



# Smithsonian

*National Air and Space Museum*

## Minuteman ICBM Program Research Data [Stumpf]

Patti Williams

2020

National Air and Space Museum Archives  
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## Collection Overview

<b>Repository:</b>	National Air and Space Museum Archives
<b>Title:</b>	Minuteman ICBM Program Research Data [Stumpf]
<b>Identifier:</b>	NASM.2020.0028
<b>Date:</b>	1970s - 2010s
<b>Creator:</b>	Stumpf, David
<b>Extent:</b>	256 Gigabytes
<b>Language:</b>	English .
<b>Summary:</b>	This collection consists of digital documents on one 256 GB SunDisk drive gathered by David Stumpf for his book, <i>Minuteman: A Technical History of the Missile That Defined American Nuclear Warfare</i> , a detailed history of the Minuteman intercontinental ballistic missile program.

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## Administrative Information

### Acquisition Information

David K Stumpf, Gift, 2020, NASM.2020.0028

### Processing Information

Arranged, described, and encoded by Patti Williams, 2020.

### Preferred Citation

Minuteman ICBM Program Research Data [Stumpf], NASM.2020.0028 , National Air and Space Museum, Smithsonian Institution.

### Restrictions

No restrictions on access

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## Biographical / Historical

The Minuteman intercontinental ballistic missile program has served as a component of US nuclear strategies as land-based ICBMs deployed in missile silos. The Minuteman entered service in 1962 as a deterrence weapon that could hit Soviet cities but the US Air Force modified the missile, boosting its accuracy enough to attack military targets, including Soviet missile silos. The Minuteman-II entered service in 1965 with a host of upgrades to improve its accuracy and survivability in the face of an anti-ballistic missile (ABM) system the Soviets were known to be developing. In 1970, the Minuteman-III became the first deployed

ICBM with multiple independently targetable reentry vehicles (MIRV). By the 1970s, 1,000 Minutemen were deployed as part of the US nuclear arsenal. As of 2020 the force has shrunk to under 400 Minuteman-III missiles as they will be replaced by the new Northrop Grumman Ground Based Strategic Deterrent (GBSD) ICBM from 2027 onwards.

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## **Scope and Contents**

This collection consists of digital documents on one 256 GB SunDisk drive gathered by David Stumpf for his book, *Minuteman: A Technical History of the Missile That Defined American Nuclear Warfare*, a detailed history of the Minuteman intercontinental ballistic missile program.

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## **Arrangement**

Arrangement by donor.

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## **Names and Subject Terms**

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

Subjects:

- Astronautics
- Ballistic missiles
- Cold War
- Minuteman III Missile (LGM-30G)

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## Container Listing

### 20th Air Force Material Mike Byrd

20th Air Force RV combination through 1975

1963 History (OCR) [90th Strategic Missile Wing, July 1963]

Fault Tree Analysis & MMI

Missile Wing Deployment Data 1959-1967

Reference [Email Correspondence]

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## A Wing History Collection

44th

44th SMW Deactivation Film

44smw\_1 [Video]

44smw\_2 [Video]

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AFHRA [Air Force Historical Research Agency]; Dec 23 2016, Site Activation Ellsworth [AFB] Jan to July 1963

Jan-Jun 1963 44th SMW SATAF [Strategic Missile Wing; Site Activation Task Force] 26188

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44th SMW [Strategic Missile Wing] chronology

44th SMW [Strategic Missile Wing] Giant Pace Test 74-5 Exercise Summary Report\_0001

44th SMW [Strategic Missile Wing] July Sept 74 SELM [Simulated Electronic Launch Minuteman]

26188 [microfilm roll number] - Ellsworth Site Activation and others

26188 [microfilm roll number]

26195 [microfilm roll number] SATAF [Site Activation Task Force] Ellsworth - Start Page 49

"Aggressor Beware" - 44th Missile Wing History Yearbook

"Aggressor Beware" - 44th Missile Wing History

IRIS [Incident Reporting Information System?] 467256 44th April 1963 - 467258 June-July 1963

