA 93043

Commanding Officer
Naval Air Rework Facility
NAS - North Island
San Diego CA 92135

Commanding Officer
Naval Weapons Station
Seal Beach CA 90740

Commanding Officer
Naval Underwater Systems Center
New London Laboratory
New London CT 06320

Commanding Officer
Naval Air Rework Facility
Jacksonville FL 32212

Commanding Officer
Naval Research Laboratory
PO Box 8337
Orlando FL 32806

Commanding Officer
Naval Coastal Systems Center
Panama City FL 32401

Commanding Officer
Naval Ordnance Station Standardization
Division
Code 611
Indian Head MD 20640

Office of Naval Research
Code ONR-470
Arlington VA 22217

Commandant of the Marine Corps
AVTB, MCTSSA
Camp Pendleton CA 92055

Commandant of the Marine Corps
Hq Marine Corps
Code LMO-I
Washington DC 20380

Commanding Officer
US Coast Guard
G-FQA/62
Washington DC 20590

Joint Cruise Missile Project
Ground Launch Cruise Missile Office
ATTN: JCM-G-10
Washington DC 20360

Hq USAF/LEY
Washington DC 20330

Hq USAF/LGY
The Pentagon
Washington DC 20301

Hq AFSC/DLS
Andrews AFB DC 20334

Hq AFSC/XRT
Andrews AFB DC 20334

Hq AFSC/DLW
Andrews AFB DC 20334

Hq AFSC/XRK
Andrews AFB DC 20334

Hq AFSC/DLA
Andrews AFB DC 20334

Hq AFSC/SDD
Andrews AFB DC 20334

AFOSR/XOP
Bolling AFB DC 20332

AFSC/AFO
Bolling AFB DC 20332

Hq TAC/XPS
(STINFO)
Langley AFB VA 23665

Hq TAC/DOF
Langley AFB VA 23665

Hq TAC/DOC
Langley AFB VA 23665

Hq TAC/DRC
Langley AFB VA 23665

AFSC Liason Officer
Langley Research Office (NASA)
Langley AFB VA 23665

AFIT/LSCT
Wright-Patterson AFB OH 45433

ASD/ENE
Wright-Patterson AFB OH 45433

ASD/TAM
Wright-Patterson AFB OH 45433

ASD/XMR
Wright-Patterson AFB OH 45433

ASD/XRE
Wright-Patterson AFB OH 45433

AFIT/LDE - Technical Library
Bldg. 640, Area B
Wright-Patterson AFB OH 45433

AFWAL/MLT
Wright-Patterson AFB OH 45433

ASD/AXT
Wright-Patterson AFB OH 45433

AFALD/TTX
Wright-Patterson AFB OH 45433

AFLC/LOL
Wright-Patterson AFB OH 45433

AFML/LLN
Wright-Patterson AFB OH 45433

ASD/RA
Wright-Patterson AFB OH 45433

AFALD/PT
Wright-Patterson AFB OH 45433

AFIT/SLC
Wright-Patterson AFB OH 45433

AFBRMC/RDC
Wright-Patterson AFB OH 45433

ASD/AEG
Wright-Patterson AFB OH 45433

AFLC/XR
Wright-Patterson AFB OH 45433

ESD/TOS
Hanscom AFB MA 01731

ESD/DRT
Hanscom AFB MA 01731

ESD/TOE
Hanscom AFB MA 01731

ESD/DCF
Hanscom AFB MA 01731

ESD/TOM
Hanscom AFB MA 01731

ESD/YSE
Hanscom AFB MA 01731

ESD/XR
Hanscom AFB MA 01731

ESC/XPZ
San Antonio TX 78243

AFWL/NYT
Kirtland AFB NM 87117

AFWL/SUL
ATTN: Technical Library
Kirtland AFB NM 87117

AFTEC/LGL
Kirtland AFB NM 87117

SD/AWT
PO Box 92960
Worldway Postal Center
Los Angeles CA 90009

Ballistic Missile Division
Los Angeles Air Force Station
Los Angeles CA 90009

Hq AFCC/DAP
Bldg. P-40 North, Rm 9
Scott AFB IL 62225

Hq AFCC/EPE
Scott AFB IL 62225

Commanding Officer
Air Force Civil Engineering Center
Tyndall AFB FL 32403

Commanding Officer
Warner-Robins Air Logistics Center
Robins AFB GA 31093

Commanding Officer
AF Contract Management Center
Det 18
APO NY 09406

Hq SAC/NRI
ATTN: STINFO Library
Offutt AFB NE 68113

ESMC/PM
ATTN: STINFO
Patrick AFB FL 32925

PCA/EIE
Hickam AFB HI 96853

AUL/LSE, 67-342
Maxwell AFB AL 36112

3300TTW/TTG
Keesler AFB MS 39534

AFLMC/LGX
Gunter AFB AL 36114

OC-ALC/MME
Tinker AFB OK 73145

OO-ALC/MME
Hill AFB UT 84056

SA-ALC/MME
Kelly AFB TX 78341

SM-ALC/MME
McClellan AFB CA 95652

AGMC/SNR
Newark AFS OH 43055

AFFTC/DOE
Edwards AFB CA 93523

DLA/QEL
Cameron Station
Alexandria VA 22314

AD/SDE
Eglin AFB FL 32542

NASA/Kennedy Space Center
ATTN: SD-ENG
Kennedy Space Center FL 32899

NASA, Ames Research Center
Moffett Field CA 94035

NASA
