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National Air and Space Museum

Radar Collection [Blom]

Sarah LeClaire

2023

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Collection Overview

Repository:	National Air and Space Museum Archives
Title:	Radar Collection [Blom]
Date:	1940s-2000s
Identifier:	NASM.2024.0005
Extent:	8.77 Cubic feet (24 containers (22 letter boxes, 2 flat boxes))
Language:	English , German .
Summary:	The Radar Collection [Blom] consists of approximately 9 cubic feet of maintenance guides for radar systems, wartime equipment catalogs and guides, periodicals, photographs and audio/visual materials.

Administrative Information

Acquisition Information

Heather Ramos, Gift, 2023, NASM.2024.0005

Processing Information

Arranged, described, and encoded by Sarah LeClaire, 2023.

Preferred Citation

Radar Collection [Blom], Acc. NASM.2024.0005, National Air and Space Museum, Smithsonian Institution.

Restrictions

No restrictions on access

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Biographical / Historical

Jacob Michael Blom (1944--2023) was born in Amsterdam and emigrated to the United States in 1952. From an early age, Blom had a keen interest in science and attended the Neward College of Engineering. In 1966, he graduated with a Bachelor of Science degree in Electrical Engineering. According to his family, he spent countless happy hours in his 3,500 square foot workshop, which was filled with radar sets, navigation equipment, countermeasures equipment, radar test equipment, many spare parts and over a thousand original equipment manuals and other reference materials which he began collecting in 1960. He was also a Senior Vice President of the Mitre Corporation. Mr. Blom passed away in 2023.

Scope and Contents

This collection consists of approximately 9 cubic feet consists of Western Electric maintenance guides for radar systems, wartime equipment catalogs and guides, periodicals, photographs and audio/visual materials.

Arrangement

This collection is organized into five series according to material type:

Series 1: Technical Manuals, Handbooks and Catalogs, 1942-1995

Series 2: Other Publications and Miscellaneous, 1940-2006

Series 3: Photographs and Negatives, 1940s, 1950s and undated

Series 4: Oversize, 1945

Series 5: Audiovisual, undated

Names and Subject Terms

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

Subjects:

- Aeronautics
- Radar
- Radar in aeronautics
- United States Navy -- 20th century

Container Listing

Series 1: Technical Manuals, Handbooks and Catalogs, 1942-1995

Box 1, Folder 1	Military Standardization Handbook of United States Radar Equipment. MIL-HDBK-162B, FSC 5840 5841, Volume 1 of 2, 15 December 1965 (1 of 3)
Box 1, Folder 2	Military Standardization Handbook of United States Radar Equipment. MIL-HDBK-162B, FSC 5840 5841, Volume 1 of 2, 15 December 1965 (2 of 3)
Box 1, Folder 3	Military Standardization Handbook of United States Radar Equipment. MIL-HDBK-162B, FSC 5840 5841, Volume 1 of 2, 15 December 1965 (3 of 3)
Box 1, Folder 4	Military Standardization Handbook of United States Radar Equipment. MIL-HDBK-162B, FSC 5840 5841, Volume 1, Section 2, Airborne Radar Equipment, 15 December 1965 (1 of 2)
Box 1, Folder 5	Military Standardization Handbook of United States Radar Equipment. MIL-HDBK-162B, FSC 5840 5841, Volume 1, Section 2, Airborne Radar Equipment, 15 December 1965 (2 of 2)
Box 1, Folder 6	Military Standardization Handbook of United States Radar Equipment. MIL-HDBK-162B, FSC 5840 5841, Volume 1, Section 2, Shipborne Radar Equipment, 15 December 1965 (1 of 3)
Box 2, Folder 1	Military Standardization Handbook of United States Radar Equipment. MIL-HDBK-162B, FSC 5840 5841, Volume 1, Section 2, Shipborne Radar Equipment, 15 December 1965 (2 of 3)
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Box 2, Folder 3	Military Standardization Handbook of United States Radar Equipment. MIL-HDBK-162B, FSC 5840 5841, Volume 1 of 2, 15 December 1973 (1 of 4)
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Box 2, Folder 5	Military Standardization Handbook of United States Radar Equipment. MIL-HDBK-162B, FSC 5840 5841, Volume 1 of 2, 15 December 1973 (3 of 4)
Box 2, Folder 6	Military Standardization Handbook of United States Radar Equipment. MIL-HDBK-162B, FSC 5840 5841, Volume 1 of 2, 15 December 1973 (4 of 4)

