

FEDERAL AVIATION AGENCY
Technical Development Center
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INDEX OF TECHNICAL DEVELOPMENT REPORTS

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10	Study of Safety of Aircraft Having Single Dual-Geared Power Plant	Apr. 1938	PB 122290	LC
11	The Effects of Oxygen Deprivation (High Altitude) on the Human Organism	May 1938	PB 122275	LC
12	The Development of an Improved Ultra-High Frequency Radio Fan Marker	July 1938	PB 122276	LC
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14	The Development, Adjustment, and Application of the Z-Marker	July 1938	PB 123544	LC
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18	Aeronautical Light Nomenclature	Aug. 1942	PB 122292	LC
19	The Alfaro Engine	Jan. 1939		Not Available
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23	Circuit Design for Low-Frequency Radio Ranges	Nov. 1939		Not Available
24	Preliminary Investigations of the Effects of Wave Polarization and Site Determination with the Portable Ultra-High-Frequency Visual Radio Range	Feb. 1940	PB 122279	LC
25	The Development of an Improved Impedance Measuring Box	June 1940	PB 123559	LC
26	Development of an Improved Crystal Exciter Unit	July 1940	PB 122294	LC
27	The Effect of a High-Frequency Disturbance on the Direct-Current Corona from a Short Point	Aug. 1940	PB 122295	LC
28	National Allocation Plan for assigning Radio-Range Frequencies in the Band 119-126 Megacycles	May 1941	PB 123560	LC

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32	Instrument Approach Performance Characteristics on Radio Instrument Landing Systems, Part I-UAL-Bendix System	June 1943	PB 122297	LC
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50	Flight Tests of the United Air Lines Stall Warning System	Apr. 1945	PB 127849	LC
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53	A Low Cost Boundary Lighting System for Small Airports	Aug. 1947	PB 132677	LC
54	Test Facilities - Aircraft Fire Protection Program	July 1947	PB 132234	LC
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58	An Investigation to Determine the Characteristics of Horizontal and Vertical Polarization for Very-High-Frequency Two-Course Visual Radio Ranges	July 1947	PB 132679	LC
59	Determination of Prefabricated Line Lengths for Very C.A.A. Localizers	Dec. 1947	PB 132680	LC
60	Some Considerations of High Intensity Approach Lighting	Oct. 1948	PB 122300	LC
61	Flight Tests of Sperry Microwave Instrument Landing System	Mar. 1947	PB	Not Available
62	Development of Aircraft Windshields to Resist Impact with Birds in Flight, Part I - Collision of Birds with Aircraft in Scheduled Commercial Operations in the Continental United States	Jan. 1949	PB 127850	LC
63	Polarization Errors of Two Different Omirange Antenna Arrays	Mar. 1947	PB 127851	LC

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66	Radar Mapping of Chicago-New York Airway	Apr. 1950	PB 122301	LC
67	Investigation of Fires Origination in Aircraft Vacuum Systems	May 1950		LC
68	Measurement of Sound Levels Associated with Aircraft, Highway and Railroad Traffic	July 1947	PB 132236	LC
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70	A Rotating Goniometer for the Low Frequency High Power Omirange	July 1949	PB 132683	LC
71	Impact Tests of Full-Tempered Glass Windshield Panels	Aug. 1949	PB 151347	OTS
72	The CAA Low Frequency Omirange	June 1949		LC
73	Development of a Gaseous Tube Directional Taxi-Way Marker Light	Sept. 1947		Not Available
74	Development of Aircraft Windshields to Resist Impact with Birds in Flight, Part II - Investigation of Windshield Materials and Methods of Windshield Mounting	Feb. 1950	PB 127832	LC
75	Development of a Stub Approach Light System	Dec. 1947		Not Available
76	Development of Interior Painting and Lighting for CAA Facilities	Mar. 1949	PB 132684	LC
77	Recent Omni Range Improvements and Status of Program	Feb. 1948		Not Available
78	Report on Comparative Tests of Existing Terrian Clearance Indicators	Mar. 1948		Not Available
79	A Method of Measuring Modulation Percentage by Using an Oscillator-Mixer-Amplifier and Oscillograph	June 1949		LC
80	A study of the Soil Stabilizing Properties of Tung Oil	Apr. 1948		Not Available
81	Theoretical Consideration of an Improved Glide Path Antenna System	Mar. 1949	PB 132685	LC
82	Development of Airport Control Tower Lighting	Apr. 1949	PB 122303	LC
83	Initial Flight Tests and Theory of an Experimental Parallel Course Computer	Sept 1948	PB 132686	LC
84	Comparative Tests of Vertically and Circularly Polarized Airport Traffic Control Transmitting Antennas	Sept. 1948	PB 132687	LC

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86	The Development of Fire-Retardant Coatings for Fabric Covered Aircraft	Oct. 1948	PB 122304	LC
87	Radar Ignition of Photoflash Lamps	Nov. 1948	PB 132688	LC
88	The Position Plotter	Dec. 1948	PB 132689	LC
89	The Celestial Altitude Differential Computer	Jan. 1949	PB 123566	LC
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94	VOR Flight Calibration with C45 Aircraft	June 1949	PB 132692	LC
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99	The Effect of Variations in Air Pressure on Indicated Densities of Compacted Crushed Stone as Determined by the Rainhart Density Balloon Apparatus	Sept 1949		Not Available
100	Determination of Air Speed Required to Control Landing Gear Fires	Dec. 1949	PB 132694	LC
101	Evaluation of a Chemical Sprinkler Type Fire Extinguishing System for VOR Type S Buildings	Jan. 1950		Not Available
102	Investigation of Interference with Lafayette VHF Omnitrange	Jan. 1950		Not Available
103	Combined Tone and Phase Comparison Localizer Facility			Not Available
104	The Slope Line Approach Light System	Mar. 1950	PB 127852	LC
105	Development of Aircraft Windshields to Resist Impact with Birds in Flight, Part III - Impact Characteristics of Aircraft Windshields Incorporating Polyvinyl Butyral Plastic Interlayer	Mar. 1950	PB 122305	LC
106	An Investigation of the Efficacy of the XF9F-3 Fire Screen Installation	Apr. 1950		Not Available

