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All-Weather-Landing Operations Bibliography

Transportation Systems Center

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ALL-WEATHER-LANDING OPERATIONS BIBLIOGRAPHY

James M. Morris
Transportation Systems Center
55 Broadway
Cambridge, MA 02142



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Washington, D.C. 20591

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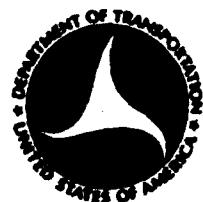
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PREFACE

The bibliography has been compiled in the course of work on Task C: Human Factors in Category III Operations of Project FAA207.

For most of the items in the bibliography, information as to where the abstract may be found, or a report may be obtained, has been included; i.e., A numbers (used in International Aerospace Abstracts), AD numbers (used in U.S. Government Research and Development Reports), and N numbers (used in NASA's Scientific and Technical Aerospace Reports) are listed where applicable.

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The topic index is presented to facilitate the reader in identifying an article, paper, or report in its chronological and appropriate topical area. Thus, 66-1:

"1. Adkins, L. A., et al

Plan For The Development Of All Weather Landing
System Reliability Analysis And Criteria, Phase I,
Jan 1966, FAA-RD-66-2"

is indexed under the year of 1966 and topic of "Safety, Reliability, and Maintenance."

The materials are enumerated 66-1, etc., by the alphabetical listing of each first author's last name. Where authorship is unknown, the article is listed at the end of each section.

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66 - 32					
66 - 33					
66 - 34					
66 - 35					
66 - 36					
66 - 37					
66 - 38					
66 - 39					
66 - 40					
66 - 41					

1. Adkins, L. A., et al
Plan For The Development Of All Weather Landing System
Reliability Analysis And Criteria, Phase I, Jan 1966, FAA-RD-
66-2
2. _____
Development Of All Weather Landing System Reliability
Analysis And Criteria For Category III Ground Systems, Phase
II Vol I, Aug 1966, FAA-RD-66-43-I, AD 640604
3. _____
Development Of All Weather Landing System Reliability
Analysis And Criteria For Category III Ground Systems, Phase
II Vol II, Aug 1966, FAA-RD-66-43-II, AD 640605
4. Armstrong, E. D.
Automatic Landing - Recent RAE Contributions, Electronics
and Power, Vol 12, July 1966, A66-35243 (cf RAE-TR-66316, AD
651487)
5. beck, R. H.
1200 RVR Cleared To Land, The Air Line Pilot, Aug 1966
6. Bentley, J.
Trident Automatic Landing Progress, Flight International,
Vol 89, June 1966, A 66-33560
7. Bressey, P. E.
The Pilots' Viewpoint On All Weather Operations, IFALPA
Symposium, Rotterdam, Oct 1965, Report Vol I, International
Federation of Air Line Pilots' Associations, A 66-33198
(A 66-33204)
8. Cane, A. P. W.
The Principles Of Low Weather Operations, IFALPA Sym-
posium, Rotterdam, Oct 1965, Report Vol I, International
Federation of Air Line Pilots' Associations, A 66-33198
(a 66-33209)

9. Cannon, C. H.
Military And Civil All Weather Landing Systems For
C-141, Journal of Aircraft, Vol 3, Nov-Dec 1966, A 67-12907;
AIAA/Ion Guidance and Control Conference, Minneapolis, Minn.
Aug 1965, American Institute of Aeronautics and Astronautics,
A 66-10001 (A 66-10035)
10. Collins, R. C.
The Different Views Of Cat. 1I, AIAA, Royal Aeronautical Society and Japan Society For Aeronautical And Space Sciences; Aircraft Design and Technology Meeting, Los Angeles, Calif., Nov 1965, AIAA paper 65-766, A 66-13061
11. Colwell, A. R.
Flight Control for Automatic Landing, Aircraft Engineering, Vol 38, Sep 1966, A 66-41163
12. Delagarde, J. and G. Reboulet
The "Sud-Lear" All-Weather Landing System, Automatisme, Vol II, July-Aug 1966 (In French), A 66-39400
13. Dirs, P.
Flight Development Of The VC-10 Toward Automatic Landing Capability, Aircraft Engineering, Vol 38, Sep 1966, A 66-41165
14. Fearnside, K. and P. Cane
Monitoring Information And Failure Warning To The Flight Crew During Autopilot Operations, Royal Aeronautical Society, Centenary Congress, International Council Of Aeronautical Sciences, 5th Congress, London, Sep 1966, ICAS paper 66-17, A 66-40671
15. Gilmore, R. E.
Evaluation Of Runway Centerline, High Speed Exit Taxiway And Runway-Remaining Lighting Systems For Category III Operations, FAA-RD-66-6, Dec 1966, AD 645114

