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SECRET CABINETS

*Ag Air Materiel Comd.*

*Rept. No. CR-356 - Supp #1*

*15 May 1951*

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HEADQUARTERS

AIR MATERIEL COMMAND

Wright-Patterson Air Force Base

Report No. CD-356, Supplement No. 1

15 May 1951

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710

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Auth: CG, AIC  
By: Wm. H. Dunn  
Date: 15 May 51

HEADQUARTERS  
AIR MATERIEL COMMAND

Wright-Patterson Air Force Base  
15 May 1951

LETTER OF EXONERATION

1. This is Supplement No. 1 to AMC Report No. CD-356 dated 1 April 1951.
2. The purpose of AMC Report No. CD-356, and its supplements, is to disseminate information concerning the current security classification of active engineering and procurement projects of AMC.
3. This report will be used to establish security classifications and reclassifications of documents pertaining to active engineering and procurement projects as explained in the introduction of the basic issue. Reclassification actions pertaining to engineering and procurement projects which have been terminated, cancelled, or placed in an inactive status are published in the inclosure to AMCR 205-16, "Document Reclassification Lists."
4. This supplement should be retained with the basic report it supplements until it is superseded by a new report.

FOR THE COMMANDING GENERAL:

*Harold B. Watson*

HAROLD B. WATSON  
Colonel, USAF  
Chief, Intelligence Department

~~SECRET~~

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RESEARCH AND DEVELOPMENT

AIRCRAFT AND GUIDED MISSILES SECTION

TACTICAL AIRCRAFT

	A	B	C	D	E	F	G	H	E. O. No.
MX-149 Long Range Heavy Bombardment Airplane XB-36 (CVAC)	U	U	U	R	U	U	U	U	425-58
MX-1707 Aircraft, Transport, Heavy and Carrier, Parasite/Missile (Title - RESTRICTED)	R	C	C	S	C	C	C	C	416-299
MX-1712 Supersonic Medium Bomber/Recon Airplane (Title - CONFIDENTIAL)	R	C	C	S	C	C	C	C	426-277

GUIDED MISSILE PROJECTS

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
MX-770 Long Range Supersonic Surface-to-Surface Missile RRV-A-5 (Title - CONFIDENTIAL) (North American Aviation, Inc.)	R	R	C	C	S	C	S	C	C	C	C	C	C	C
MX-770-A Long Range Supersonic Surface-to-Surface Missile XSSM-A-4 - MAYAHO II (North American Aviation, Inc.)	C	C	C	C	S	C	S	C	C	C	C	C	C	C
MX-770-B Long Range Supersonic Surface-to-Surface Missile XSSM-A-6 - MAYAHO III (North American Aviation, Inc.)	C	C	S	S	S	S	S	S	S	S	S	S	S	S

MISCELLANEOUS AIRCRAFT

MX-1001 In-Flight Refueling - Optimum Research (Probe & Drogue Method - Rigid Boom Method)	NA	*	C	S	**	C	***	±	±	R	426-266
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Character-

Model	Perf	istics	Model	Photos
Des Data P. No.	Specs.	Dwgs	E. I.	Pubs
(see paragraph 9, page 6, basic issue)				
*On system - CONFIDENTIAL				
On Specific Tactical Airplane - SECRET				
General Performance - CONFIDENTIAL				
**On specific tactical airplane - SECRET				
***On system - CONFIDENTIAL				
On specific tactical airplane - SECRET				
±Of system - CONFIDENTIAL				
Of specific tactical airplane - SECRET				
±±Of specific tactical airplane - SECRET				

RESEARCH AND DEVELOPMENT (CONT'D)

MISCELLANEOUS AIRCRAFT (CONT'D)

	Character-	Model	Photos	E. O. No.	
	istics				
	Model				
	Des Data	P. II. Specs	Dwgs	E. I.	
	(see paragraph 9, page 6, basic issue)				
EX-1540	Engine, Turbo-Propeller, in L-19A Aircraft (Cessna Aircraft Company)	U	U	U	436-
EX-1719	High Speed Free-Fall Target (Title - RESTRICTED)	R	R	R	448-87