Long Life Operations Plan OCR

Long Life Operations Plan

OCR 44th Long Life M0718 Winter Haven

SELM [Simulated Electronic Launch Minuteman] Tests with ALCS 1975

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## 90th

90th 64 SMW [Strategic Missile Wing] History Mike

90th April - June 1987 Supporting Documents 41410

90th July 1963 111 1963 History (OCR)

90th July 1963 118 90 SMW [Strategic Missile Wing] History Mike March 2018

90th July - September 1966 IRIS [Incident Reporting Information System?]  
452212

90th SMW [Strategic Missile Wing] History

90th SMW [Strategic Missile Wing] January to June 1988 42298

90th SMW [Strategic Missile Wing] October 1964 to June 1966 M0915

90th SMW [Strategic Missile Wing] October 1964 to June 1966 OCR M0915

90th SMW [Strategic Missile Wing] October to December 1986 41406 OCR

90th SMW [Strategic Missile Wing] October to December 1986 41406

90th SMW [Strategic Missile Wing] September 1963 - September 1964 M0914

90th SMW [Strategic Missile Wing] Warren AFB - LCF [Launch Control  
Facility] Acceptance Test Procedures

90th Strategic Reconnaissance Wing M0913

401 January - June 1964; July - December 1964 90th FE [Francis E. Warren  
Air Force Base] Reel 26199

1963 History (OCR)

1965 90th SMW [Strategic Missile Wing] History (OCR)

1972 90th SMW [Strategic Missile Wing] History (OCR)

1973 90th SMW [Strategic Missile Wing] History (OCR)

1974 90th SMW [Strategic Missile Wing] History (OCR)

1975 90th SMW [Strategic Missile Wing] History (OCR)

1984 October - December 90th SMW [Strategic Missile Wing] History

89900852 [New York Times Article, December 10, 1962]

M0913 [Microfilm Printout]

[History of...] Mighty Ninety; Reduced

OCR 90th 401 January - June 1963 Reel 26199

OCR 90th SMW [Strategic Missile Wing] - September 1963 - September 1964  
M0914

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## 91st

91st 455th Minot [Air Force Base] 458445 OCR

91st 455th Minot [Air Force Base] November 1962 to June 1963 OCR Reel  
N0720

91st 41411

91st January to June 1987; Some Supporting Documents, 41413

91st SMW [Strategic Missile Wing] 1985

91st SMW [Strategic Missile Wing] and 341st, October to December 1976,  
32122

91st SMW [Strategic Missile Wing] July to December, 41752

91st Standboard OCR 40351

N0721 455th Minot [Air Force Base] July 1963 - January 1964

OCR 26200 SATAF [Site Activation Task Force] 455th 91st Minot and  
Whiteman [Air Force Bases]

OCR N0721 455th August 1963 285 - October 617 - November 854  
December 1018 January 64

Reel 26200 SATAF [Site Activation Task Force] 455th 91st Minot and  
Whiteman [Air Force Bases]

Reel N0721-A OCR 455th

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## 321st

3e6b2139df874d0c88169f5757363dbe [Garden Telegram (Kansas)  
Newspaper Page, February 12, 1963]

4eae4e4d25b34b30be630a64675dc7d1 [Unidentified Newspaper Page,  
February 13, 1963]

321st 1966 [Roll Number] N0396

321st April - June 1966; Supporting Documents Reel N0395A

321st July - September 1966 [Roll Number] N0396

321st July - September 1970, Exhibit 50 Page 396 OCR Reel N0400 Mom [?]  
Photos

321st July - September 1970, Reel N0400

321st July - December 1966 [Roll Number] N0396

321st LF [Launch Facility] Upgrade Wing VI and Squadron XX

321st October to December 1984 [Roll Number] 39734

321st SMW [Strategic Missile Wing] July 1966 to March 1967 [Roll Number]  
N0396

321st SMW [Strategic Missile Wing] July to September 1970 [Roll Number]  
N0399

321st SMW [Strategic Missile Wing] November 1964 to July September 1965  
N0394 [Role Number]