16. Green, D.

Head-Up Displays - The State Of The Art And Some Thoughts
For The Future, IFALPA Symposium, Rotterdam, Oct 1965, Report
Vol I, International Federation Of Air Line Pilots' Associations,
A 66-33198 (A 66-33202)

17. Kramer, K. C.

An Operational All-Weather Landing System, IFALPA Symposium,
Rotterdam, Oct 1965, Report Vol I, International Federation Of
Air Line Pilots' Associations, A 66-33198 (A 66-33211)

18. Leary, F.

All-Weather Landing - When?, Space/Aeronautics, Vol. 45,
Feb 1966, A 66-23163

19. Mayhew, H. D.

ILS Feasibility Study Performance Of ILS Test Gear, RAE-
TR-6^037, Feb 1966, AD 802264L

20. Moore, G. S.

Progress In All Weather Landing Operations, AIAA, Royal
Aeronautical Society And Japan Society For Aeronautical And
Space Sciences, Aircraft Design and Technology Meeting, Los
Angeles, Calif., Nov 1965, AIAA Paper 65-767, A 66-13062

21. Morrall, J. C.

Initial Investigation Of Head-Up Display at BLEU, IFALPA
Symposium, Rotterdam, Oct 1965, Report Vol I, International
Federation Of Air Line Pilots' Associations, A 66-33198
(A66-33199), (cf RAE-TR-66195, June 1966, AD 818192)

22. _____

The Role Of The Pilot In All Weather Operation, RAE-TM-
BLEU-123, June 1966, AD 804648

23. Naish, J. M.

Display Research And Its Application To Civil Aircraft,
Royal Aeronautical Society Journal, Vol 69, Oct 1965, A 66-12884

24. Noxon, P.
Microvision - A New All Weather Landing Aid, IFALPA Symposium, Rotterdam, Oct 1965, Report Vol I, International Federation Of Air Line Pilots' Associations, A 66-33198 (A 66-33201)
25. Ormonroyd, F.
Automatic Landing Systems - Means For Improved Safety And Regularity, International Symposium On Civil Aviation Safety Stockholm, April 1966, Proceedings, Swedish Society of Aero-nautics, A 66-36990 (A 66-37005)
26. Owens, N.
Design And Development Of A Category III Monitor, FAA-RD-66-94, Nov 1966, AD 646143
27. Pressiat and Turboult
Equipment Developed For Blind Head-Up Display Units, IFALPA Symposium, Rotterdam, Oct 1965, Report Vol I, International Federation of Air Line Pilots' Associations, A 66-33198 (A 66-33203)
28. Price, H. E. and C. C. Kubokawa
Pilot Acceptance Factor In The Development Of All Weather Landing And SST Navigation Systems, IFALPA Symposium, Rotterdam, Oct 1965, Report Vol II, International Federation of Air Line Pilots' Associations, A 66-33212 (A 66-33219)
29. Proferes, N. J. and A. B. Winick
Interference To Aircraft Conducting Category II Instrument Approaches By Other Aircraft In Vicinity Of Airport, FAA-RD-65-107, Oct 1965, AD 623303
30. Reed, B.
Development Of Linear Glide Slope Field Detector For Use With Category I, II, and III Landing System Monitors, April 1966, FAA-RD-66-12, AD 641286