ATRO MEDICAL LABORATORY

EX-1451 Airborne Gas Recovery Unit (B/7)  
 EX-1450 Generator, Modified Type A-1 Oxygen (B/20)

AIRCRAFT LABORATORY

EX-1048	B-50 Track Type Landing Gear (Boeing Airplane Company)	U	R*	R	R	MA	R	U	U	R	452-424
EX-1713	Towing, In-Flight	MA	C	C	C	MA	C	C	C	C	453-444
EX-1715	Flight Competability Tests F-86	NONE	C**	R**	C*	R**	R**	R**	C*	MA	450-14-1

\*RESTRICTED DATA  
 \*\*If these items reveal the type number, shape, weight or location of center of gravity, of the external store, the classification will be CONFIDENTIAL - RESTRICTED DATA





RESEARCH AND DEVELOPMENT (CONT'D)

ARMAMENT LABORATORY (CONT'D)

MX-836-B System, Fire Control 2CFR55J-1  
(General Electric)

MX-836-C System, Fire Control Improvements  
B-50 (General Electric)

MX-859 Bomb Carrying Space - Bombardment  
Aircraft

MX-891 Bomb Installation - 43,000 lb in  
B-29 Airplane

MX-909 Bomb Rack and Hoist Combination,  
12,000 lb Capacity

MX-910 Armament Study - XB-52, Martin

MX-916 B-50 Fire Control - Improvement Study  
(General Electric)

MX-929 Development of Rocket Launching  
System - Low Drag Flush Mount

MX-935-J Magnetron, High Power Tunable

Character-  
Model Perf istics Model Photos  
Des Data P. H. Specs Dvgs E. I. Pubs E. C. No.  
(see paragraph 9, page 6, basic issue)

NONE R\* U R\* R U R R 554-308-B  
\*Fixed Classifications (Each item or document  
to be classified in accordance with information  
revealed regarding \* elements. Highest clas-  
sification for each element indicated.)  
NONE R\* U R\* R U R R 554-308-C  
\*Fixed Classifications. (Each item or document  
to be classified in accordance with information  
revealed regarding \* elements. Highest clas-  
sification for each element indicated.)

NA MA R MA MA R MA MA MA 552-593  
TERMINATED

MA R\* R R R R R U R R 552-598  
\*General Performance - UNCLASSIFIED

U R R R R R R R R R 552-603, Add 1  
TERMINATED

U C C C C C C C C C 554-315  
TERMINATED

MA R R R R R R R R R R 554-318  
TERMINATED

MA R R R R R R R R R R 553-734  
TERMINATED

NONE S\* S S\* S S S S S S 556-352-J  
\*Fixed Classifications. (Each item or document  
to be classified in accordance with information  
revealed regarding \* elements. Highest clas-  
sification for each element shown.)

TERMINATED



RESEARCH AND DEVELOPMENT (CONT'D)

Model Perf Characteristics Photos  
 Des Data P. E. Specs Dvgs F. I. Pubs  
 (see paragraph 9, page 6, basic issue)  
 NONE C C C C R U U R C-3-F  
 This project supersedes IX-1094  
 NONE C R R R R R R C C-3-J

ARMAMENT LABORATORY (CONT'D)

IX-1100-E B-Line (Minneapolis-Honeywell  
 Regulator Company)  
 IX-1100-J F.F.I., CW Radar, Twin Carrier Type  
 (Midwest Research Institute)  
 IX-1105 Systems, Bombing, Non-Radiation (NORBS)  
 IX-1609 System, Bomb Directing, Optical Radar,  
 Type K-5  
 IX-1615 System, Fire Control, Air Superiority  
 IX-1625-A Rack and Hoist, Bomb, Combination,  
 12,000 Capacity  
 IX-1629-A Lift, Bomb, 25,000 lb Mobile  
 IX-1711 Weapons, Special  
 IX-1716 Mines and Mining, Aerial  
 IX-1721 Systems, Stabilization and Automatic  
 Flight Control, For Guided Missiles

