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REPORT R-1869B

SUPPORTING STUDIES
ON
QDRI PROJECT PLAN

APPENDICES A through L
To
Report No. 2 - CONVERSION PROCEDURES FOR AUTOMATION

bу

JAMES G. PEIRCE JERRY J. SEGAL PASQUALE F. CIPRESSI

October 1967

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UNITED STATES ARMY FRANKFORD ARSENAL PHILADELPHIA, PA.

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REPORT R-1869E

SUPPORTING STUDIES
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QDRI PROJECT PLAN

APPENDICES A through L

To

Report No. 2 - CONVERSION PROCEDURES FOR AUTCMATION

Ъуг

JAMES G. PEIRCE JERRY J. SMGAL* PASQUALE F. CIPRESSI

AMCMS Code 5700.00.00201.02 DA Project 18750203M613

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AMC QDRI Program Office FRANKFORD ARSENAL Philadelphia, Pa. 19137

October 1967

^{*}System Concepts Incorporated (Contract DAAA25-67-C1061).

ABSTRACT

This report is comprised of Appendices A through L of Report R-1869A. The basic report describes the tasks and related efforts necessary to convert the present QDRI program from a clerical operation into an automated information processing system. A description of the QDRI program is presented therein whereby current operations, files, procedures, etc., are contrasted to planned functions. An implementation plan, covering in detail the detailation of the accomplished for the establishment of the QDRI Information Processing System, follows the functional description.

These appendices cover the supporting plans which describe data elements, format requirements, project staffing requirements, estimated project costs, and project schedules.

FOREWORD

Report R-1869A and its accompanying appendices, Reports ANC and R-1869C, are the result of almost three months of work by the AMC QDRI Data Files Program Action Officer with the timely assistance of the IDEEA Project Engineer and the Chief, Objectives Analysis Office (all representing Frankford Arsenal S&TI management), and the president of System Concepts Incorporated.

All aspects of the QDRI program were discussed and reviewed for the purpose of developing a comprehensive five-year plan for RODATA. This report is, therefore, a cooperative endeavor. SCI recorded the conclusions, organization, and presentation of data in a manner acceptable to all parties involved. The QDRI Program Officer gratefully acknowledges the analysis and detailed extrapolation efforts which SCI contributed to the manpower and funding data.

The report is being published in three sections. Only the main report (Frankford Arsenal Report R-1869A) and the separate section of Appendices (Report R-1869B) are being released to DDC. The third section (Report R-1869C), a collection of Research Task Summaries (DD Form 1498), will be published separately and, at least during FY's 1968 and 1969, will be circulated only within the U.S. Army Materiel Command.

The RTR's are written at the project and task area planning level, with outline work unit reports completed only where the work unit has actually become ongoing work. This collection of RTR's is a planning document and is to be consulted only for planning purposes. As future actions are taken, formally establishing the QDRI program at the project level, and work unit reporting for category 6.51 is established, these RTR's will gradually be released to the official reporting system. Currently, they do not carry official accession numbers.

This volume (Report R-1869B) contains Appendices A through L to Report R-1869A. Report R-1869C (Appendix M) will follow.

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APPENDIX A

REGISTERED ORGANIZATION DATA FILE

The Registered Organization Data File will contain the master record covering each commercial, industrial, and educational organization registered in the QDRI Program. As new participants are registered, the AMC registering installation will provide the necessary data to the data bank (RODATA) to permit the creation of master records as well as furnishing data changes to RODATA when such changes occur.

The data elements of this file are presented as follows, however, they are not necessarily presented in the order they may have within the actual data storage medium.

DATA ELEMENT	SIZE
QUALIFIED ORGANIZATION IDENTIFICATION	6 A/N Chars.
NAME OF QUALIFIED ORGANIZATION	34 A/N Chars.
NAME OF PARENT ORGANIZATION	34 A/N Chars.
STREET ADDRESS	33 A/N Chars.
CITY	19 Alpha Chars.
S'TATE	6 Alpha Chars.
ZIP CODE	6 Numeric Chars.
GEOGRAPHICAL CODE LOCATION	4 Numeric Chars.
TELEPHONE NUMBER	10 A/N Chars.
NAME OF ORGANIZATION CONTACT	20 Alpha Chars.
DATE OF EXECUTION OF POLICY AGREEMENT	6 Numeric Chars.
DATE OF LAST QUALIFICATION REVIEW	6 Numeric Chars.
TYPE OF ORGANIZATION CODE	l Alpha Char.
COR ORATIVE STATUS CODE	l Alpha Char.

DATA ELEMENT SIZE SMALL BUSINESS CODE 1 Alpha Char. l Alpha Char. SECURITY CLEARANCE CODE COGNIZANT SECURITY AGENCY CODE 5 Alpha Chars. STATUS LIST CODE 1 Alpha Char. REGISTERING INSTALLATION/AGENCY SYMBOL 5 Alpha Chars. PRIMARY QUALIFICATION COGNIZANCE 5 Alpha Chars. SECONDARY QUALIFICATION COGNIZANCE 5 Alpha Chars. ACCESSION NUMBER TO HARD COPY STORAGE CARTRIDGE NUMBER 4 Numeric Chars.

4 Numeric Chars.

FRAME NUMBER

APPENDIX B

AMC INSTALLATION/AGENCY DATA FILE

The AMC Installation/Agency Data File will contain records covering all AMC commands, installations, and agencies involved in the AMC QDRI Program. Master records will be established and maintained by the data bank (RODATA) based on data provided by the AMC activities involved. In addition, the records will contain information reported periodically to RODATA concerning briefings to industry and visits by industry which will be utilized in the preparation of reports of QDRI activity as required by AMC.

The data elements of this file are presented as follows, however, they are not necessarily presented in the order they may have within the actual data storage medium.

DATA ELEMENT	SIZE
AMC INSTALLATION/AGENCY SYMBOL	5 Alpha Chars.
AMC INSTALLATION/AGENCY IDENTIFICATION CODE	3 Numeric Chars.
AMC INSTALLATION/AGENCY NAME	40 Alpha Chars.
STREET ADDRESS	25 A/N Chars.
CITY	21 Alpha Chars.
STATE	6 Alpha Chars.
ZIP CODE	6 Numeric Chars.
NAME OF INSTALLATION/AGENCY CONTACT	20 Alpha Chars.
FUNCTIONAL AREA CODE	l Numeric Char.
FUNCTIONAL AREA RESPONSIBILITY	1 Alpha Char.
ORGANIZATIONAL TITLE	18 Alpha Chars.
ORGANIZATION SUB-SYMBOL	10 A/N Chars.
BUILDING NUMBER	5 A/N Chars.

DATA ELEMENT

SIZE

AUTOVON NUMBER	7 Numeric Chars.
TELEPHONE NUMBER (COMMERCIAL)	10 A/N Chars.
TELEPHONE EXTENSION	6 Numeric Chars.
PROGRAM ELEMENT NUMBER	12 Numeric Chars.
PROGRAM ELEMENT TITLE	56 Alpha Chars.
PROGRAM ELEMENT COORDINATOR NAME	20 Alpha Chars.
ORGANIZATION SUB-SYMBOL OF COORDINATOR	5 A/N Chars.
REPORT MONTH	2 Numeric Chars.
NUMBER OF BRIEFINGS HELD	2 Numeric Chars.
NUMBER OF ORGANIZATIONS REPRESENTED (BRIEF.)	4 Numeric Chars.
TOTAL NUMBER OF ATTENDEES	4 Numeric Chars.
NUMBER OF VISITS OCCURING	3 Numeric Chars.
NUMBER OF ORGANIZATIONS REPRESENTED (VISUTS)	4 Numeric Chars.
TOTAL NUMBER OF VISITORS	4 Numeric Chars.

APPENDIX C

FIELD OF INTEREST CATEGORIES FILE

The Field of Interest Categories File will be comprised of data elements identified by field of interest codes and titles which will identify all registered organizations and government installations/agencies associated with each particular field of interest. The primary purpose of this file is to permit ready identification of all organizations and/or installations claiming similar fields of interest, thereby providing the basis for the matching of registered organizations' qualifications to the needs and interests of the AMC installations. The file will also provide the basis for the distribution of QDRI items to properly qualified and interested organizations.

Two key data elements of this file are presented as follows, while the remainder are contained in DD Form 1630 - several sample pages of which are also presented. The data elements, however, are not necessarily presented in the order they may have within the actual data storage medium.

DATA ELEMENTS

SIZE

AMC INSTALLATION/AGENCY IDENTIFICATION CODE

3 Numeric Chars.

QUALIFIED ORGANIZATION IDENTIFICATION

6 A/N Chars.

(Several sample DD Form 1630 pages follow)

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APPENDIX D

AMC QDRI STATEMENTS FILE

The AMC QDRI Statements File will contain a record of each document (colloquially called QDRI's) which states a need of the Army in the research and development phase of the materiel cycle. Based upon the capabilities of the registered organizations as expressed by the field of interest codes maintained within RODATA, QDRI items are distributed for the purpose of seeking solutions to the problems documented therein.

A sample, completed, AMC QDRI Statemen is presented to illustrate its utilization of the Research and Technology Resume (DD Form 1498) as a hard copy source data capture document. At the present, the incorporation of text into this file will be deferred until the nature, volume, and searching procedures become more definitive.

The data elements of this file are presented as follows, however, they are not necessarily presented in the order they may have within the actual data storage medium.

DATA ELEMENTS	SIZE
QDRI ITEM NUMBER	15 A/N Chars.
QDRI ITEM TITLE	54 A/N Chars.
AGENCY ACCESSION (CODE, SERIAL NUMBER)	8 A/N Chars.
DATE OF RESUME	6 Numeric Chars.
KIND OF RESUME	l Alpha Char.
DATE OF MOST RECENT PRIOR RESUME	6 Numeric Chars.
SECURITY CLASSIFICATION	
REPORT	l Alpha Char.
WORK	l Alpha Char.
TITLE	1 Alpha Char.
CUT-OFF DATE	6 Numeric Chars.

DATA ELEMENTS

REQUESTER INQUIRY SERIAL NUMBER

SIZE

4 Numeric Chars.

REGRADING CODE	l Numeric Char.
RELEASE LIMITATIONS	6 Numeric Chars.
LEVEL OF RESUME	l Alpha Char.
PRIOR NUMBER (LOCAL NUMBER)	10 A/N Chars.
MISSION OBJECTIVE	18 A/N Chars.
OSD CODE	2 Alpha Chars.
AMC INSTALLATION/AGENCY SYMBOL	5 Alpha Chars.
NAME OF RESPONSIBLE INDIVIDUAL (QDRI)	20 Alpha Chars.
ADDRESS	25 A/N Chars.
CITY	21 Alph: Chars.
STATE	6 Alpha Chars.
ZIP CODE	6 Numeric Chars.
TELEPHONE NUMBER	10 Numeric Chars.
TELEPHONE EXTENSION	6 Numeric Chars.
TECHNOLOGY UTILIZATION	28 Alp · Chars.
KEY WORD CODE	72 Alpha Chars.
UNSOLICITED PROPOSAL IDENTIFICATION NO.	10 A/N Chars.
REQUESTER SYMBOL	10 A/N Chars.
INQUIRY CODE	3 Numeric Chars.