321st SMW [Strategic Missile Wing] OCR November 1964 to July September  
1965 [Roll Number] N0394

321st SMW [Strategic Missile Wing] October 1965 to Jun3 1966 [Roll Number]  
N0395

321st SMW [Strategic Missile Wing] October 1968 to June 1970 [Roll Number]  
N0399

FOIA [Freedom of Information Act] 2016-03514-F ["History of 321st Strategic  
Missile Wing, July - September 1968"]

July - September 1968, 321st [Strategic Missile Wing] Giant Boost Attempt  
and HEST [Roll Number] N0398A

OCR 321st [Strategic Missile Wing] November - December 1964, January, March, April, June, July, September 1965 [Roll Number] N0394

OCR 26200 SATAF [Site Activation Task Force] Minot and Whiteman [Air Force Bases]

OCR 321 July - September 1966 [Roll Number] N0396

OCR [Roll Number] N0395 321 October - December 1965; April - June 1966

OCR [Roll Number] N0396, October - December 1965, April - June 1966

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## 341st

### 341st and 564th newspaper articles

1adaabe380804ef3859d04540334103d [Independent Record newspaper, Helena, Montana, August 9, 1964]

5d114ba76aa64b44b131bde470fc7493 [Joplin News Herald newspaper, July 31, 1964]

9d6ab98205e2431cb1b606184eaf2ece [Unidentified Newspaper Page, No Date]

24104dbab4124f3e833c27d2801f34de [Columbus Daily Telegram; Columbus, Nebraska, July 31, 1964]

24104dbab4124f3e833c27d2801f34de [Columbus Daily Telegram; Columbus, Nebraska, July 31, 1964]

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c08ce7969b934815a9de10c90f85e940 [Columbus Daily Telegram; Columbus, Nebraska, July 31, 1964]

David Stumpf Article [Great Falls (Montana) Tribune, April 16, 1991]

e6ab8dbb53ce4ffd817f00a4d37d5f8a [Pacific Stars and Stripes, August 6, 1961]

ff482195380248beb62d5dc4e9da10de [Columbus Daily Telegram, Columbus, Nebraska, July 31, 1964]

Great\_Falls\_Tribune\_Thu\_\_Oct\_24\_\_1963\_

Great\_Falls\_Tribune\_Wed\_\_Mar\_10\_\_1965\_

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1969

## 341st Malmstrom MM IA IB data

Photographs

Malmstrom 1969 MM IA IB Data [341st Strategic Missile Wing and 341st  
Combat Support Group - 1 January - 31 March 1969]

341st extracted wing history on MMIA IB Malmstrom

341st January - July 1969; July September 1967

341st 68 to 70 N0433 [Document to Roll Index]

341st Missile Wing Heritage Pamphlet 2018

341st Oct 63 IRIS 456152 OCR [341st Strategic Missile Wing and 341st  
Combat Support Group, 1 thru 31 October 1963]341st REEL N0428 new Cuban Missile Crisis [341st Strategic Missile Wing  
and 341st Combat Support Group, 1 thru 31 May 1962]341st SMW [Strategic Missile Wing] Apr 61 to Apr 62 N0427 OCR 1306 High  
Climber [Project Report "High Climber", 15 January 1962]341st SMW [Strategic Missile Wing] Jul to Dec 88 Jan to June 89 43953  
[Volume 5 of 5 - Supporting Documents]

564th MS [Missile Squadron] Chronology

564th MS [Missile Squadron] Chronology

564th SMS [Strategic Missile Squadron] HAER [Historic American  
Engineering Record] MMI @ Malmstrom [Air Force Base]IRIS 919583 Collocated [Historical Report, Administrative History of Ballistic  
Systems Division, 1 July - 31 December 196?]