EQUIPMENT LABORATORY

IX-163 Automatic Celestial Navigation System  
 (Title - CONFIDENTIAL)  
 IX-906 TIGBY  
 IX-974 Parachute Equipment, Emergency Escape,  
 Supersonic Aircraft, Development

RESEARCH AND DEVELOPMENT (CONT'D)

EQUIPMENT LABORATORY (CONT'D)

Model	Characteristics	Model	Photos	E. O. No.		
Des	Data	P. M.	Specs	E. I.		
(see paragraph 9, page 6, basic issue)						
MX-980	Indicator, Airspeed, Transonic and Supersonic	NA	R	NA	MA	655-1481
MX-988	Power Supply, Electrical, Guided Missiles	NA	R*	R	MA	656-2055
MX-1021	Dolly, Handling, Liquid JATO Unit	NA	U	R	MA	TERMINATED
MX-1053	Heat Transfer Research, Basic	NA	U	R	MA	TERMINATED - Superseded by projects MX-1677-A and MX-1677-C and will assume the classification indicated for those projects
MX-1053-A	Heat Transfer Studies on MX-984	NA	U	R	MA	TERMINATED - Superseded by project MX-1577-B and will assume the classification indicated for that projects
MX-1058	Battery, Heavy Duty, Heated Case for Auxiliary Power Unit Development (Title - RESTRICTED)	U	C	C	MA	656-2077
MX-1080	Dosimeter, Gamma Radiation, Airborne (Nuclear Instrument & Chemical Corp. & Cornell Aeronautical Laboratory, Inc.)	U	C*	R	C	655-1554
MX-1081	Airborne Radiation Survey Equipment (Frederick Flader, Inc.)	U	C*	R	C	655-1555
MX-1082	meter, Gamma Radiation Intensity, Airborne (Nuclear Instruments & Chemical Corporation, Cornell Aeronautical Laboratory, Inc.)	U	C*	R	C	655-1556
MX-1083	Training Equipment for Lark Surface to Air Missile XSAM	U	MA*	C	MA	660-372





**RESEARCH AND DEVELOPMENT (CONT'D)**

**EQUIPMENT LABORATORY (CONT'D)**

	Character-	Model	Perf	istics	Model	Photos	E. O. No.	
		Des	Data	P. M.	Specs	Dwg	I. I.	
		(see paragraph 9, page 6, basic issue)					Pubs	
		NA	C	R	IA	R	C	R
IX-1486	Cooler, Aircraft, Fuel Ground, Portable							657-346
IX-1504	Shelter, Alert, Aircraft	NA	R	U	R	U	U	657-349
IX-1528	Trainer, Gunnery, Flexible, Synthetic	IA	R*	R	MA	R	U	668-365-B
IX-1531	Trainer, High Speed - High Altitude Visual Bombing	*General Performance - UNCLASSIFIED						
IX-1533	Chief Dispenser - VIB Aircraft (A-6 & A-7)	*General Performance - RESTRICTED						
IX-1534	Trainer, Gunnery, Fixed	*General Performance - UNCLASSIFIED						
IX-1543	B/31 Project - Scrubber, Design A; Compressor, Design A	Superseded by projects IX-1678-A and IX-1678-B and will assume the classifications indicated for those projects						
IX-1555	Trainer; Demonstrator, Liquid Oxygen Alcohol Rocket Engine - XLR11-R1-1 (Reaction Motors, Inc.)	*General Performance - UNCLASSIFIED						
IX-1570	Set, Power, Ground, Portable, Pneumatic & Electrical	Superseded by project IX-1679-B and will assume the classification indicated for that project						
IX-1572	Compressor Unit, Gas, Turbine Driven, Portable, 75 PSIA	*General Performance - RESTRICTED						





RESEARCH AND DEVELOPMENT (CONT'D)

EQUIPMENT LABORATORY (CONT'D)

