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- 11 Project Directive TED LAK-AC-701, Fourth Interim 1951
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- 12 Final Report, TED Project Directive CNA AC 710 1951
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- 13 Final Report, TED Project Order 00710-50 Title: 1951
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- 53 Final Report on Simplification of Airship Systems 1954
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- 17 Project TED LAK AC-7058.4 Ground Handling 1958 of ZPG-3W Airship for Evaluation of New Type V Mast and Ground Crew Training; Second Interim Report Concerning Evaluation of the Coleman Type MC-3 Tractor for Towing the Type V Mast
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- 19 Project TED LAK AC-7062.1, Evaluation of Anti- 1958 Kiting Device and Project TED LAK AC-7062.2, Study of Natural Forces and Kiting Prevention
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- 26 Final Report on Project TED LAK AC-7046, 1958
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- 51 Final Report on Project TED LAK AC-7076.1, 1960
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- 52 Project TED LAK AC-7063.5, Second Interim Letter 1960
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- 54 TED LAK AE-6201, Model ZPG-2W Airship, Windshield 1960
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- 55 First Interim Report on Project TED LAK AC-7069.1, 1960
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- 66 Evaluation of Aft Station Safety Provisions in ZPG-2, 1960
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- 68 Problem Assignment L49AE33-2, Heating of Manned 1960
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- 71 TED LAK AC-7058.4 Groundhandling of ZPG-3W 1961
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- 73 TED LAK AC-7063.1 Groundhandling Manual,
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- 74 Evaluation of Type V-S Airship Stickmast, Serial No. 5-61 1961
- 75 Final Report of Project TED LAK AC-7064.2, 1961
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- 76 Final Report on Project L49AE33-2, Heating of 1961
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- 77 TED Project Directive LAK AV-51002, G-29-8B DC 1961
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- 3 TED Project Directive No. ADS EL-6230, Title: 1950-51
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- 4 Progress Report: Envelope Analysis, TED LAK AC-701 1951-54
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- 5 Progress Report: Endurance Test on Exp. Winch 19551-53 No. 00708-51
- 6 TED Project Directive No. CNA-AC-702, Title: 1951-53
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- 7 Progress Report: ZP2M Pilot's Manual, CNA AC-703 1951-52
- 8 Progress Report: Inflight Press Device, TED CNA AC-704 1951-52
- 9 Progress Report: Operational Procedures, CNA AC-705 1953
- 10 Progress Report: Airship Pressure Control (Docked) 1951-53 CNA AC-706
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- 12 Progress Report: Inflight Remanning and Rearming 1951-54
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- 16 TED CNA AC-712, Determination of Engine 1951,54-57
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- 20 Progress Report: Airship Serv. & Tech. Co-op with 1951-53
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- 24 Progress Report: Beta Props, CNA AC-721 1952-53
- 25 Progress Report: Elim. of Lead Weight in 1952-53 Ballast Bag Design, TED
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Technical Airship Experimental Center, NAS Lakehurst

The technical reports, authorized by the U.S. Navy Bureau of Aeronautics and conducted at the Airship Experimental Center at Lakehurst, span the years 1935 through 1961, the year the Navy terminated its LTA program.

The Experimental Center, according to the Experimental and Flight Test Center Manual, formed "a composite of all other LTA engineering groups, adding to the sum total of knowledge in each engineering phase of airship equipment and armament by functional tests, development and research." The Center also acted "as a service organization for

operating (airship) units requiring controlled tests and development." These reports, labeled TED (Technical Engineering Data) and TDM (Test Data Memorandum), include Progress and Final Reports. The Progress Reports, as well as the other Lakehurst Technical Reports, should be used with the Goodyear Engineering Reports. An index exists for the year 1944 while another index covers the years 1950-61. Both indices are shelved in the third box of the sub series.

C.E. Rosendahl arranged a box of the reports as subject files while grouping together various contracted and non-contracted reports and years. The box listing contains the dates and subjects.

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- 1 Progress Report: Ground Handling Mules 1952-55 TED CNA AC-723
- 2 Progress Report: Ground Test Inflight Refueling Kit 1952-54 CNA AC-724
- 3 Progress Report: Imp. of Expl. InFlite Refuel Kits 1952-58 CNA AC-725
- 4 Progress Report: Shakedown Flights of ZP3K-81 1952-53 CNA AC-726
- 5 TED Project CNA AC-707: Inflight Test of ZP2N-1 1953 Modified Propellers
- 6 Progress Report: Test Plastic Nose Battens, 1953-54 CNA-AC-728
- 7 Progress Report: Expl. Inflight Refuel System 1953-54 CNA AC-729
- 8 Progress Report: Model ZP3K Airship Modif. 1953-54 CNA AC-730
- 9 Progress Report: Static Heaviness Indicator 1954 CNA AC-731
- 10 Progress Report: Evaluating Mooring Mast Winch 1954-55 CNA AC-732
- 11 Progress Report: Airship Projects, CNA AC-733 1954
- 12 Progress Report: Airship Anti-Icing, CNA AC-734 1954-55

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- 13 Progress Report: Statistical Flight Load Survey 1954 CNA AC-736

- 14 Progress Report: Ground Handling Mules, CNA AC-738 1955-57
- 15 Progress Report: Water Ballast Pickup Device 1955-56 CNA AC-739
- 16 Progress Report: Airship, CNA AC-7042 1955-56
- 17 Progress Report: Cable Tension Indicator, CNA AC-7043 1955-56
- 18 Progress Report: Water Ballast Bag, GAG, CNA AC-7044 1955-56
- 19 Progress Report: Odograph Install. and Test in ZP2K 1952-53 CNA AE-9134.2
- 20 Progress Report: Airship Projects, ZS2G-68, CNA AE 1954 9166.1
- 21 Progress Report: Airship, CNA AR-3001 1954-55
- 22 Progress Report: Airflow Invest. Aft Carrier 1952 CNA DE-301
- 23 Progress Report: Airship, CNA EL-46008 1954
- 24 Progress Report: Mast Winch, CNA MA-3101 1953
- 25 Airship Mast Tractors, Buda Model HA-120 1952
- 26 Progress Report: Aerial Ladder, CNA MA-3186 1953-55
- 27 Progress Report: Engine Heating Survey 1953