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107	Determination of Means to Safeguard Aircraft from Power Plant Fires in Flight, Part IV-	Apr. 1950	PB 118914	LC
108	The Load Transmission Test for Flexible Paving and Base Courses, Part I - A Description of the Testing Apparatus, Operating Methods, and Anticipated Uses of Test Data	Apr. 1950	PB 127853	LC
109	VHF Antenna Characteristics	Apr. 1950		Not Available
110	Evaluation of an Experimental Signal Light Gun	Apr. 1950		Not Available
111	Evaluation of Federal Telecommunication Laboratories Omnitrange Antenna	May 1950		Not Available
112	Evaluation of a Combined Omnitrange-Distance Measuring Equipment and Racon Installation	June 1950		Not Available
113	The CAA VHF Omnitrange	June 1950	PB 122834	LC
114	UHF Distance Measuring Equipment for Air Navigation	June 1950	PB 122285	LC
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116	The Development of Techniques for the Utilization of VHF Radio in Light Aircraft	June 1950	PB 123568	LC
117	Performance Tests of the Lear VHF Omnitrange	June 1950		Not Available
118	Some Recent Developments in Radio Controlled Flight and Landing	July 1950	PB 118915	LC
119	Evaluation of 100-Channel Distance Measuring Equipment	July 1950	PB 132696	LC
120	Performance Tests of the NARCO VHF Omnitrange	Apr. 1951		LC
121	Nantucket MOR Adjustments and Flight Tests for the Evaluation Program	Sept 1950		Not Available
122	Procedure for Calibration Collins 51R-1 Navigation and BC733D Localizer Receivers	Sept 1950	PB 132697	LC
123	Airline Pilot Questionnaire Study on Cockpit Visibility Problems	Sept 1950	PB 122306	LC
124	Hailstone Impact Tests on Aircraft Structural Components	Sept 1950	PB 132698	LC
125	Evaluation of the Four-Loop Omnitrange Antenna	Sept 1950		Not Available
126	VHF Omnitrange Wave Reflection from Wires	May 1952	PB 123569	LC
127	The Measurement of Soil Moisture and Density by Neutron and Gamma-Ray Scattering	Oct. 1950	PB 123569	LC
128	Flight Tests of the Erie, Pennsylvania, VOR.	Oct. 1950		Not Available

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130	Notes on External Aircraft Lighting Developments			Not Available
131	Use of the Rational Formula in Airport Drainage	Apr 1953	PB 132699	OTS
132	Interference Between VHF Navigation Receivers	Apr 1953	PB 127855	LC
133	Perspective Analysis of the Proposed ALPA Approach Light System (Supplement to TD Report No. 96) - Perspective Analysis of Approach Light Patterns	Jan. 1951	PB 127856	LC
134	An Investigation of the Crash-Fire Problems in Transport Aircraft Fuel Tanks	Jan. 1951	PB 122307	LC
135	Fire Test of R-4360 Engine Nacelle as Used in an Installation Similar to the B-50	Jan 1951		Not Available
136	A Summary Report on Soil Stabilization by the Use of Chemical Admixtures	Feb. 1951	PB 118810	OTS
137	30-Degree Modified Slope-Line Approach-Light System	Feb 1951	PB 132700	OTS
138	The TDEC Course Line and Pictorial Computer Programs	Mar. 1951		Not Available
139	Mountain-Top VOR Site Flight Tests	Mar 1951	PB 127857	LC
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142	Determination of Ignition Characteristics of Hydraulic Fluids, Part II - Flammability Reference Scale	May 1951	PB 118924	LC
143	Development and Flight Tests of the CAA Type VI Course Line Computer	May 1951	PB 127858	LC
144	The Load Transmission Test for Flexible Paving and Base Courses, Part II - Triaxial Test Data on Structural Properties of Granular Base Materials	June 1951	PB 132239	OTS
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146	Evaluation of Flight Fire Protection Means for Inaccessible Aircraft Baggage Compartments	June 1951	PB 123552	LC
147	Evaluation of Proposed Air Traffic Control Procedures in the Washington Terminal Area by Simulation Technics	July 1951		Not Available
148	Evaluation of Hughes Obstruction Warning Radar Model HTR-13A	Oct. 1951		Not Available