Model	Perf	istics	Model	Photos	H. O. No.	
Des	Data	P. i.	Specs	E. I.	Pubs	
(see paragraph 9, page 6, basic issue)						
U	C*	R	MA	C	R	
*General Performance - RESTRICTED						
TERMINATED						
MX-1577	Radar Simulator for Radar Set AN/APQ-24	U	R	U	R	668-412
MX-1580	Target, Tow 3-Dimensional, Fighter Gunnery Interceptor	U	R	U	R	668-413
MX-1605	Trainers, Guided Missiles, General	U	R	U	R	668-416
MX-1606	Trainer, Simulator, XB-52 Airplane	U	R	U	R	668-414
MX-1617	Reflector, X-Band Radar for Tow Targets	U	R	U	R	668-418
MX-1659	Air Conditioning Equipment for Ventilated Clothing (Republic Aviation Corporation)	U	R	U	R	664-779
MX-1662	Trainer, B-47 Bomb Control System	U	R	U	R	668-419
MX-1663	Prevention and Removal, Ice and Frost, Aircraft Surfaces	U	R	U	R	664-892
MX-1663-A	Electrically Conductive Coated Transparent Areas (Armour Res Foundation)	U	R	U	R	664-002-D-5
MX-1663-B	Tests, Flight and Comparative Analysis of Types of Anti-Icing Systems, Utilizing P-5	U	R	U	R	664-002-D-2

RESEARCH AND DEVELOPMENT (CONT'D)

Character-

Model Perf istics Model Photos  
Des Data P. Li. Specs DWGS E. I. Pubs F. O. NO.  
(see paragraph 9, page 6, basic issue)

MA R\* R U U U R R R  
\*General Performance - UNCLASSIFIED

MA R\* R MA MA MA MA R  
\*Refers to Laboratory Test Data and Apparatus  
General Performance - MA

The various phases of work conducted under  
this project will be identified by suffix  
letters with classification breakdowns and  
order numbers as indicated

MA C MA MA MA MA MA MA  
664-805-A-1  
664-805-A-2

MA C MA MA MA MA MA  
655-805-A-3  
664-801

The various phases of work conducted under  
this project will be identified by suffix  
letters with classification breakdowns and  
order numbers indicated

U C U C C R U R C  
664-801-B-1

U C U C C R U R C  
664-801-B-2  
664-803

The various phases of work conducted under  
this project will be identified by suffix  
letters with classification breakdowns and  
order numbers indicated

U R U MA MA R U R R  
664-803-E-3  
664-803-H-1

EQUIPMENT LABORATORY (CONT'D)

EX-1663-C Study of Use of High Temperature High  
Pressure Air for Flight Surface Anti-  
Icing Systems

EX-1663-D Infra-Red Defrosting and De-Icing  
(Republic Aviation)

EX-1677 Transfer, Heat

EX-1677-A Heat Transfer, Basic (Cornell Research)

EX-1677-B Temperature Survey, X-1 Aircraft  
(Bell Aircraft)

EX-1677-C Aerodynamic Heating at Mach Nos.  
3 & 4 (University of Minnesota)

EX-1678 Dispenser, Aerial

EX-1678-A Dispenser, Chaff, for VIB Aircraft  
(Ryan Industries)

EX-1678-B Chaff Dispenser, Cutter Type

EX-1679 Air Conditioning, Aircraft

EX-1679-A Cooling Unit, Aircraft, Simple Air Cycle

EX-1679-B B/31 Project - Scrubber, Design A;  
Compressor, Design A

RESEARCH AND DEVELOPMENT (CONT'D)

PHOTOGRAPHIC LABORATORY

LX-1073 Research and Development on Special Sensors

LX-1720 Visual Reconnaissance Aids

LX-1730 K-44 Ground Forces Camera

POWER PLANT LABORATORY

LX-527-A Ramjet Combustion Research at the California Institute of Technology

LX-527-B Ramjet Combustion Chamber Investigation at Experiment Incorporated

LX-527-C Study of Pump Applications to Ramjet and Rocket Engines

LX-527-D Theoretical and Experimental Investigations of Design Parameters for Design of Test Facilities (North American Aviation)

LX-527-E Advanced Power Plant and Facility Analytical Evaluation and Investigation for LX-702, LX-770, LX-1590, LX-1599

LX-527-F Special Fuels Investigation for Ramjet Applications (Wright Aeronautical Corp.)

