

J. Russell Clark Collection History of Aviation Collection

Biographical Sketch

John Russell Clark (1908-1986) was born in Rockport, Massachusetts on September 21, 1908. He attended the Massachusetts Institute of Technology and graduated in 1929 with a B.S. degree in Aeronautical Engineering. His long and distinguished professional career in the field of aviation began in 1929 with his employment as a structural design and test engineer at Berliner-Joyce Aircraft. In 1930 Clark married Dorothy Virginia Auger of Weymouth, MA. The couple had three children: John Russell; Mary A. (Mrs. Richard Ryder, Jr.); and Dorothy A. (Mrs. Allan E. Kemp).

In 1935 Clark joined United Aircraft Corporation where he worked on flying boats as a project engineer and designer for the Sikorsky Aircraft Division. He worked closely with Igor Sikorsky as Chief Project Engineer in developing the first successful helicopter, the VS-300, in 1939. After moving to the Chance Vought Aircraft Division of United, Clark became Chief Project Engineer for the famous F4U Corsair fighter. Other important projects he developed for Vought include the F8U Crusader, the A-7 Corsair II, the XC-142, and the Scout Missile.

Clark was not only a gifted designer and engineer, but also an effective executive who served LTV in many capacities: as head of the Vought Astronautics Division; as head of the Vought Aeronautics Division; as Senior Vice President—Technical; as a private consultant; and as a member of the board of directors. Clark's expertise also was recognized and utilized through his service on numerous committees for the United States government, such as the U.S. Air Force Scientific Advisory Board and the Committee on Major Acquisitions for the U.S. Commission for Government Procurement.

For over fifty years, John Russell Clark dedicated his many and varied talents to the advancement of the field of aviation. He received well-deserved recognition for his many significant contributions. He was an elected fellow of the American Institute of Aeronautics and Astronautics as well as a life member of the Navy League. Clark was honored by the National Aeronautic Association with their Elder Statesmen of Aviation Award and by the U.S. Air Force with the Meritorious Civilian Service Award. He was internationally known in the aerospace community for his expertise as a multi-talented aircraft designer and executive.

Provenance

The documents comprising the J. Russell Clark collection were donated with all literary rights to the University of Texas at Dallas Library, History of Aviation Collection in 1992 by Dorothy V. Clark, the widow of J. Russell Clark. The collection is composed of J. Russell Clark's personal papers and his own collection of aviation reference material.

Note to the Researcher

Most of the monographs and periodicals in the J. Russell Clark collection were removed and processed with materials of like format in order to provide researchers better access to them.

Scope and Contents

The J. Russell Clark Collection is composed of 31 linear feet of documents which are housed in 76 archival boxes. The approximate inclusive dates range from the 1920's, when Clark was studying engineering at MIT, to 1986, the year of his death.

The three main subject headings used in arranging the material relate to Clark's activities in government, in industry, and in the private sector. Subheadings are utilized to provide more specific access. Because of the large volume of material under the Vought subheading, many subseries were needed. Under most subheadings, documents were arranged chronologically.

Much of the material in the J. Russell Clark Collection was generated by Clark or by his associates during the course of conducting business in the aerospace companies for which Clark worked. It includes both administrative records and documentation of specific projects. Other records were gathered by Clark for his personal reference collection on aerospace topics of particular interest to him; these are mainly in the form of clippings, publications, and reports.

The J. Russell Clark Collection can be used as a source of information for many aspects of the history of the aerospace industry from the 1920's to the 1980's, particularly with regard to military aircraft. The collection documents the development of both broad trends and specific innovations with unique, primary source documents.

Box 1

1 Legislative History of the Commission on Government

Procurement 1969

Considerations of Aerospace Plane Systems Concept 1966

Report of the USAF Scientific Advisory Board Aerospace Vehicles Panel 1968

Report of the USAF Scientific Advisory Board Aerospace Vehicles Panel on Prototypes, Hypersonic Technology and Research Aircraft 1968

2 Report of the USAF Scientific Advisory Board Ad Hoc Committee on the C-5A 1970

Processing Affects Fracture Toughness 1970

Fourth Incremental Report of the F-111 ad hoc Committee 1970

Science Advisory Boards: Bargain or Boondoggle? 1970

USAF Scientific Advisory Board ad hoc Committee Mtg. 1970

- Miscellaneous correspondence
- 3 Two copies of "Defense Acquisition Study" 1970
- 4 Photograph of USAF Scientific Advisory Board 1971
- NDT Review of Engine and Accessory Manufacturers 1970
Report to the Joint Economic Committee Congress 1971
of the United States
- Proposals to Establish the Calendar Year as the Fiscal 1971
Year for the United States Government
- 5 Draft report on the work of Study Group 12 1971
- 6 Commission on Government Procurement Research 1971
and Development Study Group
- Report to the Congress - Acquisition of Major 1971
Weapon Systems
- Guidelines for Preparation of Study Group Final Report 1971
- MSA - SG #12 1971
- Members of Public Science Advisory Boards 1971

Box 2

- 1 Government Procurement Under the Microscope 1971
- Report - Laser Applications 1971
- Consolidated List of Study Group Charters 1971
- Instruction to Study Groups for Commission Briefings 1971
on Study Group Reports
- Abstracts from interviews with officials in the Department
Of Defense
- Special Report on Major System Acquisitions 1971

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| 2 | Continuation of Special Report, Chapter 3-4 | 1971 |
| 3 | Continuation of Special Report, Chapter 4-6 | 1971 |
| 4 | Continuation of Special Report, Chapter 7-8 | 1971 |
| | USAF Scientific Advisory Board Ad Hoc Committee
on the F-111 Final Report | 1971 |
| | USAF Scientific Advisory Board Ad Hoc Committee
On the F-111 on Lessons Learned from the F-111
Structural Experience | 1971 |
| | Presentation Commission on Government Procurement
the Major Systems Acquisition Group (MSA) - No. 12 | 1971 |
| 5 | Final Rpt Study Grp #12 Major Systems Acquisition, V.I | 1972 |

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| 1 | Final Rpt Study Grp #12 Major Systems Acquisition, VII | 1972 |
| 2 | Final Rpt Study Grp #12 Major Systems Acquisition, VIII
Guidelines for Project Planning | 1972
1972 |
| 3 | Report of the Commission on Government Procurement,
V. I | 1972 |
| 4 | Report of the Commission on Government Procurement,
V. II | 1972 |
| 5 | Report of the Commission on Government Procurement,
V. III | 1972 |