31. Rutherford, L. G.
Evaluation Of ICAO Recommended Category II Approach Light Systems For High Performance Aircraft, FAA-RD-66-23, March 1966
32. Schoenmann, R. L. and J. Doniger
The Boeing-Bendix Automatic Landing System For The 707 Aircraft, Aerospace Vehicle Flight Control Conference, Los Angeles, Calif. July 1965, Conference Proceedings, A 66-10661 (A 66-10663)
33. Schweighofer, H. M.
Instruments For Category II Approach And Transition, IFALPA Symposium, Rotterdam, Oct 1965, Report Vol I, International Federation Of Air Line Pilots' Associations, A 66-33198 (A 66-33210)
34. St. John, O. B.
The Implications Of All-Weather Landing In The United Kingdom, Royal Aeronautical Society, Centenary Congress, International Council Of The Aeronautical Sciences, 5th Congress, London, Sep 1966, ICAS paper 66-8, A 66-40675 (cf RAE-TR-67032, Feb 1967. AD 658309)
35. Uttersstrom, J. R. and R. E. Kestek
The Boeing - Bendix Precision Approach And Landing System, AIAA/Ion Guidance And Control Conference, Minneapolis, Minn., Aug 1965, American Institute Of Aeronautics And Astronautics, A 66-10001 (A 66-10033)
36. Utterstrom, J. R. and M. Sekijima
An Airline Manufacturer's Approach To Lower Minima, AIAA, Royal Aeronautical Society And Japan Society For Aeronautical and Space Sciences, Aircraft Design And Technology Meeting, Los Angeles, Calif., Nov 1965, AIAA paper 65-765, A 66-13060

37. Verlet, M.

French Air Line Pilots' Association Point Of View On The General Policy Of All Weather Operations And Head Up Displays, IFALPA Symposium, Rotterdam, Oct 1965, Report Vol I, International Federation Of Air Line Pilots' Associations, A 66-33198

38. Warren, K. R.

Principles Of Head-Up Display Design For Civil Aircraft, IFALPA Symposium, Rotterdam, Oct 1965, Report Vol I, International Federation Of Air Line Pilots' Associations, A 66-33198 (A 66-33200)

39. Wilson, D. and J. Hands

Flight Simulator Techniques Applied To All Weather Landing Problems, IFALPA Symposium, Rotterdam, Oct 1965, Report Vol I, International Federation Of Air Line Pilots' Associations, A 66-33198 (A 66-33205)

40. Lear Siegler Inc., Astronics Div.

Definition Of All Weather Landing System Requirements For Category III Operation In Convair 880 N112, April 1966, FAA-RD-66-26, AD 641023

41. _____

Criteria For Approval of Category II Landing Weather Minima, Federal Aviation Agency, FAA-AC-120-20, June 6, 1966

SECTION 3.

SELECTED BIBLIOGRAPHY 1967

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67 - 24	*				

1. Adkins, L. A., et al
Development Of All Weather Landing System Reliability Analysis And Criteria For Category III Airborne Systems, Phase III, Vol I, FAA-RD-67-20-I, May 1967, AD 655240
2. _____
Development Of All Weather Landing System Reliability Analysis And Criteria For Category III Airborne Systems, Phase III, Vol II, FAA-RD-67-20-II, May 1967, AD 655241
3. Benjamin, J., et al
Airborne Measurements of ILS Localizer Performance, RAE-TR-67141, June 1967, AD 820561
4. Briscce, J.
The Airport And All Weather Operations, Tenth Anglo-American Aeronautical Conference, Los Angeles, Calif., Oct 1967, AIAA paper 67-756, A 67-40989
5. Brown, A. D., et al
A Simulator Investigation Of the Problems Of Visual Taxi-Guidance In Low Visibilities, RAE-TR-67170, AD 828173
6. Doniger, J. and W. H. Schofield
Some Automatic Landing System Design Considerations For Scheduled Operations, AIAA, Commercial Aircraft Design And Operation Meeting, Los Angeles, Calif., June 1967, AIAA paper 67-406, A 67-30373
7. Evans, P. J.
The Head-Up Display As An Aid To All Weather Airline Operation And Aircraft Safety, 8th International Congress Aeronautique, Paris, May 1967, A 6-38545
8. Gainer, C. A., et al
All Weather Landing Simulation For Category III Airborne Configuration, Vol I, FAA-RD-67-56-I, Aug 1967, AD 659529