Box 3, Folder 1	Military Handbook: Electron Tubes, Cross Index and Type Identification, MIL-HDBK-213A, 5 November 1963
Box 3, Folder 2	Catalog of Equipment Developed by Radio Research Laboratory, Harvard University, 1942
Box 3, Folder 3	Glossary of German Aeronautical Codes, Models, Project Numbers, Abbreviations, Etc. Final Edition, 1947 (1 of 2)
Box 3, Folder 4	Glossary of German Aeronautical Codes, Models, Project Numbers, Abbreviations, Etc. Final Edition, 1947 (2 of 2)
Box 3, Folder 5	Supplement Number 1 to the List of Naval Electronic Equipment, NAVSHIPS 900,123-1, CO-NAVER 16-45-511, 1949
Box 3, Folder 6	Radiation Laboratory, Massachusetts Institute of Technology. Roof Group Regular Report on the Navy Dirigible K-3, Section R, Reports V-4, December 10, 1941
Box 3, Folder 7	Survey of German Radar from the Countermeasures Point of View, Radio Research Laboratory, OEMr-411, 411-95, September 4, 1944
Box 3, Folder 8	List of Naval Radio, Radar and Sonar Equipment, Arranged by Navy Model Letters, Ships 242A, January 1945
Box 4, Folder 1	Catalog of Electronic Equipment, NAVSHIPS 900,116, Supplement 5, Volume 1 of 3, AN/Equipment, SC 3585 A, Bureau of Ships, Navy Department, 1 October 1952 (1 of 3)
Box 4, Folder 2	Catalog of Electronic Equipment, NAVSHIPS 900,116, Supplement 5, Volume 1 of 3, AN/Equipment, SC 3585 A, Bureau of Ships, Navy Department, 1 October 1952 (2 of 3)
Box 4, Folder 3	Catalog of Electronic Equipment, NAVSHIPS 900,116, Supplement 5, Volume 1 of 3, AN/Equipment, SC 3585 A, Bureau of Ships, Navy Department, 1 October 1952 (3 of 3)
Box 4, Folder 4	Catalog of Electronic Equipment, NAVSHIPS 900,116, Volume 2 of 3, B Series Through R Series, SC 3585 A, Bureau of Ships, Navy Department, 1 October 1952 (1 of 2)
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Box 4, Folder 6	Catalog of Electronic Equipment, NAVSHIPS 900,116, Volume 3 of 3, S Series Through Miscellaneous, SC 3585 A, Bureau of Ships, Navy Department, 1 October 1952 (1 of 2)

Box 5, Folder 1	Catalog of Electronic Equipment, NAVSHIPS 900,116, Volume 3 of 3, S Series Through Miscellaneous, SC 3585 A, Bureau of Ships, Navy Department, 1 October 1952 (2 of 2)
Box 5, Folder 2	U.S. Radar Survey, Section 1, Airborne Radar, Change 1, December 15, 1944 (1 of 2)
Box 5, Folder 3	U.S. Radar Survey, Section 1, Airborne Radar, Change 1, December 15, 1944 (2 of 2)
Box 5, Folder 4	U.S. Radar Survey, Section 2, Shipborne Radar, Change 1, April 1, 1945
Box 5, Folder 5	U.S. Radar Survey, Section 3, Ground Radar, Change 1, June 1, 1945 (1 of 2)
Box 5, Folder 6	U.S. Radar Survey, Section 3, Ground Radar, Change 1, June 1, 1945 (2 of 2)
Box 6, Folder 1	U.S. Radar Survey, Section 4, Navigational Radar, Change 1, June 15, 1945
Box 6, Folder 2; Box 25	U.S. Radar Survey, Section 6, Test Equipment, Change 1, May 15, 1945 (1 of 2) Notes: Original text is housed in Rare Manuscripts Room in box 25.
Box 6, Folder 3; Box 25	U.S. Radar Survey, Section 6, Test Equipment, Change 1, May 15, 1945 (2 of 2)
Box 6, Folder 4	U.S. Radar Survey, Section 7, Nomenclature Index, Change 1, December 15, 1944
Box 6, Folder 5	Westinghouse in World War 2, Radio and X-ray Divisions, Book 1, October 1946
Box 6, Folder 6	Westinghouse in World War 2, Radio and X-ray Divisions, Book 2, October 1946
Box 6, Folder 7	Westinghouse in World War 2, Radio and X-ray Divisions, Book 3, October 1946
Box 7, Folder 1	Document Digest for the Period July 8, 1942 to December 31, 1945, OEMsr-411 (1 of 3)
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Box 7, Folder 3	Document Digest for the Period July 8, 1942 to December 31, 1945, OEMsr-411 (3 of 3)
Box 7, Folder 4	Armed Forces Cross Index of Electron Tube Types, Section 16-820, 1st Edition, August 1950
Box 7, Folder 5	Vacuum-Tube Complements of Signal Equipment and Test Data, T.O. 08-1-25, 4 October 1944