RESEARCH	AND TECHNOLOGY RESUME	1,	2. GOVT ACCESSION	AMC- U- 0013	REPORT CONTROL SYMBOL
4. DATE OF RESUME .	S. KINO OF RESUME	4-SECURITY	7. REGRADING	8. RELEASE LIMITATION	9. LEVEL OF HESUME
30-06-65	A New	APT WAK	N/A	OD	Q. QDRI
QW4-23801-C-53	***		SMUFA-23	DE	
(U) Weapon Not	ise Reduction				
12. SCIENTIFIC OR TECH.			13. START DATE	14. CRIT. COMPL. DATE	15. FUNDING AGENCY
Ordnance, Ammu	_		N/A	N/A	N/A
18. PROCURE, METHOD	17. CONTRACT/GRANT & D	ATE	18. RESOURCES EST.	PROFESSIONAL MAN-YEARS	b. FUNDS (In thiresends)
N/A	s. number N/A	MQUNT	PRIOR PY N/A	N/A	N/A
IS GOV'T LAB, INSTALLAT	<u> </u>		20. PERFORMING ORGAN	IZATION	
Frankford	4 Areanel		HAME		
	& Engr Labs SMUFA-	.18100	ADDRESS		
	phia, Pennsylvania			N/A	
•		-,,	INVESTIGATORS	Marian Marian	
RESP. MOIV. Fulton,			ASSOCIATE		
	900 X 6245		TEL.		TYPE
21. TECHNOLOGY UTILIZA	TION	- '	22. COORDINATION	/>	
23. KEYWOROS				·	
Weapons, Ammur	nition, Interior Ba	llistics, Noi	se Reduction		
24.	There is a need		And the second		
would not affer reliability of	To develop a devinent the velocity, ref weapon operation.	ange or accur Such weapon	acy of the pro device should	ojectile fired of consider the f	r reduce the
weapons product be injurious t	i: The discharge of the blast waves whice to the user or othe ause permanent ear ectiveness.	h not only "s rs located ne	pot" the weap arby. Repeat	on location but ed impact noises	may actually greater than
(U) <u>Background</u> weapons produce be injurious to 140 dbs can can soldier's effe	te blast waves whice to the user or othe ause permanent ear ectiveness.	h not only "s rs located ne	poti the weap arby. Repeat en temporary of 29.050 COOK N/A	on location but ed impact noises	may actually greater than duce a
(U) Background weapons product be injurious t 140 dbs can ca soldier's effe	te blast waves whice to the user or othe ause permanent ear ectiveness.	h not only "s rs located ne damage and ev	poti the weaps arby. Repeats en temporary of 28. 050 CODE N/A	on location but ed impact noises deafness will re	may actually greater than duce a
(U) Background weapons product be injurious t 140 dbs can ca soldier's effe	te blast waves whice to the user or othe ause permanent ear ectiveness.	h not only "s rs located ne damage and ev	poti the weap arby. Repeat en temporary of 29.050 COOK N/A	on location but ed impact noises deafness will re	may actually greater than duce a
(U) Background weapons product be injurious t 140 dbs can ca soldier's effe 27. COMMUNICATIONS SEC a COMMEC OR 31. MISSION OBJECTIVE 2128 33. REQUESTING AGENCY	te blast waves whice to the user or othe ause permanent ear ectiveness.	h not only "s rs located ne damage and ev N/A	poti the weaps arby. Repeats en temporary of 28. 050 CODE N/A	on location but ed impact noises deafness will re	may actually greater than duce a
(U) Background weapons product be injurious t 140 dbs can ca soldier's effe	te blast waves whice to the user or othe suse permanent ear ectiveness.	h not only "s rs located ne damage and ev	poti the weaps arby. Repeats en temporary of 28. 050 CODE N/A	on location but ed impact noises deafness will re	may actually greater than duce a
(U) Background weapons product be injurious t 140 dbs can ca soldier's effe 27. COMMUNICATIONS SEC	The blast waves whice to the user or othe suse permanent ear ectiveness. TORITY 28. M. SPECIAL EQU. M. SPECI	h not only "s rs located ne damage and ev N/A	poti the weaps arby. Repeats en temporary of 28. 050 CODE N/A	on location but ed impact noises deafness will re	may actually greater than duce a

APPENDIX E

UNSOLICITED PROPOSALS FILE

The Unsolicited Proposals File will contain information on all research and development proposals submitted by organizations or individuals both in response to the release of a QDRI item or independent of such release. This file will maintain the history of the proposal with regard to evaluation, acceptance or rejection, programming, funding, and ultimate execution of the contractual agreement by the Army.

The data elements of this file are presented as follows, however, they are not necessarily presented in the order they may have in the actual data storage medium.

DATA ELEMENTS	SIZE
PROPOSAL IDENTIFICATION NUMBER	10 Numeric Chars.
PROPOSAL REVISION NUMBER	2 Numeric Chars.
DATE OF PROPOSAL	6 Numeric Chars.
TITLE OF PROPOSAL	60 Alpha Chars.
NAME OF SUBMITTING ORGANIZATION	34 A/N Chars.
STREET ADDRESS	33 A/N Chars.
CITY	19 Alpha Chars.
STATE	6 Alpha Chars.
ZIP CODE	6 Numeric Chars.
TELEPHONE NUMBER	10 A/N Chars.
NAME OF ORGANIZATION CONTACT	20 Alpha Chars.
SUBMISSION DATE	6 Numeric Chars.
CUT-OFF DATE	6 Numeric Chars.

DATA ELEMENTS

SIZE

AMC INSTALLATION/AGENCY RECEIVING PROPOSAL	5 Alpha Chars.
PROPONENT IDENTIFICATION NUMBER	6 A/N Chars.
RELATED QDRI ITEM NUMBER (OR ASSIGNED	
PROGRAM NUMBER OF PROPOSAL IF NOT	
IN RESPONSE TO QDRI ITEM)	15 A/N Chars.
KEY WORDS	120 A/N Chars.
MEMO OF UNDERSTANDING	l Numeric Char.
DATE OF MEMO OF UNDERSTANDING	6 Numeric Chars.
DISTRIBUTION FOR EVALUATION	150 Alpha Chars.
EVALUATION RESULTS	
FAVORABLE	l Alpha Char.
REJECTED	l Alpha Char.
FUNDING/PROGRAM ELEMENT	6 A/N Chars.
CONTRACT NUMBER	12 A/N Chars.
CONTRACT DATE	6 Numeric Chars.
CONTRACT PRICE	7 Numeric Chars.

APPENDIX F

INDUSTRY LISTS

This group of output reports, evloving a and Industry Lists, provides a comprehensive listing of all egistered organizations in the QDRI Program. Variations in the output data elements can provide mailing lists - in the form of labels - either of the entire file of registered organizations or selected ones, for use by the various QDRI Offices. These mailing lists can be used for the distribution of pertinent QDRI Statements to registered organizations; for dissemination of information to selected organizations; for distribution of invitations for industry briefings to qualified organizations, etc.

The various outputs are the results of a basic matching of registered organizations capabilities and interests to Army needs. This will provide QDRI Offices with a rapid and economical means for setting-up useful briefings, directing industry visitors to properly related technical areas, etc.

A segment of a mailing list is presented as an example of the outputs related to industry lists. The mailing list features one registered organization which is then further reflected in additional samples of industry lists. One such example is a portion of the entire listing of the registered organizations, and the other is a listing of the fields of interest selected by the particular organization in the sample.

Shown below are several address labels taken from a mailing list which has been prepared as one of the typical outputs from the Industry List.

127C5

ELECTRO-OPTICAL SYSTEMS INC 300 NORTH HALSTEAD PASADENA CALIF 91107 ATTN & CONN

12813 MAGNAVCX CO MAGNAVCX RESEARCH LABS 2829 MARICCPA ST TORRANCE CALIF 90503 ATTN F BURMAN

12949 CLRTISS-WRIGHT CCRP
REDEL INC
2300 EAST KATELLA AVE
ANAHEIM CALIF 92803
ATTN W DE DAPPER

13126

MARSHALL LABORATORIES
3530 TORRANCE BOLLEVARU
TORRANCE CALIF 90503
ATTN R V A BABITS

13326 LING TEMCC VOUGHT INC LTV RESEARCH CENTER WESTERN DIV 1859 S MANCHESTER AVENUE ANAHEIM CALIF 92803 ATTN A BRIGGS Shown below is a sample of a portion of the comprehensive listing of the registered organizations. This particular list is sequenced by the registered organization identification number. Also shown, in addition to other data are the AMC Installations/Agencies where the organization is registered. The sample presented herein has been vertically compressed in order to show all of the data elements utilized in the list.

12780	RESEARCH COTTRELL INC PO BOX 750 A C WIEGAND SMUFA	BOUND BROOK NJ 3562600 SMUPA C I	0880528 AMXNY	A2 B C D 3 D 5
12813	MAGNAVOX RESEARCH LABS 2829 MARICOPA ST H S BROWN SMUFA	TORRANCE CALIF 2133280770 SMUPA	9050304 AMXLAAMXSP OP	A B 3 C3 D 3 D52
12855	TRAK MICROWAVE CORP 5006 N COOLIDGE AVE QDRI MANAGER AMXDO	TAMPA FLOR	3361408 AMXBI	A B C D12
12949	REDEL INC 2300 EAST KATELLA AVE J W DE DAPPER SMUFA	7145322586113066 SMUPA	9280304	A B C D13 D 5
12963	PROPELLENTS DIVISION BOX 1000 R H OSSYRA	AMOCO CHEMICALS COSEYMOUR IND	ORP 4727412	A3 E C D13

Shown below is a sample of a portion of the comprehensive listing of the Fields of Interest of the registered organizations. This particular list is also sequenced by the registered organization identification number and then further sequenced by the sequential numbering within the data elements of the DD Form 1630. In the particular sample shown there is no breakdown below the SECTION level of the fields of interest. This particular sample represents the fields of interest chosen by the registered organization highlighted in the previous samples, however, it is based on DD Form 558-2.