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159	Investigation of the Vulnerability of Aircraft Engine Oil Tanks to Accessory Section Fires	Feb. 1952	PB 127839	LC
160	An Experimental Counterrotating Marker Beacon	Feb. 1952	PB 123571	LC
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167	Modifications of the Slope Line Approach Light System	Apr. 1952	PB 127845	LC
168	Procedure for Adjusting Percentage Modulation of Test Equipment Used to Calibrate ILS Receivers	Apr. 1953		LC
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174	Identification of DME Transponders	June 1952		LC
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176	Evaluation of Airport Surface Detection Equipment, Model AN/MPN - 7 (XW-1), Part II Operational Evaluation	Nov. 1952	PB 123575	LC
177	Laboratory Compaction Tests of Coarse-Graded Paving and Embankment Materials	June 1952	PB 132242	LC
178	An Analysis of the Candlepower Distribution Requirements of Runway Lights	June 1952	PB 127835	LC
179	A Study of Pilot's Eye Movements During Visual Flight Conditions	June 1952	PB 123576	LC
180	A Preliminary Study of Unidentified Targets Observed on Air Traffic Control Radars	May 1953	PB 118919	LC
181	MTI Performance of the ASR-1 and ASR-2 Radars	May 1952		Not Available
182	Effects of Various Antenna Rotational Rates on a Type ASR-1 Radar	Sept. 1952		Not Available
183	Development of a VHF Directional Localizer, Part I - Preliminary Tests; Part II - The Monitor	May 1954		OTS
184	Aircraft Fire Extinguishment, Part I - A Study of Factors Influencing Extinguishing System Design	Oct. 1952	PB 122835	LC
185	Evaluation of Proposed Traffic Control Procedures for the Norfolk Terminal Area by Simulation Techniques	Jan. 1955		LC
186	Field Equipment for Vibratory Compaction of Soils and Base Courses	Nov. 1952	PB 122308	LC
187	Preliminary Study of Traffic Control Systems for the Proposed Washington Supplemental Airport Using Simulation Techniques	Nov. 1952		Not Available
188	Evaluation of Prototype CA-2944 10-KC Goniometer Limiters	Nov. 1952		Not Available

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193	A VOR-DME Simulator for Link Trainers	Mar. 1953	PB 118921	LC
194	Modifications and Tests of Radioactive Probes for Measuring Soil Moisture and Density	Mar. 1953	PB 132709	OTS
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196	The Fire Resistance of Aluminum-Alloy Control Rods Protected by ALBI-RX Fire-Retardent Coating	Mar. 1953		Not Available
197	Harmonic Radiation from the Type TUI Transmitter	Apr. 1953		Not Available
198	Determination of Means to Safeguard Aircraft from Power-Plant Fires in Flight, Part V- The Lockheed Constitution (Navy XR60-1)	Apr. 1953	PB 122839	LC
199	The Type V Pictorial Computer with Automatic Chart Selection, Part I - Development and Initial Tests	June 1954		OTS
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204	Observed VOR Bearing Errors Caused by 30-CPS Amplitude Modulation on the 9.96-KC Subcarrier	June 1953		Not Available
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209	The Type III Portable Pictorial Computer, Part II Technical and Operational Evaluation	June 1953	PB 127848	LC
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211	Characteristics of Magnesium Fluoride and P7 Phosphors for Radar PPI Applications	June 1953	PB 132714	LC
212	Developments in DME Interrogators	June 1953	PB 132715	LC
213	Evaluation of the Upson Stall Warning Indicator	Sept 1953	PB 132716	OTC
214	Characteristics of the Mohawk Airlines TVOR, Ithaca, New York			Not Available
215	A Review of Aircraft External Lighting Activities	Sept 1953		LC
216	Improvements in the Type CA-1277 VOR Monitor	Aug. 1955	PB 111827	LC
217	A Burner and Test Bench for Evaluating Aircraft Fire and Heat Detectors	Sept 1953	PB 132718	LC
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219	Evaluation of the Alford Slotted-Cylinder VOR Antenna	Aug. 1954		Not Available
220	Some Physical Properties of a Number of Proposed Constructions of Materials for Nonmetallic Crash-Resistant Aircraft Fuel Tanks	Dec. 1953	PB 118923	LC
221	Determination of Means to Safeguard Aircraft from Power-Plant Fires in Flight, Part VI - The North American Tornado, (Air Force XB-45)	Mar. 1954	PB 127838	LC
222	Analytical and Simulation Studies of Several Radar Vectoring Procedures in the Washington, D.C. Terminal Area	Apr. 1954	PB 111367	LC
223	Evaluation of the Continuous Resetting Type of Fire Detection System for the B-36 Nacelle	Nov. 1953		Not Available
224	Evaluation of Aircraft Radio Corporation Type H-14 Signal Generator as a Low-Cost Omnitest Facility	Dec. 1953		Not Available
225	The Development and Testing of the Terminal VHF Omnitest	Apr. 1954	PB 123579	LC
226	Evaluation of the Anscopilot	Jan. 1954		Not Available
227	Ground Calibration of the VOR	Oct. 1955	PB 121012	OTS
228	Development of a Lightweight Distance-Measuring Interrogator, Part I - The Model DIB Interrogator	Dec. 1956	PB 121789	OTS