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- 28 Progress Report: Mobile Mast, CNA AC-709 1951-54
- 29 Progress Report: Airship Mobile Mast, LAK AC-7009 1955-59
- 30 TED Project Directive, CNA AC-709, Title: 1951-56
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- 31 Handbook of Erection and Maintenance Mobile Mooring 1955
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- 32 Design Study Airship Inflight Remanning System 1956-57
- 33 Progress Reports: Airships, LAK AC-7041 1955
- 34 Progress Report: Airship, LAK AC-7045 1953
- 35 Progress Report: Air Valve Cycling, LAK AC-7046 1958
- 36 LAK AC-7048 1956

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- 5 Project TED LAK AC-7054, Tests of Transosonde 1956
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- 6 Progress Report: Inflight Maintenance Manual 1956-57
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- 7 Final Report on Project TED LAK AC-7059.1, 1958-59
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- 8 Proposal to Study Natural Forces and Kiting 1957-58
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- 9 Progress Report: Airship, TED LAK AC-7062.2 1957-58
- 10 Project TED LAK AC-7063.2, Ground Handling 1957-58
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- 11 TED Project Directive No. LAK AC-6063.3, 1957-58
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- 12 Project TED LAK AC-7063.4, Low Intensity Light 1957-58
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- 14 Progress Report: Airship, TED LAK AE-8001 1957
- 15 Progress Report: Ground Position Indicator, 1953
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- 16 TED LAK AE-10001, Lights, Watertight, Fluorescent 1953-54
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- 19 Progress Report: Airship, TED LAK EL-800 1951-55
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- 21 Progress Report: Airship, TED LAK EL-802 1951-52
- 22 Modification of ZPM Airship BuNo 4 1952-55
- 23 AN/ASQ-8 Installation on K-59 for Compensation test 1951-52
- 24 Progress Report: Airship, TED LAK EL-812 1951
- 25 Progress Report: Airship, TED LAK EL-813 1951-52
- 26 Progress Report: Flight Testing of Air Velocity 1951-52
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- 27 Progress Report: Airship, TED LAK EL-4000 1956
- 28 Progress Report: Airship, LAK EL-42002 1952
- 29 Progress Report: Airship, LAK EL-43001 1953

- 30 Progress Report: Airship, LAK EL-43001 1950-52
- 31 Progress Report: Airship, TED LAK EL-43001 1951-52
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- 33 Progress Report: TED LAK EL-46008 1954-56
- 34 Progress Report: Airship, TED LAK EL-46008.1 1955-56
- 35 Progress Report: Airship, TED LAK EL-46008.2 1955, 58
- 36 TED Project Directive No. LAK EL-46011.3, 1956
Title: Flight Testing and Study of Airborne Sonar Equipments and Associated
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- 37 TED Project LAK EL-5000, Title: Model ZPG-2/2W 1956
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- 38 TED Project Directive No. LAK EL-53001, Title: 1955-57
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- 39 Progress Report: Airship Mast Mooring Winches 1952 LAK MA-3101
- 40 Progress Report on Flight Tests on Experimental 1941
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- 41 Progress Report: Airship ZPG-1, Drawings re Tests nd
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- 3 Operational Bulletin on G-Type Non-rigid Airship 1943 for G-2 & Future
- 4 Contract Noa(s)-151; G-type Airships - Flight and 1943 Shed Test Report

- 5 Goodyear Aircraft Corporation: U.S. Navy, G-2 Airship 1943
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- 6 Goodyear Aircraft Corporation: G-Airship Car Proof Test 1943
- 7 Goodyear Aircraft Corporation: Flight and Shed Tests of 1943 the G-3 Airship
- 8 Goodyear Aircraft Corporation: Flight and Shed Tests of 1943 The G-4 Airship
- 9-10 Goodyear Aircraft Corporation: US Navy G-Type Airships 1944
- 11 Goodyear Aircraft Corporation: Navy Contract Noa(s) 1944
151 G-Airship Weight and Trim Report
- 12 Goodyear Aircraft Corporation: Flight and Shed Tests 1944
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- 13 Goodyear Aircraft Corporation: Memo - G-Ship Tension 1945 in Internal
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- 14 Goodyear Aircraft Corporation: G-Airship Stress 1945 Analysis of Rigid Bow
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- 23 Goodyear Aircraft Corporation: Tests of Bow Mooring 1943 Methods
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- 25 US Navy K-type Airships, Control Car Assemblies 1943

- 26 Experiments with Stern Propulsion on a K Airship 1943
- 27 Experiments with Stern Propulsion on a K Airship 1943
- 28 Transoceanic Air Cargo Abstract 1944
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- 36 Goodyear Aircraft Corporation: K-10 Airship 1946 Wrinkle Alarm Test
- 37 Proposal for Forty-Five Degree Fins on K-type Airships 1946
- 38 Contract Noa(s)-8016 Task 5 - Propeller Vibration Stress 1946 and Experimentation
- 39 Goodyear Aircraft Corporation: Weight Balance Device 1947 for K Airship Elevator
- 40 Goodyear Aircraft Corporation: An Analysis and 1947 Re-design of Bow Elevators for K-type Airships
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- 43 Goodyear Aircraft Corporation: Tests of Bow 1947 Elevators, Spring Tabs and Tension Regulators on K Airship