Malmstrom [Air Force Base] UFO

Norris Bulletin of Atomic Scientists ["The Cuban Missile Crisis: A Nuclear  
Order of Battle, October and November 1962" by Robert S. Norris and Hans  
M. Kristensen, Bulletin of the Atomic Scientists]OCR 21 Dec 62 Chronology of SAC and Cuban Missile Crisis ["Chronology of  
SAC Participation in the Cuban Missile Crisis"]

OCR 341st Jul Sep 64 456159 ["341st Strategic Missile Wing and 341st Combat Support Group, 1 Jul Thru 30 Sept 1964"]

OCR 341st May-Dec 1962 REEL N0428 new ["341st Strategic Missile Wing and 341st Combat Support Group, 1 Thru 31 May 1962"]

OCR 341st Oct 63 IRIS 456152 ["341st Strategic Missile Wing and 341st Combat Support Group, 1 Thru 31 October 1963"]

OCR 341st SMW Apr 61 to Apr 62 N0427 ["341st Strategic Missile Wing, April 1961 - April 1962" - document is faded]

OCR Malmstrom [Air Force Base] Yearbook [25th Anniversary Book]

Pages from 341st SMW Apr 61 to Apr 62 N0427 [Maps of 341st Strategic Missile Wing Squadron Locations]

Sam Goodwin Papers

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## 351st

351st Deactivation Plan

351st Giant Plow 1968 [January - March 1968]

351st Giant Plow Summary Report

351st SMW [Strategic Missile Wing] Oct to Dec 84 N0452

485008 SATAF [Site Activation Task Force] 351st

Jul to Dec 87 351st SMW [Strategic Missile Wing] Supporting Documents; Look at Later Pages for Battery Issues

OCR 351st Whiteman Yearbook

OCR July - September 1967 351st IRIS [computer database] 456315

OCR N0447 351st 1144 Whiteman June 1963 ["History of the 349th Military Airlift Wing"]

REEL 26200 SATAF [Site Activation Task Force] 351st Minot and Whiteman [Air Force Bases]

REEL N0449 351st ["History of the 351st Strategic Missile Wing (ICBM Minuteman) October - December 1964"]

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## 576th

576th LL [576th Fight Test Squadron Launch Register]

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## 3901st

3901st 62-63 OCR REEL 12474 ["History of the 3901st Strategic Missile Evaluation Squadron, January 1962"]

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## Autonetics

Autonetics Page 21-24 K2973 IRIS 486362 ["Semiannual Historical Report, Air Force Plant Representative's Office, North American Aviation, Inc. 1 January - 30 June 1961"]

REEL K2974 NAA Jan 68 to Dec 69 Autonetics January 1963 to December 1968 OCR ["History of the Air Force Plant Representative Office, North American Rockwell Corp/Los Angeles Division, Los Angeles, California. 1 January - 30 June 1968"]

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## Missile Wing Deployment Summary 20th Air Force

20th AF [Air Force] Missile Wing Deployment Data 1959-1967

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## Ogletree Timelines [Spreadsheets]

MM Wing I Timeline

MM Wing II Timeline

MM Wing III Timeline

MM Wing IV Timeline

## MM Wing V Timeline

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MM Wing VI Timeline

Vandenberg Timeline

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## SAMSO [Space and Missile Systems Organization]

SAMSO July 1978 to Sept 1979

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CD catalog 1 January 2020

CD Catalog 1 January 2020 [Spreadsheet]

MMI @ Malmstrom [Malmstrom Air Force Base, 546th Missile Squadron, HAER MT-138 (Minuteman III Missile Facilities) Great Falls Vicinity, Cascade County, Montana. Written Historical and Descriptive Data Field Notes]

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Box 8 Fd 7 Answers to Various Quest re CEBMCO - "Answers to Various Questions Concerning CEBMCO" - Memos, Reports, Correspondence 1959-1961

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Box 8 Fd 10 Problems in ICBM Base Constr 1960 - "Problems in ICBM Base Construction, 1960" - Memos, Correspondence, 1958-1963

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Box 7 Folder 12 Boeing Images - Photographs

Box 7 folder 12 index - "Minuteman - Aero-Space Division" [Index and  
photographs]