Chief, Reliability & Quality
Assurance
Washington DC 20546

NASA
LBJ Space Flight Center
Houston TX 77058

NASA, Lewis Research Center
21000 Brookpark Rd.
Cleveland OH 44125

DLA/Defense Adm. Services Region
500 S. Ervay St.
Dallas TX 75201

DOC/Federal Bureau of Standards
ATTN: NOAA-ERL Library
Boulder CO 80302

DOC/National Bureau of Standards
Washington DC 20234

DOC/NOAA
Office of Ocean Engineering
Rockville MD 20852

DOC/NOAA
NOAA Data Buoy Office
NSTL Station MS 39529

US Postal Service
Office of Postal Technology Research
11711 Parklawn Dr.
Rockville MD 20852

Hq ESC/XPZ
San Antonio TX 78243

Hq USAR/XOK
Washington DC 20330

Pentagon
USDR & E, Rm 3D-139
ATTN: TSCO
Washington DC 20301

Defense Intelligence Agency
ATTN: RSE-2
Washington DC 20301

Defense Intelligence Agency
ATTN: RSM-1
Washington DC 20301

Defense Communications Engineering Center
Code R132, Technical Library
1860 Wiehle Ave.
Reston Va 22090

Director
Defense Nuclear Agency
ATTN: TIL
Washington DC 20305

DOT/FAA Technical Center
ATTN: ARD-142
Atlantic City NJ 08405

DOT/FAA
Engineering & Manufacturing Division
Flight Standards Service
800 Independence Ave.
Washington DC 20591

Los Alamos Scientific Library
ATTN: Report Library
PO Box 1663 (MS-364)
Los Alamos NM 87545

The Rand Corporation
ATTN: Library
2100 M Street, NW
Washington DC 20037

Director
National Security Agency
ATTN: T1213/TDL
Fort Meade MD 20755

DOT/Library
10A Svs. Branch, M494.6
800 Independence Ave., SW
Washington DC 20591

Strategic Systems Project Office
Code 2014
Washington DC 20376

AF Plant Rep Ofs.
Det 9
PO Box 3707
Seattle WA 98124

Director
Defense Research & Engineering
Pentagon (Rm 2B 318)
Washington DC 20301

Office of Technological Assmt.
US Congress
Washington DC 20510

Center for Material Science
National Bureau of Standards
Washington DC 20234

APPENDIX B

GUIDE TO R/M FACILITIES

GUIDE TO R/M FACILITIES

1. Calling to follow-up on their organization's response to the survey.
2. Thank you for response.
3. Questions.

- a. Do you consider your organization to have a significant role in R&M?
IF NO, SKIP REST OF QUESTIONS. ☐ YES ☐ NO
- b. How would you best describe your function?
☐ R/M
☐ QA
☐ R/M & QA
- c. Within these areas what do you consider your primary roles?
☐ Policy Development
☐ Technique Development (R&D)
☐ Application to Acquisition Programs
☐ Testing
☐ Generation of STDS
☐ Training
- d. Do your facilities include:
☐ Labs
☐ Test Facilities
☐ Computers
- e. What type of equipment/systems does your work apply to? ☐ _____
- f. The equipment is used in which environment.
☐ Ground
☐ Airborne
☐ Space/Missile

4. Thank you for cooperation.
5. RADC will send copy of report.

APPENDIX C

GUIDE TO GOVERNMENT R/M ORGANIZATIONS

UPDATE FORM

GUIDE TO GOVERNMENT R/M ORGANIZATIONS UPDATE FORM

1. Purpose (Check One)

- ☐ Revise Current Entry
☐ Delete Complete Entry
☐ Add Entries

2. Current Entry

New or Revised Entry

_____	ORGANIZATION	_____
_____	ADDRESS	_____
_____		_____
_____		_____
_____	CHIEF	_____
_____	TELEPHONE (COMMERCIAL)	_____
_____	TELEPHONE (AUTOVON)	_____
_____	NUMBER OF PEOPLE	_____
_____	R/M FUNCTION	_____
_____	QA FUNCTION	_____
	PRIMARY ROLES	
	(check those that apply)	
_____	POLICY DEVELOPMENT	_____
_____	TECHNIQUE DEVELOPMENT	_____
_____	APPLICATION TO ACQUISITION	_____
_____	TESTING	_____
_____	GENERATION OF STANDARDS	_____
_____	TRAINING	_____
	FACILITIES	
	(check those that apply)	
_____	LABORATORIES	_____
_____	TEST FACILITIES	_____
_____	COMPUTERS	_____
_____	TYPE OF SYSTEMS	_____
	ENVIRONMENTS	
	(check those that apply)	
_____	GROUND	_____
_____	AIRBORNE	_____
_____	SPACE/MISSILE	_____
_____	SEA	_____