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- 9 Goodyear Aircraft Corporation: Internal Suspension 1948 Loading Tests K Airship
- 10 Sperry: Instructions for Modifications of A-12 1949 Gyropilot Amplifier Components for use in US Navy Type K Airship
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- 18 Navy Department: Contract NOa(s)6176 - Electronic 1946 Modernization of Model ZNPK Airship
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- 30 Goodyear Aircraft Corporation: Flight Test 1954 Instrumentation XZP5K-1 Airship Buno 137811
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- 34 Handbook of Weight and Balance Data for Model M 1946 Airship
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- 36 Curtiss Electric Propeller: Installation Detail 1946 Specification D-226D for Goodyear ZNP - K&M Two Engine Airships
- 37 Curtiss-Wright Corporation: Calculated Performance 1950 Curtiss Electric Propellers
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- 7 Memorandum: Suspension of the M-1 Airship 1943
- 8 Goodyear Aircraft Corporation: Summary M-1 1943 Airship Detail Weights
- 9 Goodyear Aircraft Corporation: Results of Tests on 1943 M-Ship Bow Mooring Cable and Mooring Mast Sheaves
- 10 Goodyear Aircraft Corporation: NOa(s)-146 -M 1944 Airship - Model XZNP-M Airship Weight and Trim Report

- 11 Goodyear Aircraft Corporation: Stewart-Warner 1944 South Wind Hermetic Combustion Heater
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- 25 Goodyear Aircraft Corporation: XM-1 Airship 1945 Non-equilibrium Flight
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- 28 NATEc, NAS, Report on Extended Flight of Airship XM-1 1946
- 29 Goodyear Aircraft Corporation: Proposal to Study 1956
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- 13 Goodyear Aircraft Corporation: Handbook-Operation 1958 and Service Instructions: ZPG-2 and ZPG-2W Surface Controls System Trainer
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- 15 Weight and Balance Data, ZPG-2W 1951

- 16 ZPG-3W Airship Propeller and Control Systems Trainer 1956
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- 18 Weight and Balance Data, ZPG-3W 1954
- 19 Goodyear Aircraft Corporation: Instrumentation Report 1956
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- 20 Memorandum Report RD-FT756: Proposed Magnetic Tape 1956
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- 21 Goodyear Aircraft Corporation: Instrumentation Report 1957
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- 19 Goodyear Aircraft Corporation: Time vs. Load Tests 1949 For Neoprene-coated Fortisan-Rayon Fabric
- 20 Goodyear Aircraft Corporation: GK456 FN Spare 1951 Envelope Actual Weight Comparison
- 21 Bendolite: A High-strength, Lightweight Sandwich 1954 Structural Material
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- 25 Goodyear: Rieker Presentation 1958
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- 31 Goodyear: Investigation of Airship Ballonet 1960
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- 32 Goodyear: Erection Cable Tensions Suspension 1960
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- 33 Goodyear: 100% Weigh-Off Report, Model ZPG-3W 1960
- 34 Goodyear: Erection Cable Tensions Suspension System 1960
of ZPG-3W Airship
- 35 Repair Manual Airship Envelope Fabrics for Airship 1959
Models ZSG-4, ZS2G-1, ZPG-2, ZPG-2W, ZPG-3W

Box 248A

- 1-3 Part 1 of 3 is missing from folder
- 4 Model Tests of Bow Elevators 1934
- 5 High Mast for Goodyear non-rigid Airships 1935
- 6 The Stalling of Airships 1934
- 7 A Study of Some Corrosion Factors in Soldered 1942
Aircraft Cable
- 8 Tests on Bow Mooring Methods 1943
- 9 Soundproofing Airships 1943
- 10 Goodyear: Airship Pilot Tube Correction 1944
- 11 Airships and Boundary Layer Theory 1944
- 12 Goodyear: Results of Test on Light-Weight Floorings 1944
- 13 General Problems of Directional Stability and 1944
Maneuverability of Airships

- 14 Goodyear: Progress Report on Airship Improvement 1946 and Experimentation
- 15 Goodyear: Progress Report on Engineering, Materials 1946 and Services
- 16 Goodyear: Internal Suspension Loading Test 1945
- 17 Goodyear: Alar Helium Purity Test Meter 1945
- 18 Goodyear: Engine Exhaust Water Recovery Apparatus 1945 for the B-29 Airplane, Section I
- 19 Goodyear: Engine Exhaust Water Recovery Apparatus 1947 for the B-29 Airplane, Section II
- 20 Goodyear: Flight Test on B-29 Water Recovery System 1947 Section III
- 21 Partial Report on Water Ballast Pick-Up Unit 1946

Box 248b

- 22 Goodyear: Development of a Water Ballast Pick-up 1947 System
- 23 Goodyear: Tentative Test Program for the Water 1946 Model of the Fleet Airship
- 24 Goodyear: Water Takeoffs and Landings 1946
- 25 Goodyear: Water Takeoffs and Landings 1946
- 26 Goodyear: Water Mooring 1946
- 27 Goodyear: Basic Data for an Airship Airplane Carrier 1947
- 28 Goodyear: Report on Tension Regulators and Slack Absorbers 1947
- 29 Goodyear: Electrical, Electronics 1952
- 30 Goodyear: Procedure for 100% Weigh-Off of LTA Craft 1955

- 31 Goodyear: Proposal for Test Model Heaviness Meter 1955 for Airships
- 32 Goodyear: Memorandum Report T-1093, Proposal for 1957 Real Time Processing of Flight Test Data Using a Telemetering-Computer System
- 33 Goodyear: Operation, Service, and Repair Instructions 1958 with Illustrated Parts Breakdown
- 34 Goodyear: Structural Restrictions for Ground Handling 1958 Airships
- 35 Goodyear: Instrumentation Report Fin Mounted Power Plant 1958
- 36 Goodyear: Fin Mounted Power Plant Ground and Flight Test 1958
- 37 Goodyear: Predicted Noise Levels in the Car of 1959 Fin-Mounted Power Plant Airship
- 38 Goodyear: Stress Analysis of Empennage and 1959 and Nacelle for Fin Mounted Power Plants
- 39 Schematic Radar Pressurization System ZPG-3W Airship 1959

Box 248c

- 40-43 Missing from the File Box
- 44-46 Goodyear: Stress Analysis of Empennage and 1959 Nacelle for Fin Mounted Power Plants
- 47 Goodyear: Stick Mast - Type vs. Airship Specification 1960
- 48 Goodyear: Airship Mast - Mobile Type V Specification 1960
- 49 Technical Documentary Report ASD-TDR-62-542 1963
- 50 Goodyear: Power Switch Unit