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| 1 | Report of the Commission on Government Procurement,
V. IV | 1972 |
| 2 | Report of the Commission on Government Procurement,
Index - Bibliography - Acronyms | 1972 |

- 3 MSA - SG #12, Part I - Background
Presentation Major Systems Acquisition Study Group #12, 1972
Report in divided in two parts.
- 4 Presentation Major Systems Acquisition Study Group #12, 1972
Part 2.
- 5 Report of Task Force on Reducing Costs of Defense 1973
Systems Acquisition

Report - Building Confidence in Weapons Systems 1973

Acquisition - The Role of General Accounting Office
SAE Aerospace Council of the SAE Technical Board 1973

Joint Design-to-Cost Guide - A Conceptual Approach 1973
for Major Weapon System Acquisition
- 6 Report - F-4 DAG Structures Committee Mailing Addresses 1973

Report - On Fatigue Analysis and Testing for the Design 1973
of the Airframe

Report - Residual Stress-Fatigue Analysis 1973

Box 5

- 1 Agenda items for F-4 DAG Structures Committee Planned 1974
Meeting at MCAIR, St. Louis

Third Report of the F-4 Structures Committee Division 1974
Advisory Group Aeronautical Systems Division
- 2 Executive Branch Action on Recommendations of the 1974
Commission on Government Procurement: Progress
Status, Responsiveness

Third Report of the F-4 Structures Committee Division 1974
Advisory Group Aeronautical Systems Division
- 3 Vehicle Performance and Cost Tradeoffs for Reduced Fuel
Consumption

Report - Life Cycle Cost Estimating - Its Status and 1974

- Potential Use in Major Weapon System Acquisitions
- 4 Executive Branch Action on Recommendations of the Commission on Government Procurement 1975
- Final Report of the F-4 Structures Committee
- 5 Report to the Congress - Office of Federal Procurement 1975
- Executive Branch Actions on Recommendation of the Commission on Government Procurement 1975
- Periodical - *Government Executive* 1976

Box 6

- 1 Congressional Research Service, V/Stol Developments Background and Status of Navy/Marine Corps Vertical and Short Take-off and Landing Aircraft Programs, First half in this folder 1978
- 2 Second half of Congressional Research Service Report to the Congress, Legislative Recommendations of the Commission on Government Procurement: 5 Yrs. Later 1978
- Report to the Congress, Recommendations of the Commission on the Government Procurement: A Final Assessment
- 3 Proposal for a Uniform Federal Procurement System 1981
- 4 Proposal for a Uniform Federal Procurement System 1982
- The Federal Acquisition Institute is Moving to the New Executive Office Building 1982
- Report, Regeneratively Cooled Turbine
- 5 Photographs of airplane parts
- Citation to Accompany the Award of the Meritorious Civilian Service Award 1966-74
- The F/RF-4 Aircraft Structural Integrity Program (ASIP)

Slides for overhead projector of Report, Commission on
Government Procurement Major Systems Acquisition

Box 7

- 1 AIAA Paper, No. 70-601, Application of Fracture Mechanics to the Estimation of Fatigue Life 1970

AIAA paper, No. 70-512, AIAA/ASME 11th Structures Structural Dynamics, and Materials Conference 1970

AIAA paper, No. 70-884, AIAA 2nd Aircraft Design and Operations Meeting 1970

Recommendations for Development of Major Defense Systems DODD 5000.X 1973

Two copies: Major DOD Procurements at War with Reality 1970

Federal Procurement Principles 1971

Evolution of the F-4 Phantom 1971

Journal of Aircraft 1971
- 2 Federal Procurement Processes, The Marketing Concept and the Congressional Procurement Report n.d.

Pamphlet: Government Competition with Industry

Monopsony, A Fundamental Problem in Government Procurement 1973

Trends in Government Contracting, Growth of Intramural Activity 1974
- 3 N.A.C.A. Report, Report No. 180, Deflection of Beams with Special Reference to Shear Deformations 1924

Report No. 434, Glider Construction and Design 1927

Report No. 436, Approximation Method for Determining the Static Stability of a Monoplane Glider 1927
- 4 Report No. 307, Strength of Tubing Under Combined 1929

- and Transverse Loading
- Report No. 527, Metal Construction Development 1929
- Report No. 528, Metal Construction Development 1929
- 5 Report No. 526, Metal Construction Development 1929
 Report No. 343, Strength in Shear of Thin Curved Sheets of Alclad 1930
- Report No. 595, English Airplane Construction 1930
- Report No. 597, Riveting in Metal Airplane Construction 1930
- 6 Report No. 347, A Method of Calculating the Ultimate Strength of Continuous Beams 1930
- Report No. 397, The Aerodynamic Characteristics of Six Commonly Used Airfoils Over a Large Range of Positive and Negative Angles of Attack 1931
- Report No. 382, Elastic Instability of Members Having Sections Common in Aircraft Construction 1931
- Report No. 408, General Formulas and Charts for the Calculation of Airplane Performance 1932
- Report No. 444, Working Charts for the Stress Analysis of Elliptic Rings 1933
- Report No. 455, Comparison of Three Methods for Calculating the Compressive Strength of Flat and Slightly Curved Sheet and Stiffener Combinations 1933
- 7 Report No. 470, The N.A.C.A. Tank a High-Speed Towing Basin for Testing Models of Seaplane Floats 1933
- Report No. 484, A Method of Calculating the Performance of Controllable Propellers with Sample Computations 1934
- Report No. 509, Tank Tests of Flat and V-Bottom Planing Surfaces 1934
- Report No. 509, General Equations for the Stress Analysis of rings 1934

Report No. 530, Bending Stresses Due to Torsion in 1935
Cantilever Box Beams

Box 8

- 1 Report No. 534, Principal Effects of Axial Load on 1935
Moment-Distribution Analysis of Rigid Structures
- Report No. 508, Analysis of 2-Spar Cantilever Wings 1935
with Special Reference to Torsion and Load Transference
- Report No. 562, Remarks on the Elastic Axis of Shell 1936
Wings
- Forty-Third Annual Report of the National Advisory 1957
Committee for Aeronautics
- 2 Index to U.S. Army Air Service Information Circulars 1920
Nos. 1-100, Vol. 1
- Air Service Information Circular, Design of Large 1922
Trussed Ribs
- Index to U.S. Army Air Service Information Circulars, 1922
Nos. 101-200
- Index to U.S. Army Air Service Information Circulars, 1922
Nos. 201-300
- Index to U.S. Army Air Service Information Circulars, 1924
Nos. 301-400
- Speed and Ceiling of U.S. Army Airships 1924
- The Investigation of Structural Members Under Combined 1924
- Axial and Transverse Loads, Section I
Application of the Method of Least Work to Redundant 1925
Structures
- Investigation of Structural Members Under 1925
- Combined Axial and Transverse Loads, Section II