Box 7 Sect 1 a-g Cape Launches - Photographs

Box 7 Sect II test launches - Photograph

Box 7 Sect III Cape facility - Photographs

Box 7 Sect XII Auger - Photographs

Box 7 Sect XIII Minot - Photographs

Box 8 folder 1 Pusher - Photograph

Box 8 Folder 2 Auger - Photographs

Box 8 Folder 2 door fabrication - Photographs

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Box 8 Folder 6 MM briefings cover pages - "Minuteman Program Status  
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Box 8 folders 1-2 sample - Photographs

Box 9 f1 ECC turnover Nov 62 - "Ballistic Systems Division"; Chronology,  
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Box 9 f2 guidance computer problems page 23 - Memos, correspondence

Box 9 f3 notebook January-February 1961 - Notes, correspondence

Box 9 f4 March to April 1961 - Notes, research material

Box 9 f5 n 10 issues page 51 - Notes, correspondence

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Box 9 f7 siting page 4 through 10 - Memos, notes

Box 10 f1 explosion at Hercules - Notes

Box 11 f 6-rept boeing report GM 60-0000-04603 - Proposed missile production schedule

Box 11 folder 6 - Minuteman briefing notes

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General: IRISNUM - Main numerical document identifier used by the Air Force Historical Research Agency.

Binder1

Document Detail for IRISNUM= 00426013

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Therefore - [Notes on the Buddhist concept of the three vehicles -  
WordPerfect document]

Vehicles - "Vehicles, Scopes, Paths" [notes on the vehicles, scopes and paths  
in Buddhism from "Uttaratantra" - Word document]

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### March 22, 1959 - Cone Makes Successful Re-entry, Then Gets Lost \_ Chicago Tribune Archive\_files

Scope and Contents: This sub-series contains a number of downloaded files, web page code and elements, and web pages from the Chicago Tribune, which are not listed here. However, image files have been listed.

normal(1) - "Chicago Sunday Tribune" part 1, page 2, March 22, 1959

normal(2) - "Chicago Sunday Tribune" part 1, page 3, March 22, 1959

normal- "Chicago Sunday Tribune" front page, March 22, 1959

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## RVX-1 Reentry Vehicle\_files

Scope and Contents: This sub-series contains a number of downloaded files, web page code and elements, and web pages from Facebook, which are not listed here.

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9 - "RVX-1 Ablation", "Aviation Week", May 18, 1959 - "4 Years of USAF, G.E., Subcontractor re-entry vehicle progress" - General Electric Corporation Ad, "Aviation Week", May 18, 1959

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17 - Copy - Page of article on re-entry vehicles, "Aviation Week", July 18, 1960

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20 - Page of "Aviation Week" article, November 24, 1958

21 - "Heat Sink, Ablation Shields", "Aviation Week", September 7, 1959

22 - Page of "Aviation Week" article, no date

23 - Page of article - "Heat Sink, Ablation Shields", "Aviation Week", September 7, 1959

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## CEBMCO [Corps of Engineers Ballistic Missile Construction Office]

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OCR Box 9 Bd 3 Ellsworth Area Office MM Facilities History - "History of Minuteman Construction, Wing II, Ellsworth Area Engineer Office, U.S. Army, Corps of Engineers, 1 August 1961 - 31 August 1963" [PDF]

OCR Box 10 Bd 1 Grand Forks Area MM Const Wing IV, 1966 - "History of Grand Forks Area During Construction of Wing VI Minuteman II ICBM - United States Army Corps of Engineers, Ballistic Missile Construction Office" [PDF]

OCR Box 10 Bd 3 Malmstrom AFB WS133A MM Technical Facilities - "WS133A Minuteman Technical Facilities, Malmstrom Air Force Base, Great Falls, Montana, U.S. Army Corps of Engineers, Ballistic Missile Construction Office" [PDF]

OCR Box 10 Bd 5 History of Malmstrom Area during Const Coll Sq No 20, MM II ICBM 1966 - "History of Malmstrom Area During Construction of Collocated Squadron No. 20 Minuteman II ICBM Facilities - United States Army Corps of Engineers, Ballistic Missile Construction Office" [PDF]

