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


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
Year for the United States Government 1971

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
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

Box 3
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
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

Box 4
1 Report of the Commission on Government Procurement, V. IV 1972
### Box 5

<table>
<thead>
<tr>
<th></th>
<th>Agenda items for F-4 DAG Structures Committee Planned Meeting at MCAIR, St. Louis</th>
<th>1974</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Third Report of the F-4 Structures Committee Division Advisory Group Aeronautical Systems Division</td>
<td>1974</td>
</tr>
<tr>
<td>2</td>
<td>Executive Branch Action on Recommendations of the Commission on Government Procurement: Progress Status, Responsiveness</td>
<td>1974</td>
</tr>
<tr>
<td></td>
<td>Third Report of the F-4 Structures Committee Division Advisory Group Aeronautical Systems Division</td>
<td>1974</td>
</tr>
<tr>
<td>3</td>
<td>Vehicle Performance and Cost Tradeoffs for Reduced Fuel Consumption</td>
<td>1974</td>
</tr>
</tbody>
</table>
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


Report to the Congress, Recommendations of the Commission on the Government Procurement: A Final Assessment 1978

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)
Box 7

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

   and the Congressional Procurement Report
   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

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. 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

<table>
<thead>
<tr>
<th></th>
<th>Title</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Report No. 534, Principal Effects of Axial Load on Moment-Distribution Analysis of Rigid Structures</td>
<td>1935</td>
</tr>
<tr>
<td></td>
<td>Report No. 508, Analysis of 2-Spar Cantilever Wings with Special Reference to Torsion and Load Transference</td>
<td>1935</td>
</tr>
<tr>
<td></td>
<td>Report No. 562, Remarks on the Elastic Axis of Shell Wings</td>
<td>1936</td>
</tr>
<tr>
<td></td>
<td>Forty-Third Annual Report of the National Advisory Committee for Aeronautics</td>
<td>1957</td>
</tr>
<tr>
<td>2</td>
<td>Index to U.S. Army Air Service Information Circulars Nos. 1-100, Vol. 1</td>
<td>1920</td>
</tr>
<tr>
<td></td>
<td>Air Service Information Circular, Design of Large Trussed Ribs</td>
<td>1922</td>
</tr>
<tr>
<td></td>
<td>Index to U.S. Army Air Service Information Circulars, Nos. 101-200</td>
<td>1922</td>
</tr>
<tr>
<td></td>
<td>Index to U.S. Army Air Service Information Circulars, Nos. 201-300</td>
<td>1922</td>
</tr>
<tr>
<td></td>
<td>Index to U.S. Army Air Service Information Circulars, Nos. 301-400</td>
<td>1924</td>
</tr>
<tr>
<td></td>
<td>Speed and Ceiling of U.S. Army Airships</td>
<td>1924</td>
</tr>
<tr>
<td></td>
<td>The Investigation of Structural Members Under Combined Axial and Transverse Loads, Section I</td>
<td>1924</td>
</tr>
<tr>
<td></td>
<td>Application of the Method of Least Work to Redundant Structures</td>
<td>1925</td>
</tr>
<tr>
<td></td>
<td>Investigation of Structural Members Under Combined Axial and Transverse Loads, Section II</td>
<td>1925</td>
</tr>
<tr>
<td>Title</td>
<td>Year</td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>------</td>
<td></td>
</tr>
<tr>
<td>Comparison of Tests on Experimental 15-inch Metal Spars and 11-foot Chord Metal Wing Ribs, Part 1 and 2 Strength of Bent Struts</td>
<td>1926</td>
<td></td>
</tr>
<tr>
<td>Static Test of Consolidated Aircraft Company’s PT-1 Airplane</td>
<td>1926</td>
<td></td>
</tr>
<tr>
<td>Critical Loading of Structural Members Subjected to Combined Axial and Transverse Loads</td>
<td>1926</td>
<td></td>
</tr>
<tr>
<td>Wind Tunnel Tests of DH-4B Model Fitted With Various Fins and Rudders</td>
<td>1927</td>
<td></td>
</tr>
<tr>
<td>Design of Tapered Internally Braced Wings</td>
<td>1927</td>
<td></td>
</tr>
<tr>
<td>Determination of Stresses in Landing Gears and</td>
<td>1927</td>
<td></td>
</tr>
<tr>
<td>Design of Shock Absorbing Units, Part I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Computation of Truss Deflections by the Method of Elastic Weights</td>
<td>1928</td>
<td></td>
</tr>
<tr>
<td>(2) Tests on 6-1/4 inch Metal Spars</td>
<td>1928</td>
<td></td>
</tr>
<tr>
<td>(3) Supplementary Report on Tests of 6-1/4 inch Metal Spars</td>
<td>1929</td>
<td></td>
</tr>
<tr>
<td>Static Test of the XHB-3 Experimental Three-Spar Monoplane Wing Structure Built by Keystone Aircraft Corporation</td>
<td>1928</td>
<td></td>
</tr>
<tr>
<td>Design of Trussed Metal Spars for Single Bay Airplanes</td>
<td>1928</td>
<td></td>
</tr>
<tr>
<td>Application of the Least Work Method to the Evaluation of Initial and Temperature Stresses</td>
<td>1929</td>
<td></td>
</tr>
<tr>
<td>Static Test and Determination of the Elastic Axis of the (Materiel Division) Improved Stressed Skin Type Glider Wing</td>
<td>1930</td>
<td></td>
</tr>
<tr>
<td>Miscellaneous Collected Airplane Structural Design Data Formulas, and Methods Determination of the Elastic Axis and Natural Periods of Vibration of the Atlantic C-2A Monoplane Wing</td>
<td>1930</td>
<td></td>
</tr>
</tbody>
</table>
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 1931