	(DRI	PARTIC	CIPANT F.).I.		PAGE	801
ORGN.NO.	DIV.	SEC.	UNIT	SUB.U.	SOI	DST		
12813	01				вс	AB		
12813	01	01			ВС	AB		
12813	05				BCD	AB		
12813	05	01			BCD	AB		
12813	05	02			BCD	AB		
12813	05	03			BCD	AB		
12813	05	04			BCD	AB		
12813	05	05			BCD	AB		
12813	05	06			BCD	AB		
12813	06				ВС	AB		
12813	06	01			BC	AB		
12813	06	02			ВС	AB		
12813	06	04			BC	AB		
12813	06	05			ВС	AB		
12813	ÛĞ	06			ВС	AB		
12813	06	09			ВС	AB		
12813	06	10			BC	AB		

ODDDT	PARTICIPANT	FOI	PAGE	802
OKDKI	PARTICIPANT	r.O.I.	E P (34)	002

ORGN.NO.	DIV.	SEC.	UNIT	SUB.U.	SOI	DST
12813	06	11			вс	AB
12813	06	12			FC	AB
12813	07				BC	AB
12813	07	02			ВС	AB
12813	08				BC	AB
12813	08	01			BC	AB
12813	08	02			ВС	AB
12813	08	04			вс	ΑB
12813	8 0	05			ВС	AB
12813	08	06			ВС	AB
12813	08	07			BC	AB
12813	08	0.8			BC	AB
12813	08	09			BC	AB
12813	08	12			вс	AB
12813	12				ВС	AB
12813	12	02			BC	AB
12813	12	05			BC	AB
12813	15				ABC	AB
12813	18				вс	AB
12813	18	ŌΪ			BC	AB
12813	18	02			вс	AB
12813	18	03			BC	AB
12813	19				BC	AB

APPENDIX G

QDRI STATEMENTS

This report, which in actuality may also be called a document, is generated periodically by the scientific and technical staffs of the AMC installations/arencies under the coordination of the QDRI Offices. The result of this activity is the creation of a document containing QDRI Statements for each AMC installation/agency. These QDRI's are then selectively made available to registered organizations based on the QDRI Information Processing System's matching of capabilities and interests to the Army's needs as stated on the QDRIs.

As previously mentioned in APPENDIX D, the format utilized for the presentation of the QDRI Statements is based on the Research and Technology Resume - DD Form 1498. The QDRI Information Processing System utilizes this form in a dual capacity - as a source data capture form and as an output document. A partial collection of the QDRI Statements of Frankford Arsenal is presented as an example of this output document.

Format requirements for QDRI Statements are published in Annex 7, QDRI Volume I, QDRI Manager's Guide.

	TECHNOLOGY RESUME	1.		AMC - 11, 0000	1
A DATE OF RESUME 5. P	CIND OF RESUME	6. SECURITY	7. REGRADING	AMC= U= 0009	9. LEVEL OF RESUME
30-06-65	A New	U U	N/A	OD	Q. QDRI
OF CURRENT NUMBER/CODE		1,	100. PRIOR NUMBER/CO		1 V. VOKI
QW4-23801-C-533			SMIFA-3		
II, TITLE:					
(U) Timing Mecha	nism for Missile Fuzi	ing and P	rogramming		
2. SCIENTIFIC OR TECH. ARE	^		13. START DATE	14. CRIT. COMPL. DATE	15. FUNDING AGENCY
Missile Warheads			N/A	N/A	N/A
6. PROCURE, METHOD 17.	CONTRACT/GRANT DATE		19. RESGURCES EST.	PROPESSIONAL MAN-YEARS	F. FUNDS (In thousands)
N/A	N/A		PRIOR PY N/A	N/A	
	TYPE & AMOUNT		CURRENT FY		ļ
19. GOV'T LAB/INSTALLATION	ACTIVITY	<u> </u>	20. PERFCRHING ORGA	ILZATION	
HAME Frankford A			NAME	٠,	
ADDRESS SMUFA- J6100			ADDRESS	AT /A	
Philadelphi	a, Pennsylvania 1913	37		N/A	
Nahua alad	B D		PRINCIPAL		
нвэр. іноіу. Nabreski, тв.: 215 535-2900			ASSOCIATE	Section of the sectio	
TEL. ZID DODE ZYUU 21. TECHNOLOGY UTILIZATIO			22 COORDINATION		TYPE
	Industry, Instrumenta	ation	X XX		
23. KEYWORDS	Lucisery, Inscruments	BETOIL			
Fuzes Arming De	vices, Programmers, I	 Fecanomon			
24.	vices, riogrammers, r	oscapene.			
(U) Objective:	Special problems are	encounte	red in timing	mechanisms empl	oved in
	iles. The device mus				
	nment and during sus				
	n may be present and				
	ng loads and reducting				· · · · · · · · · · · · · · · · · · ·
25.					
(U) Approach: A	n analysis of reliabi	ility, in	cluding mather	natical models i	s required
to obtain optimu	m combinations of war	riables t	o eliminate ti	he effects of to	lerance,
	ure, vibration, shock				
A new system is			· · · · · · · · · · · · · · · · · · ·	•	reliability.
•	G. Carlotte				reliability.
		••			reliability.
		. '			reliability.
		·			reliability.
	63	r.			reliability.
26.		r.			reliability.
e. (U) <u>Background</u> :	N.A.	vi			reliability.
_	N.A.				reliability.
_	N.A.	·			reliability.
_	N.A.	·			reliability.
_	N.A.				reliability.
æ (U) <u>Background</u> :	N.A.				reliability.
_	N.A.				reliability.
_	N.A.				reliability.
(U) Background:	in and the second secon		28 OSO COOK	, XC B-C-0-2.	
(U) Background:	in and the second secon	·	N/A	: 10 B-C-02*	
TO COMMUNICATIONS SECURITY COMMUNICATIONS SECURITY COMMUNICATION SEC	TY 20 N /A			: 30 B-0052*	5052
ET COMMUNICATIONS SECURITION COMMUNICATION SECURITION COMMUNICATION SECURITION COMMUNICATION SECURITION SECURITION SECURITIES SECURI	TY 20 N /A		N/A	1263C4 CK	5052
ET COMMINICATIONS SECURITIONS CONSECURITION OF THE PROPERTY OF	TY 20 N /A		N/A	: 20 Bucage	5052
(U) Background: A COMMINICATIONS SECURITY OF COMMET NECESTRE AT A COMMET NECESTRE IT MISSION CONFECTIVE 412b (1) 32 REQUESTING AGENCY N/A	NOT NO N/A		N/A	; 30 ±0532;	5052
AT COMMINICATIONS SECURITY OF COMMERCIAN A C	N/A NOT N/A ABLATED N/A SA SPECIAL EQUIPMENT		N/A	: X	5052
ET COMMINICATIONS SECURITY A COMMENT OF THE COMMENT	N/A NOT N/A ABLATED N/A SA SPECIAL EQUIPMENT		N/A	: 20 = 0.002°	5052

GPG 778934 #		Τ.	Z. GOVT ACCESSION	3. AGENCY ACCESSION	REPORT CONTROL ACTION
RESEARCH .	AND TECHNOLOGY RESUME	1.	l sour Addession	AMC-U-0010	
4 DATE OF HESUME	S. KIND OF HESUME	6. SECURITY	7. REGRADING	8. RELEASE LIMITATION	S. LEVEL OF MISSING
30-06-65	A New	U U	N/A	OD	Q. QDRI
104. CURPENT NUMBER/C	ορε		10% PRIOR NUMBER/CO	DE	
QW4 - 23801-C-	-534		SMUFA-4		
II. TITLE:					
	chanism for High Spin Ap	plicatio	n		
12. SCIENTIFIC OR TECH.			13. START DATE	14. CRIT. COMPL. DATE	15. FUNDING AGENCY
	xplosives and Pyrotechni	lcs	N/A	N/A PROFESSIONAL	N/A
16. PROCURE, METHOD	17. CONTRACT/GRANT & DATE		18. RESOURCES EST.	MAN-YEARS	h. FUNDS (In thousands)
N/A	P. NUMBER N/A		PRIOR FY N/A	N/A	N/A
19. GOV'T LAB/INSTALLA	c. TYPE d. AMOUNT		CURRENT FY	NIZATION	1
		<u> </u>	-		
1	d Arsenal		NAME		
SMUFA- J6			ADDRESS	AT ŽA	
Philadel	phia, Pennsylvania 1913	37	INVESTIGATORS	P+1.H	
RESP. INDIV. Nabresi	kri. B.D.		PRINCIPAL		
	- 2900 X 3202		TEL	**************************************	TYPE
21. TECHNOLOGY UTILIZA			22. COORDINATION		
Clock and Wate	ch Industry, Instrumenta	ition		المرجعين المتحارب	
23. KEYWOROS			****		
Fuze, Escapemo	ents, Gear Trains, Delay	Mechani	sms. Programm	ers	
24. (U) Objectiv	ve: Special problems as	re encoun	tered in timi	ng mechanisms en	nployed in
spin stabilize	ed projectiles. Current	trends	in gun design	indicate that s	pins of
approximately	40,000 rpm will be impo	sed upon	artillery fu	zes in the immed	liate future.
The centrifug	al forces generated at t	hese hig	h spins magni	fy the problems	of bearing
loads, power	supply efficiency, outpi	it loadin	ig and escapem	ent accuracy. I	The majority
	lems are further complic				t constant
	projectile flight and fl				
			J		
(U) Approach	h: An analysis of relia	bility,	including mat	hematical models	, is required
	imum combination of yar				
	rature, vibration, shoc.				
A new system		· /			,
	A Committee of the Comm				
26.	The annual control of				
(U) Backgrou	und: N.A.				
	······································				
			29. 050- CODE		
27 COMMUNICATIONS SEC				BO BUDGE	
	X MELATED N/A		N/A		N/A
31 MSS-ON CHIECTIVE					
412b (1)			N/A		
33 REQUESTING AGENCY					
N/A	N/A				
	:				
.,, N/A	N/A	II	Constant a		
DD .222 1498	(Neighb 1 an an annual an ann an a gaile (197	\$19C Smit'm 981	0000111		