OCR Box 11 Bd 1 Minot AFB Historical Rept Vol I - "WS-133A Minuteman Missile Facilities, Minot Air Force Base, Minot, North Dakota, Volume I [PDF]

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OCR Box 12 Bd 1 Warren Area MM History CEBMCO Rpt - "Warren Area Minuteman History, U.S. Army Corps of Engineers, Ballistic Missile Construction Office (CEBMCO)" [PDF]

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Box 1 Bd1 History of Eng Div and Pred Orgs 1955-1963 - "History of the Engineering Division and Predecessor Organizations Covering the Early U.S. Army Corps of Engineers Support to the U.S. Air Force in the Ballistic Missile Program (IRBM/ICBM), 1955-1963", United States Army Corps of Engineers Ballistic Missile Construction Office, Los Angeles 34, California [PDF]

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Box 4 Fd 8 ICBM IRBM Info & Corr Apr-Dec 1961 - "ICBM - CEBMCO - Info & Correspondence, Apr-Dec 1961" [PDF]

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Box 8 Fd 5 AF Ballst Missile Prog - "Air Force Ballistic Missile Program" - XVIII - 5 [PDF]

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Box 9 Fd 1 Evolution of ICBM Launcher 1961 - Drawing - "Evolution of ICBM Launcher" [PDF]

Box 9 Fd 1-1 Missile Age MM - "Missile Age Minutemen: A Salute Honoring the Army National Guard Air Defense Units, 1954-1974" Indiantown Gap Military Reservation, Annville, Pennsylvania, 14 September 1974 [PDF]

CEMBCO Warren Area History - "Warren Area Minuteman History", U.S. Army Corps of Engineers, Ballistic Missile Construction Office (CEBMC0) [PDF]

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Box 9 Bd 3 Ellsworth Area Office MM Facilities History - "History of Minuteman Construction, Wing II, Ellsworth Area Engineer Office, U.S. Army, Corps of Engineers, 1 August 1961 - 31 August 1963" [PDF]

Box 10 Bd 1 Grand Forks Area MM Const Wing VI, 1966 - "History of Grand Forks Area During Construction of Wing VI Minuteman II ICBM, Grand Forks Air Force Base, North Dakota, 1 May 1966" [PDF]

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443 Pages from 443 HAER drawings for nomination - "Ellsworth Air Force Base Delta Flight, Minuteman II ICBM" drawing [PDF]

443 Pages from 443 HAER drawings for nomination-2 - "Ellsworth Air Force Base Delta Flight, Launch Control Center" drawing [PDF]

"Ellsworth Air Force Base Delta Flight, Launch Control Center" drawing [JPG]

6390BCBE-1DD8-B71B-0BB7D6B637C3F5D4 - "Ellsworth Air Force Base, Delta Flight Minuteman II ICBM" missile and transporter drawing [JPG]

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Makeup air supply on LER2 - [Launch Facility air flow diagram, PNG]

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Pages from ocr 21M-LGM30F-2-28-1 Ancillary Mechanical Systems 0 - [Single page from manual T.O. 21M-LGM30F-2-28-1 - Figure 1-1 - "Actuating and Locking Mechanism"; PDF]

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~\$Center of Mass calc - [spreadsheet]

414501 - "Flight Test Missile Estimated Mass Data (F-180) - Boeing Components" [PDF]

1794133 - [Pages from "Engineering News-Record", February 5, 1959 - PDF]

1794454 - "Ground Shock and Missile Response" paper from "Shock and Structural Response" Colloquium at ASME Annual Meeting, November 30, 1960 [PDF]

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cover Page from study of shock isolation for hardened structures AD639303-2 - "Study of Shock Isolation for Hardened Structures", June 17, 1966; Agabian-Jacobsen Associates [single page; PDF]

DSC02163 - [Photograph - construction at silo site; JPG]

Gmail - RE\_ Missile suspension system - [Email from Mitch Cannon to David Stumpf, December 11, 2017]

missile support ring 2 - [Photographs; PDF]

missile support ring 3 - [Photographs - same as above; PDF]