Allowable Shear from Combined Bending and Torsion in Round, Elliptical, and Streamlined Tubes and Allowable Normal Stress from Bending in Thin Walled Tubes 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


6 Proceedings Before the Committee on Science and Astronautics U.S. House of Representatives, No. 1 Hearings Before the Subcommittee on Economy in Government of the Joint Economic Committee Congress of the United States 1968

Box 9

1 An Act to Establish a Commission on Government Procurement

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 1970
   Branch of the Federal Government, and for other purposes

   Report of the Committee on Rules and Administration to 1972
   Accompany H.R. 10243, Calendar No. 1066

   Hearings Before the Subcommittee on Federal Spending 1975
   Practices, Efficiency, and Open Government of the Committee
   on Government Operations

   Department of the Army Office of the Chief of Research 1968
   & Development, Information for Industry

   Design and Operation of United States Combat Aircraft 1942
   Memorandum: Reduction of Design Control Procedures

   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 1974
   Remarks of Brigadier General Kenneth R. Chapman 1972

   Deputy Chief of Staff for Development Plans Air Force Systems 1963
   Command at the NSIA Prototyping Seminar
   A Summary of Lessons Learned From Air Force
   Management Surveys

   Analysis of Digital Flight Control Systems with Flying 1979
   Qualities Applications, Volume I - Executive Summary

   The Four Freedoms of the Air Force 1952

   Selected Acquisition Report 1973

4 Photographs/Negative 1929
   Berliner Joyce Aircraft Corporation Structures
   Department Examination

   Newspaper article: Aircraft Company Here Will Merge
   The Berliner Aircraft Company Report 1928
<table>
<thead>
<tr>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>7</td>
</tr>
<tr>
<td>8</td>
</tr>
</tbody>
</table>
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
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 1933
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


Report: Vought-Sikorsky Aircraft, Structural Analysis Rotating Wing Aircraft Model VS-311 1940