00 17000 t ft						
RESEARCH	AND TECHNOL	OGY RESUME	1.	2. GOVT ACCESSION	3. AGENCY ACCESSION	RI PORT CONTROL SYND
S. DATE OF RESUME	S. KIND OF RE	SUME	6-FECURITY	7. REGRADING	. RELEASE LIMITATION	9. LEVEL OF RESUME
16-03-67	A Ne	W	net was	N/A	OD	Q. QDRI
On CURRENT NUMBER/C	00 E			100. PRIOR NUMBER/COD	1	1 1 12.12
QC4-24401-C-	034			SMUFA-30		
I. TITLE				• • • • • • • • • • • • • • • • • • • •		
(U) Improved N	aterials	for Escapemen	nt Springs	I		
. SCIENTIFIC OR TECH.				13. START DATE	14. CRIT. COMPL. DATE	IS. FUNDING AGENCY
Ammunition, Ex	plosives	and Pyrotechi	nics	N/A	N/A	N/A I
. PROCURE METHOD	17. CONTRACT			16. RESOURCES EST.	PROFESSIONAL	b. FUNOS lie thousands
21./4	A. HUMBER			PRIOR PY N/A	MAN-YEARS N/A	N/A
N/A	•	N/A	•	CURRENT PY	11/15	N/A
GOV'T LABINATALLA	HON/ACTIVITY		<u> </u>	20. PERFORMING ORGANI	ZATION	
Prankford	Argonal			HAME	<u> </u>	
OOMEN SMUFA- JO				ADDRESA	A.	
		nneuluenia 1	0137		N. ST. V.A.	
LUTY#G61	hura, te	nnsylvania l	713/	INVESTIGATORS	N/A	
Wake				PRINCIPAL	all and the second	
	ki, B.D.	02		ASSOCIATE	And the state of t	
EL 215 535-29		UZ		ZZ. COORDINATION		TYPE
		.			Alter	
Clock and Wate	n Indust	ry, Instrument	racion		- Art	
				The state of the s	- Libra	
fuze, Escapeme	nts			The second second		
(U) <u>Objective:</u> est possible fodulus of Ela	compromisticity	se): Tensile - 25,000,000 ₁	Strength psi; Therm	- 350,000 psi;	arget properiti Yield Point - us (absolute va	250,000 psi;
^{M.} (U) <u>Objective:</u> best possible	compromisticity	se): Tensile - 25,000,000 ₁	Strength psi; Therm	- 350,000 psi;	Yield Point -	250,000 psi;
M. (U) Objective: best possible Modulus of Ela minus 6/OF; De	comprominaticity on sity -	se): Tensile - 25,000,000 ¡ .4 lbs/cu. in	Strength psi; Therm	- 350,000 psi; melastic Modul	Yield Point - us (absolute va	250,000 psi; lue) - 40 X 1
(U) Objective: best possible Modulus of Ela minus 6/OF; De s (U) Approach:	compromisesticity ensity -	se): Tensile - 25,000,000 p .4 lbs/cu. in esearch effort	Strength psi; Therm ts into ie	- 350,000 psi; melastic Modul rrous and non-	Yield Point - us (absolute vs ferrous metalur	250,000 psi; lue) - 40 X
(U) Objective: best possible Modulus of Els minus 6/OF; De s (U) Approach:	compromisesticity ensity -	se): Tensile - 25,000,000 p .4 lbs/cu. in esearch effort	Strength psi; Therm ts into ie	- 350,000 psi; melastic Modul rrous and non-	Yield Point - us (absolute va	250,000 psi; lue) - 40 X
(U) Objective: best possible Modulus of Els minus 6/OF; De	compromisesticity ensity -	se): Tensile - 25,000,000 p .4 lbs/cu. in esearch effort	Strength psi; Therm ts into ie	- 350,000 psi; melastic Modul rrous and non-	Yield Point - us (absolute vs ferrous metalur	250,000 psi; lue) - 40 X
(U) Objective: best possible Modulus of Ela minus 6/OF; De s (U) Approach:	compromisesticity ensity -	se): Tensile - 25,000,000 p .4 lbs/cu. in esearch effort	Strength psi; Therm ts into ie	- 350,000 psi; melastic Modul rrous and non-	Yield Point - us (absolute vs ferrous metalur	250,000 psi; lue) - 40 X 1
(U) Objective: best possible Modulus of Els minus 6/OF; De s (U) Approach:	compromisesticity ensity -	se): Tensile - 25,000,000 p .4 lbs/cu. in esearch effort	Strength psi; Therm ts into ie	- 350,000 psi; melastic Modul rrous and non-	Yield Point - us (absolute vs ferrous metalur	250,000 psi; lue) - 40 X 1
(U) Objective: best possible Modulus of Els minus 6/OF; De s (U) Approach:	compromisesticity ensity -	se): Tensile - 25,000,000 p .4 lbs/cu. in esearch effort	Strength psi; Therm ts into ie	- 350,000 psi; melastic Modul rrous and non-	Yield Point - us (absolute vs ferrous metalur	250,000 psi; lue) - 40 X 1
(U) Objective: best possible Modulus of Els minus 6/OF; De	compromisesticity ensity -	se): Tensile - 25,000,000 p .4 lbs/cu. in esearch effort	Strength psi; Therm ts into ie	- 350,000 psi; melastic Modul rrous and non-	Yield Point - us (absolute vs ferrous metalur	250,000 psi; lue) - 40 X
(U) Objective: best possible Modulus of Els minus 6/OF; De s (U) Approach: an alloy which	compromisesticity ensity -	se): Tensile - 25,000,000 p .4 lbs/cu. in esearch effort	Strength psi; Therm ts into ie	- 350,000 psi; melastic Modul rrous and non-	Yield Point - us (absolute vs ferrous metalur	250,000 psi; lue) - 40 X 1
(U) Objective: best possible Modulus of Ela minus 6/OF; De (U) Approach: an alloy which	compromination in the street of the street o	se): Tensile - 25,000,000 .4 lbs/cu. in esearch effort tisfy the phys	Strength psi; Therm ts into le sical prop	- 350,000 psi; melastic Modul rrous and non- erties cited i	Yield Point - us (absolute va ferrous metalur n the Objective	250,000 psi; lue) - 40 X l
(U) Objective: best possible Modulus of Ela minus 6/°F; De (U) Approach: an alloy which (U) Background	compromination in the street of the street o	se): Tensile - 25,000,000 .4 lbs/cu. in esearch effort tisfy the phys	Strength psi; Therm ts into he sical prop	- 350,000 psi; melastic Modul rrous and non- erties cited i	Yield Point - us (absolute va ferrous metalur n the Objective	250,000 psi; lue) - 40 X l
(U) Objective: best possible Modulus of Ela minus 6/°F; De (U) Approach: an alloy which (U) Background should have hi	compromisticity ensity - Basic rewill satisfies the idea of the i	se): Tensile - 25,000,000 .4 lbs/cu. in esearch effort tisfy the phys desI encapement gth, low there	Strength psi; Therm ts into he sical prop	- 350,000 psi; melastic Modul rrous and non- erties cited i material for a modulus, high	Yield Point - us (absolute va ferrous metalur n the Objective rtillery fuze m modulus of elas	250,000 psi; lue) - 40 X 1 gy to develop ovements ticity, and
(U) Objective: best possible Modulus of Ela minus 6/°F; De (U) Approach: an alloy which (U) Background should have hi	Basic rewill said strength to the density -	se): Tensile - 25,000,000 .4 lbs/cu. in esearch effort tisfy the phys desl escapemen gth, low therm y. Materials	Strength psi; Therm ts into he sical prop nt spring noelastic currently	- 350,000 psi; melastic Modul rrous and non- erties cited i material for a modulus, high used have onl	Yield Point - us (absolute va ferrous metalur n the Objective rtillery fuze m modulus of elas y moderate stre	250,000 psi; lue) - 40 X
M. (U) Objective: best possible Modulus of Ela minus 6/°F; De (U) Approach: an alloy which (U) Background should have hi low to moderat strength alloy	Basic rewill said strength to the density -	se): Tensile - 25,000,000 p .4 lbs/cu. in esearch effort tisfy the phys dest encapement gth, low there y. Materials ailable with m	Strength psi; Therm ts into he sical prop nt spring noelastic currently noderately	- 350,000 psi; melastic Modul rrous and non- erties cited i modulus, high used have onl	Yield Point - us (absolute va ferrous metalur n the Objective rtillery fuze m modulus of elas y moderate stre stic moduli, di	250,000 psi; lue) - 40 X 1 gy to develop ovements ticity, and ngth. 1f hig fferent sprin
a. (U) Objective: best possible Modulus of Ela minus 6/°F; De (U) Approach: an alloy which should have hi low to moderat strength alloy configuration	Basic rewill said strength will said strength were available to the second strength were available to the second strength were available to the second strength stren	se): Tensile - 25,000,000 p .4 lbs/cu. in esearch effort tisfy the phys deal eacapemer gth, low there y. Materials ailable with m lly the round	Strength psi; Therm ts into de sical prop no elastic currently noderately cross-sec	- 350,000 psi; melastic Modul rrous and non- erties cited i modulus, high used have onl low thermoela tion) could re	Yield Point - us (absolute va ferrous metalur n the Objective rtillery fuze m modulus of elas y moderate stre stic moduli, di adily be utiliz	250,000 psi; lue) - 40 X gy to develop ovements ticity, and ngth. 1f hig fferent sprin
Dest possible to the possible	Basic rewill said strength will said strength were available to the second strength were available to the second strength were available to the second strength stren	se): Tensile - 25,000,000 p .4 lbs/cu. in esearch effort tisfy the phys deal eacapemer gth, low there y. Materials ailable with m lly the round	Strength psi; Therm ts into de sical prop no elastic currently noderately cross-sec	- 350,000 psi; melastic Modul rrous and non- erties cited i modulus, high used have onl	Yield Point - us (absolute va ferrous metalur n the Objective rtillery fuze m modulus of elas y moderate stre stic moduli, di adily be utiliz	250,000 psi; lue) - 40 X
Dest possible to the possible	Basic rewill said strength will said strength were available to the second strength were available to the second strength were available to the second strength stren	se): Tensile - 25,000,000 p .4 lbs/cu. in esearch effort tisfy the phys deal eacapemer gth, low there y. Materials ailable with m lly the round	Strength psi; Therm ts into de sical prop no elastic currently noderately cross-sec	- 350,000 psi; melastic Modul rrous and non- erties cited i modulus, high used have onl low thermoela tion) could re	Yield Point - us (absolute va ferrous metalur n the Objective rtillery fuze m modulus of elas y moderate stre stic moduli, di adily be utiliz	250,000 psi; lue) - 40 X
Dest possible to the possible	Basic rewill said strength will said strength were available to the second strength were available to the second strength were available to the second strength stren	se): Tensile - 25,000,000 p .4 lbs/cu. in esearch effort tisfy the phys deal eacapemer gth, low there y. Materials ailable with m lly the round	Strength psi; Therm ts into de sical prop no elastic currently noderately cross-sec	- 350,000 psi; melastic Modul rrous and non- erties cited i modulus, high used have onl low thermoela tion) could re	Yield Point - us (absolute va ferrous metalur n the Objective rtillery fuze m modulus of elas y moderate stre stic moduli, di adily be utiliz	250,000 psi; lue) - 40 X l gy to develor ovements ticity, and ngth. 1f hig fferent sprin
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(U) Objective: Dest possible fodulus of Ela finus 6/°F; De folius 6/°F; De fol	compromination of the strength	se): Tensile - 25,000,000 .4 lbs/cu. in esearch effort tisfy the phys deal eacapemer gth, Tow there y. Materials ailable with m lly the round n sensitivity	Strength psi; Therm ts into de sical prop no elastic currently noderately cross-sec	material for a modulus, high used have onl low thermoela tion) could reemperature sen	Yield Point - us (absolute va ferrous metalur n the Objective modulus of elas y moderate stre stic moduli, di adily be utiliz sitivity.	250,000 psi; lue) - 40 X l gy to develop ovements ticity, and ngth. 1f hig fferent sprin ed to give
Descriptions (U) Objective: Dest possible fodulus of Ela finus 6/OF; De (U) Approach: In alloy which thould have his fow to moderate frength alloy configuration for the communications with	compromination of the strength	se): Tensile - 25,000,000 .4 lbs/cu. in esearch effort tisfy the phys deal eacapemen gth, Tow therm y. Materials ailable with m lly the round n sensitivity	Strength psi; Therm ts into de sical prop no elastic currently noderately cross-sec	material for a modulus, high used have onl low thermoelation) could reemperature sen	Yield Point - us (absolute va ferrous metalur n the Objective modulus of elas y moderate stre stic moduli, di adily be utiliz sitivity.	ovements ticity, and ngth. 1f hig fferent sprin ed to give
Descrive: Dest possible fodulus of Ela finus 6/°F; De (U) Approach: In alloy which whould have hi fow to moderat for trength alloy configuration for the communications see	compromination of the strength	se): Tensile - 25,000,000 .4 lbs/cu. in esearch effort tisfy the phys deal eacapemen gth, Tow therm y. Materials ailable with m lly the round n sensitivity	Strength psi; Therm ts into de sical prop no elastic currently noderately cross-sec	material for a modulus, high used have only low thermoelation) could reemperature sen	Yield Point - us (absolute va ferrous metalur n the Objective modulus of elas y moderate stre stic moduli, di adily be utiliz sitivity.	250,000 psi; lue) - 40 X l gy to develop ovements ticity, and ngth. 1f hig fferent sprin ed to give
E. (U) Objective: Dest possible Modulus of Ela minus 6/OF; De (U) Approach: An alloy which Should have his Low to moderate Strength alloy Configuration MOVEMENTS WITH	compromination of the strength	se): Tensile - 25,000,000 .4 lbs/cu. in esearch effort tisfy the phys deal eacapemen gth, Tow therm y. Materials ailable with m lly the round n sensitivity	strength psi; Therm ts into ne sical prop noelastic currently noderstely cross-sec and low t	material for a modulus, high used have onl low thermoelation) could reemperature sen	Yield Point - us (absolute va ferrous metalur n the Objective modulus of elas y moderate stre stic moduli, di adily be utiliz sitivity.	250,000 psi; lue) - 40 X l gy to develop ovements ticity, and ngth. 1f hig fferent sprin ed to give
Dest possible possible possible possible possible possible podulus of Elaminus 6/°F; Dest possible podulus of Elaminus 6/°F; Dest possible	compromination of the strength	se): Tensile - 25,000,000 .4 lbs/cu. in esearch effort tisfy the shys tisfy the shys Materials ailable with m lly the round n sensitivity	strength psi; Therm ts into ne sical prop noelastic currently noderstely cross-sec and low t	material for a modulus, high used have only low thermoelation) could reemperature sen	Yield Point - us (absolute va ferrous metalur n the Objective modulus of elas y moderate stre stic moduli, di adily be utiliz sitivity.	250,000 psi; lue) - 40 X l gy to develop ovements ticity, and ngth. 1f hig fferent sprin ed to give
a. (U) Objective: Dest possible Modulus of Ela minus 6/OF; De (U) Approach: An alloy which Should have his low to moderate strength alloy configuration movements with 7. COMMUNICATIONS SEC - COMMUNICATIONS SEC	Basic results and the second s	se): Tensile - 25,000,000 .4 lbs/cu. in esearch effort tisfy the shys tisfy the shys Materials ailable with m lly the round n sensitivity	strength psi; Therm ts into ne sical prop noelastic currently noderstely cross-sec and low t	material for a modulus, high used have only low thermoelation) could reemperature sen	Yield Point - us (absolute va ferrous metalur n the Objective modulus of elas y moderate stre stic moduli, di adily be utiliz sitivity.	250,000 psi; lue) - 40 X l gy to develop ovements ticity, and ngth. 1f hig fferent sprin ed to give
a. (U) Objective: best possible Modulus of Ela minus 6/°F; De (U) Approach: an alloy which (U) Background should have hi low to moderat strength alloy configuration movements with 7. COMMUNICATIONS SEC - COMMENTATIONS SEC	Basic results and the second s	se): Tensile - 25,000,000 .4 lbs/cu. in esearch effort tisfy the shys tisfy the shys Materials ailable with so lly the round n sensitivity M. Materials A. N/A	strength psi; Therm ts into ne sical prop noelastic currently noderstely cross-sec and low t	material for a modulus, high used have only low thermoelation) could reemperature sen	Yield Point - us (absolute va ferrous metalur n the Objective modulus of elas y moderate stre stic moduli, di adily be utiliz sitivity.	250,000 psi; lue) - 40 X l gy to develop ovements ticity, and ngth. 1f hig fferent sprin ed to give