9. Gorham, J. A., et al
Where Are We Now With All Weather Landing? Society of Experimental Test Pilots, Technical Review, Vol 8, No. 4, Sep 1967, A68-21145
10. Hemingway, J. L.
Maintainability Concept Developments for Category Landing Systems, FAA Maintainability and Reliability Conference, Nov 1967
11. Henley, M. G.
Autoland - A Review of Progress Towards Lower Weather Minima Operations, 8th International Congress Aeronautique, Paris, May 1967, A68-38561
12. Marshall, D.
Low Visibility Operation For The SST Concorde Using Duplicated Monitored System To Achieve Automatic Failure Survival, 6th International Congress Aeronautique, Paris, May 1967, A68-38559
13. Naish, M. and C. L. Stout
The Total Systems Concept For Category III Operations, Society of Experimental Test Pilots, Technical Review, Vol 8, No. 4, Sep 1967, A68-21141
14. Norbury, F. T.
An ILS Equipment Designed For All Weather Landing of Aircraft, Air Traffic Control Systems Engineering and Design Conference, London, March 1967, A67-19671
15. Noxon, P. A.
Microvision System - 1967, 8th International Congress Aeronautique, Paris, May 1967, A68-38557
16. Osder, S. S.
Avionics Requirements For All Weather Landing Of Advanced SST's, Vol I, Analysis of System Concepts and Operational Problems, NASA-CR 73092, April 1967, N 67-28753

17. _____
Vol II, State Of The Art Review Of All Weather Landing System Techniques, NASA-CR 73093, April 1967, N 67-28754
18. _____
Vol III, Specific Problems Of SST And Related Technological Trends, NASA-CR 73094, April 1967, N 67-28794
19. Rector, J. D. and E. R. Hattendorf
Developments In Automatic And Manual Control Systems For All Weather Landing, 8th International Congress Aeronautique, Paris, May 1967, A 68-38560
20. _____
All Weather Landing Systems For Automatic and Manual Control, Navigation, Vol 14, Summer 1967, A 67-39611
21. Reede, C. M.
KLM - Research On The Lowering Of Weather Minima For Landing Of Aircraft, RAE-Library Trans. 1250, August 1967, AD 823794
22. Speas, R. D., et al
Cost/Benefit Analysis For All Weather Landing System Category II and Category III, FAA-RD-67-28, Oct 1967, AD 661830
23. Stein, K. J.
Monitor Aids C-141 All Weather Landing, Aviation Week And Space Technology, April 3, 1967
24. Sullings, F. J. and P. Waller
Automatic Landing Systems For All Weather Operation By Civil Transport Aircraft, Tenth Anglo-American Aeronautical Conference, Los Angeles, Calif., Oct 1967, AIAA paper 67-757
A 67-40990

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68 - 35				*	
68 - 36				*	

1. Armstrong, B. D., et al
Warning Monitors For Automatic Landing, RAE-TR-68094,
April 1968, AD 842297
2. Armstrong, B. D.
Difficulties With The Simulation Of Aircraft Landings,
RAE-TR-68116, May 1968, AD 840624
3. Beck, R. H.
The Hostile Environment Of Low Visibility, Air Line
Pilots' Association, 15th Air Safety Forum, Seattle, Wash.,
July 1968, A 68-43822
4. _____
A Pilot Looks At Visibility, The Air Line Pilot, Oct
1968
5. Cornell, C. E.
Minimizing Human Errors, Space/Aeronautics, March 1968,
A 68-23935
6. Gartner, W. B. and R. E. Shoemaker
Study Of Flight Management Requirements During SST Low
Visibility Approach and Landing Operations - Final Summary
Report, June 1968, NASA-CR 73243, N 68-32047
7. Grauling, C. H.
ILS Flight Inspection Positioning System, FAA-RD-68-45,
July 1968, AD 681101
8. Halaby, N. E.
All Weather Operations - Progress And Challenges, Astro-
nautics and Aeronautics, Vol 6, May 1968, A 68-28397
9. Kramer, K. C.
What You Should Know About All Weather Landing, I, II,
Society of Experimental Test Pilots, Technical Review, Vol
9, No. 1, 1968, A 68-27822

10. Litchford, G. B.
Analysis Of Cumulative Errors Associated with Category
2 and 3 Operations With Requirements For Additional Research,
NASA-CR 1188, Sep 1968, N 68-35595
11. _____
Low Visibility Landings - Part 1 -1200 RVR, Astronautics
And Aeronautics, Vol 6, Nov 1968, A 69-11391
12. _____
Low Visibility Landings - Part 2 - The Systems Challenge,
Astronautics And Aeronautics, Vol 6, Dec 1968, A 69-13853
13. Matthews, B. St. C. and H. C. Morgan
Flight Calibration Of The Instrument Landing Systems
At R.A.E. Bedford, RAE-TR-68075, March 1968, AD 841713
14. Mayes, D. J.
Instrument Approach Criteria - Part II - Autoland And Safety,
Institute Of Navigation, Journal, Vol 21, April 1968,
A 68-27830
15. Monroe, R. D., et al
Summary Of All Weather Landing Simulation Studies, FAA-
RD-68-13, Feb 1968, AD 671803
16. Moulton, M. F. and I. A. Watson
Some Engineering Techniques Used During Flight Trials Of
The VC-10 Automatic Landing System, Canadian Aeronautics And Space Journal, Vol 14, Sep 1968, A 68-43410
17. Parker, R. H. and J. E. Templemann
Boeing/Sperry Automatic Landing System For 727 Airplane,
Journal Of Aircraft, Vol 5, June 1968, A 68-27916
18. Person, S. D.
C-141A Flight Director System, Aviation And Space: Progress And Prospects; Proceedings of Annual Aviation And Space Conference, Beverly Hills, Calif., June 1968, A 68-33487