	Comparison of Tests on Experimental 15-inch Metal	1926
	Spars and 11-foot Chord Metal Wing Ribs, Part 1 and 2 Strength of Bent Struts	1926
	Static Test of Consolidated Aircraft Company's PT-1 Airplane	1926
	Critical Loading of Structural Members Subjected to Combined Axial and Transverse Loads	1926
	Wind Tunnel Tests of DH-4B Model Fitted With Various Fins and Rudders	1927
	Design of Tapered Internally Braced Wings	1927
	Determination of Stresses in Landing Gears and	1927
	Design of Shock Absorbing Units, Part I	
3	The Computation of Truss Deflections by the Method of Elastic Weights	1928
	(2) Tests on 6-1/4 inch Metal Spars	1928
	(3) Supplementary Report on Tests of 6-1/4 inch Metal Spars	1929
	Static Test of the XHB-3 Experimental Three-Spar Monoplane Wing Structure Built by Keystone Aircraft Corporation	1928
	Design of Trussed Metal Spars for Single Bay Airplanes	1928
	Application of the Least Work Method to the Evaluation of Initial and Temperature Stresses	1929
	Static Test and Determination of the Elastic Axis of the (Materiel Division) Improved Stressed Skin Type Glider Wing	1930
	Miscellaneous Collected Airplane Structural Design	1930
	Data Formulas, and Methods	
	Determination of the Elastic Axis and Natural Periods of Vibration of the Atlantic C-2A Monoplane Wing	1930

- Test of Armstrong-Whitworth Steel Spars Under Combined Axial and Transverse Loading 1930
- Test of Armstrong-Whitworth Steel Spars Under Combined Axial and Transverse Loading 1930
- 4 (2) Static-Test and Stress-Distribution Studies of the Materiel Division 55-foot Cantilever All-Metal Wing 1931
- Weight Estimate of Cantilever Monoplane Wings of Corrugated Aluminum Alloy Box-Type Construction for Pursuit, Attack, Twin-Engined Observation and Transport Airplanes Allowable Shear from Combined Bending and Torsion in Round, Elliptical, and Streamlined Tubes and Allowable Normal Stress from Bending in Thin Walled Tubes 1931 1932
- An Investigation of the Stress Distribution Due to Bending and Torque in the Boeing XP-9 Semi-Monocoque Fuselage 1934
- An Investigation of Available Information on the Strength Properties of Reinforced Skin Construction 1934
- An Investigation of the Compressive Strength Properties of Stainless Steel Sheet-Stringer Combinations 1934
- 5 Air Corps Technical Report No. 4313, Progress Report on Methods of Analysis Applicable to Monocoque Aircraft Structures 1937
- 6 Proceedings Before the Committee on Science and Astronautics U.S. House of Representatives, No. 1 1968
- Hearings Before the Subcommittee on Economy in Government of the Joint Economic Committee Congress of the United States in 1968

Box 9

- 1 An Act to Establish a Commission on Government Procurement 1969
- House of Representatives Report No. 92-6181971
- Hearings Before the Committee on Armed Services 1973

- United States Senate Ninety-Third Congress S.1263
- 2 An Act to Improve the Operation of the Legislative Branch of the Federal Government, and for other purposes 1970
- Report of the Committee on Rules and Administration to Accompany H.R. 10243, Calendar No. 1066 1972
- Hearings Before the Subcommittee on Federal Spending Practices, Efficiency, and Open Government of the Committee on Government Operations 1975
- Department of the Army Office of the Chief of Research & Development, Information for Industry 1968
- Design and Operation of United States Combat Aircraft Memorandum: Reduction of Design Control Procedures 1942
- U.S. Army Fact Sheets, Nos. 10 - 17 1969
- Air-to-Air Combat Analysis & Simulation Symposium 1972
- 3 Supplement to the Air Force Policy Letter for Commanders Remarks of Brigadier General Kenneth R. Chapman 1974
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A Summary of Lessons Learned From Air Force Management Surveys 1963
- Analysis of Digital Flight Control Systems with Flying Qualities Applications, Volume I - Executive Summary 1979
- The Four Freedoms of the Air Force 1952
- Selected Acquisition Report 1973
- 4 Photographs/Negative
Berliner Joyce Aircraft Corporation Structures 1929
- Department Examination
- Newspaper article: Aircraft Company Here Will Merge
- Report: The Story of an Aircraft Company Berliner Joyce n.d.
The Berliner Aircraft Company Report 1928

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| | Navy Two-Seater Observation - XOJ - 1 Determination of Centers of Buoyancy and Lines of Flotation Main and Wing Tip Floats | 1929 |
| | Report: Navy Two-Seater Observation XOJ - 1 Landing Gear Analysis | 1929 |
| 5 | Emergency Flotation Gear Calculations U.S. Navy Two Seater Observation Airplane Model - XOJ - 1 | 1930 |
| | B/J Wind Tunnel Tests on Model of XOJ - 1 Airplane Equipped with Zap Flaps and Ailerons | 1932 |
| | Performance Estimate U.S. Navy XOJ - 1 Two-Seater Observation | 1930 |
| 6 | Photograph: Berliner Joyce OJ - 2 | n.d. |
| | Military Observation Airplane Model OJ-2 | 1933 |
| | B-J Aircraft Corporation/Navy Two-Seater Observation | 1933 |

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| 1 | Report No. 157, Final Actual Weight and Balance U.S. Navy Single Seat Fighter Airplane Model XFJ-1 | 1930 |
| | Report No. 303, Navy Two-Seater Fighter XF2J-1 Landing Gear Analysis | 1932 |
| 2 | XOJ - 3 Wing Structural Diagram | 1933 |
| | Photographs: Landing Gear Drop Tests | 1934 |
| | Diagram: YIP-16 Fuselage | 1931 |
| 3 | Army Two-Seater Pursuit YIP-16 Fuselage Analysis Part 1. | 1931 |
| 4 | Army Two-Seater Pursuit YIP-16 Fuselage Analysis Appendix A | 1931 |
| 5 | Report No. 93, Tests on Experimental Duralumin Wing Beam Sections, (XP-16) | 1929 |