				3. AGENCY ACCESSION	HEPONT CONTHUC SYN
RESEARCH AN	ID TECHNOLOGY RESUME	1.	Z. GOVT ACCESSION	J. HOEREY HECESSION	
DATE OF RESUME 5	S. KIND OF RESUME	4 SECURITY	7. REGRADING	B. RELEASE LIMITATION	9. LEVEL OF RESUME
16-03-67	A New	LU U	N/A	OD	Q. QDRI
A CURRENT NUMBER/COO			105. PRIOR HUMBER/CO		132-32
QW4-42703-C-6	32		SMUFA-31		
TITLE					
(U) Electronic	Gaging Small Caliber	Cartridge	S START DATE	14. CRIT. COMPL. DATE	IS FUNDING AGENCY
Ordnance, Ammun	1 LE LOR 7. CONTRACT/GRANT & GATE		N/A	N/A PROFESSIONAL	N/A
N/A	N/A		PRIOR PY N/A	N/A	N/A
	. TYPE d. AMGUNT	,	CURRENT PY	1	The state of the s
GOV'T LAB, INSTALLATIO	L		20. PERFORMING ORGAN	IZATION	
me Frankford		_	MAME		
oomaa Industria SMUFA-X20	il Services Directora	te	A009E 86		
		9137	INVESTIGATORS	N/A	
•	•	7 6 4 1	PRINCIPAL ASSOCIATE		
Gatter, 215 JE	5-2990 X 3120		TEL.		TYPE
I. TECHNOLOGY UTILIZATI	OH		22. COORDINATION		
Applied Researc	h or Development				
L KEYRORCE				5. F	
electronic sens	To conduct feasibil sing and measuring detion and machine adju	vices as a	substitute f	or the mechanica	al and human
electronic sens mode of inspect (U) Approach: will reduce and ponent inspecti or eliminating type system uti	A need exists for a lon. It is believed this error potential lizing the necessary	vices as a stment in system in man error that elect	small caliber small caliber potential in a ronics presenvestigator wil	or the mechanics ammunition manu ammunition produced and the means for large and device and device and device and device and device and device ammunities the means for large ammunities	al and human ifacture. duction that ent and com- r reducing an velop a proto
electronic sens mode of inspect (U) Approach: will reduce and ponent inspecti or eliminating	A need exists for a lon. It is believed this error potential lizing the necessary	vices as a stment in system in man error that elect	small caliber small caliber potential in a ronics presenvestigator wil	or the mechanics ammunition manu ammunition produced and the means for large and device and device and device and device and device and device ammunities the means for large ammunities	al and human ufacture. duction that ent and com- r reducing an velop a proto
electronic sens mode of inspect (U) Approach: will reduce and ponent inspection eliminating type system uti	A need exists for a lor eliminate the hundred this error potential lizing the necessary	vices as a stment in system in man error that elect	small caliber small caliber potential in a ronics presenvestigator wil	or the mechanics ammunition manu ammunition produced and the means for large and device and device and device and device and device and device ammunities the means for large ammunities	al and human ifacture. duction that ent and com- reducing an velop a protored objective
electronic sens mode of inspect s. (U) Approach: will reduce and ponent inspecti or eliminating type system uti Background: (U) Background:	A need exists for a lor eliminate the human. It is believed this error potential lizing the necessary	system in man error that electroni	small caliber small caliber potential in a ronics present estigator will c devices to	or the mechanica ammunition manu ammunition production adjustments the means for l design and devattain the design	al and human ifacture. duction that ent and com- reducing ar velop a protored objective
(U) Approach: (U) Approach: (II) reduce and ponent inspection eliminating type system utility and the constant of the consta	A need exists for a lor eliminate the human. It is believed this error potential lizing the necessary	system in man error that electroni	small caliber small caliber potential in a ronics present estigator will c devices to	or the mechanica ammunition manu ammunition production adjustments the means for l design and devattain the design	duction that ent and com- reducing arvelop a protored objective
(U) Approach: (U) Approach: will reduce and ponent inspection eliminating type system util (U) Background: (U) Background:	A need exists for a lor eliminate the human lon. It is believed this error potential lizing the necessary	system in system in man error that electroni	small caliber small caliber potential in a ronics present estigator will c devices to	or the mechanica ammunition manu ammunition production adjustments the means for l design and devattain the design	duction that ent and com- reducing arvelop a protored objective
(U) Approach: will reduce and ponent inspection eliminating type system utils. (U) Background: A COMMUNICATIONS SECURATIONS SECURATIONS ACCURATIONS A	A need exists for a lor eliminate the human lis believed this error potential lizing the necessary N.A. N.A. N.A.	system in system in man error that elect. The invelectroni	small caliber small caliber potential in a ronics present estigator will c devices to	or the mechanica ammunition manu ammunition production adjustments the means for l design and devattain the design	duction that ent and com- reducing arvelop a protored objective
(U) Approach: (U) Approach: will reduce and ponent inspection eliminating type system utility and the system uti	A need exists for a lor eliminate the human lis believed this error potential lizing the necessary N.A. N.A. N.A. N.A.	system in system in man error that elect. The invelectroni	small caliber small caliber potential in a ronics present estigator will c devices to	or the mechanica ammunition manu ammunition production adjustments the means for l design and devattain the design	duction that ent and com- reducing arvelop a protored objective
(U) Approach: (U) Approach: vill reduce and conent inspection eliminating type system utility and the constant of the consta	A need exists for a lor eliminate the human lis believed this error potential lizing the necessary N.A. N.A. N.A. N.A.	system in system in man error that elect. The invelectroni	small caliber small caliber potential in a ronics present estigator will c devices to	or the mechanica ammunition manu ammunition production adjustments the means for l design and devattain the design	duction that ent and com- reducing arvelop a protored objective