Box 249a

- 1-2 Extract from the Study of Zeppelin L-49 1920
- 3 Airship Patent, Inventor, William Sieck, Jr. 1926
- 4 "Charles Augustus Lindbergh The Man and Mason" 1928
- 5 Proposed Site for Hangar for Dirigibles 1929
- 6 Official Report: Minority Report: Naval Airship Bases 1929
- 7-8 Report: Study of Harrisburg, PA Airport for International 1930
Zeppelin Transport
- 9 The Use of Airships for Extending the Radius of Action 1934
of Military Airplanes
- 10 LTA Recommendation for Program and Details of 1937
Employment
- 11 A.F. Heinen, Rigid Airship 10,000,000 Ballast 1940
- 12 Goodyear: Airship Study for Goodyear
- 13 Goodyear: Prospectus for a 1,500,000 cu.ft. Navy 1945
Non-rigid Airship
- 14 A Plan to Effectuate an Airship Program

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- 15 Goodyear: Discussion of Possible Forms of Airship 1947
Organization
- 16 Airship Patent, Walter Farmer 1950
- 17 Airship Patent, D.B. Tschudy 1957
- 18 Air War College, The Airship and Its Use in AEW 1957

- 19 Remote Air Defense Weapons Systems Study for ARDC 1957
- 20 Correspondence (LZ Airship) 1957
- 21 Air War College, The Airship and Its Use in AEW 1957
- 22 Final Report: Lighter-Than-Air Concepts Study 1957

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- 23 Moored Airship Towed Array Sonar System 1976
- 24 Zeppelin Foundation, Feasibility Study of LA-132 1957
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- 25 LZ132: 300,000 cu. meter Airship 1958
- 26 LZ132: 300,000 cu. meter Airship 1958
- 27 Proposal for Nuclear Airship for AEW 1958
- 28 Proposal for Stern Propulsion Package for a Blimp 1959
- 29-30 AEW & C Barrier Report 1959
- 31 Proposed Airship Configuration 1960
- 32 The Structural Mechanics of the Rigid Airship 1962

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- 1 AZMC-2 Inflation 1929
- 2 Proceedings of the Michigan-Life Conference on 1939
New Technologies in Transportation
- 3 Proportional Governor Control System 1943
- 4 Handbook of Service and Overhaul Instructions 1943
Proportional Governors

- 5 Curtiss-Wright Corporation: Air Transportation 1944
- 6 Additions and Revisions in Curtiss Report C-1400A 1944

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- 7 Folder 7 is missing from the file box
- 8 Fairchild Engine and Airplane Corporation: Shrinkage 1945 Washers for Timber Structures
- 9 Tampa Shipbuilding Co., Inc.: Type "K" Docking 1945 Cradle -Proposal Specifications
- 10 Electro-Acoustic Lab.: Sound Levels and Their 1945 Reduction in Type K Airships
- 11 Type "K" Docking Cradle - Powering of Mobile 1945 Telescopic Mast
- 12 Magnetic Airborne Detector Program, Vol. 5 1946
- 13 Load Conditions of Airships when Moored on the Mast, 1948 and Mooring Mast Reactions
- 14 Stress Analysis of K-Type Mast Extended to Fit 1948 the "N" Airship
- 15 M - N Type Mooring Mast Redesign and Stress 1949 Analysis of the Tilting Cup, Cup Support, Spindle, and Bearing
- 16 Symposium on Experimental Compressible Flow 1949
- 17 Symposium on Aerothermodynamics 1949

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- 18 Informal Proposal for electric Control System for 1949 K-Type Airship

- 19 Contract NOa(s) -10771, Expeditionary Mooring Mast 1950
Stress Analysis
- 20 Propeller Performance Analysis Procedure and Data 1950
- 21 Airship Mast Drawings #4 1943, 51, 52
- 22 Second Convertible Aircraft Congress Proceedings, PA 1952
- 23 Tentative Specification Gas Turbine Compressor and 1953
and Power Unit
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(Shaft Power Type)
- 25 Boundary Layer Control by Blowing a Method of 1954
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- 26 Research Trends, Vol. III, No. 2 1955
- 27 Research on and Development of Badger-Hickman 1957
Centrifugal Distillation Techniques and Equipments
- 28 Digital Differential Analyzers 1957
- 29 Valves: The New Piston Valve Co. 1957
- 30 The Strato-Lab as a Research Vehicle 1959
- 31 The Airborne Model Test Facility of the US Navy 1961
"The Flying Wind Tunnel"
- 32 Characteristics and Estimated Costs of Airborne 1961
Platforms for AEW&C

Box 251a

Boeing Vertol Company: Feasibility Study of Modern 1975
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Boeing Vertol Company: Feasibility Study of Modern 1975
Airships, Final Report, Volume I and II

Design Feasibility Analysis Ultra-Heavy Vertical Lift 1975
System - The "Heli-Stat"

Box 251b

Goodyear Aerospace Corporation: Feasibility Study 1975
of Modern Airships, Phase I, Volume I, II, III, and IV

Goodyear Aerospace Corporation: Feasibility Study 1976
of Modern Airships, Phase II, Volume I, Book I and II

Box 251c

Goodyear Aerospace Corporation: Feasibility Study 1976
of Modern Airships, Phase II, Volume I and II

Goodyear Aerospace Corporation: Feasibility Study
of Modern Airships, Phase II, Briefing and Final Report

Goodyear Aerospace Corporation: Feasibility of Modern
Airships (Phase II) Briefing

Goodyear Aerospace Corporation: Modern Airship Study

Box 252a

- 1 NACA Research Memos: Register nd
- 2 Index of NACA Technical Publications 1915-49
- 3 Thirty-Fourth Annual Report of the National Advisory 1948
Committee for Aeronautics