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231	Test of Uskon Cloth to Reduce VOR Course Scalloping	Mar. 1954		Not Available
232	A TVOR Automatic-Rebroadcast System	May 1955		LC
233	Applicability of Magnetic-Drum Information Storage to the CAA Teletypewriter Circuits	Apr. 1954		LC
234	Evaluation of Kidde Continuous Fire Detector in an XB-45 Nacelle	Apr. 1954		Not Available
235	Development of Traffic Control Procedures for Tactical Airlift Operations	Apr. 1954		Not Available
236	Evaluation of Klincher Locknut in Hose Coupling Subjected to Fire and Vibration	Apr. 1954		Not Available
237	Dynamic-Simulation Tests of Several Traffic Dual-Airport Traffic Control Systems for Washington Terminal Area	May 1954		Not Available
238	Evaluation of a Controllable-Beam Runway Light	June 1954		LC
239	Dynamic-Simulation Tests of Several Traffic Control Systems for the Fort Worth-Dallas Terminal Area	Aug. 1954		Not Available
240	Aircraft Fire Extinguishment, Part IV-Evaluation of a Bromchloromethane Fire-Extinguishing System for the XB-45 Airplane	June 1954		LC
241	A Preliminary Study of Operational Advantages of Pictorial Navigation Displays	June 1954	PB 132233	LC
242	Technical and Operational Evaluation of the Type IV Pictorial-Display Equipment	June 1954	PB 132243	LC
243	The Type V Pictorial Computer with Automatic Chart Selection, Part II - Technical and Operational Evaluation	June 1954		LC
244	A Dual-Control Course-Line Computer, CAA Type IA	July 1954	PB 132724	LC
245	Evaluation by Simulation Techniques of a Proposed Traffic Control Procedure for the New York Metropolitan Area	Aug. 1954	PB 123551	LC
246	Development of a Variable-Parameter DME Interrogator	Sept. 1954		LC
247	CAA Type II Automatic Flight and Navigation Equipment	Sept. 1954	PB 132726	LC
248	Development of Helicopter Blade Tip Lighting	Oct. 1954	PB 111562	OTS
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251	Analytical and Simulation Studies of Terminal-Aera Air Traffic Control	May 1955	PB 127837	LC
252	A Terminal VHF Omirange Marker	Nov. 1954	PB 132729	LC
253	Evaluation of the General Mills-Ryan Flight Recorder	Aug. 1954		Not Available
254	A Survey of ADC Radars Between Norfolk, Virginia, and Boston, Massachusetts	Oct. 1954		Not Available
255	Evaluation of the Melpar Aural Bearing Generator	Nov. 1954		Not Available
256	Preliminary Evaluation of the Collins TVOR	Nov. 1954		Not Available
257	Operating Characteristics of the Four-Loop VOR Antenna in the 108-Mc Band	Mar. 1955	PB 132730	LC
258	A Survey of the MT. Tamalpais ADC Radar	Dec. 1954		Not Available
259	Determination of Some Geometric Relationships Pertaining to Collision Flight Paths	June 1955	PB 127836	LC
260	Aircraft Fire Extinguishment, Part V- Preliminary Report on High-Rate-Discharge Fire-Extinguishing Systems for Aircraft Power Plants	Feb. 1956	PB 121010	OTS
261	Evaluation of the TACAN System	May 1956	PB 121229	TDC
262	Evaluation of the FTL-21A Spinning Antenna	Feb. 1955		Not Available
263	Development of a Test Facility and Procedures for Evaluating Aircraft Hose Assemblies	Feb. 1955		Not Available
264	Test of Airway Beacons as Possible Approach-Angle Indicators	Feb. 1955		Not Available
265	Fire-Extinguishment Studies of the Convair-340 Power Plant	June 1955	PE 132238	LC
266	Fire-Resistance Studies of the Convair-340 Power Plant	June 1955	PB 132731	LC
267	Development and Evaluation of an L-Band Receiver Pre-Amplifier and a Transmitter Power Amplifier	Mar. 1955		Not Available
268	Initial Tests of the ANDB L-Band Secondary Radar System in Typical Terminal Area Traffic Operations	Sept 1956	PB 121688	OTS
269	The Load-Transmission Test for Flexible Paving and Base Course, Part IV - The Effect of Base-Course Quality on Load Transmission Through Flexible Pavements	Aug. 1955	PB 111828	OTS

	Title	Date Published	Order No.	Order From
70	Dynamic Simulation Tests of Several Traffic Control Systems for the Chicago Metropolitan Area	Apr. 1955		Not Available
'1	The Development of an Improved VOR/TVOR Monitor	June 1955	PB 132732	OTS
'2	Requirements of Threshold Lights	Apr. 1955	PB 151283	OTS
'3	Performance Tests of Four Federal Airways VOR Facilities	Apr. 1955		Not Available
4	Standardization of VOR Receiver-Recorder System Response	Apr. 1955	PB 151346	OTS
'5	Recommendations on Cockpit-Visibility Standards for Transport-Type Aircraft	Feb. 1956	PB 121011	OTS
6	Tests of Threshold Lighting Patterns	Aug. 1955	PB 151326	OTS
'7	Development of Fire Protection for A1Research Model GTP70-2 Gas-Turbine Auxiliary-Power Unit	Apr. 1956	PB 111831	OTS
'8	Effect of a Ground Discontinuity on a VOR	May 1956	PB 121228	OTS
'9	Simulation Tests of a Tactical Airway System	Oct 1955		OTS*
80	Effect of Element-Wall Thickness on Operation of Continuous Fire-Detector Systems	May 1956	PB 125115	OTS
.1	Tests of the Capacity of the ANDB Air Traffic Control Beacon System	Dec. 1955		Not Available
2	The Load-Transmission Test for Flexible Paving and Base Courses, Part V - Summary of Tire Tests on Various Pavements Overlying a Weak Subgrade	May 1956	PB 121146	OTS
.3	Aerodynamic Evaluation of Small Wing-Tip Tanks on a DC - 3 Aircraft	Mar. 1956		Not Available
4	Characteristics of Some Aircraft Anticollision Lights	June 1956	PB 121329	OTS
85	Evaluation of Black Rubber-Plastic Strip Holders for Flight-Progress Boards	Apr. 1956	PB 151060	OTS
.6	Fire-Detection Studies of the Northrop F-89 Power Plant	July 1956	PB 121447	OTS
'7	Simulation Tests of a Horizontal Display for the Control of High-Altitude Traffic	May 1956		OTS*
.8	Evaluation of the Dumont SRD-1 Bright-Radar Display and Initial Study of Other Display Techniques	July 1956	PB 151289	OTS
.9	Development of a Portable Radar Simulator	Sept 1956	PB 111847	OTS