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KESEARCH A	AND TECHNOLOGY RESUME	1,	2. GOVT ACCESSION	3. AGENCY ACCESSION	REPORT CONTROL SYNIIG
DATE OF RESUME	S. KIND OF RESUME	6. SECURITY	7. REGRADING	B. RELEASE LIMITATION	D. LEVEL OF RESUME
15-08-67	A New	"и и	N/A		{
DA. CURNENT NUMBER CO	OOL		N/A	OD OE	Q QDRT
QW4-23801-C-	540		SMUFA-33		
1 TITUR	****				
(U) Decreasing	Weight and Size	of Ammunition	13 START DATE	Y	Y
				M. CRIT. COMPL. DATE	IS. FUNDING AGENCY
Ordnance, Ammu	11 CONTRACT/ORANG		N/A	N/A PROFESSIONAL	N/A
		- DATE	18. RESOURCES EST.	- MAN-YEARS	b. FUNDS (In thrusands)
N/A	A HUMBER N/A	d. AMOUNT	CURRENT PY	N/A	N/A
SOUT LABORATALLAT		T	20. PERFORMING ORGA	HIZATION	
Frankfor	d Arsenal		NAME	<u> </u>	
	& Engr Labs SMU	FA- J7000	ADORESS		
Philadel	phia, Pennsylvan	ia 19137	,	N/A	
	•		INVESTIGATORS		
Regan,			ASSOCIATE		
	900 X 21107		TEL.		TYPE
FECHNOLOGY UTILIZA	TION		22. COORDINATION		
A REVECTOS					
- · -	unition size, Sm	all arms ammuni	tion weight	*** ****	
4.					
		,			
U) Approach:	One method is to eliminate the amo				
U) Approach:					
(U) Approach:					
(U) Approach:					
Another is to dealer is the dealer is to dealer is deal		relopment in ca	or use a ligi	iter weight case	Ight
U) Approach: Inother is to (U) Background: eduction poss: evelopment pro	The recent destible. After a number of sects are underwards	relopment in ca	or use a light	iter weight case	ight wo major
U) Background: eduction poss: evelopment pro	The recent destible. After a number of sects are underwards	relopment in ca	or use a light	ter weight case	ight wo major
U) Background: eduction poss: evelopment pro	The recent destible. After a number of sects are underwards	relopment in ca	or use a light seless ammunit of exploratory	ter weight case	ight wo major
U) Background: U) Background: eduction poss: evelopment pro	The recent devible. After a number of sects are underwards	relopment in camber of years	seless ammunit of exploratory 29.050 COOE N/A 32. PARTICIPATION	ter weight case	ight wo major
U) Background: U) Background: eduction poss: evelopment pro	The recent dentified and the second of the s	relopment in camber of years	seless ammunit of exploratory 29.050 COOE N/A 32. PARTICIPATION	ter weight case	ight wo major
U) Background: U) Background: eduction poss: evelopment pro **COMMUNICATIONS SECTOR **COMMUNI	The recent derible. After a nu ojects are underwojects.	relopment in camber of years way.	seless ammunit of exploratory 29.050 COOE N/A 32. PARTICIPATION	ter weight case	ight wo major
U) Background: eduction poss: evelopment pro	The recent desible. After a number of the same under the same unde	relopment in camber of years way.	seless ammunit of exploratory N/A N/A N/A	ter weight case	ight wo major

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RESEARCH .	AND TECHNOLOGY RESUME	1.	2. GOVT ACCESSION	3. AGENCY ACCESSION	REPORT CONTROL SYMIN	
DATE OF RESUME	S. KIND OF RESUME	S. SECURITY	7. REGRADING	S. RELEASE LIMITATION	D. LEVEL OF RESUME	
15-08-67	A New	LA Una	N/A	αn	Q. QDRI	
S. CURRENT NUMBER/CO	or z		104. PRIOR NUMBER/CO	0€		
QW4-23801-C-549			SMUFA-41			
	Combustible Tomities	- Customs fo	O1 A			
(U) Improving	Combustible Ignition	n Systems IC	OT CASELESS AM	MUNICION HATE	15. FUNDING AGENCY	
	·· ·		N/A			
Ordnance, Ammu		 		N/A PROFESSIONAL	N/A	
	a. gav	·E	16. RESOURCES EST.	d. MAN-YEARS	b. FUNOS (In thousands)	
N/A	A NUMBER N/A		CURRENT PY	N/A	N/A	
GOV'T LAB/INSTALLAT			20. PERFORMING ORGAN	NIZATION !	1	
we Frankfor			HAME	L		
	d Arsenal	71.000	ADORESA	u.		
Winto De A	. 0 -	-J1000 19137	(N/A		
rntrader	phila, remisylvania	19137	INVESTIGATORS			
se moiv. Bornhei	m, George		PRINCIPAL ASSOCIATE			
ec. 215 535-290	0 X 5105		TEL. TYPE			
I. TECHNOLOGY UTILIZA	TION		22. COOMOINATION	1		
	•			,**1		
I. KEYWOADS						
Percussion ign	ition, Electric ign:	<u>ition, Sensi</u>	tivity, Erosi	on, Reaction tim	ne	
			a bee adjust	lectric ionition	systems and	
· (U) Objectiv	e: Develop new comi					
· (U) <u>Objectiv</u> percussion pri	mer compositions in	Calibers 5.	56mm and 20-3	Omm to provide r		
 (U) Objective percussion principle nition, handli 	mer compositions in ng safety, sensitiv	Calibers 5. Ity and reac	56mm and 20-3 tion time of	Omm to provide r the molded prope	llant caseles	
(U) Objective percussion princition, handli	mer compositions in	Calibers 5. Ity and reac	56mm and 20-3 tion time of	Omm to provide r the molded prope	llant caseles	
(U) Objective percussion prinction, handling I	mer compositions in ng safety, sensitiv	Calibers 5. ity and reac uld have no	56mm and 20-3 tion time of corrosive or	Omm to provide r the molded prope	llant caseles	
(U) Objective percussion prinction, handling I	mer compositions in ng safety, sensitiv gnition systems show	Calibers 5. ity and reac uld have no	56mm and 20-3 tion time of corrosive or	Omm to provide r the molded prope	llant caseles	
e (U) Objective percussion princition, handli ammunition. I and leave litt	mer compositions in ng safety, sensitiv gnition systems show	Calibers 5. Ity and reaculd have no the gun cha	56mm and 20-3 tion time of corrosive or mber.	Omm to provide r the molded prope erosive effect o	llant caseles on the weapon	
e (U) Objective percussion princition, handli ammunition. I and leave litted (U) Approach	mer compositions in ng safety, sensitive gnition systems shown le or no residue in	Calibers 5. ity and reaculd have no the gun cha	50mm and 20-3 tion time of corrosive or mber. to develop co	Omm to provide r the molded prope erosive effect o mbustible percus	cllant caseles on the weapon sion and	
e (U) Objective percussion princition, handli ammunition. I and leave litted (U) Approached the control of the	mer compositions in ng safety, sensitive gnition systems show le or no residue in the Studies have been	Calibers 5. ity and reaculd have no the gun cha initiated te the casal	56mm and 20-3 tion time of corrosive or mber. to develop comess molded pro-	Omm to provide r the molded prope erosive effect o mbustible percus opellant ammunit	ellant caseles on the weapon sion and ion for both	
e (U) Objective percussion printion, handli ammunition. I and leave litted (U) Approache electric igniticalescoped and	mer compositions in ng safety, sensitive gnition systems show le or no residue in Studies have been ion systems to ignition conventional project	Calibers 5. ity and reac uld have no the gun cha initiated te the casel ctiles locat	50mm and 20-3 tion time of corrosive or mber. to develop comess molded proions, and to	Omm to provide r the molded prope erosive effect o mbustible percus opellant ammunit develop percussi	ellant caseles on the weapon sion and ion for both on primer	
e (U) Objective percussion printion, handli ammunition. I and leave litted (U) Approache electric ignitivelescoped and compositions w	mer compositions in ng safety, sensitive gnition systems show le or no residue in the Studies have been ion systems to ignifications.	Calibers 5. ity and reaculd have no the gun cha initiated te the casel tiles locat	50mm and 20-3 tion time of corrosive or mber. to develop coress molded proions, and to the or which leads to	Omm to provide r the molded prope erosive effect o mbustible percus opellant ammunit develop percussi eave only a smal	ellant caseles on the weapon sion and ion for both on primer l amount of	
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APPENDIX H

UNSOLICITED PROPOSALS

The data elements of the Unsolicited Proposal File will be utilized to provide an initial match of the techniques in the unsolicited proposal to known Army needs, through the QDRI Statements File. This matching will provide the basis or first step in the evaluation of the unsolicited proposal.

The problem of conducting a full and thorough evaluation of the potential solutions to problems offered by the unsolicited proposal is not unique to the Army. In recognition of this problem, an "Interagency Working Group on Government Unsolicited Proposals" has been established, comprised of the organizations within the Department of Defense along with other interested Federal Agencies such as the National Institute of Health, the National Science Foundation, the National Aeronautics and Space Administration, etc. The "group" has assumed the responsibility and undertaken the task of developing uniform standards and procedures for the receipt, handling, processing, evaluating, and disseminating of information concerning unsolicited proposals.

Several sessions of the working group have been held for the purpose of clearly identifying all problem areas prior to developing specifications for a standard system for handling unsolicited proposals. Formats for reports based on the unsolicited proposals have not been established, however, until this is accomplished, the QDR1 Information Processing System will provide reports on unsolicited proposal activities of the Army, presenting information such as;

UNSOLICITED PROPOSALS RECEIVED

DISTRIBUTION OF UNSOLICITED PROPOSALS

EVALUATION OF UNSOLICITED PROPOSALS

The frequency of these reports may be on a monthly or quarterly basis, however, this need can best be determined by actual usage. Sample formats of these reports are presented in the following pages of this Appendix. Summary type reports based on unsolicited proposals are included in Appendix K.