- 4 Technical Notes: Preliminary Fatigue Studies on 1938 Aluminum Alloy Aircraft Girders
- 5 LTA De-icing Survey 1947
- 6 Memorandum Report: Static-Thrust and Torque nd Characteristics of Single and Dual Rotating Tractor Propellers
- 7 Memorandum Report: Flight Tests of an Electric Humidity Instrument
- 8 Memorandum Report: Flight Measurements of the nd Control-Force Characteristics of Navy Airship K-21 Equipped with Airplane-type Control Columns
- 9 Memorandum Report: Flight Test of an Electric nd Humidity Instrument
- 10 Twp-Component Airship Accelerometer Developed for nd the Bureau of Aeronautics, Navy Department, by the National Advisory Committee for Aeronautics
- 11 National Advisory Committee for Aeronautics, nd Report No. 194
- 12 National Advisory Committee for Aeronautics, nd Report No. 208
- 13 National Advisory Committee for Aeronautics, nd Report No. 213
- 14 National Advisory Committee for Aeronautics, nd Report No. 234
- 15 National Advisory Committee for Aeronautics, nd Report No. 322
- 16 National Advisory Committee for Aeronautics, nd Report No. 387
- 17 National Advisory Committee for Aeronautics, nd Report No. 403
- 18 National Advisory Committee for Aeronautics, nd Report No. 416
- 19 National Advisory Committee for Aeronautics, nd Report No. 474
- 20 National Advisory Committee for Aeronautics, nd Report No. 420
- 21 National Advisory Committee for Aeronautics, nd Report No. 432
- 22 National Advisory Committee for Aeronautics, nd Report No. 397
- 23 National Advisory Committee for Aeronautics, nd Report No. 397

- 24 National Advisory Committee for Aeronautics, nd Report No. 535
- 25 National Advisory Committee for Aeronautics, nd Report No. 662
- 26 National Advisory Committee for Aeronautics, nd Report No. 719
- 27 National Advisory Committee for Aeronautics, nd Report No. 720
- 28 National Advisory Committee for Aeronautics, nd Report No. 686
- 29 National Advisory Committee for Aeronautics, nd Report No. 491
- 30 National Advisory Committee for Aeronautics, nd Report No. 566

Box 252b

- 30 Effects of Wing and Nacelle Modifications on Drag 1945 and Wake Characteristics of a Bomber-Type Airplane Model
- 31 NACA Research Memorandum: Ice Protection of 1948 Turbojet Engines by Inertia Separation of Water I
- 32 NACA Research Memorandum: Investigation of the 1948 Aerodynamic and Icing Characteristics of a Recessed Fuel Cell Vent Assembly I
- 33 NACA Research Memorandum: Ice Protection of 1948 Turbojet Engines by Inertia Separation of Water II
- 34 NACA Research Memorandum: Ice Protection of 1948 Turbojet Engines by Inertia Separation of Water III
- 35 NACA Research Memorandum: Investigation of the 1948 Aerodynamic and Icing Characteristics of a Recessed Fuel Cell Vent Assembly II
- 36 NACA Research Memorandum: Experimental 1948 Investigation of Hot-Gas Bleedback for Ice Protection of Turbojet Engines I
- 37 NACA: Theoretical Investigation of Methods for 1945 Computing Drag From Wake Surveys at High Subsonic Speeds
- 38 NACA: Study of the Mixture Distribution of a 1945 Double-Row Radial Aircraft Engine

- 39 NACA: New Method of Extrapolation of the Resistance 1942
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- 40 NACA: Report No. 747 1942
- 41 NACA: Fluid De-icing Tests on a Chandler-Evans 1944
1900 CPB-3 Carburetor Mounted on a Pratt & Whitney R-1830-C4
Intermediate Rear Engine Section
- 42 NACA: A Laboratory Investigation of the Icing 1944
Characteristics of the Bendix-Stromberg Carburetor Model PD-12F5 with the
Pratt & Whitney R-1830-C4 Intermediate Rear Engine Section
- 43 NACA: The Two-Dimensional Incompressible Potential 1945
Flow Over Corrugated and Distorted Infinite Surfaces
- 44 NACA: Improving Engine Cooling with Special Baffles 1945
- 45 NACA: Correlation of Wright Aeronautical Corp. 1945
Cooling Data on the R-3350-14 Intermediate Engine and Comparison
with Data from the Langley 16-ft. High-speed tunnel
- 46 NACA: Determination of Rate, Area, and distribution 1949
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the Differential Analyzer
- 47 NACA: Investigation of the Aerodynamic and Icing 1948
Characteristics of a Recessed Fuel Cell Vent Assembly III
- 48 NACA: Preliminary Results of Natural Icing of an 1948
Axial-Flow Turbojet Engine
- 49 NACA: An Experimental Investigation of an Exhaust- 1948
Gas-To-Air Heat Exchanger for Use on Jet-Stacked Equipped Engines
- 50 NACA: Natural Icing of an Axial-Flow Turbojet Engine 1948
in Flight For A Single Icing Condition
- 51 NACA: Generalized Charts for Determination of 1948
Pressure Drop of a High-Speed Compressible Fluid in Heat- Exchanger Passages I
- 52 NACA: Heat Transfer From High-Temperature Surfaces 1949
to Fluids II
- 53 NACA: Effect of Hot-Gas Bleedback Ice Prevention on 1949
Performance of a Turbojet Engine with Fixed-Area Tail-Pipe Nozzle

- 54 NACA: An Electric Thrust Meter Suitable for Flight 1949
Investigation of Propellers
- 55 NACA: Analysis and Preliminary Investigation of nd
Eddy-current Heating For Icing Protection of Axial-Flow Compressor Blades
- 56 NACA: Experimental Investigation of Hot-Gas 1949
Bleedback For Ice Protection of Turbojet Engines III
- 57 NACA: Effects of Inlet Icing on Performance of 1950
Axial-flow Turbojet Engine in Natural Icing Conditions
- 58 NACA: Experimental Data Concerning the Effect of 1948
High Heat-Input Rates on the Pressure Drop Through Radiator Tubes
- 59 NACA: Experimental Investigation of Hot-gas Bleedback nd
for Ice Protection of Turbojet Engines II
- 60 NACA: Report No. 945 1940
- 61 NACA: Report No. 938 1940
- 62 NACA: Report No. 913 1939