- Report No. 18, Two-Place Commercial Monoplane 1929
B/J-29-1 Wing Analysis
- 6 Report No. 219, Basic Weight and Balance Estimate 1931
U.S. Army Two Seater Pursuit Airplanes Model YIP-16
- Report No. 113, Performance of XP-16 Equipped with 1929
Slots and Flaps
- General Arrangement View XP-16
- 7 Elements of Detail Design
Aircraft Materials Testing Report , Part 1 1932

Box 11

- 1 Report No. 572, Three Place - Ground Force Observation 1935
Model GA-15 Analysis of Tail Group and Tail Fittings
- Report: The Analysis of Continuous Frameworks
Part II - Appendix I - Part C, Derivation of Elastic
Equations for Redundant Forces at the Elastic Center
- 2 Article: Rockwell News, Aviation History Made on a 1978
Street Corner
- Serial No. 401, Loads in Frames of a Monocoupe 1933
Fuselage Considered as a Tension Field Beam
- Report: A General Procedure for the Determination 1933
of the Required Actual and Flight Strengths for Airplanes
- Report No. 501, Estimated Weight & Balance Report 1934
XOJ-3 Seaplanes
- Report No. 401, Loads in Frames of a Monocoque Fuselage 1933
Considered as a Tension Field Beam
- Memorandum on the Calculation of the Terminal Velocity
of an Airplane in a Vertical Dive
- 3 Report No. 365, Development of GA-43A Wing Spar 1933

- 4 General Aviation Manufacturing Corporation, 1933
Serial No. 365, Photographs
- 5 Report No. NA-2, Army Basic Training Model NA-16 1935
Design Air Loads - Terminal Velocity - V-G Diagram
- 6 Report No. 568, Design of Wing Structure, Part I - 1935
Design of Outer Panel, Part II - Design of Center Section
Model XO Airplane Class Three Place Ground Force
Observation
- 7 Continuation of material in folder no. 6

Box 12

- 1 Table of Wing Section Properties
- 2 Photographs: Vought-Sikorsky VS-300

Correspondence between Igor Sikorsky and J.R. Clark 1964-72

Igor I. Sikorsky: A Brief Biography

Igor Sikorsky: *A Personal Remembrance* by Frank Delear 1973

Igor Sikorsky: Recollections of a Pioneer

Time Magazine: Article on Igor Sikorsky 1953

Igor Sikorsky - His Three Careers in Aviation, J.R. Clark
referenced on p. 183

Obituary DMN, Patriarch of Aviation, Igor Sikorsky 1972
- 3 Photographs: Sikorsky VS-300 helicopter
- 4 NY Herald Tribune Newspaper article: Helicopters are 1939 Coming, Ushering in
a New Day in Man's Conquest of the Air Article: The Sikorsky helicopter Article:
Computer Technology in Aerospace
- 5 Photographs: "Pop" Reichert's Testimonial

Newspaper: The Sikorsky News 1959

Article: The Helicopter History of Sikorsky Aircraft

- Article: Dawson Assumes Sikorsky Post
- Magazines: Engineering Opportunities, Igor Sikorsky 1969
- Article: Helicopter Technological Progress 1974
- 6 Magazine: Vertiflite, An American Helicopter Society Pub. 1984
- Report: Vought-Sikorsky Aircraft, Structural Analysis 1940
Rotating Wing Aircraft Model VS-311
- Report: Helicopter Technological Accomplishments 1972
by R.B. Lightfoot
- 7 Sikorsky VS-300 Drawings

Box 13

- 1 Photograph
Drawing: Helicopter VS-1003
- 2 Article: The Bee-Hive, Igor Sikorsky Looks Into the Future 1935
- Hauptversammlung der Lilienthal-Gesellschaft 1938
- Igor Sikorsky: Das Grobflugboot (The Large Flying Boat)
- Article: Igor Sikorsky, Science and the Future of Aviation 1938
- Article: Sikorsky Flying Boats by Ralph B. Lightfoot 1976
- Article: The Sikorsky S-39, A Very good airplane at a very 1962
bad time
- Article: Air Force Museum
- Article: Sikorsky Twin Engined Amphibian Plane Type S-38
Model 1928
- Article: The Sikorsky S-40 1983
- Brochure: Sikorsky Aircraft 1938

- Article: The Bee-Hive, Sikorsky Builds Biggest Patrol Bomber for U.S. Navy 1937
- Newspaper article: Navy's New Flying Dreadnought 1937
- Drawings: NR-440
- Drawing: Sikorsky Convertible Amphibion
- Drawing: Basic Dimensions Horizontal Tail Surfaces
- S-X-100-1, Brief Preliminary Study of a Six Engine Transoceanic Flying Boat of 100 Tons 1936
- 3 Report: Observation-Liaison Short Range Airplane 1939
- Engineering Data For Preliminary Design Report No. A-27 Aerodynamic Data
- Report: A New and Very Ingenious Method for Structural Analysis of Box Spars by K. Bossart
- Newspaper article: World's Longest Range Commercial Air. 1942
- 4 Drafting Room Manual Sikorsky Aircraft 1938
- Newspaper article: Spruce Goose seaplane commissioned by Howard Hughes during WWII 1983
- 5 Report: Preliminary Demonstrations XPBS-1 Airplane 1937
- Report No. N53-Part I, Hull Analysis, Design Loads 1937
- 6 Part 2 of Report No. N53-I

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- 1 Part 3 of Report No. N53-I
- 2 Drawings: Sikorsky Flying Boats XPBS-1 n.d.
- 3 Drawings: Sikorsky Flying Boats XPBS-1 n.d.
- 4 Report No. N53-3, Hull Analysis-Design of Bulkheads, Part 1 1937

5 Part 2 of Report No. N53-3.

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1 Report N58, Pressure Tests Hull Bottom Plate - Stringer Combinations 1936

Report: Aerodynamic Analysis of Class VP Patrol Flying Boat, Sikorsky Design No. 1 n.d.