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
<table>
<thead>
<tr>
<th>Article/Publication</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Bee-Hive, Sikorsky Builds Biggest Patrol Bomber for U.S. Navy</td>
</tr>
<tr>
<td>Newspaper article: Navy’s New Flying Dreadnought</td>
</tr>
<tr>
<td>Drawings: NR-440</td>
</tr>
<tr>
<td>Drawing: Sikorsky Convertible Amphibion</td>
</tr>
<tr>
<td>Drawing: Basic Dimensions Horizontal Tail Surfaces</td>
</tr>
<tr>
<td>S-X-100-1, Brief Preliminary Study of a Six Engine Transoceanic Flying Boat of 100 Tons</td>
</tr>
<tr>
<td>Report: Observation-Liaison Short Range Airplane</td>
</tr>
<tr>
<td>Engineering Data For Preliminary Design Report No. A-27 Aerodynamic Data</td>
</tr>
<tr>
<td>Report: A New and Very Ingenious Method for Structural Analysis of Box Spars by K. Bossart</td>
</tr>
<tr>
<td>Newspaper article: World’s Longest Range Commercial Air.</td>
</tr>
<tr>
<td>Drafting Room Manual Sikorsky Aircraft</td>
</tr>
<tr>
<td>Newspaper article: Spruce Goose seaplane commissioned by Howard Hughes during WWII</td>
</tr>
<tr>
<td>Report: Preliminary Demonstrations XPBS-1 Airplane</td>
</tr>
<tr>
<td>Part 2 of Report No. N53-I</td>
</tr>
</tbody>
</table>

**Box 14**

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Part 3 of Report No. N53-I</td>
</tr>
<tr>
<td>2</td>
<td>Drawings: Sikorsky Flying Boats XPBS-1 n.d.</td>
</tr>
<tr>
<td>3</td>
<td>Drawings: Sikorsky Flying Boats XPBS-1 n.d.</td>
</tr>
</tbody>
</table>

Box 15

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

Flying Boat, Sikorsky Design No. 1

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


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

Box 16

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
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

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 Wind Tunnel Test 435 Canard Configuration Study Model (Part 1)

Box 18

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

Box 19

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

4 Departmental Correspondence 1977

5 Departmental Correspondence 1977

6 Departmental Correspondence 1977

7 Departmental Correspondence 1977

Box 20


2 Departmental Correspondence 1977 Various reports/Research Technology

3 Departmental Correspondence 1978

4 GSRS Program Status 1978
<table>
<thead>
<tr>
<th>Box 21</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Report: Technical Writing Procedures</td>
</tr>
<tr>
<td>2. Modern Engineering Methods in Aircraft Preliminary Design</td>
</tr>
<tr>
<td>3. Modern Approach to Advanced Design for Minimum Risk with Advanced Technology</td>
</tr>
<tr>
<td>4. Leadman’s Manual</td>
</tr>
<tr>
<td>Engine Cycle/Airplane Parametric Study</td>
</tr>
<tr>
<td>5. Vought Administration Photographs</td>
</tr>
<tr>
<td>Report Vought-Sikorsky Aircraft, Notes on Cooling Power-Aircraft Engines</td>
</tr>
<tr>
<td>7. Introductory Notes on Supersonic Aerodynamics</td>
</tr>
<tr>
<td>Annual Reports: Chance Vought Aircraft</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Box 22</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Annual Report to Stockholders 1957-59</td>
</tr>
<tr>
<td>Chance-Vought Aircraft Missiles, Facilities and Management Capabilities</td>
</tr>
<tr>
<td>2. The United Aircraft Story 1958</td>
</tr>
<tr>
<td>Midyear Report to Shareholder 1960</td>
</tr>
<tr>
<td>Notice of Annual Meeting of Stockholders 1960</td>
</tr>
<tr>
<td>Ling-Temco-Vought Annual Reports 1964-65</td>
</tr>
</tbody>
</table>
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

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

Box 23

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
Box 24

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

Box 25

1 Baseline Proposal for Systems Engineering 1978
   (Technical Program Plan)

2 Baseline Proposal for Survivability/Vulnerability Program Plan 1977

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 Cost Program Plan 1978
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
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
Organizational Charts 1980-1984
Vought Airplanes
Over 50 Years of Aviation 1971
Chance Vought Aircraft Today and yesterday
Vought PROFILE 1976
Publication: Sixty Years of Vought
A Short History of Vought Aeronautics
United Aircraft & Transport Corporation 1929