LX-527-G Jet Rotor Propulsion Development for Helicopters

LX-562 Development of Turbodyne XT-37-MA-3 (Northrop Aircraft, Inc.)

Character-

Model	Perf	istics	Model	Photos	E. O. No.
Dcs	Data	P. M.	Specs	Dwgs	E. I.
(see paragraph 9, page 6, basic issue)					
S	S	S	S	S	S
MA	C	C	C	C	C
U	R	R	R	R	R
MA	C	MA	C	MA	MA
MA	C	MA	C	MA	MA
MA	C*	C	R	C	C
MA	R	R	C	MA	MA
MA	S	MA	S	MA	MA
MA	C	MA	C	MA	MA
MA	R	R	R	U	R

LX-562 has been reassigned as a basic number to identify work conducted under order number R-506-35. The various phases of work formerly associated with LX-562 will henceforth be identified by suffix letters.

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RESEARCH AND DEVELOPMENT (CONT'D)

POWER PLANT LABORATORY (CONT'D)

MX-562-A Development of XT37-MA-3 Turbo-jet Engine (General Electric Company)  
 MX-919 Booster Rockets, Pressurized (Design and Development of XLR59-AJ-1, -3)

MX-1089 Application of Ceramics to Aircraft Power Plants

MX-1169 XJ46-VE-1 Engines (Title - RESTRICTED) (Westinghouse Electric Corporation)

MX-1184 Study of Electric Power Controls for Models J34 and J46 Engines (Title - RESTRICTED)

MX-1497 Filters, Fuel and Propellant

MX-1590-A Controls for XRJ-43M Ramjet (Marquardt Aircraft Company)

A B C D E F  
 (see chart on page 5, basic issue)  
 R R C C C R

E. O. No.  
 506-35

U R C C C R

539-32

Character-

Model Perf istics Model Photos  
 Des Data P. H. Specs DWGs E. I. Pubs  
 (see paragraph 9, page 6, basic issue)

MA C\* R MA MA R R R MA  
 \*General Performance - RESTRICTED

506-185

A B C D E F

(see chart on page 5, basic issue)

R R R R R R

506-214

Model Specification is classified  
 CONFIDENTIAL

This project supersedes MX-1184  
 Superseded by project MX-1169 and will  
 assume the classification indicated for  
 that project.

540-82

Character-

Model Perf istics Model Photos  
 Des Data P. H. Specs DWGs E. I. Pubs  
 (see paragraph 9, page 6, basic issue)

U R\* U MA U U U U

524-057

\*General Performance - UNCLASSIFIED

(Order Number 524-882 cancelled)

U C\* R MA C R R R C

540-42

\*General Performance - RESTRICTED

**RESEARCH AND DEVELOPMENT (CONT'D)**

**POWER PLANT LABORATORY (CONT'D)**

EX-1590-B Monitoring of the Design, Development, Fabrication and Flight Testing of the XRJ-43-MA-3 on EX-1599

A B C D E F  
(see chart on page 5, basic issue)  
C C C C C C  
E. O. No.  
506-150

EX-1590-C Development, Fabrication and Flight Testing of XRJ-43-MA Booster Ramjets

C C C C C C  
506-150

EX-1590-D Construction of R&D Ramjet Test Facilities at Marquardt Aircraft Company)

Character-  
Model Perf istics Model Photos  
Des Data P. D. Specs DWGs E. I. Pubs  
(see paragraph 9, page 6, basic issue)  
NA C\* R C C R R C  
\*General Performance - RESTRICTED  
506-150

EX-1590-E Development, Fabrication and Flight Testing of the XRJ-43-MA-1 on EX-883

A B C D E F  
(see chart on page 5, basic issue)  
R R C C C C  
506-150

EX-1710 Investigation of the Closed Circuit Oil System as Applied to a Turbo-Jet Engine Aircraft Installation (Pennsylvania State College)

Character-  
Model Perf istics Model Photos  
Des Data P. D. Specs DWGs E. I. Pubs  
(see paragraph 9, page 6, basic issue)  
NONE C R C R R R R  
534-115