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missile support ring - [Photographs - same as above; PDF]

mitch Pages from study of shock isolation for hardened structures AD639303 - [Pages from report on missile mount system for Minuteman Launch Facilities, PDF]

MM deployment and Mod Matrix - [Chart showing operational histories of Minuteman missile wings, PNG file]

mss IB 16 30 Pages from 21M-LGM30B-1-3 complete ocr-2 - [Page from manual T.O. 21M-LGM30B-1-3 showing cutaway view of missile silo and Missile Suspension System; PDF]

mss Pages from minuteman fam-2 - "Figure 50, Missile Suspension System (CDB)" [PDF]

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upper Pages from minuteman fam - [Drawing of Umbilical Connector and Umbilical Retractor" - PDF]

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## PAS - Penetration Aids System

CDB Gmail - RE\_ Cannot find - [Email between Mitch Cannon and David Stumpf, December 16, 2017 - PDF]

Gmail - RE\_ Need your opinion pah info - [Email between Mitch Cannon and David Stumpf, December 14, 2017 - PDF]

heavy door Pages from ocr 21M-LGM30F-2-19 Launch Facility Personnel Access System-5 - [Drawing showing lubrication points - PDF]

heavy primary door Pages from 21M-LGM30F-2-10-1 - [Cross section drawing of Launch Facility Personnel Access System - PDF]

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light pah Pages from ocr 21M-LGM30F-2-19 Launch Facility Personnel Access System - "Launch Facility Personnel Access System" - drawing [PDF]

New PAH and shaft with old PAH outline WgV As-Built p 71 - [Cross-section drawing of Personnel Access Hatch - GIF]

Pages from minuteman fam - [Cross-section drawing of Launch Facility Personnel Access System - PDF]

platform and new pas Gmail - RE\_ Cannot find - [Email between Mitch Cannon and David Stumpf, December 16, 2017 - PDF]

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## upgrade silo

Pages from 3 p 667 structures table II and III operational 341st SMW Jul Dec 88 Jan to June 89 43953 - [Drawings of upgrade silo modifications - PDF]

button up dei Pages from Box 9 f6 STL report CEP for RD print page24 - [Page of hand-written notes - "Actions and/or Agreements, SAC/ AR Stack/ DSMG, 10-13 1962" - PDF]

CDB LF LER floor and suspension - [Drawing of components of shock-isolated floor - GIF]

Gmail - RE\_ Saved up my questions - [Email between Mitch Cannon and David Stumpf, December 19, 2017 - PDF]

LCC ECS FO drawing from 21m-lgm30g-1-22 - [Schematic drawing - LCC Environmental Control System - PDF]

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LCEB ECS FO from 21m-lgm30g-1-22-2 - "FO-2. LCEB Environmental Control System (Typical)" [Schematic drawing - PDF]

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Oscar 01 Missile Alert Facility Documentation 8 - "Oscar-01 Missile Alert Facility (MAF)" [Cut-Away drawing, PDF]

Pages from 3 p 667 structures table II and III operational 341st SMW Jul Dec 88 Jan to June 89 43953 - [Cut-Away drawings of Launch Facility structures - PDF]

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Pages from Box 7 Sect XIII Minot - "Launch Control Facility" [Color cut-away illustration - PDF]

Pages from minuteman fam-4 - "Launch Control Facility (Typical)" [Cut-Away drawing - PDF]

Pages from MM Service News Issue 15-2 - "What's New for Minuteman II", Article in "Minuteman Service News" , July-August 1964 [PDF]

shock isolated floor Pages from ocr Wing V As Built Drwgs - "Launcher Facility, Launcher Equipment Room, First Level" - Construction drawing [PDF]

UMBILICAL DETAIL annotated - [Missile Silo illustration - JPG]

view of 1st stage nozzles - [Photograph of Minuteman Stage 1 exhaust nozzles - PDF]

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Wg VI, Sqd 20 LCC ECS from 21m-lgm30g-1-20-2 - "LCC Environmental Control System" [Schematic drawing - PDF]