Box 30
Chance Vought Move
The Bee-Hive United Aircraft Corporation 1948
Chance Vought News, Special Edition
Chance Vought News, 1948
Publication: The Time Factor in Developing Air Power
LTV Aerospace Corporation Capabilities and Experience
Publication: The Spirit of Lindbergh 1967
Vought Airplanes
Vought Projects: General
Publication: Weight and Design Data Handbook 1968
Fighter/Attack Aircraft
Vought Aeronautics Division 1968
<table>
<thead>
<tr>
<th>5</th>
<th>Weight and Design Data Handbook Cargo/Transport Aircraft</th>
<th>1968</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Section 2/Group Weight Statements Cargo/Transport Aircraft</td>
<td>1961</td>
</tr>
<tr>
<td>7</td>
<td>Photographs: Vought Projects Fixed Wing VE-7 - VO</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Photographs: Vought Projects Fixed Wing FU - O2U-1</td>
<td></td>
</tr>
</tbody>
</table>

**Box 31**

<table>
<thead>
<tr>
<th>1</th>
<th>Vought Projects Fixed Wing O2U-2 - O2U-3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Report: Preliminary Weight Estimate Stainless Steel Pontoon, O2U - Mark III</td>
</tr>
<tr>
<td>2</td>
<td>Vought Projects Fixed Wing O2U-4 - O3U-3</td>
</tr>
<tr>
<td>3</td>
<td>Vought Projects Fixed Wing O3U-4 - SU-4</td>
</tr>
<tr>
<td>4</td>
<td>Vought Projects Fixed Wing XSBU-1 - XSB3U-1</td>
</tr>
<tr>
<td>5</td>
<td>Vought Projects Fixed Wing XGS2U-1 - XF4U-1</td>
</tr>
<tr>
<td>6</td>
<td>Vought Projects Fixed Wing XF4U-1</td>
</tr>
<tr>
<td></td>
<td>XF4U-1 Detail Specification 1944</td>
</tr>
<tr>
<td>7</td>
<td>Vought Projects Fixed Wing XF4U-1</td>
</tr>
<tr>
<td>8</td>
<td>Vought Projects Fixed Wing XF4U-1</td>
</tr>
<tr>
<td>9</td>
<td>Vought Projects Fixed Wing F4U 1941-43</td>
</tr>
</tbody>
</table>

**Box 32**

| 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

   and Control and Estimated Flying Qualities, Part 1

   XF8U-1, Inlet Duet Performance Report

4 Report No. 8703, Performance Data 1953
5 Report No. 8702, Performance Data 1953
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 Navy Airplanes - F-8 Experiences, 2 copies 1966

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


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/  1976 Experience Program

5 Proprietary CILOP/The A-7 with Two F404 Engines for the 1980 Decade, April & July Reports  1977

U.S. Tacair Issue  1977

6 Proprietary CILOP/The A-7 for the 1980 Decade  1977
Box 37

1. Propulsion Group Lubricating and Fuel Systems 1979

2. Profile 1984
   Vought Aeronautics Division and the A-7 Programs
   Pamphlets, A-7E Corsair II and F100-PW-100
   Report: F100/F401 is the Cost Effective A-7 Power Plant
   Blueprint: A-7D Airplane

3. Pamphlet: A-7D Light Attack Airplane
   Article by Captain Thomas G. Ryan re: A-7D 1972
   Report: A-7E Navigation/Weapon Delivery System
   Two Reports: A-7D Tactical Fighter
   Report: The Air Force A-7D A Classic in its Own Time

4. Report: Development, Testing, and Production of the
   A-7A Light Attack Weapons System
   Corsair II Attack Report, Vol 4, #1-4 1970
<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><em>A-7D Tactical Fighter Report</em>, Vol. 8, #3, Vol. 11, #1</td>
<td></td>
</tr>
</tbody>
</table>