Box 7, Folder 6	Catalogue of Electron Tube Types Used by the Navy, NAVSHIPS 900,075, 1945
Box 7, Folder 7	Antenna Catalog, Volume 3, Ship Antennas, AFCRC-TR-60-134(III), October 1960 (1 of 2)
Box 7, Folder 8	Antenna Catalog, Volume 3, Ship Antennas, AFCRC-TR-60-134(III), October 1960 (2 of 2)
Box 8, Folder 1	War Department Technical Manual, Signal Communication Equipment Directory, Radio Communication Equipment, 10 April 1944, TM11-227
Box 8, Folder 2	Systems Test of the Models ASG and XASG Radar Equipment, Navy Department, NRL Report No. R-2045, BuShips Prob. X54C, 6 April 1945
Box 8, Folder 3	Aircraft Radio Equipment (Class 16 Cards, Cordage and Cable with Associated Plugs, Connectors, Etc.), T.O. Number 16-50-12, 20 July 1944
Box 8, Folder 4	Handbook of Radiation Characteristics of Selected U.S. Equipment in the U.S. Pacific Fleet
Box 8, Folder 5	Directory of Radar Equipment, Section 1 of 5, NAVSHIPS 0967-420-0020, June 1970 (1 of 2)
Box 8, Folder 6	Directory of Radar Equipment, Section 1 of 5, NAVSHIPS 0967-420-0020, June 1970 (2 of 2)
Box 8, Folder 7	Directory of Radar Equipment, Section 2 of 5, NAVSHIPS 0967-420-0020, June 1970 (1 of 2)
Box 8, Folder 8	Directory of Radar Equipment, Section 2 of 5, NAVSHIPS 0967-420-0020, June 1970 (2 of 2)
Box 9, Folder 1	Directory of Radar Equipment, Section 3 of 5, NAVSHIPS 0967-420-0020, June 1970 (1 of 2)
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Box 9, Folder 4	Directory of Radar Equipment, Section 4 of 5, NAVSHIPS 0967-420-0020, June 1970 (2 of 2)
Box 9, Folder 5	Directory of Radar Equipment, Section 5 of 5, NAVSHIPS 0967-420-0020, June 1970 (1 of 2)