UNSOLICITED PROPOSALS RECEIVED

PROPOSAL IDENTIFICATION NUMBER

DATE OF PROPOSAL

TITLE OF PROPOSAL

NAME OF SUBMITTING ORGANIZATION (OR INDIVIDUAL)

STREET ADDRESS

TELEPHONE NUMBER

CITY

STATE, ZIP CODE

NAME OF ORGANIZATION CONTACT

SUPMISSION DATE

CUT-OFF DATE

AMC INSTALLATION/AGENCY RECEIVING PROPOSAL

ABSTRACT OF PROPOSAL (IF AVAILABLE)

KEY WORDS (IF AVAILABLE)

PAGE _ OF _ PAGES

DISTRIBUTION OF UNSOLICITED PROPOSALS

PROPOSAL IDENTIFICATION NUMBER DATE OF PROPOSAL

TITLE OF PROPOSAL

NAME OF SUBMITTING ORGANIZATION (OR INDIVIDUAL)

STREFT ADDRESS

TELEPHONE NUMBER

CITY

STATE, ZIP CODE

NAME OF ORGANIZATION CONTACT

SUBMISSION DATE

CUT-OFF DATE

AMC INSTALLATION/AGENCY RECEIVING PROPOSAL

MEMO OF UNDERSTANDING

DATE OF MEMO

RELATED QDRI ITEM NUMBER (OR ASSIGNED NUMBER IF NOT RELATED)

DISTRIBUTION FOR EVALUATION

SMUFA

SMUPA

SWEWV

XXXXX

XXXXX

XXXXX

PAGE _ OF _ PAGES

EVALUATION OF UNSOLICITED PROPOSALS

PROPOSAL IDENTIFICATION NUMBER DATE OF PROPOSAL

TITLE OF PROPOSAL

NAME OF SUBMITTING ORGANIZATION (OR INDIVIDUAL)

STREET ADDRESS

TELEPHONE NUMBER

CITY

STATE, ZIP CODE

NAME OF ORGANIZATION CONTACT

EVALUATION RESULTS

FAVORABLE/UNFAVORABLE

FUNDING/PROGRAM ELEMENT

CONTRACT NUMBER

CONTRACT DATE

CONTRACT PRICE

CONTRACT ADMINISTRATOR

TECHNICAL COORDINATOR

AMC INSTALLATION/AGENCY SPONSOR

APPENDIX I

AUTOMATED RESEARCH AND DEVELOPMENT BIDDERS LISTS

This report, prepared by the QDRI Information Processing System will provide a selected list of registered organizations, qualified to participate in research and development procurements, to major Army Procurement Offices. The format of this report has not been standardized for all procurement offices. The standardization of formats is currently being developed under NAPALM, however, the pertinent data elements are already known and are incorporated within the QDRI Information Processing System. These output data elements are presented as follows.

DATA ELEMENT	SIZE
QUALIFIED ORGANIZATION (FACILITY) IDEN. NUMBER	6 A/N Chars.
NAME OF QUALIFIED ORGANIZATION (FACILITY)	34 A/N Chars.
NAME OF PARENT ORGANIZATION	34 A/N Chars.
STREET ADDRESS	33 A/N Chars.
CITY	19 Alpha Chars.
STATE	6 Alpha Chars.
ZIP CODE	6 Numeric Chars.
GEOGRAPHICAL CODE LOCATION	4 Numeric Chars.
TELEPHONE NUMBER	10 A/N Chars.
NAME OF ORGANIZATION CONTACT	20 Alpha Chars.
TYPE OF ORGANIZATION CCDE	l Alpha Char.
CORPORATIVE STATUS CODE	l Alpha Char.
DATE OF LAST QUALIFICATION REVIEW	6 Numeric Chars.
SMALL BUSINESS CODE	l Alpha Char.

DATA ELEMENT

SECURITY CLEARANCE CODE

COGNIZANT SECURITY AGENCY CODE

STATUS LIST CODE

SIZE

- 1 Alpha Char.
- 5 Alpha Chars.
- l Alpha Char.

APPENDIX J

QDRI PUBLICATIONS

These reports or documents are actually system gererated maintenance and up-dating of the Annexes of the QDRI Manager's Guide. The Annexes provide to the QDRI Offices a wide variety of basic data necessary for the management and coordination of the Program. The pertinent Annexes which are amenable to automated maintenance and up-dating procedures are:

- ANNEX 1 PROGRAM ELEMENT COORDINATION
- ANNEX 2 DIRECTORY OF POINTS OF CONTACT FOR INFORMATION-TO-INDUSTRY PROGRAMS
- ANNEX 3 LIST OF OUTSTANDING ODRI's
- ANNEX 4 BASIC DISTRIBUTION OF QDRI PUBLICATIONS
- ANNEX 5 MISSIONS AND INTERESTS OF ARMY RESEARCH AND DEVELOPMENT AGENCIES
- ANNEX 6 LIST OF CONTRACTS RESULTING FROM QDRI PROGRAM
- ANNEX 7 FORMAT REQUIREMENTS FOR QDRI GUIDES
- ANNEX 8 REFERENCES AND BIBLIOGRAPHY

Sample sections of the Annexes are presented. The QDRI Information Processing System will maintain and up-date the list type data elements contained within each Annex. For example, as changes occur in Annex 1 - Program Element Coordination - on the Program Element Assignments, up-dated versions can be prepared by the system. As an additional example, in Annex 2 - Directory of Points of Contact for Information-to-Industry Programs - up-dating requirements of the names of individuals, changes in mailing addresses, new telephone numbers, etc. can also be accomplished by the automated features of the QDRI Information Processing System.

QUALITATIVE DEVELOPMENT REQUIREMENTS INFORMATION PROGRAM ELEMENT COORDINATOR ASSIGNMENTS

(REF: AR 705-12 & AMCR 11-5, C1)

Pro	gram Element Amigrament	Coordinator Assignment
RESEARCH D	IVISION, R&D DIRECTORATE, AMC	
6.11.30.01.1	In-House Laboratory Independent Research (BP 5000)	Dr. R. G. H. Siu Attn: AMCRD-R
6.11.45.91.1	Defense Research Sciences (BP 5000)	
	Research in Physics	Mr. Joseph Kaufman Attn: AMCRD-RC
	Revesrch in Chemistry	Dr. O. Borum ATTN: AMCRD-RC
	Research in Mathematics	Mr. Joseph Kaufman Attn: AN RD-RC
	Mathematical Numerical Analysis for Scientific Computers	Mr. G. E. Stetson Attn: AMCRD-RP
	Electronics	Mr. Park Bedford Attn: AMCRD-RP
	Research in Materials	Dr. P. R. Kosting Attn: AMCRD-RC
	Explosives—Pyrotechnics	Mr. M. C. Miller Attn: AMCRD-RC
	Propellants Research	Mr. M. C. Miller Attn: AMCRD-RC
	Research in Mechanics	Mr. Joseph Kaufman Attn: AMCRD-RC
	Pure Fluid Spater	Lt. Col. Walter Kertula Attn: AMCRD-RP
	Interior Bullistics	Mr. G. E. Stetson Ann: AMCRD-RP
	Exterior Ballistics	Mr. G. E. Stetson Artn: AMCRD-RP
	Terminal Ballistics	Mr. G. E. Stetson Attn: AMCRD-RP
	Aircraft Aerodynamics	Mr. John Beebe Attn: AMCRD-RP
	Research Energy Conversion	John Creliin Attn: AMCRD-RC
	Research in Earth Physics	Mr. R. F. Jackson Attn: AMCRD-RV
	Research Atmospheric Sciences	Mr. J. A. Copeland

Atm: AMCRD-RV

DIRECTORY

Points of Contact for QDRI and Related Information to Industry Programs

- 1. U. S. ARMY MATERIEL COMMAND, Washington, D. C. 20315 AUTOVON 22 plus Ext. No.; Area 202, Phone OX plus Ext. No.
 - a. Research and Development Directorate-Policy
 - (1) Policy on QDRI and Unsolicited Proposals
 - (P) Mr. B. Stutsky, GS-14, AMCRD-SS-P, Ext. 53933, Building T-7
 - (2) Prime Contact on Unsolicited Proposals
 - (A) Mr. H. L. Mourning, GS-12, AMCRD-SS-P, Ext. 54982, Building T-7
 - b. Project Managers-Coordination
 - (1) QDRI Projects and Problems
 - (P) AMCPM (To be assigned)
 - (2) Unsolicited Proposals and Inventive Proposals
 - (P) AMCPM (To be assigned)
- 2. INDEPENDENT LABORATORIES—Coordination
 - a. USA Ballistic Research Laboratories, Aberdeen Proving Ground, Maryland 21005 AUTOVON 231 1380; Area 301, Phone 272-4000 (See Note).
 - (1) QDRI Projects and Problems
 - (P) Mr. L. E. Zongker, GS-13, AMXBR-W, Ext. 3374
 - (2) Unselicited Proposals and Inventive Proposals
 - (F) Dr. Frank E. Grubbs, PL 313, AMXBR-X, Ext. 3098
 - b. USA Costing and Chemical Laboratory, Aberdeen Proving Ground, Maryland 21005 AUTOVON 231-1380; Area 301, Phone 272-4000 (See Note).
 - QDRI Projects and Problems, Unsolicited Proposals and Inventive Proposals
 - (F) Mr. Harry L. Ammlung, GS-15, AMXCC, Ext. 48206
 - USA Cold Regions Research and Engineering Laboratories Hanover, New Hampshire 03755

Area 603, Phone 643-3200

- QDRI Projects and Problems, Unsolicited Proposals and Inventive Proposals
- (P) Mr. Wesley R. Floyd, GS-, AMXCR-TL, Ext. 229
- d. Herry Diamond Laboratories, Washington, D. C 20438
 - Government Code 154; Area 202, Phone 244-7700

(1) QDRI Projects and Problems

- (P) Mr. C. C. Schwenk, GS-, AMXDO-PP, Ext. 7745
- (2) Unsolicited Proposals and Inventive Proposals
 - (P) Mr. Jens F. Holst, GS-, AMXDO-PP, Ext. 7745

NOTE: The Ballistic Research Laboratories QDRI Office will be the point of contact for industry and commerce for all laboratory activities located at Aberdeen Proving Ground, Md.