19. Pursel, R. H.
An Evaluation Of An All Weather Landing Panel Display,
FAA-RD-68-21, Aug 1968, AD 673261
20. Ormonroyd, F.
Instrument Approach Criteria - An Operators View, Institute of Navigation, Journal, Vol 21, April 1968, A 68-27831
21. St. John, O. B.
Safety and Reliability For All Weather Landing Systems,
Advanced Control System Concepts, AGARD-CP-58, Conference
Proceedings, Sep 1968, AD 701546
22. Seemple, C. A., et al
Effects Of 100 Foot Option Altitude Rule And An Annun-
ciator Panel On Failure Detection, Go-Around Decision And
Landing Performance, FAA-KD-68-11, Feb 1968, AD 672037
23. _____
Effects of Failure Type, Failure Altitude And An Experi-
mental Pitch Trim Augmentation Upon Mandatory Go-Around
Performance, FAA-RD-68-12, Feb 1968, AD 671893
24. Spinner, L. N. and V. L. Bencivenga
Advanced Scanning Beam Guidance System For All Weather
Landing, FAA-RD-68-2, Feb 1968, AD 665973
25. Stout, C. L.
Recent Developments In Head-up Display Systems, Air Line
Pilots' Association, 15th Air Safety Forum, Proceedings,
Seattle, Wash., July 1968, A 69-20451
26. Turnpaugh, H. A.
Man In The Maintenance Reliability System, FAA Main-
tenance Symposium, Proceedings, Oklahoma City, Okla.,
Dec 1968

27. Vreuls, D. and S. F. Barnebey

Pilot Failure Detection Performance With Three Levels
Of Fault Warning Information, FAA-RD-68-9, Feb 1968, AD 671892

28. Vreuls, D., et al

Evaluation Of Flight Director Elements - Rising Runway,
Expanded Localizer, and Rollout Steering - During Simulated
Category III-C Manual and Split-Axis Landings, FAA-RD-68-10,
Feb 1968, AD 672568

29. Wallis, L.

Blind Landings - The Next Stage, Aeroplane, Sep 1968

30. White, D. M.

A General Orientation to All Weather Landing, Human
Factors In Aviation, Human Factor Society 5th Annual Sym-
posium, Los Angeles, Calif., June 1968

31. Engineering Flight Test Results Of The Evaluation Of The
All Weather Landing System, ER8037, Engineering Reports,
Lockheed-Georgia Co., Jan 1968

32. Engineering Flight Test Development Report For The C-141
Category III-B All Weather Landing System, ER9290 Engineering
Report, Lockheed-Georgia Co., April 1968

33. C-141A Category III All Weather Landing System, ER8206,
Engineering Reports, Lockheed-Georgia Co., Aug 1968

34. Criteria For Approval Of Category II Landing Weather
Minima, Federal Aviation Administration, FAA-AC-120-20,
Change 1, Jan 12, 1968

35. Automatic Landing Systems, Federal Aviation Agency,
FAA-AC-20-57, Jan 29, 1968

36. Criteria For Approval Of Category II Landing Weather
Minima, Federal Aviation Administration, FAA-AC-120-20,
Change 2, May 21, 1968

SECTION 5.

SELECTED BIBLIOGRAPHY 1969

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	5.1 Approach and Landing	5.2 Human Factors	5.3 Navigation and Display Systems	5.4 Requirements and Standards	5.5 Safety Reliability and Maintenance
1969					
69 - 1	*		*		
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69 - 11	*			*	
69 - 12	*	*			
69 - 13	*				
69 - 14	*				
69 - 15	*				
69 - 16	*				
69 - 17				*	

1. Armitage, H. B.

A Pilot's Evaluation Of The C-141 Category III-B All Weather Landing System, Society of Experimental Test Pilots, Technical Review, Vol 9, No. 3, 1969, A 69-29701
2. Armstrong, B. D.