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- 63 NACA: Report No. 241 1923
- 64 NACA: Report No. 271 1924
- 65 NACA: Report No. 730 1933
- 66 NACA: Report No. 775 1935
- 67 NACA: Report No. 805 1936
- 68 NACA: Relation of Preignition and Knock to 1943
Allowable Engine Temperatures
- 69 NACA: Effect of Several Methods of Increasing 1944 |
Knock-Limited Power on Cylinder Temperatures

- 70 NACA: Operating Characteristics of a Standard 1944
Wright C9GC Exhaust Valve and an Exhaust Valve with a Stem of Increased
Diameter and a Crown with a Corrosion-Resistant Coating
- 71 NACA: A Laboratory Investigation of Icing and 1944
Heated-air De-icing of a Chandler-Evans 1900 CPB-3 Carburetor Mounted on a
Pratt & Whitney R-1830-C4 Intermediate Rear Engine Section
- 72 NACA: A review of Instruments Developed for the 1949
Measurement of the Meteorological Factors Conducive to Aircraft Icing
- 73 NACA: Adaptor for Measuring Principal Strains with 1943
Tuckerman Strain Gage
- 74 NACA: A Preliminary Investigation of the Electrical 1942
Structure of Thunderstorms
- 75 NACA: Report No. 729 1939
- 76 NACA: Report No. 694 1939
- 77 NACA: Report No. 662 1938
- 78 NACA: Report No. 645 1938
- 79 NACA: Report No. 587 1936
- 80 NACA: Report No. 494 1934
- 81 NACA: Thirty-second Annual Report 1946
- 82 NACA: Report No. 576 1941
- 83 NACA: Report No. 333 nd
- 84 NACA: Report No. 325 nd
- 85 NACA: Report No. 610 1937
- 86 NACA: Report No. 460 1933
- 87 NACA: Report No. 631 1938
- 88 NACA: Report No. 352 nd
- 89 NACA: Technical Note No. 1181 1947

Technical Goodyear Engineering Reports (GER) and Subcontractor's Reports

The reports should be used with NAS Lakehurst Airship Experimental Center reports, such as the TEDs (Technical Engineering Data), Design Memos, Progress Reports, and TDMs (test Data memorandum). The Navy Bureau of Aeronautics contracted these studies of engineering data through Goodyear. Weight and balance data about individual airships have been placed with Goodyear Engineering Reports since the company conducted the initial studies before delivering the airships to the Navy. Later weight and balance data conducted during flight trials for the new airships - most of which were either tested or based at NAS Lakehurst - have been placed along side the Goodyear reports for the convenience of the researcher. If the researcher fails to locate weight and balance data in the Goodyear sub series, he/she should be advised to check for the information under Individual Airships, Lakehurst Airship Experimental Center reports. The researcher should likewise take note that reports for particular subcontracted parts for Goodyear manufactured airships appear with these Engineering Reports. Some of the companies who received the subcontracts for parts were Sperry, Vickers, and Curtiss Wright.

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- 1 Meteorology and Aeronautics, Report No. 13 1917
- 2 NACA: Report No. 147 1922
- 3 NACA: Report No. 157 1923
- 4 NACA: Technical Memorandum No. 237 1946
- 5 NACA: Technical Memorandum No. 274 1924
- 6 NACA: Report No. 239 1926
- 7 Italian: On The Applications of High-Pressure Steam 1926
- 8 NACA: Technical Notes No. 247 1926
- 9 Italian Lighter-Than-Air Craft Information 1946
- 10 NACA: Technical Memorandum No. 512 1928

- 11 NACA: Technical Memorandum No. 512 1929
- 12 The Transfer of Heat in Reciprocating Engines 1929
- 13 Steam Engines for Stratospheric Flight 1931
- 14 NACA: Technical Memorandum No. 660 1932
- 15 NACA: Technical Notes No. 494 1934
- 16 The Future of Aircraft Propulsion: The Steam 1940
and Gas Turbines
- 17 NACA: Wind-tunnel Tests of Eight-blade Single- 1941
and Dual-rotating Propellers in the Tractor Position
- 18 NACA: Report No. 474 1941
- 19 NACA: Technical Memorandum No. 1034 1942
- 20 NACA: Wind-tunnel Tests of Single-and Dual 1942
Rotating Tractor Propellers of Large Blade Width
- 21 NACA: Wind-Tunnel Tests of Single-and Dual-Rotating 1943
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Propellers at Blade Angles up to 65 degrees.
- 22 NACA: Representative Operating Charts of Propellers 1943
Tested in the NACA 20 ft Propeller-Research Tunnel
- 23 NACA: Subject Headings for Index of NACA Publications 1947
- 24 NACA: Research Abstract No. 1 1951
- 25 NACA: Report 1229 1955

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- 1 Propellers, Engines, Carburetion nd
- 2 Airship Fabric Sample Book, Vol. I nd
- 3 Airship Fabric Sample Book, Vol. II nd

- 4 Goodyear: Airship Fabric Sample Book nd
- 5 General Repair Fabrics nd
- 6 Airship Fabrics nd

Box 255

- 1 America Must Be First in the Air nd
- 2 Airship Operations - Report I 1948
- 3 The Story of the Airship 1927
- 4 Some Day Out of the Sky 1929
- 5 With The Air Fleet 1930
- 6 Goodyear in Aeronautics 1931
- 7 Goodyear - Non-Rigid Airships 1942-44
- 8 Goodyear Overseas News 1945
- 9 Design Details of the Goodyear Model K Airship 1945
- 10 Keeping America First In The Air 1958
- 11 Profile 1970
- 12 Goodyear Airship Operations 1974
- 13 Goodyear's Magazine for Men nd
- 14 Goodyear Aircraft Corporation nd
- 15 Building the World's Largest Airships nd
- 16 Airships for Missile Transportation nd
- 17 Sentinel of our Free World nd
- 18 Mars vs. Airships nd