TD No.	Title	Date Published	Order No.	Order From
290	PPI Presentation of Time-Shard Videos Having Synchronizing or Unsynchronizing Antenna Rotation Rates	July 1956	PB 131137	OTS
291	Impact Tests of Flexible Nonmetallic Aircraft Fuel Tanks Installed in Two Categories of Simulated Wing Structures	Jan. 1957	PB 121788	OTS
292	Development of a Lightweight Distance-Measuring Interrogator, Part II - The Model DIC Interrogator	Jan. 1957	PB 121787	OTS
293	Dynamic Simulation Tests of Several Traffic-Control Systems for the San Francisco Oakland Area	Sept 1956		Not Available
294	Evaluation of the Fire-Detection and Extinguishing Systems of the Navy XP6M-1 Airplane	Nov. 1956	PB 151513	OTS
295	Evaluation of the Continuous Resetting Fire-Detection System for B-36 Nacelle	Nov. 1956	PB 121777	OTS
296	Improvements to DME Interrogators and Development of Accessories	Jan. 1957	PB 121880	OTS
297	Summary of Joint FIL-TDC Simulation Activities in Air Traffic Control	Mar. 1957	PB 121919	OTS
298	Simulation Tests for Army Air Traffic Control	Dec. 1956	PB 131127	OTS
299	Diffraction and Shielding Effects of Radar Screens	Mar. 1957	PB 121918	OTS
300	A Development Plan for an Improved Air Traffic Control System (Revised)	Sept. 1956	PB 121841	OTS
301	Bird-Impact Test on Boeing Model 707 Airplane Windshield	Feb. 1957		Not Available
302	Evaluation of Fire-Detection Systems Proposed for the Martin VP6M Airplane	Feb. 1957	PB 151277	OTS*
303	Determination of Inertia Loads Which the Fuel Cells in the Fuselage of the Comet Model 4 Airplane may be Capable of Withstanding Without Rupture During Crash Conditions	Mar. 1957		Not Available
304	Determination of Daytime Conspicuity of Transport Aircraft	Apr. 1957	PB 131122	OTS
305	Evaluation of the Collins TVOR	Mar. 1957		Not Available
306	External Power Monitoring of the Model DTB DME Transponder	Apr 1957	PB 131102	OTS
307	Evaluation of Closed-Circuit Standard T.V. for ARTC Sector Coordination	Apr. 1957	PB 151288	OTS

Order No.	Title	Date Published	Order No.	Order From
08	Operational Requirements for ATC Displays	Apr. 1957	PB 131387	OTS
09	Improvements of Echo Suppression in DME Transponders	Mar. 1957	PB 131138	OTS
10	Tests of Narrow-Band Transmission of Radar Beacon Data	May 1957		Not Available
11	A Study of Flame Propagation Through Holes in Firewalls	May 1957		Not Available
12	Bird Ingestion Test of an Allison T-56 Turbine Engine (Civil Model 501-D13)	May 1957		Not Available
13	A Summary of Crash Fire and Injury Rates in Helicopter Accidents	June 1957		OTS*
14	VHF Omnitrange Reflections from a Single Tree	May 1957	PB 131136	OTS
15	Simulation Tests of IFR Operations at the Proposed Davidsonville Naval Air Station	June 1957		Not Available
16	Dynamic Simulation Tests of Baltimore Friendship Airport at Increased Traffic Densities	July 1957		Not Available
17	A Brief Study of the Suitability of Titanium and a Titanium Alloy as Firewall Material	Sept. 1957	PB 131392	OTS
18	Simulation Tests of the Northrop Sky Screen as and Air Traffic Control Display	July 1957		Not Available
19	Effect of Fuel Ingestion on Turbojet Engine Operation	Aug. 1957	PB 131907	OTS
20	Fire Detection Requirements for the Martin XP6M-1 Airplane Powerplant	Sept. 1957		OTS*
21	Summary of VG Radar Indicator Tests	Sept 1957		Not Available
22	An Investigation of Some Parameters Related to Midair Collisions of Aircraft	Oct. 1957	PB 131468	OTS
24	Initial Evaluation of Radar AN/FPS-31 (XD-1)	Sept. 1957		Not Available
25	Further Evaluation of a Modified Controllable-Beam Runway Light	Oct. 1957	PB 131494	OTS
26	Preliminary Evaluation of the Bell Aircraft Automatic Landing System			Not Available
27	Investigation of Fires Originating from an Aircraft Oxygen System	Mar. 1958	PB 131730	OTS
28	Preliminary Flight Tests of the Farrand Optical Scanner	Oct. 1957		Not Available
29	A Study of the Air Traffic Control Radar Beacon System Characteristics	Oct. 1957		Not Available