EX-1714 Engine XT-9 (Boeing Airplane Company)

A B C D E F  
(see chart on page 5, basic issue)  
R R R R R R  
506-228

17  
RESTRICTED

RESEARCH AND DEVELOPMENT (CONT'D)

POWER PLANT LABORATORY (CONT'D)	Characteristics	Model		Photos	E. O. No.
		Perf	istics		
		Des	Data	E. I.	
		(sec paragraph 9, page 6, basic issue)		Dwgs	
		U	R	R	
EX-1727	Turbosupercharger, Design and Development of (Low H.P. Reciprocating Engines)	U	R	U	522-514
EX-1728	Pumps, Tank Mounted, Fuel and Propellant (Wash Engineering Company)	U	R*	U	524-857

PROPELLER LABORATORY

EX-1708 System, Rotor, H-16 Helicopter (Piasecki Helicopter Corporation)

ELECTRONIC SUBDIVISION

Title	Classification
EX-674-A Radio Receiver AN/ARN-62 (Motorola, Inc.)	448-16
EX-1196 Techniques, IFT, for Airborne Radar Equipment, Radio, Short Range (AN/ARC-22)	112-149
EX-1209 Set, Radio, Liaison, Airborne (AN/ARC-21)	102-31, Add 1
EX-1213 Equipment, Radar, High Resolution, KU-Band	102-42, Add 1
EX-1217 Set, Radar, Automatic, Airborne (AN/APS-48)	103-25, Add 1
EX-1227 Equipment, Jamming, Reflector-Type, Radar, Dispensed from Aircraft (Chaff, Rope, etc.) (Title - RESTRICTED)	103-37
EX-1252 Control, Frequency, Electronic, New Methods of	107-46, Add 2
	111-76
	superseded by
	112-162
EX-1261 Advanced Antenna Design (Guided Missiles and New Aircraft)	112-110
EX-1269 Equipment, Map-Matching, Radar, Airborne	112-142
EX-1271 Assemblies, RF, Special, for Airborne Radar	112-145
EX-1275 Systems, Communication, Navigation and Traffic Control, Planning for	112-154
	superseded by
	109-31

RESEARCH AND DEVELOPMENT (CONT'D)

ELECTRONIC SUBDIVISION (CONT'D)

	<u>Title</u>	<u>Classification</u>	<u>E. O. No.</u>
EX-1473	Equipment, Identification, Electronic, Airborne	S	101-112 superseded by 173-13
EX-1573	System, Identification, Electronic, for Fighter Aircraft	S	104-15
EX-1575	Receiver, Radio, Naviglobe, Airborne AN/ARM-27	R	101-114
EX-1587	System, Navigation, Precision, Long Range, Airborne (Interconnection of AN/ARM-66 with Search Radar Sets)	C	101-115
EX-1622	Systems, Air Defense, Interim and Proposed, Evaluation of (Title RESTRICTED) (University of Michigan)	S	112-160
EX-1655	Receiver ECM AN/APR-14	C	107-71
EX-1709	Tubes, Electron, Utilizing Radioactive Isotopes	C	111-120
EX-1717	Set, Test, VSWR, X-Band	R	110-107
EX-1722	Techniques, Interpretation and Prediction, Radar Target	S	112-158
EX-1723	Transmitter, Jamming, Airborne (for use against tank communications)	C	107-72
EX-1724	Reconnaissance, Infrared, Airborne	C	112-161
EX-1726	Antennas, Dragless, for High-Speed Aircraft	R	112-33
EX-1729	Navigator, Electronic, All-Weather Helicopter (HELIWV) (Title RESTRICTED)	C	101-116

AF CAMBRIDGE RESEARCH LABORATORIES

EX-1289	Radar, Ground, Fundamental	S	115-14
EX-1294	Radar, Volumetric Scanning	S	115-22
EX-1302	IFF Research	TS	115-31, Add 1
EX-1667	Measurements, Pressure, Free Air Blast	TS, RESTRICTED DATA	114-29