- 19 Standard Instructions for 77,000 cu.ft. Dirigible nd
- 20 Trade Winds 1939
- 21 First of the Super-Transports Boeing's New nd
Stratocruiser
- 22 Fighters in the Skies 1944
- 23 The Bee-Hive 1944
- 24 Biggest Land Transport 1944
- 25 Curtiss/Fly Leaf 1944
- 26 Ethyl News 1945
- 27 The Sea-Air Combination in the National Interest 1946
- 28 Ingredients for a New Era 1946
- 29 The Pegasus 1946
- 30 The Pegasus 1946
- 31 A High and Expensive Journey 1947
- 32 DeHavilland Propellers 1948
- 33 A Timely Proposal to the Congress of the United 1953
States Concerning Airships
- 34 Sperryscope 1956
- 35 Pegasus 1956,58
- 36 Think 1958
- 37 Boeing Magazine 1958
- 38 Air World Education Study Series nd
- 39 The Louis W. Hill Space Transportation Award 1960
- 40 Facts and Figures about Air Transportation 1960

- Sperryscope 1961
- 41 United Aircraft Quarterly Bee-Hive 1963
 - 42 Days of Trial and Triumph 1969
 - 43 Pulse 1972
 - 44 Lightship Technical Specification LS 60 1946
 - 45 United Technologies Bee/Hive 1979
 - 46 The Age of Flight nd
 - 47 Naval Shipbuilding in the Atomic Age nd

Box 256

- 1 Facts About the Daniel Guggenheim Airship Institute nd
- 2 Daniel Guggenheim Airship Institute, Akron, Ohio nd
- 3 On The Problems of Progressive Airship Research nd
- 4 A Test Stand for the Investigation of Gust Effects 1938
- 5 A Water Tank for Model Tests on the Motion of 1938
Airships in Gusts
- 6 Proposal for Tests on Stern Propulsion 1938
- 7 Wind Tunnel Test on G-Z Airship Model 6RO123 1934
- 8 Contract NOa(s)-4390 Tests of a Free Flight Model 1947
of the Airship AKRON
- 9 Memorandum on Gusts Related to Airship Design 1945
Specifications
- 10 The Effect of a Long Control Car on the Directional 1945
Stability of an Airship

- 11 Report on Influence of Bow Rudders on the Flight 1944
Path and Bending Moments of an Airship Model in Free Flight Through a Gust
- 12 Description of Free Flight Airship Model for Tests 1944
with Automatically Controlled Bow Elevators
- 13 Progress Report on Gust Studies Under Contract 1938
NO-51610

Box 257

- 1 Comment on Guggenheim Progress Reports of 11/20/37 1937 and 3/29/38 on
Gust Studies made under Contract 51610
- 2 Daniel Guggenheim Airship Institute 1938
- 3 Daniel Guggenheim Airship Institute 1944
- 4 Contract NOa(s)-4390 Tests of a Free Flight Model 1946
of the Airship AKRON
- 5 Wind Tunnel Tests on an "M" Type Airship Model 1942

Box 258

- 1 Winzen Research Inc., Strato Lab High #2 Post Flight Rpt 1961
- 2 Winzen Research Inc., Strato Lab Open Gondola High 1961
Altitude Observatory Balloon Flight No. 1
- 3 Winzen Research Inc., Flight Report 1974
- 4 Winzen Research Inc., Flight Report 1966

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- 1 The High Altitude Station 1962
- 2 On The Separation of the Unsteady Laminar Boundary Layer 1958
- 3 Aerodynamics Effects of Boundary Layer Unsteadiness 1958
- 4 Tuft Flow Studies on ZS2G-1 Type Airship 1958
- 5 Some Effects of Suction Boundary Layer Control 1958
Applied to a Body of Revolution
- 6 NASA Conference on Some Problems Related to 1958
Aircraft Operation
- 7 Wake Energy Recovery Propulsion for Airships 1959
- 8 Application of Full Scale Boundary Layer 1960
Measurements to Drag Reduction of Airships
- 9 An Experimental Investigation of Fillet Design 1960
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- 10 A Summary Report on the Tandem Propeller Submarine 1964
Programs
- 11 Structural Efficiency Comparison of Cryogenic Tankage 1964
- 12 Technical Report: Effects of Configurational Changes 1966
on Tandem Propeller Performance
- 13 MIT/An Assessment of Lighter Than Air Technology 1974
- 14-15 German (Luftschiff-Kolloquium III 1976
- 16 Superheating of Airship Lifting Gas nd
- 17 German Practice in Gas Cell Manufacture nd
- 18 Erection Procedure for Mast nd
- 19 A Solid State Approach to Aircraft Fire Control nd
- 20 Preliminary Report on the Articulated Balloon Air nd
Carrier System

Box 260

- 1 Thermoship Study Report 1962
- 2 Working Paper for (U) Airship Study 1962
- 3 American and Soviet Interest in Airships 1963
- 4 Reducing the Risks Attending Aircraft Involved in 1966
In-Flight Fires and "Survivable Accidents"
- 5 A Proposal for Development of Nuclear-Powered 1968
Air Transport
- 6 Transporting Commercial Gases by Airship 1970
- 7 Design, Manufacture and Delivery of a non-rigid airship 1971
- 8 Design Proposal of the LARGO I/A Bulk Cargo Transport 1971
- 9 The Navy Rigid Airship 1972
- 10 Dirigibles/Aerospace Opportunity for the 1970's & 80's 1972
- 11 An Assessment of Lighter-Than-Air Technology 1974
- 12 Proposal for Passenger and Transportation 1976
- 13 Coast Guard Lighter-Than-Air Study, Volume II nd
- 14 Coast Guard Lighter-Than-Air Study, Volume III nd
- 15 Goodyear: Feasibility of Airship Test Platform nd
- 16 NASA Report: 63ASRS-582 Airship for Booster nd
- 17 Initial Subdivision of Fabrication for Airship Construction nd
- 18 Ultra-Heavy Vertical Lift System "The Heli-Stat" nd