TD No.	Title	Date Published	Order No.	Order From
330	A Preliminary Operational Evaluation of VOLSCAN Model GSN-3 (XD-1)	Nov. 1957	PB 151284	OTS
331	Evaluation of Quadradar	Nov. 1957		Not Available
332	Air Traffic Simulation Tests of Three Proposed Sites for the Washington Supplemental Airport	Nov 1957		Not Available
333	The Practical Determination of Strength of Aircraft Fabric with Dope Removed	Jan. 1958	PB 131639	OTS
334	Evaluation of the Fire Extinguishing System on a Modified PBY Airplane	Dec. 1957		Not Available
335	Evaluation of a Ditto Model D11A Duplicator for Printing Flight Progress Strips in ARTC Centers	Dec. 1957		Not Available
336	A Directional Glide Path	Feb. 1958	PB 131742	OTS
337	Counterpoise-Mounted VOR Monitor Units	Apr. 1958	PB 131760	OTS
338	A Preliminary Evaluation of Narrow-Gauge Runway Lighting and Runway Surface Illumination	Feb. 1958	PB 131729	OTS
339	Initial Evaluation of Two Bright Radar Displays in the Indianapolis Tower	Feb. 1958		Not Available
340	Feasibility of Using a General-Purpose Computer in the Central Altitude Reservation Facility	Feb. 1958		Not Available
341	Simulation Tests of the Factors Affecting IFR Traffic Capacity at Chicago O'Hare Airport	Feb. 1958		Not Available
342	Bird-Impact Tests of the Boeing Model 707 Airplane Eyebrow Window	Apr. 1958		Not Available
343	A Percentage Modulation Indicator	Mar. 1958		Not Available
344	An Investigation of Some Means to Improve the Daytime Conspicuity of Aircraft	July 1958	PB 151234	OTS
345	Preliminary Tests of Application of Computers for Processing of Tabular Flight Data	Mar. 1958		Not Available
346	Programming the IBM 650 Computer for Preparation of Flight Progress Strips in CAA ARTC Centers	Mar. 1958		Not Available
347	The Load Transmission Tests for Flexible Paving and Base Courses, Part VI - Summary of Tests with Single-Tire Loading	May 1958	PB 131890	OTS
348	Bird-Impact Test of the Douglas Model DC-8 Airplane Windshield	May 1958		Not Available
349	VOR Interference Tests with 50 KC Frequency Separation	May 1958		Not Available
350	A Pilot Questionnaire Study of Cockpit Visibility Requirements for Army Helicopters	May 1958		Not Available

	Title	Date Published	Order No.	Order From
.1	Determination of Means to Safeguard Rotary-Wing Aircraft from Powerplant Fires in Flight, Part I - Fire-Detection and Fire-Resistance Studies of a Sikorsky H-5A Helicopter	June 1958		OTS
.2	A Preliminary Report on the Simulation of Proposed ATC Procedures for Civil Jet Aircraft	May 1958	PB 151426	OTS
3	Use of Condenser Discharge Lights as Runway-End Identifiers	June 1958		Not Available
4	A Study of the Helicopter Crash-Fire Problem	May 1958		OTS
5	Preliminary Tests of a Precision VHF Omnitrange	Aug. 1958	PB 151317	OTS
6	Dynamic Tests of Several Traffic Control Systems for the Los Angeles Area	June 1958		Not Available
7	A Study of Ignition Hazards and Fire-Resistance of the Boeing 707 Powerplant	Aug. 1958	PB 151328	OTS
8	Tests of the Hazeltine VOR Monitor and Field Detector	Aug. 1958		Not Available
9	Evaluation of the Lorenz VOR Antenna	Aug. 1958		Not Available
0	The Increase in Fire-Resistance Provided by Fire-Resistant Coatings on Aluminum and Magnesium Sheet	Aug. 1958		Not Available
1	The Navy Electronics Laboratory Pillbox Antenna and Its Effect Upon ATC Radar Beacon Interrogation	Aug. 1958		Not Available
2	An Evaluation of Nylon Flight Progress Strip Holders	Aug. 1958		Not Available
3	Performance Measurements on the Airport and Airway Surveillance Radar (AASR)	Aug 1958		Not Available
.4	A Technical Evaluation of the Rockville-Indianapolis Microwave Link	Aug. 1958		Not Available
.5	Fire Extinguishing Studies of the Northrop F-89 Powerplant	Oct. 1958	PB 151357	OTS
.6	Evaluation of Means Adopter to Provide Fire Protection in B-36 Aircraft Powerplants	Dec. 1958	PB 151520	OTS
.7	The CAA Directional Localizer	Aug. 1958		Not Available
.8	Selectivity Tests of Tunable VOR Receivers	Sept. 1958		Not Available
.9	Cockpit Visibility Requirements for Army Liaison Reconnaissance-Type Airplanes, Part I - Pilot Opinion and Tolerance Study	Sept 1958		Not Available
0	A Limited Study of the Effect of Airflow on Hot Surface Ignition Temperatures of Several Aircraft Flammable Fluids	Sept. 1958		Not Available
.1	Some Methods for Inspecting Adhesive-Bonded Joints in Helicopter Rotor Blades	Sept. 1958		Not Available