Box 9, Folder 6	Directory of Radar Equipment, Section 5 of 5, NAVSHIPS 0967-420-0020, June 1970 (2 of 2)
Box 10, Folder 1	Electronic Special Research Division, Rocket-Sonde Research Section, Preliminary Instruction Book for Airborne Antenna Pattern Recorder, 25 March 1946
Box 10, Folder 2	Nomenclature List for Bureau of Aeronautics, Aircraft Electronic Equipment, CO-NAVAER 08-5Q-227, 1 February 1944
Box 10, Folder 3	Radar: A Report on Science at War, 1945
Box 10, Folder 4	Historic Valve Exhibit Catalogue
Box 10, Folder 5	Cross Index of Electron Tube Types, NAVSHIPS 900,119, 4th Edition, April 1946
Box 10, Folder 6	Radar Test Equipment: Application, Description and Performance Characteristics, TM11-1200, 11 April 1945
Box 10, Folder 7	Western Electric Company, Radio Division Bulletin, AN/APQ-7 System, GF-2.3974, January 26, 1945 (1 of 2)
Box 10, Folder 8	Western Electric Company, Radio Division Bulletin, AN/APQ-7 System, GF-2.3974, January 26, 1945 (2 of 2)
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Box 11, Folder 1	Western Electric Company, Radio Division Bulletin, Field Modification Notes, AN/APQ-5 Indicator Equipment, GF-2.3970, August 25, 1944 (1 of 2)
Box 11, Folder 2	Western Electric Company, Radio Division Bulletin, Field Modification Notes, AN/APQ-5 Indicator Equipment, GF-2.3970, August 25, 1944 (2 of 2)
Box 11, Folder 3	Western Electric Company, Radio Division Bulletin, Checklist for AN/APQ-13 System, GF-2.3973, August 28, 1944 (1 of 2)
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Box 12, Folder 4	Western Electric Company, Radio Division Bulletin, Checklist and and Filing Arrangement, First Volume, August 15, 1942 (1 of 5)
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Box 17, Folder 2	Western Electric Company, Radio Division Bulletin, AN/TPS-IB System, September 10, 1945 (2 of 2)
Box 17, Folder 3	Report on M4000 Antennas, Radio Research Laboratory, Harvard University, 411-291, January 3, 1946
Box 17, Folder 4	M6302 Skirted-Stub Antenna, Radio Research Laboratory, Harvard University, 411-120, September 28, 1945
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Box 18, Folder 1	Radio-Research Instrument Co., Inc Catalog, Reference Guide 673
Box 18, Folder 2	[German Kriegsmarine Data] Röhren Lampen, NA 710 000 bis Na 729 999, Ausgabe Oktober 1942
Box 18, Folder 3	[German] Handbuch der Wehrmact-Röhren, 1995
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Box 18, Folder 7	Method of Testing IFF Equipment
Box 18, Folder 8	Navy Radar, BUSHIPS Code 820, May 1954
Box 18, Folder 9	Requisition and Shipping Ticket (Domestic), 1945
Box 19, Folder 1	Transcript of interview with Charles H. Townes by Frederik Nebeker, September 14 and 15, 1992, University of California, Berkeley
Box 19, Folder 2	Under the Radar: Physics, Engineering, and the Distortion of a World War Two Legacy by Raphael Chayim Rosen, Harvard University, March 2--6
Box 19, Folder 3	Flight Plan and Control Record
Box 19, Folder 4	The War History of the Radio Branch, Report No. ERA-141, National Research Council of Canada
Box 19, Folder 5	Cavity Magnetron Information
Box 19, Folder 6	Radar Log
Box 19, Folder 7	Radar Rays, 1944-1946
Box 19, Folder 8	Wave Guides
Box 19, Folder 9	Sperry Engineering Review, part 1, Winter 1962
Box 19, Folder 10	Digest of Airborne Radio and Radar News, June 25, 1944
Box 19, Folder 11	Digest of Airborne Radio and Radar News, February 10, 1945
Box 20, Folder 1	Technicians' War: A Picture Story of Naval Air Technical Command
Box 20, Folder 2	Radar for Carrier-Based Planes, October 1946 (2 copies)
Box 20, Folder 3	Radar, April 1944
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Box 20, Folder 9	BUSHIPS Electron, January-June 1950
Box 20, Folder 10	BUSHIPS Electron, December 1951
Box 21, Box 1	BUSHIPS Electron. January, March, April, May 1952
Box 21, Folder 2	Bureau of Ships Journal, May, August, September, October 1952
Box 21, Folder 3	Five Years at the Radiation Laboratory, Massachusetts Institute of Technology, 1946

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Box 23, Folder 3	USS Canberra, CAG-2, December 8, 1956
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Box 23, Folder 6	USS Canberra, CAG-2, August 1956
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Box 23, Folder 9	Radar, SPS-6C
Box 23, Folder 10	Radar, AN/SPS-29
Box 23, Folder 11	Radar, SPS-37A
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Series 4: Oversize, 1945

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Computation book of Ensign Paul E. Green, Jr. of M.I.T.

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Series 5: Audiovisual Material, undated

Scope and Contents: This series consists of a 16 mm film. The National Air and Space Museum Archives staff can assist you regarding access to this media.

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