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## malmstrom timeline

1 Pages from 0cr The Site Program 1961 and Supporting Documents - [History of construction of Minuteman launch facilities at Malmstrom AFB - PDF]



1 Pages from i 29 Dec 1960 Chronology Supplement III Nov 59 to Oct 60 ocr - [Page of timeline of deployment and flight tests of different ballistic missile types - PDF]

1 to sataf Pages from ocr SACMissileChronology\_1939-1988 - [1961-1962 timeline of Minuteman program - PDF]

2 Pages from 0cr The Site Program 1961 and Supporting Documents 2 - [History of construction of Minuteman launch facilities at Malmstrom AFB - PDF]

2 Pages from ocr SACMissileChronology\_1939-1988 - [Strategic Air Command (SAC) missile program chronology, 1961 - PDF]

3 Pages from ocr SACMissileChronology\_1939-1988 - [Strategic Air Command (SAC) missile program chronology, 1962 - PDF]

Binder1 - [Strategic Air Command (SAC) missile program chronology, 1959-1962 - PDF]

Pages from ocr Minuteman Chronology 1955-1961 ocr 1 - [Minuteman program chronology, July 1960 - PDF]

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Pages from ocr Minuteman Chronology 1955-1961 ocr-3 - [Minuteman program chronology, January 1960 - PDF]

Pages from ocr Minuteman Chronology 1955-1961 ocr-4 - [Minuteman program chronology, December 1959 - PDF]

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Minuteman Illustrated Technical Requirements - "Minuteman Illustrated Technical Requirements (Selected Non-Figure A) List-Depot D2-31384-1 [PDF]

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COE CEBMCO [Corps of Engineers; Corps of Engineers Ballistic Missile Construction Office]

20180131\_212124 - [Page of Minuteman chronology, 1963 - JPG]

Ellsworth - [Launch facility construction photographs - PDF]

Grand Forks - [Launch facility construction photographs - PDF]

Invoice #Stu-5 (1) - [Invoice for photocopies, 2018 - Word file]

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Minot - [Launch facility construction photographs - PDF]

Warren - [Launch facility construction photographs - PDF]

Whiteman - [Launch facility construction photographs - PDF]

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### Construction from Lib Cong [Library of Congress]

203352pu - [Construction photograph - TIF]

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203354pu - [Construction photograph - TIF]

203356pu - [Construction photograph - TIF]

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### MIL Images Box 97

Box 9 Fd 1 Evolution of ICBM Launcher 1961 - [Drawings of Atlas D, Atlas E, Atlas F, Titan II, Minuteman launchers - PDF]

Box 9 Fd 1-1 Missile Age MM - "Missile Age Minutemen: A Salute Honoring the Army National Guard Air Defense Units, 1954-1974" [Booklet - PDF]

Ellsworth AFB MM Site - [Minuteman site construction photographs - PDF]

ICBM Data and Reference - [Miscellaneous drawings and charts - PDF]

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2-19\_1 - "Leading Particulars (Sheet 1 of 2)" - [Table - PDF]

2-19\_2 - "Leading Particulars (Sheet 1 of 2)" - [Table - PDF]

1000th missile - [Launch site photograph - PDF]

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A - [Photograph of Launch Tube installation - "150th Launch Tube, Minuteman Facilities... Dec. 4, 1964 - JPG]

aafm wing vi mss const207 - [Construction photograph, no date - PDF]

AD495905 - "Project Hindsight: Final Report - October 1969 (Date collected  
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AD705460 - "Wind Effects on Launch Vehicles - The Advisory Group for  
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ADA399822 - "Microelectronics in Space Research - August 1965. NASA,  
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ADA581016 - "Inertial Navigation Sensors", Neil M. Barbour, Charles Stark  
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blast doorbLaunchControlCenterRebarWithBlastDoor - [Construction  
photograph, no date - JPG]

BlastDoorWithRebarCloseUp - [Construction photograph, no date - JPG]

Box 11 Bd 2 Minot AFB Historical Rept Vol II - "Minot Area Historical Report -  
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cable 485008v - [Photograph of cable connections - PDF]

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