TD No.	Title	Date Published	Order No.	Order From
372	Simulation Tests of Instrument Flight Rule Operations in the Detroit Metropolitan Area	Oct. 1958		Not Availabl
373	Operational Evaluation of the Union Switch and Signal Limited Data Display and Transfer System	Oct. 1958		Not Availabl
374	Bird Impact Tests of the Douglas DC-8 Airplane Eyebrow and Clear-View Window	Jan. 1959		Not Availabl
375	Evaluation of a Three-Demensional Pictorial Air Traffic Control Display	Nov. 1958		Not Availabl
376	Observations on the In-Flight Effectiveness of FC-30 Windshield Rain Repellent	Nov. 1958		Not Availabl
377	Development of Instrumentation for the Study of Pilots Eye Movements in Army Helicopters	Dec. 1958		Not Availabl
378	An Analysis of Lettering Styles for an Improved Raster-Type Data Display	Dec. 1958		Not Availabl
379	Preliminary Study of Aircraft Radar Target Size	Dec. 1958		Not Availabl
380	Evaluation of a Transistorized Trigger Delay Unit	Dec. 1958		Not Availabl
381	Fire-Detection Requirements for the Boeing 707 Powerplant	Jan. 1959		Not Availabl
382	Determination of the Daytime Conspicuity of a Small Airplane in a Terminal Area			OTS
383	Evaluation of Radar Light Guns in the Washington National Airport IFR Room	Jan 1959		Not Availabl
384	A Light Gun for Radar Hand-Off of Aircraft Between Air Traffic Controllers	Jan. 1959		Not Availabl
385	Dynamic Simulation Tests of Several Traffic Control Systems for the Jacksonville Area	Feb. 1959		Not Availabl
386	Simulation Tests of Air Traffic Operations in the Seattle-Tacoma Area	Feb. 1959		Not Availabl
387	An Evaluation of Two Formats for Flight Plan Input Messages to ATC Computers	Mar. 1959		Not Availabl
388	Evaluation of the TI-440 Picture Transformer Equipment and Notes on Television-Type Air Traffic Control Displays	Mar. 1959		Not Availabl
389	A Study of Pilot Eye Movements During Visual Flight Conditions in Army Fixed-Wing Liaison-Reconnaissance-Type Aircraft	Feb. 1959		Not Availabl
390	An Operational Evaluation of Three Electric Typewriter/Tape Machines for Flight-Plan Input to ATC Computers	Mar. 1959		Not Availabl
391	Television Electronic Marker for Radar Hand-Offs	Mar. 1959		Not Availabl
392	The CAA Doppler Omnisrange	Apr. 1959		Not Availabl

D	Title	Date Published	Order No.	Order From
93	Evaluation of the Tonotron Storage Tube for Radar Display Systems	Mar. 1959		Not Available
94	An Operational Evaluation of the IBM Cardatype for Preparing Flight Progress Strips	Mar. 1959		Not Available
95	An Evaluation of Radar Advisory Service to VFR Flights	Mar. 1959		Not Available
96	An Evaluation of Iatron Project Units and RAFAX Narrow-Band Radar Transmission System	Mar. 1959		Not Available
97	Development of Crash-Resistant Aircraft Flammable Fluid Systems, Part I - Delineation of the Problem	Mar. 1959		Not Available
98	Dynamic Simulation Test of Several Air Traffic Control Systems for the Kansas City Area	Mar. 1959		Not Available
99	Characteristics of a VOR on a 200 Foot Tower	Mar. 1959		Not Available
00	An Operational Evaluation of the IBM 650 Computer for Air Traffic Control	Apr. 1959		Not Available
01	Simulation Tests of Air Traffic Control Operations in the Tampa Terminal Area	Apr. 1959		Not Available
02	An Operational Evaluation of Radar Displays Utilizing Scan-Conversion Equipment	Apr. 1959		Not Available
03	Aircraft Installation and Operation of Extinguishing-Agent Concentration Recorder	Apr. 1959		Not Available
04	Simulation Studies of a Metered Approach System Utilizing Remote Holding Fixes	Apr. 1959		Not Available
05	Evaluations of a TV Marker for Radar Handoff	Apr. 1959		Not Available
06	Simulation Tests of Proposed ATC Procedures Applicable to Future Operations in the Washington Terminal Area	Apr. 1959		Not Available
07	Tests of the SRS-1 Equipment Modified for Air Traffic Control Use	Apr. 1959		Not Available
08	Studies of TACAN Monitor Antenna Locations	Apr. 1959		Not Available
09	The Development and Evaluation of a Fire-Extinguishing System for the Martin YP6M Airplane	Apr. 1959		Not Available
10	The Use of Simulation in ATC Systems Engineering	Apr. 1959		Not Available
11	Simulation Tests of Air Traffic Control Operations in the Denver-Colorado Springs Area	May 1959		Not Available
12	Programming IBM 650 RAMAC Computer for Data Processing in an Air Traffic Control Center	May 1959		Not Available

TD No.		Date Published	Order No.	Order From
413	Final Report Airways Operations Evaluation Center Activities	May 1959		Not Available
414	Final Series of Tests of SRS-1 with Modification for Air Traffic Control (Seperate Appendix, includes Working Papers on the SRS Project)	Mar. 1960		Not Available
415	PPI Presentation of Two Unsynchronized Time- Shared Radar Inputs	Apr. 1961		Not Available
416	The Development of a Single Channel Belt Conveyor System for the Indianapolis Air Route Traffic Control Center	Nov. 1959		Not Available
417	A Study of VOR Reflection Characteristics	Mar. 1961		Not Available
418	Preliminary Evaluation of a Type LE-3 Limander Audio Amplifier	Nov. 1959		Not Available
419	Development of General Specification for a Device for Inspection of Helicopter Blade Bonding	Nov. 1959		Not Available
420	The Load Transmission Tests for Flexible Paving and Base Courses, Part VI-Summary of Tests with Multiple Wheel Loading		(PROJECT CANCELLED)	
421	Study of Aircraft Radar Target Size	Apr. 1959		Not Available
422	Development of an Air Traffic Control System for the Miami Terminal Area by Simulation	Mar. 1959		Not Available