APPENDIX D

RELIABILITY AND MAINTAINABILITY REPORTS
OF THE
ROME AIR DEVELOPMENT CENTER
1981 - 1982

**MOST RECENT RELIABILITY AND MAINTAINABILITY REPORTS
OF THE
ROME AIR DEVELOPMENT CENTER
1981 & 1982**

These documents may be obtained by the general public from:

**National Technical Information Service
Department of Commerce
5285 Port Royal Road
Springfield VA 22151
(800) 336-4700**

U.S. Defense Contractors may obtain copies from:

**Defense Technical Information Center
Cameron Station
Alexandria VA 22314
(202) 694-6864**

When ordering documents from either agency, the AD number should be cited as well as the RADC TR number. Listings with no AD number have been printed but were not assigned an AD number at the time this listing was completed.

NOTE: This listing includes only reports available to the general public.

A. EQUIPMENT/SYSTEM RELIABILITY

RADC-TR-81-87, Burn-in: Which Environmental Stress Screens Should Be Used;

D. Karam, AD-A099207

RADC-TR-81-106, "Bayesian" Reliability Tests Made Practical; A. Coppola,

AD-A108150

RADC-TR-81-267, An Assessment of the Magnitude of Electromechanical Failures Occurring Within Air Force Command; IITRI, J. E. Short, AD-A108203

RADC-TR-81-318, Printed Wiring Assembly and Interconnection Reliability,

IITRI, D. W. Coit, AD-A111214

RADC-TR-81-329, Correlation of Field Data With Reliability Prediction Models, IITRI, K. A. Dey, AD-A111258

RADC-81-392, Methods of Measuring and Establishing Cable Tensions in Guyed Structures, W. J. Bocchi, N. E. Forlenza, AD-A112953

RADC-TR-82-068, Combined HW/SW Reliability Models, Hughes, L. E. James, et al, AD-A116566

RADC-TR-82-084, Least Cost Test Profile, IITRI, J. Steinkirchner, Vol I:

AD-A117734, Vol II: AD-A117735

RADC-TR-82-087, Stress Screening of Electronic Hardware, Hughes, A. E. Saari, R. E. Schafer, S. J. VanDenBerg, AD-A118261

RADC-TR-82-141, R/M Analysis of Electromechanical Equipments, IITRI, J. Steinkirchner, AD-A120368

RADC-TR-82-172, RADC Thermal Guide for Reliability Engineers, Hughes, G. N. Morrison, et al, AD-A118839

RADC-TR-82-177, Reliability Parts Derating Guidelines, Boeing, S. L. Brummett, et al, AD-A120367

RADC-TR-83-179, Sneak Analysis Application Guidelines, Boeing, D. L. Buratti, S. G. Godoy, AD-A118479L

B. MAINTAINABILITY/TESTABILITY

RADC-TR-81-220, Analysis of Built-in-Test False Alarm Conditions, Hughes, J. Malcolm, R. Highland, AD-A108752

RADC-TR-82-189, RADC Testability Notebook, Hughes, J. Byron, L. Deight, G. Stratton, AD-A118881L

C. DEVICE RELIABILITY

RADC-TR-81-010, Electrical Characterization of Single Chip Microprocessors and Other LSI Devices; General Electric Co., B. W. Hajduk, AD-A097897

RADC-TR-81-038, Electrical and Reliability Characterization of Schottky Power Diodes; International Rectifier, M. F. Gift, AD-A099521

RADC-TR-81-072, Electrical Characterization and Specification of Peripheral Drivers, Core Drivers, and Multiplying Drivers; General Electric, J. S. Kulpinski, AD-A102841

RADC-TR-81-125, Electrical Characterization of Microprocessors Memories; Hughes Aircraft Co. Ted Y. Fujimoto, AD-A102305

RADC-81-126, Electrical Characterization of Advanced Microprocessors; General Electric, B. W. Hajduk, AD-104170

RADC-81-180, Failure Mechanism Study of GAAS Technology; Hughes Aircraft Co., Dr. L. S. Bowma, AD-A104440

RADC-TR-81-181, Reliability Investigation of Low Noise GAAS FETs, Hughes, L. S. Bowman, W. Tarn, AD-A108396

RADC-TR-81-194, Electrical Characterization of Super Schottky, IBM, R. Lawrence, AD-A108766

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D. SOFTWARE RELIABILITY

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RADC-TR-82-135, Software Testing Measures, General Research Corp., W.
Heidler, et al, AD-A118254

RADC-TR-82-152, Algorithmic Complexity, Univ of Rhode Island, E. A.
LaMagna, et al, Vol I of II, Jun 1982, AD-A118813

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