The Value Of A Head-Up Display When Landing A Large Aircraft, RAE-TR-69236, Oct 1969, AD 865259
3. Frisch, B.

The 747-Can We Cope With Its Success? Astronautics and Aeronautics, Vol 7, June 1969, A 69-31631
4. Howitt, J. S.

Flight-Deck Work Load Studies In Civil Transport Aircraft, Measurement Of Aircrew Performance, AGARD-CP-56, Dec 1969, Conference Proceedings, Aerospace Medical Panel Of AGARD, Brooks Air Force Base, May 1969
5. Litchford, G. B.

Study Of Advanced Electronic Applications To Aeronautical Display And Control Problems, NASA-CR-1240, Jan 1969, N 69-14729
6. Marshall, L. B.

Evaluation Of The C-141 Category III Landing System, FAA-RD-69-34, Oct 1969, AD 695804
7. Naish, J. M and M. F. von Wiesner

Human Factors In The All Weather Approach, Shell Aviation News 374, 1969, A 69-41871
8. Nelson, J. R.

All Weather Landing Development Tests, FAA Research And Development Report To Industry, June 1969
9. Pursel, R. H.

Test And Evaluation Of Decrab Display System, FAA-RD-69-11, April 1969, AD 684808

10. Robson, R. S. and J. Thomas
Airborne Instrument Landing Systems, Electronics For Civil Aviation, Electronic Engineering Association and Ministry of Technology, United Kingdom Symposium, London, Sep 1959, A 70-11982
11. Thomas, D. D.
What's Holding Up Low-Visibility Landing? Astronautics And Aeronautics, Vol 7, Aug 1969, A 69-38119
12. Landing Jumbos In Low Visibility: A Pilot Protests, Astronautics and Aeronautics, May 1969
13. Automatic Landing, Flight International, Oct 30, 1969
14. C-141 All-Weather Landing System For Lower Minimums, ER8081, Lockheed-Georgia Engineering Report, Feb 1969
15. Aircraft Landings - Vol I - DDC Bibliography, 350 References, April 1959 - Dec 1968, DDC - TAS-69-54-I, Oct 1969, AD 696600
16. Aircraft Landings - Vol II - DDC Bibliography, 700 References, Oct 1954 - Feb 1969, DDC - TAS-69-54-II, Oct 1969, AD 863000
17. Concepts Of Airborne Systems For Category IIIA Operations, Federal Aviation Administration, FAA-AC-120-28, Sep 5, 1969

SECTION 6.

SELECTED BIBLIOGRAPHY 1970

	6.1 Approach and Landing	6.2 Human Factors	6.3 Navigation and Display Systems	6.4 Requirements and Standards	6.5 Safety Reliability and Maintenance
1970					
70 - 1	*		*		
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70 - 28			*		
70 - 29			*		
70 - 30					
70 - 31					
70 - 32					
70 - 33	*				
70 - 34					
70 - 35					

1. Bencivenga, V. L.

Test And Evaluation Of An Advanced Integrated Landing System For All-Weather Landing, FAA-RD-70-28, Aug 1970, AD 714442

2. Benjamin, J.

Evolutionary Extension Of ILS, Aircraft Landing Systems, AGARD - CP-59-70, Sep 1970, Conference Proceedings, Symposium of Guidance and Control Panel of AGARD, Cambridge, MA, May 1969, AD 714925 .

3. _____

Application Of Correlation Techniques To Ground-Based Aids In The Terminal Area, Problems Of The Cockpit Environment, AGARD - CP-55, March 1970, AD 705369

4. Bishop, R. I. and J. Meadows

Integrity Monitoring Of Redundant Control Systems, Electronics For Civil Aviation, Electronic Eng. Assoc. And Ministry of Technology, U.K. Symposium, Sep 1969, A 70-11833

5. Bishop, R. I.

Development of Airborne Hardware For Automatic Landing Systems, Aircraft Landing Systems, AGARD - CP-59-70, Sep 1970, Conference Proceedings, Symposium of Guidance and Control Panel of AGARD, Cambridge, MA, May 1969, AD 714925