END

TECHNICAL DEVELOPMENT NOTES

Publication of Technical Development Notes was discontinued with No. 48

D o.	Title	Published	Order No.	Order From
	Supplemental Justification for 1938-1939			Not Available
	Budget Estimate	Sept. 1937		Not Available
	Method of Functioning of the Division	Oct. 1937		Not Available
	Improved Radio Hearing Aids	Jan. 1938		Not Available
	Survey of Study and Development Needs of the Aviation Industry	Dec. 1937		Not Available
	Report on Tests at the Philadelphia Radio Range	Aug. 1938		Not Available
	Preliminary Analysis of Accidents in Scheduled Air Commerce	Apr. 1938		Not Available
	Memorandum Concerning Government Air Travel	Sept. 1938		Not Available
	Comparison of Direction Finder Bearings Taken on Transmitting Stations Employing Loop and Vertical Antennas	Oct. 1938		Not Available
	Proposed Program for the Development of Alaskan Airports	Oct. 1938		Not Available
	Memorandum on Proposed Experimental Air Mail Contracts	Nov. 1938		Not Available
	Memorandum Concerning Air Carrier Operations Safety Procedure	Nov. 1938		Not Available
	Memorandum Concerning Radio Communications	Nov. 1938		Not Available
	Operations Requirements, Air Mail Pickup Contracts	Nov. 1938		Not Available
	Superficial Corrosion Attack on the Surfaces of Alclad Sheets	Dec. 1938	PB 126528	LC
	Report of Tests Conducted with the Pan-American Airways Direction Finder at Alameda, California	Jan. 1939		Not Available
	Report of Survey of Aeronautical Radio Technical Developments in Europe and Activities in Connection with the Third World Conference of Radiotelegraph Experts	Feb. 1939		Not Available

TD No.	Title	Date Published	Order No.	Order From
17	Report of Aviation Medical Meeting, Kansas City, Mo., Jan. 24-25, 1939	May 1939		Not Avail
18	Studies to Develop Methods of Determining Emotional Stability	May 1939		Not Avail
19	Analysis of Fatal Accidents in Miscellaneous Flying	Jan. 1939		Not Avail
20	Methods Developed for the Elimination of Voice Interference on Simultaneous Radio Ranges	Jan. 1940		Not Avail
21	A Plan to Facilitate Approaches at Controlled Airports	Jan. 1940		Not Avail
22	Low Visibility Airport Windrose Summaries	July 1940	PB 122267	LC
23	Proposed Airport Development Plan for the Territory of Alaska	July 1940	PB 122268	LC
24	Service Tests on Seadrom Lights	Nov. 1940	PB 122269	LC
25	Vertical Plane Antenna Field Patterns	June 1940	PB 122251	LC
26	A Method of Determining the Minimum Allowable Distance of Power Lines from Airport Boundaries for Noise-Free Radio Reception	Apr. 1941		Not Availab
27	Fire Resistance Characteristics of Asbestos Base Phenolic Impregnated Materials for Use in Aircraft Firewalls	Jan. 1943		Not Avail
28	Gain in Field Strength of Four Symmetrically Disposed Antennas Compared to One Antenna	Oct. 1942		Not Avail
29	Life Tests of Electric Discharge Lamps	May 1943		Not Avail
30	Interference Between Radio Aids to Air Navigation and Maritime Radio Beacons	Dec. 1942	PB 122252	LC
31	Design Recommendations for Fire Protection of Aircraft Power Plant Installations	Sept. 1943	PB 122270	LC
32	The Establishment of a Restricted Area for Seaplane Operation	Jan. 1944	PB 122253	LC
33	Aircraft Corrosion Resulting from the Use of Calcium Chloride on Airport Runways	Mar. 1944		Not Avail
34	Soil Stabilization by the Use of Rosin	Feb. 1946	PB 122271	LC
35	A Laboratory Study of the Soil Stabilizing Effectiveness of a Complex Salt of Abietic Acid	July 1944	PB 122272	LC
36	Horizontal Field Patterns of Very-High- Frequency Unsymmetrical Localizer Antenna Arrays	Jan. 1945	PB 122254	LC

Title	Date Published	Order No.	Order From
RMS Value of Horizontal Field Patterns of UHF Two-Course Radio Range	June 1945	PB 122255	LC
Effect of Parasitic Currents in Antennas of UHF Radio Ranges on Horizontal Field Patterns	June 1945	PB 122256	LC
Triangulation Tests at the New York, Pittsburgh and Washington Direction Finder Stations	Oct. 1945	PB 122257	LC
A Laboratory Study of the Effectiveness of Various Chemicals as Soil Stabilizing Agents	Oct. 1945		Not Available
Location of Underground Cable Failures	June 1946	PB 122259	LC
A Comparison of the Polar Stereographic, Gnomonic, and Transverse Mercator Projections for Polar Aeronautical Charts	Jan. 1947	PB 122260	LC
A Laboratory Study of the Soil Stabilizing Effectiveness of Artificial Resins with Special Emphasis on the Aniline-Furfural Resins	Jan. 1947	PB 122261	LC
Theoretical Considerations of Ultra-High- Frequency Two-Course Simultaneous Radio Ranges	Mar. 1947	PB 122262	LC
An Investigation of Site Requirements for Very-High-Frequency Radio Ranges	Apr. 1947	PB 122263	LC
Measurements of Noise Radiation from High- Voltage Transmission Lines	May 1947	PB 122264	LC
A Mathematical Study of Shearing Stresses Produced in a Pavement by the Locked Wheels of an Airplane During the Warm-Up of its Engines	May 1947	PB 122265	LC
Study on Vibrations Transmitted to Pavements During Warm-Up Period of Airplanes	Aug. 1947	PB 122266	LC