QDRI, PROJECTS, TASKS, AND PROBLEMS U. S. ARMY BALLISTIC RESEARCH LABORATORIES ABERDEEN PROVING GROUND, MD. 21005

PROJECT NUMBER

PROBLEM TITLE

QP4-10501-M-001

Interior Ballistics (Pressure measurements)

(sample number)

Computer Methodology

Interference Comparator (Photogrametric) (NIC-2307)

Automatic Stereoscopic Measurement (NIC-2308)

Gauge to Measure Transient Pressure within Soil

(NIC-2309)

Hydraulic Brake Fluids (Mineral Type)

Conversion Coating, Zinc and Iron Phosphate

Heavy Duty Alkaline Cleaner

Cleaners, Paint Removers

Cleaners, Carbon Solvent Looseners

HARRY DIAMOND LABORATORIES WASHINGTON, D. C. 20438

PROJECT NUMBER

PROBLEM TITLE

An Electronically Variable Microwave Delay Line

Step Recovery Diode with Superior Performance Characteristics

Electronically Scanned 70 KMS Antenna; 2D Type Capable of Being Scanned in the Horizontal Dimension

Small Meter (1" Diam. Face or Less) to Measure Static Pressure in Miniaturized Pneumatic Devices

Sensors for Measurement of Liquid and Gas in Very Small Passages (Order of .25" or less) Without Appreciable Disturbances of Flow

Rapid Pulsing Laser System, Manportable and With Superior Performance Characteristics

Power Supply for Specialized Fuze Application

Ministure Gun-Rugged Accurate Electronic Time Base

Transistor Flip-Flop Setting Device

Solid State Safety & Arming Device

Low Power Counter

January 1965

Distribution of QDRI Series of Guides

		No. ol	Copies
Addressee	Vol. 1	<u>Vol. 11</u>	Vols. III thru VIII
Qualified civilian organizations	None	(a) I	(b)
According to interest—2 per .nstallation—maximum	(a) A	ll unclassifi	ed volumes
	(b) C	lassified a/	'c "need-to-know"
Hq. U. S. Army Materiel Command			
CG. USAMC: AMCCG	1	i	1 each
P&P Directorate; AMCPP	1	1	1 each
AMCPP-PP	1 🦪	1	1 each
AMCPP-ME	1	i	1 each
AMCPP-MW	$-\infty$	1	1 each
AMCPP-MU	1	1	1 each
Materiel Resdiness Dir; AMCMR-CO		1	1 each
AMCMR-EL	1	1	1 each
AMCMR-MI	1	1	1 each
AMCMR-MO	1	1	1 each
AMCMR-MU	1	1	1 each
AMCMR-WE	1	1	1 each
Comptroller; AMCCP-RA	1	1	1 each
General Counsel; AMCGC-PA	1	1	1 each
Data Systems: AMCDS	1	None	None
Information Ofc; AMCIN	1	1	1 each
		(Uncl	assified only)
Research & Development Directorate			
AMCRD	1	1	1 each
AMCRD-TL	5	2	2 each
AMCRD-SS	5	2	2 each
AMCRD-DE	7	7	7 each
AMCRD-RS	4	4	4 each
AMCRD-T1	1	1	í each
Management Science Office			
AMCGA	1	1	1 each
J-5			January 1965

REFERENCES AND BIBLIOGRAPHY

MAJOR QDRI PUBLICATIONS

AMCR 70-19 Release of Qualitative Development Requirements Information

(QDRI), 13 October 1964

Letter Subject: Qualitative Development Requirements Information,

(QDRI) Program, from AMCRD-SS-P, dated 9 November 1964

QDRI Technical Publications

Volume I QDRI Managers Guide, January 1965
Volume II AMC QDRI Guide (to be published)

Volume III USA ECOM QDRI Guide (to be published)

Volume IV USA MICOM QDRI Guide (to be published)
Volume V USA MOCOM ODRI Guide (to be published)

Volume V USA MOCOM QDRI Guide (to be published)
Volume VI USA MUCOM QDRI Guide (to be published)

Volume VII USA WECOM QDRI Guide, February 1965

Volume VIII USA T&E Command QDRI Guide (to be published)

PUBLICATIONS ON OTHER MAJOR INFORMATION PROGRAMS

AR 825-20 Inventions, Patents, and Patent Infringements Claims and Inventive Proposals, 23 October 1951, Changes 2-3

AMCR 70-2 Unsolicited Research and Development Proposals and

Inventive Proposals, 28 November 1962

AR 70-35 Department of the Army Research and Development

Unfunded Study Program, 12 December 1963

AMCR 70-22 The AMC Research and Development Unfunded Study Program, 16 December 1964

Inventions Wanted by the Armed Forces and Other Government Agencies, published by National Inventors Council (NIC), U.S. Department of Commerce (obsolete)

U. S. Army R&D Problems Guide, Volumes I thru VIII, published by OCRD and the technical services prior to Army reorganization (obsolete). Program, Northern States, Navy Research and Development Clinic, Philadelphia, Pa., November 18-20, 1964.

OTHER APPLICABLE DOCUMENTS

DOD Instruction 5010.11 Improved Management of Technical Logistics Data and Information, 25 February 1964

DOD Instruction 5010.12 Technical Data and Information; Determination of Requirements and Procurement of, 27 May 1964

January 1965

APPENDIX X

MANAGEMENT REPORTING

The QDRI Information Processing System will provide management type reports in accordance with the requirements set forth in the QDRI Manager's Guide. These reports will be rendered periodically and as required, based on the needs of the users of the system. The reports will be statistical in nature, providing a review of the QDRI Program based on cost effectiveness and its value in use to the ARMY.

Sample reports are presented which are prepared by utilizing the data elements within RODATA in varied sequences to provide selected statistical data on either the entire QDRI Program or the activities of individual AMC QDRI Offices, or even individual contract reports.

ANNUAL REPORT - QDRI PROGRAM

TOTAL NUMBER OF REGISTERED ORGANIZATIONS	XXXXX
INDUSTRIAL ORGANIZATIONS (LARGE BUSINESS)	XXXXX
INDUSTRIAL ORGANIZATIONS (SMALL BUSINESS)	xxxxx
NON-PROFIT ORGANIZATIONS	xxxxx
ACADEMIC ORGANIZATIONS	xxxxx
INDIVIDUALS	XXXXX
NEW REGISTRANTS - CURRENT FY	xxxxx
DROPOUTS - CURRENT FY	xxxxx
NET GAIN (OR LOSS) - CURRENT FY	XXXXX
MARKE WINDER AT LITETED BY DEGLESSION ADDRESS TO A	
TOTAL NUMBER OF VISITS BY REGISTERED ORGANIZATIONS	<u> </u>
INDUSTRIAL ORGANIZATIONS (LARGE BUSINESS)	XXXXX
INDUSTRIAL ORGANIZATIONS (SMALL BUSINESS)	XXXXX
NON-PROFIT ORGANIZATIONS	XXXXX
ACADEMIC ORGANIZATIONS	XXXXX
INDIVIDUALS	XXXXX
ATTENDANCE AT AD ANCED PLANNING BRIEFINGS	xxxxx
INDUSTRIAL ORGANIZATIONS (LARGE BUSINESS)	KX.YXX
INDUSTRIAL ORGANIZATIONS (SMALL BUSINESS)	XXXX
NON-PROFIT ORGANIZATIONS	«хххх
ACADEMIC ORGANIZATIONS	хххх
INDIVIDUALS	«хххх

PAGE _ OF _ PAGES

XXXXX

TOTAL NUMBER OF UNSOLICITED PROPOSALS RECEIVED	xxxxx
INDUSTRIAL ORGANIZATIONS (LARGE BUSINESS)	xxxxx
INDUSTRIAL ORGANIZATIONS (SMALL BUSINESS)	xxxxx
NON-PROFIT ORGANIZATIONS	xxxxx
ACADEMIC ORGANIZATIONS	XXXXX
INDIVIDUALS	XXXXX
TOTAL NUMBER OF UNSOLICITED PROPOSALS ACCEPTED	xxxxx
INDUSTRIAL ORGANIZATIONS (LARGE BUSINESS)	XXXXX
INDUSTRIAL ORGANIZATIONS (SMALL BUSINESS)	XXXXX
NON-PROFIT ORGANIZATIONS	xxxxx
ACADEMIC ORGANIZATIONS	xxxxx
INDIVIDUALS	XXXXX
TOTAL NUMBER OF CONTRACTS AWARDED BASED ON QDRI	xxxxx
INDUSTRIAL ORGANIZATIONS (LARGE BUSINESS)	xxxxx
INDUSTRIAL ORGANIZATIONS (SMALL BUSINESS)	xxxxx
NON-PROFIT ORGANIZATIONS	xxxxx
ACADEMIC ORGANIZATIONS	xxxxx

INDIVIDUALS

PAGE _ OF _ PAGES

XXXXXXX

DOLLAR VALUE OF CONTRACTS AWARDED

INDIVIDUALS

XXXXXXX

INDUSTRIAL ORGANIZATIONS (LARGE BUSINESS) XXXXXXX

INDUSTRIAL ORGANIZATIONS (SMALL BUSINESS) XXXXXXX

NON-PROFIT ORGANIZATIONS XXXXXXX

ACADEMIC ORGANIZATIONS XXXXXXX

A similar format can be utilized for reports on the activities of each AMC QDRI Office.

APPENDIX L

QDRI GUIDES - VOLUMES I to XI

The QDRI Guides supersede the U.S. Army Problem Guides (1960 - 1963); the NIC book "Inventions Wanted by the Armed Forces," all previous Ordinance, Chemical, and Engineer Corps requirements publications, and the separate publication by the Army Research Office - Durham - of "Military Themes."

There are presently ten QDRI Volumes published regularly. These ten are:

VOLUME I	QDRI MANAGERS GUIDE
VOLUME II	AMC QDRI GUIDE (Independent Laboratories and other Agencies)
VOLUME III	USA ECOM QDRI GUIDE (Electronics and Communications)
VOLUME IV	USA MICOM QDRI GUIDE (Rockets and Missiles)
VOLUME V	US ATAC QDRI GUIDE (Combat Vehicles)
VOLUME VI	USA MUCOM QDRI GUIDE (Munitions and related Material)
VOLUME VIa	EA QDRI GUIDE (Chemical Agents and Munitions)
VOLUME VIb	FORT DETRICK QDRI GUIDE (Biological Agents and Munitions)
VCLUME VIc	FA QDRI GUIDE (Small Caliber Munitions)
VOLUME VId	PA QDRI GUIDE (Nuclear Munitions and Radiological Equipment)
VOLUME VII	USA WECOM QDRI GUIDE (Weapons, Combat Vehicles, and Fire Control)
VOLUME VIII	USA T&E COMMAND QDRI GUIDE (Test and (Evaluation Instrumentation)

VOLUME IX USA AVCOM & AVLABS QDRI GUIDE (Army Aircraft)

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