Report No. 3329, Application of Effective Width Method to Curved Sheet panels 1936

2 Report No. N53-4, Hull Analysis - Miscellaneous Hull Tests, Tests and Miscellaneous Data 1937

3 (2) Structural Design Data 1941

Newspaper: The Chance Vought News 1943

Telephone Directory: Chance Vought Aircraft 1945

Report: Discuss Principles of Seating in Fighter Aircraft 1946

Chance Vought Aircraft performance Report 1949

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4 Structural Design Data booklet 1951

Chance Vought Aircraft Engineering booklet
Chance Vought Aircraft Restricted material 1952

Newspaper: Chance Vought News 1954

Pictorial Report United Aircraft Corporation 1956

Newspaper Cartoon
Chance Vought Aircraft Annual Meeting of Stockholders 1956

Article: Group Weight Statement 1964

- Report: A Simple Method for Satellite Mechanics 1958
 Technical Memorandum, Characteristics of Orbits for Earth Satellites 1958
- Newspapers: DMN, DTH, Chance Vought Articles 1959
- 5 Newspaper: DMN, Ling-Temco, Vought 1961
- Personal Correspondence 1961
- LB Johnson Visit 1962
- Executive Bulletin 1962
- Chance Vought Corporation, V-461-VAL Attack 1963
- Airplane Competition -Recommendations
- Newspaper: DMN, LTV Article 1963
- Vought Astronautics Division of LTV, "State of the Union at Mid Year" 1963
- 6 Vought Photographs
- LTV, Status and Future 1964
- LTV, Executive Bulletin, Program Management 1964
- Various LTV reports 1964
- Article: "Forbes" Jim Ling's Unmerger 1965
- Blueprint: New Construction-NWIRP 1968-1972
- Magazine: "Newsweek", Jim Ling The Merger King 1967
- 7 Photograph: Engrg. Trainee Banquet 1967
- Magazine: Business Week: LTV Blitzes its way into ranks of giants 1967
- Photograph: IBM Executive's Computer Concepts Course 1968
- LTV-Quick Call Directory 1968

Box 17

- 1 Federal Register, Title 10, Atomic Energy 1962
DMN Articles regarding restructuring of LTV 1970
Correspondence, Vought Administration 1970
- 2 Vought Administration, Summary Index 1970
- 3 Vought Administration Correspondence and Reports 1971
- 4 Vought Administration Correspondence and Reports 1972
- 5 Vought Administration Correspondence and Reports 1973
- 6 Vought Administration Correspondence and Reports 1972-73
- 7 Vought Administration Correspondence and Reports 1974
Summary and Analysis of Test Results for Low Speed 1974
Wind Tunnel Test 435 Canard Configuration Study Model (Part 1)

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- 1 Continuation of Configuration Study Model (Part 2)
Evaluation of Single and Twin Engine Aircraft Peacetime
Attrition 1974

Single/Twin Engine Tactical Aircraft Safety Study

Personal Correspondence
- 2 Report: Optimized high lift wing design 1975
Departmental correspondence

Report: Resource strategy committee thinkpiece
- 3 Report: Task description for PTB 1975
Departmental correspondence

- LTV's Flight from Bankruptcy
- 4 Departmental Correspondence 1976
 - 5 Strategy - Forward March - Departmental 1976
 - 6 Strategy - Forward March - Program Management 1976
Report: Advisory Board - Business Acquisition and 1976
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- 1 Departmental Correspondence 1976
An Approach to Technical and Marketing - Actions and 1976
Interface to Establish - Win- Sustain New Systems Programs
- 2 Departmental Correspondence 1976
- 3 Departmental Correspondence 1976
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- 1 Report: Miniature System Validation Phase 1977
Proposal Management using the Modular Technique 1977
- 2 Departmental Correspondence 1977
Various reports/Research Technology
- 3 Departmental Correspondence 1978
- 4 GSRS Program Status 1978

- Departmental Correspondence 1978
- 5 Strategic Plan, 1980-1989/94
- 6 Departmental Correspondence 1979
Anatomy of Vought Corporation MLRS WIN

Box 21

- 1 Report: Technical Writing Procedures
- 2 Modern Engineering Methods in Aircraft Preliminary Design
- 3 Modern Approach to Advanced Design for Minimum Risk with Advanced Technology
- 4 Leadman's Manual
Engine Cycle/Airplane Parametric Study
- 5 Vought Administration Photographs
- 6 United Aircraft & Transport Corporation/1st Annual Rpt.
Report Vought-Sikorsky Aircraft, Notes on Cooling Power-Aircraft Engines
- 7 Introductory Notes on Supersonic Aerodynamics
Annual Reports: Chance Vought Aircraft

Box 22

- 1 Annual Report to Stockholders 1957-59
Chance-Vought Aircraft Missiles, Facilities and Management Capabilities
- 2 The United Aircraft Story 1958
Midyear Report to Shareholder 1960
Notice of Annual Meeting of Stockholders 1960
Ling-Temco-Vought Annual Reports 1964-65

- LTV Project Redeployment Press Kit, Parts 1-2 1965
- 3 LTV Project Redeployment Press Kit, Parts 3-9 1965
- LTV Telephone Directory 1965
- 4 LTV Annual Report 1966
- Report of the Navy Industrial Management Review 1966
- 5 LTV Annual Report 1967
- Aerospace Marketing Meeting 1968
- Vought Aeronautics Division Profit Plan 1968
- 6 Vought Aeronautics Division Off Site Planning Conference 1968
- 7 LTV Annual Reports 1968
- LTV Five-Year Plan/Posture Analysis, pp 1-1--3-3 1969/73

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- 1 LTV Five-Year Plan/Posture Analysis, pp 4-1--10-2 1969-73
- LTV Annual Reports 1969
- 2 LTV World Outlook Domestic and International Trends 1969
- 3 LTV Annual Report 1969
- Vought Aeronautics Division Summary Operating Results 1969
- 4 Vought Aeronautics Division Report 1969
- LTV Annual Report 1970
- Vought Aeronautics Corporation Prospectus 1970
- 5 LTV World Outlook, Domestic and International Trends 1971-75
- Selected Acquisition Report, P-3C 1971

- Report: Impact of Simulation on Carrier Aviation 1971
- 6 Annual Report 1971
- Maintenance Digest 1972,74,76
- Report: Conduct of Research and Development 1973
- LTV Annual Report to Employees 1973-74
- 7 Preliminary - Final Report Management Advisory Comm. 1976

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- 1 Departmental Correspondence 1975
- Manufacturing Operations, pp 1 - 48 1976
- 2 Manufacturing Operations, pp 49 - 181... 1976
- 3 Vought Corporation, Financial Statement 1977
- Vought Offsite Strategy Conference 1977
- 4 Proposal Planning Guidelines 1977
- 5 Baseline Proposal for Human Engineering Program Plan 1977
- 6 Baseline Proposal for EMP/EMI Control Plan 1977
- 7 Baseline Proposal for Reliability Program Plan 1977