**Box 38**

| 1   | Agreement of Understanding between LTV Aerospace for its LTV Vought Aeronautics Division and Lockheed Aircraft Corporation for its Division Lockheed- California Co. V507 “Rough Order of Magnitude” | 1966 |
|     | 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 LTV Aerospace Corporation | 1968 |
|     | 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 nd 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 nd

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

**Box 48**

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
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
<table>
<thead>
<tr>
<th>Box</th>
<th>V/STOL</th>
<th>Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>V/STOL</td>
<td>1968-69</td>
</tr>
<tr>
<td>6</td>
<td>V/STOL</td>
<td>1969</td>
</tr>
<tr>
<td><strong>Box 58</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-2</td>
<td>V/STOL</td>
<td>1969</td>
</tr>
<tr>
<td>3</td>
<td>V/STOL</td>
<td>1970-71</td>
</tr>
<tr>
<td>4-6</td>
<td>V/STOL</td>
<td>1972</td>
</tr>
<tr>
<td><strong>Box 59</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-3</td>
<td>V/STOL</td>
<td>1972</td>
</tr>
<tr>
<td>4</td>
<td>V/STOL</td>
<td>1972-73</td>
</tr>
<tr>
<td>5</td>
<td>V/STOL</td>
<td>1973-74</td>
</tr>
<tr>
<td>6</td>
<td>V/STOL</td>
<td>1974-75</td>
</tr>
<tr>
<td><strong>Box 60</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-3</td>
<td>V/STOL</td>
<td>1975</td>
</tr>
<tr>
<td>4</td>
<td>V/STOL</td>
<td>1976</td>
</tr>
<tr>
<td>5-7</td>
<td>V/STOL</td>
<td>1977 (V/STOL “A”)</td>
</tr>
<tr>
<td><strong>Box 61 &amp; 62</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>V/STOL</td>
<td>1977</td>
<td></td>
</tr>
</tbody>
</table>
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
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
<table>
<thead>
<tr>
<th>Box 72</th>
</tr>
</thead>
<tbody>
<tr>
<td>1  Clark-personal 1952</td>
</tr>
<tr>
<td>Includes photographs and documents with detailed descriptions of</td>
</tr>
<tr>
<td>aircraft from Clark’s trip to the Society of British Aircraft</td>
</tr>
<tr>
<td>Constructors Flying Display and Exhibition in England</td>
</tr>
<tr>
<td>2  Clark-personal 1956-68</td>
</tr>
<tr>
<td>3  Clark-personal 1970-72</td>
</tr>
<tr>
<td>Includes film of Clark’s LTC retirement party</td>
</tr>
<tr>
<td>4  Clark-personal 1972-85</td>
</tr>
<tr>
<td>Includes documents regarding Clark’s LTV retirement party</td>
</tr>
<tr>
<td>5  Clark-personal n.d.</td>
</tr>
<tr>
<td>Photographs of employee groups; Clark portraits; short film</td>
</tr>
<tr>
<td>without sound</td>
</tr>
<tr>
<td>6  Awards/Includes Elder Statesmen of Aviation (Nat’l Aeronautic</td>
</tr>
<tr>
<td>Association) and Fellow of the American Institute of Aeronautics</td>
</tr>
<tr>
<td>&amp; Astronautics (AIAA)</td>
</tr>
<tr>
<td>7  Biographies; Resumes; vitae</td>
</tr>
<tr>
<td>8  Biographies: Includes section of autobiographical manuscript</td>
</tr>
</tbody>
</table>
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
1 Speeches 1958-60
2 Speeches 1960-63
3-4 Speeches 1964
5 Speeches 1964-66
6 Speeches 1966-67
7 Speeches 1967

Box 76
1 Speeches 1968-73
2 Speeches 1974
3 Speeches 1974-75
4 Speeches 1975-79
5  Speeches    n.d.