Box 261

- 1 Study of L-T-A Application and a Proposed Program 1937 for Organization and Development
- 2 Operations and Operating Equipment for TC-13 and 1937 TC-14 Airships
- 3 Naval Air Material Center 1951
- 4 Weathering Characteristics of Experimental Vinyl 1951 Anti-Fouling Paints
- 5 Coated Fabric for Airship Envelopes 1951
- 6 A Study of Textile Materials for Use in Aircraft 1954 Flotation Equipment
- 7 Measurement of Motions and Loads Imposed on 1951 Landing Gear of Model ZPK Airship During Carrier Landing and Handling
- 8 NATC, Archive Reports 1,2,& 3 1949-52
- 9 Wright-Patterson Air Force Base Reports 1,2,3,4,&5 nd
- 10 Official Story of C-5 Dirigible's Record Flight to 1919 Newfoundland
- 11 Memorandum: Aerology 1924, 27
- 12 Gust Conditions at the NAS, Pear Harbor and EWA 1925 Mooring Mast
- 13 Thunderstorms and Aviation 1925-31
- 14 Questionnaire: Characteristics and Features for Ideal Base 1928
- 15 Suggestions on Constructions of New Airships 1928

Box 262

- 1 Condensed Statement of Aerological Data from West 1929
Coast Airship Base Sites
- 2 Possible Maneuvers to Avoid Northwest Gale and 1929
Squall off Jersey Coast
- 3 Preliminary Survey of Flying Weather 1929
- 4 Pilgrim Goodyear Blimp Crash 1930
- 5 Proximity of Proposed Chapel Building to Present 1930
Aerology Building
- 6 Weather Study: Round Trip Flight 1931
- 7 Pilot Chart of the Upper Air - North Pacific Ocean 1932
- 8 Correspondence: Effects of Weather on Airships 1931
- 9 Effect of Weather on Airships, Charts, Blueprints nd
- 10 Technical Manual: Airship Aerodynamics 1941
- 11 Operation and Activity of the Thunderstorm Project 1946
- 12 A Report on Thunderstorm Conditions Affecting 1948
Flight Operations
- 13 Airships: American, British, German 1919-29
- 14-15 Studies of Weather on Airships 1930-36
- 16 Flight: San Antonio, TX to Scottfield, IL 1928
- 17 Correspondence: Captain J.A. Sinclair and James Taylor 1970
- 18 Correspondence: Lord Ventry 1969

Box 263

- 1 500 Fahrten im Freiballon 1929
- 2 Free Balloons: Automatic Airship Valve 1923

- 3 Chart for Ballast 1927
- 4 National Elimination Balloon Race 1929
- 5 The Gondola Specifications 1931
- 6 Balloon: Polish Stratosphere Balloon 1938
- 7 Correspondence: Rear Adm. R. Bennett, USN 1959
- 8 Piccard Launches Balloon 1960
- 9 New Devices for Guerilla Warfare 1968
- 10 Eugne M. Emme: NASA Historian 1961
- 11 Balloons: Issuance of Free Balloon Pilot Certificates 1962
Limited to Hot Air Balloons
- 12 Historical Note Relative to Early Military Balloons 1965
and Communications
- 13 Balloons in America 1966
- 14 Notice of Intention to Adopt a Rule Concerning Ballooning 1975
- 15 Annual Ball NAS Reunion and Banquet 1941
- 16 Report on the 1923 Gordon Bennett Free Balloon Race 1923
- 17 National Balloon Race, Houston, TX 1930
- 18 Correspondence: CER to Dr. Topping 1957-71
- 19 Free Balloon Training and Flight Program 1956
- 20 Wingfoot LTA Society Membership Roster 1955
- 21 Wingfoot LTA and the LTA Society 1963
- 22 The Bulletin of the LTA Society 1975
- 23 Airship: Columbia 1963
- 24 Correspondence: CER To Robert Waitt 1961

- 25 Notes: Richmond, VA 1961
- 26 Telegrams 1962
- 27 Defense Department Information 1962
- 28 Balloon: Lists of Guests nd
- 29 Persons Interested in Ballooning during Civil War 1962
- 30 Newsletters, Map, Ticket, Pamphlet 1962
- 31 Balloon Logging Systems, Phase I, Analytical Study 1964
Phase II, Logistics Study
- 32 Logging Test of a Single-Hull Balloon 1966

Box 264

- 1 American Balloon Corps Veterans 1964
- 2 Proceedings, Sixth AFCRL Scientific Balloon Symposium 1970
- 3 Barrage Balloons, Correspondence I - O nd
- 4 Barrage Balloons: Pearl Harbor nd
- 5 Barrage Balloon Photographs 1944
- 6 Sky Basket, Correspondence I - O nd
- 7 Sky Basket notes: Pearl Harbor 1970
- 8 Scientific Balloon Symposium 1970
- 9 Commemoration of Americas First Flight 1976
- 10 Balloon: Notes on Electrostatic Causes 1976
- 11 Spirit of "76 Transatlantic Balloon Attempt 1976

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- 1 "Ballooning: Journal of the Balloon Federation of America" 1968-72
- 2 "Aerostation" 1975-78
- 3 Balloon: Magazines and Technical Manuals nd
- 4 Balloon: "Houston Chronicle 1973

Box 266

- 1 O Memos: Envelopes 1937-43
- 2-3 Envelopes 1944
- 4 Envelopes 1945
- 5 Envelopes 1946
- 6 Envelopes 1947-48
- 7 Envelopes 1949-50
- 8 Envelopes 1951-52
- 9 Envelopes: Report on unpacking envelopes D-348 & D-349 1945
- 10 Envelopes: Photographs, Patches and Tears 1944
- 11 Envelopes: Photographs, Packing of Envelopes 1944

Box 267

- 1 Report No. 43 of the Scientific Group 1941
- 2 Technical Report: Handlings 1943-52
- 3 Technical Report: Ballast Bags 1945-52
- 4 Technical Report: Automatic Pilots 1947-52
- 5 Technical Report: Airship Auxiliary Power Unit 1952

- 6 Technical Report: Battens 1950-51
- 7 Technical Report: Girders 1924-25
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