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- 1 Baseline Proposal for Systems Engineering 1978
(Technical Program Plan)
- 2 Baseline Proposal for Survivability/Vulnerability 1977
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- 3 Functional Department Cost Estimate Uniform Guidelines 1977

- 4 Baseline Proposal for Production Control Plan 1977
- 5 Baseline Proposal for Quality Program Plan 1977
- 6 Baseline Proposal for Design To Cost/Life Cycle 1978
Cost Program Plan
- 7 POW/Modular Proposal Technique Optimized For Vought 1978 Program Plan
(Technical Program Plan)

Box 26

- 1 Baseline Proposal for Maintainability Program Plan 1978
Guidance AD HOC Study Results 1978
- 2 Vought Business Acquisition System Study Report 1979
Executive Memorandum 1978
- 3 Vought GSRS/Maturation R&D Proposal, V. 2, pp 1-1--1-146 1979
- 4 Vought/GSRS/Maturation R&D Proposal, pp 1-147--7-14 1979
- 5 Vought Business Acquisition System Study Report 1979
- 6 Vought/Lethality, Guidance and Control Technology Plan 1979

Box 27

- 1 Vought/Severe Weather Operational Technology Program 1979
Vought/Win Strategy General Guidelines 1979
1980-84 Development Plan/Offsite Conference Debriefing 1979
- 2 1980-84 Development Plan, pp 1-1--4-106 1979
- 3 1980-84 Development Plan, pp 4-107--END 1979
- 4 Vought Technology Plan, Vol. 1, 1980-1984, pp1-1--2-179 1979
- 5 Vought Technology Plan, Vol. 1, 1980-1984, pp2-181--END 1979

- 6 Vought Technology Plan, Vol. 2, 1980-1984, pp3-1--3-284 1979
- 7 Vought Technology Plan, Vol. 2, 1980-1984, pp3-285--4-203 1979

Box 28

- 1 First Quarterly Program Review Maturation Phase 1980
- 2 Publication: Chance Vought Aircraft LTV Annual Report 1982
Publication: Wherever Man Flies
Chance Vought Aircraft/Tomorrow's Engineering nd
Publication: Vought an LTV Company
- 3 LTV/A New Company nd
Introduction of New and Advanced Technology nd
Publication: Vought Aeronautics Division nd
- 4 The Chance Vought News 1948-65
- 5 LTV News 1966-76
- 6 Vought Corporation PROFILE 1977-84
- 7 LTV PROFILE 1984-85

Box 29

- 1 LTV PROFILE 1985-1986
- 2 LTV PROFILE 1986-1992
- 3 Organizational Charts 1952-1965
- 4 Organizational Charts 1966-1974
- 5 Organizational Charts 1975-1980

- 6 Organizational Charts 1980-1984
- 7 Vought Airplanes nd
Over 50 Years of Aviation 1971
Chance Vought Aircraft Today and yesterday nd
Vought PROFILE 1976
Publication: Sixty Years of Vought nd
- 8 A Short History of Vought Aeronautics nd
United Aircraft & Transport Corporation 1929

Box 30

- 1 Chance Vought Move nd
The Bee-Hive United Aircraft Corporation 1948
Chance Vought News, Special Edition
Chance Vought Edition, The Grand Prairie Texan 1948
Chance Vought News, 1948
- 2 Publication: The Time Factor in Developing Air Power
LTV Aerospace Corporation Capabilities and Experience nd
- 3 Publication: The Spirit of Lindbergh 1967
Vought Airplanes
Vought Projects: General nd
- 4 Publication: Weight and Design Data Handbook 1968
Fighter/Attack Aircraft
Vought Aeronautics Division 1968

- | | | |
|---|--|------|
| 5 | Weight and Design Data Handbook Cargo/Transport Aircraft | 1968 |
| 6 | Section 2/Group Weight Statements Cargo/Transport Aircraft | 1961 |
| 7 | Photographs: Vought Projects Fixed Wing VE-7 - VO | |
| 8 | Photographs: Vought Projects Fixed Wing FU - O2U-1 | |

Box 31

- | | | |
|---|---|---------|
| 1 | Vought Projects Fixed Wing O2U-2 - O2U-3 | |
| | Report: Preliminary Weight Estimate Stainless Steel Pontoon, O2U - Mark III | 1930 |
| 2 | Vought Projects Fixed Wing O2U-4 - O3U-3 | |
| 3 | Vought Projects Fixed Wing O3U-4 - SU-4 | |
| 4 | Vought Projects Fixed Wing XSBU-1 - XSB3U-1 | |
| 5 | Vought Projects Fixed Wing XGS2U-1 - XF4U-1 | |
| 6 | Vought Projects Fixed Wing XF4U-1
XF4U-1 Detail Specification 1944 | |
| 7 | Vought Projects Fixed Wing XF4U-1 | |
| 8 | Vought Projects Fixed Wing XF4U-1 | |
| 9 | Vought Projects Fixed Wing F4U | 1941-43 |

Box 32

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|---|--------------------------------|-----------|
| 1 | Vought Projects Fixed Wing F4U | 1944 |
| 2 | Vought Projects Fixed Wing F4U | 1945-46 |
| 3 | Vought Projects Fixed Wing F4U | 1947-1981 |
| 4 | Vought Projects Fixed Wing F4U | 1969-1986 |

- 5 Vought Projects Fixed Wing XF6U V-340 1943-44
- 6 Vought Projects Fixed Wing XF6U V-340 1944
- 7 Vought Projects Fixed Wing XF6U 1945-48
- 8 Vought Projects Fixed Wing XF7U 1946

Box 33

- 1 Vought Projects Fixed Wing XF7U 1946
- 2 Vought Projects Fixed Wing XF7U 1946
- 3 Vought Projects Fixed Wing XF7U 1946
- 4 Vought Projects Fixed Wing XF7U 1946-51
- 5 Vought Projects Fixed Wing XF7U 1955-83
- 6 Vought Projects Fixed Wing XF8U 1952
- 7 Vought Projects Fixed Wing XF8U 1953

Box 34

- 1 Report No. 8700, Standard Aircraft Characteristics 1953
V-383 Day Fighter

Report No. 8704, Stability and Control and 1953
Estimated Flying Qualities, Part 1
- 2 Report No. 8704, Part 2 and Report No. 8705, Stability 1953
and Control and Estimated Flying Qualities, Part 1
- 3 Report No. 8705, Part 2 and Report No. 8706-A, Model 1953
XF8U-1, Inlet Duet Performance Report
- 4 Report No. 8703, Performance Data 1953
- 5 Report No. 8702, Performance Data 1953

6 Report No. 8708, Estimated Weight and Balance 1953

Box 35

1 2 photographs of Wyman C. Josephs and Russell Clark
and F8U Navy Fighter

Brochures regarding F8U Navy Fighter 1957

1 copy of *Flight Magazine* 1957

I.A.S. National Naval Aviation Meeting 1957

Design and Development of the Chance Vought F8U-1 Crusader

2 Booklet: Crusader Two-Position Wing 1957
Newspaper article: F8U-1

National Geographic Magazine 1959

Blueprint: Inboard Profile of F8U-1

Photograph: J. Russell Clark and Pilot, John Konrad 1962

One copy of LTV News 1962

Speech by J. Russell Clark, Considerations of Service 1966

Loads and Life For Navy Airplanes - F8 Experiences

3 Consideration of Service Loads and Service Life For 1966
Navy Airplanes - F-8 Experiences, 2 copies

Memorandum for all Flag Officers, A-7E Operational 1971
Information

Crusader Fighter Report, Oct, Nov, Dec. 1969

4 Crusader Fighter Report, Jan, Feb, Mar, Apr 1970

The Hook, Summer 1979

Correspondence 1979-83

- Brochure: RF-8K
- 5 Vought Projects Fixed Wing F8U nd
- 6 Vought Projects Fixed Wing A-7 1963-66

Box 36

- 1 Correspondence and reports on Fixed wing A-7 1967-69
- 2 Correspondence 1970
- Report: A-7E Corsair II 1971
- Report: Advanced A-7 (Navy) 1971
- 3 *V-535 Nightstriker* 1979
- A-7D Nav/Weapon Delivery System* 1971
- Memorandums and correspondence 1971-73
- Pamphlet: The A-7D in Combat nd
- Correspondence 1974
- 4 *Armed Forced Journal International* 1975
- Report: Development of an A-7D Advanced Composite 1975
- Outer Wing For Production and In-Service Experience
Blueprint Model 1600A/1600A-1 1975
- Status/Advanced Composite Production Service/
Experience Program 1976
- 5 Proprietary CILOP/The A-7 with Two F404 Engines 1977
for the 1980 Decade, April & July Reports
- U.S. Tacair Issue 1977
- 6 Proprietary CILOP/The A-7 for the 1980 Decade 1977

- Report: Advanced Concepts Group Report No. VA7-1 1977
Aviation Week and Space Technology 1977
- 7 Vought Report No. 2-51700/8R-6176/A-7E Stores Info. 1978
 Memorandum/Tandem Wing/ATC Laminarization 1978
 Combined Configuration
- Vought Report No. 2-30400/9R-52152, Model A-7E 1979
 Actual Weight and Balance Aircraft USN Serial No.
 160739 (Vought No. 572)

Box 37

- 1 Propulsion Group Lubricating and Fuel Systems 1979
- 2 *Profile* 1984
 Vought Aeronautics Division and the A-7 Programs nd
 Pamphlets, A-7E Corsair II and F100-PW-100 nd
 Report: F100/F401 is the Cost Effective A-7 Power Plant nd
 Blueprint: A-7D Airplane
- 3 Pamphlet: A-7D Light Attack Airplane nd
 Article by Captain Thomas G. Ryan re: A-7D 1972
 Report: A-7E Navigation/Weapon Delivery System nd
 Two Reports: A-7D Tactical Fighter nd
 Report: The Air Force A-7D A Classic in its Own Time nd
- 4 Report: Development, Testing, and Production of the nd
 A-7A Light Attack Weapons System
Corsair II Attack Report, Vol. 3, #10-11 1969
Corsair II Attack Report, Vol 4, #1-4 1970

- 5 *A-7D Tactical Fighter Report*, Vols.1&2, #1-4 1969-1970
A-7D Tactical Fighter Report, Vol. 8, #3, Vol. 11, #1

Box 38

- 1 Agreement of Understanding between LTV Aerospace 1966
 for its LTV Vought Aeronautics Division and Lockheed

 Aircraft Corporation for its Division Lockheed- California Co.
 V507 "Rough Order of Magnitude" 1968

 Method of Determining Prices for Varying Lot Quantities nd

 Departmental Correspondence 1968

 Three photographs of Avions Marcel Dassault 1967

 Aviation Magazine nd
- 2 VFX Pricing, V-507B Configuration 1968

 Departmental Correspondence 1968
- 3 *Space/Aeronautics*, Article: Tactical Air Superiority 1968

 Handwritten notes belonging to Clark on the Config VFX 1968

 Report: Avionics, Armament & Engine Tradeoffs nd

 Special Agreement between Dassault International and 1968
 LTV Aerospace Corporation

 Report: VFX Wing Package proposal CALAC vs VAD nd

 Report: LTVAC-Dassault Agreements 1968

 Handwritten notes belonging to Clark on the VSX nd

 Lockheed/LTV/Univac Management Meeting 1968
- 4 VFX Mockup and Display Area 1968

- 5 Report No. 2-50000/8R-1A, Vought Model V-507 and
Conference with Professor Courtland 1968
- 6 VSX Selling Prices - Telephone Discussion 1969
Technical Debriefing of VFX 1969

CVA 59 A/C Elevator Compatibility Study

Box 39

- 1 Vought Projects Fixed Wing VFX and
- 2 Pentagon FX Presentation 1968

NASA debriefing comments relative to the VFX-1 1970

Powerplant Analysis

Highlights of Dassault - LTA Agreement on 1970

Co-operation re: Interchange, Tactical Aircraft

Know-how - VFX Program

Correspondence 1968

Memorandum 1968, 70
- 3 Report: International Fighter Aircraft 1970

Box 40

Prints of spacecraft, Kennedy Space Flight Center

Prints of aeroplanes

Plans, sketches of aircraft

Box 41

Plans, sketches of aircraft

The Charles Stark Draper Laboratory Report

Vought Calendar 1947

Magazine in parts, *The Sportsman Pilot* 1940

United Technologies Report, A Most Reliable Booster System

Album, 33-1/3, Camera Three Conversations with Editors 1965
of Scientific American

Blueprints: Aircraft

Album, Presented in Commemoration of the First Manned
Lunar Landing Mission, Apollo 11 1969

Box 42

1-5 TA-7 1978

6 TA-7 1978-80

Box 43

1 TA-7 1981

2 TA-7 1981-84

3 VFAX (F-18) 1973-74

4-6 VFAX 1974

Box 44

1-6 VFAX 1975

Box 45

- 1-3 VFAX 1975
- 4 VFAX 1975
- 5 VFAX, Protest 1967-73
- 6 VFAX, Protest 1973-74

Box 46

- 1 VFAX, Protest 1974-75
 - 2 VFAX, Protest 1975
 - 3 VFAX, Protest 1976-83
- Vought Subcontracts Boeing 747
- SST

Box 47

- 1-4 SST
- 5-6 North American Rockwell B-1, 1970
Includes records regarding weight control studies

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- 1-7 B-1

Box 49

- 1-6 B-1B 1980
- 7 Vought projects, other missiles and space 1959-1965

Box 50

- 1 Missiles and space 1968-74
- 2 Missiles and space 1974-76
- 3 Missiles and space 1976-78
- 4 Missiles and space 1978
- 5 Missiles and space 1978-79
- 6 Missiles and space 1979

Box 51

- 1-2 GSRS/MLRS (The Soldier's System)
- 3 Lance
- 4-5 LEM (Lunar Excursion Module)
- 6 Regulus I & II; Scout
- 7 Scout

Box 52

- 1 Scout
- 2 SLCM
Missiles and space; clippings and publications
- 3-7 Missiles and space: clippings and publications
AIAA (American Institute of Aeronautics and Astronautics)

Box 53

- 1 AIAA
- 2-6 Miscellaneous clippings and publications

Box 54

- 1-7 Miscellaneous clippings and publications

Box 55

- 1-4 Miscellaneous clippings and publications
- 5 V/STOL, (XF5U) 1934-73
General and specific records concerning vertical and short take off aircraft, including those manufactured by other companies

Box 56

- 1 V/STOL 1940-47
- 2 V/STOL 1947
- 3 V/STOL 1948
- 4 V/STOL 1949
- 5 V/STOL 1951-52
- 6 V/STOL 1956-65

Box 57

- 1 V/STOL 1956-67
- 2-3 V/STOL 1967
- 4 V/STOL 1967-68

5 V/STOL 1968-69

6 V/STOL 1969

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1-2 V/STOL 1969

3 V/STOL 1970-71

4-6 V/STOL 1972

Box 59

1-3 V/STOL 1972

4 V/STOL 1972-73

5 V/STOL 1973-74

6 V/STOL 1974-75

Box 60

1-3 V/STOL 1975

4 V/STOL 1976

5-7 V/STOL 1977 (V/STOL "A")

Box 61 & 62

V/STOL 1977

Box 63

1-4 V/STOL 1977

5-7 V/STOL 1978

Box 64

1-3 V/STOL 1978

4 V/STOL 1978-85

5-7 V/STOL n.d.

Box 65

1-5 V/STOL n.d.

6 Vought Projects, miscellaneous

7 Airtrans

Box 66

1 Land vehicles

2 Underwater vehicles

Research collection of J.R. Clark

Literature pertaining to areas of interest to Clark, including records of the projects of various aerospace companies: brochures; clippings; journals; reports

3 Research collection 1920-30

4 Research collection 1940

5 Research collection 1950-60

6 Research collection 1960

- 7 Research collection 1960-70
Includes information on hydrofoil boats

Box 67

- 1-6 Research Collection 1970

Box 68

- 1 Research collection 1980
- 2 Research collection n.d.
- 3 Aircraft Includes collection of photographs dating 1910-27 and clippings, arranged approximately chronologically.
- 4-6 Aircraft
- 7 Lockheed VSX proposal and summary

Box 69

- 1-3 Engineering design
- 4-7 Engines

Box 70

- 1 Fiber optics
- 2 Hydraulics
- 3 Lighter Than Air
- 4-6 Management research and development

Box 71

- 1-3 Military aircraft
J.R. Clark –Personal
- 4 Clark – includes photographs (some aerial) taken 1927-30
by Clark at summer ROTC at Mitchel Field, NY., most
depicting activities and aircraft: Bellanca; Boeing; Curtiss; Ford
- 5 J.R. Clark-personal 1929-39
Clark's job search correspondence with various
aerospace companies regarding potential career positions
- 6 Clark-personal 1935-42
Records from Clark's teaching at the Bridgeport Engrg. Institute
- 7 Clark-personal 1934-48
Clark's collection of newspaper clippings on significant
events of WWII

Box 72

- 1 Clark-personal 1952
Includes photographs and documents with detailed
descriptions of aircraft from Clark's trip to the Society of
British Aircraft Constructors Flying Display and Exhibition in England
- 2 Clark-personal 1956-68
- 3 Clark-personal 1970-72
Includes film of Clark's LTC retirement party
- 4 Clark-personal 1972-85
Includes documents regarding Clark's LTV retirement party
- 5 Clark-personal n.d.
Photographs of employee groups; Clark portraits, short film
without sound
- 6 Awards/Includes Elder Statesmen of Aviation (Nat'l Aeronautic
Association) and Fellow of the American Institute of Aeronautics
& Astronautics (AIAA)
- 7 Biographies; Resumes; vitae
- 8 Biographies: Includes section of autobiographical manuscript

Box 73

- 1-7 Education/Records from Clark's courses at MIT: drawings; notes; publications' reports

Box 74

- 1-2 Education/Records from Clark's courses at MIT: drawings; notes; publications; reports
- 3-4 Inventions/Correspondence; drawings; patent applications; photographs, including designs for the XFASM-4
- 5 Organizations/The Tailhook Association; 4-C's
- 6 Speeches/notes; slides; transcripts; transparencies 1944-58

Box 75

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|-----|----------|---------|
| 1 | Speeches | 1958-60 |
| 2 | Speeches | 1960-63 |
| 3-4 | Speeches | 1964 |
| 5 | Speeches | 1964-66 |
| 6 | Speeches | 1966-67 |
| 7 | Speeches | 1967 |

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|---|----------|---------|
| 1 | Speeches | 1968-73 |
| 2 | Speeches | 1974 |
| 3 | Speeches | 1974-75 |
| 4 | Speeches | 1975-79 |

5 Speeches n.d.