6. Clifford, D. R.

All-Weather Automatic Landing System Development And Testing, Annals Of Reliability And Maintainability, Vol 9, Proceedings of Ninth Reliability and Maintainability Conference, Detroit, Mich., July 1970, A 70-38821

7. Craig, D. K.

Recent Progress In All-Weather Landing Techniques - Part 2, Aeronautical Journal, Royal Aero. Soc., Vol 74, May 1970, (cf A 70-31392)

6. Dautremont, P.
Landing System Of Thompson/C S F, LS 371 - SATRAM-SYDAC/
ILS, Aircraft Landing Systems, AGARD - CP 59-70, Sep 1970, Conference Proceedings, Symposium of Guidance and Control Panel of AGARD, Cambridge, MA, May 1969, AD 714925
9. Deque, R.
Automatic Landing System Of The Concorde, Aircraft Landing Systems, AGARD - CP-59-70, Sep 1970, Conference Proceedings, Symposium of Guidance and Control Panel of AGARD, Cambridge, MA, May 1969, AD 714925
10. Glacken, R. and T. L. Cronley
The Autopilot For The C-141 All Weather Landing System, Aircraft Landing Systems, AGARD - CP-59-70, Sep 1970, Conference Proceedings, Symposium of Guidance and Control Panel of AGARD, Cambridge, MA, May 1969, AD 714925
11. Hopkins, V. D.
Human Factors In The Ground Control of Aircraft, AGARD - AG-142-70, April 1970, AD 706550
12. Johnson, E. W., et al
Psychological And Procedural Aspects Related To ILS Approaches And Landings In Visibilities Less Than 1200 Feet, Aircraft Landing Systems, AGARD - CP-59-70, Sep 1970, Conference Proceedings, Symposium Of Guidance And Control Panel Of AGARD, Cambridge, MA, May 1969, AD 714925
13. Lampard, T. R. G.
Radio Environment Monitoring For The Category 3 Instrument Landing System, RAE-TR-70076, May 1970, N 71-23356
14. Litchford, G. B.
New Developments In Landing Systems, Aircraft Landing Systems, AGARD - CP-59-70, Sep 1970, Conference Proceedings, Symposium of Guidance and Control Panel of AGARD, Cambridge, Ma, 1969, AD 714925

15. Loeb, J. L.

Automatic Landing Systems Are Here, Aircraft Landing Systems, AGARD - CP-59-70, Sep 1970, Conference Proceedings, Symposium of Guidance and Control Panel of AGARD, Cambridge, MA, May 1969, AD 714925

16. Loome, R. G.

Importance Of Speed Control Relative To Longitudinal Touchdown Dispersion, Aircraft Landing Systems, AGARD - CP-59-70, Sep 1970, Conference Proceedings, Symposium Of Guidance And Control Panel Of AGARD, Cambridge, MA, May 1969, AD 714925

17. Lorenzetti, R. C.

Direct Lift Control For Approach And Landing, Aircraft Landing Systems, AGARD - CP-59-70, Sep 1970, Conference Proceedings, Symposium Of Guidance And Control Panel Of AGARD, Cambridge, MA, May 1969, AD 714925

18. Madigan, R. J. and E. J. Koenke

Aided Inertial Flight Test Experiments, Aircraft Landing Systems, AGARD - CP-59-70, Sep 1970, Conference Proceedings, Symposium Of Guidance And Control Panel Of AGARD, Cambridge, MA, May 1969, AD 714925

19. MacKinnon, D.

Automatic Landing System Optimization Using Inertial Navigation Data And Modern Control Theory, Aircraft Landing Systems, AGARD - CP-59-70, Conference Proceedings, Symposium Of Guidance And Control Panel Of AGARD, Cambridge, MA, May 1969, AD 714925

20. McLeod, B. M.

An International Airline Views Automatic Landing Systems, Aircraft Landing Systems, AGARD - CP-59-70, Sep 1970, Conference Proceedings, Symposium Of Guidance And Control Panel Of AGARD, Cambridge, MA, May 1969, AD 714925

21. McManus, R. M. P.

Recent Progress In All-Weather Landing Techniques - part 1, Aeronautical Journal, Royal Aero. Soc., Vol 74, May 1970, A 70-31392

22. Moulton, M. F.

Experience Gained By B.A.C. And Elliott In The Development And Service Use Of Automatic Landing Systems, Aircraft Landing Systems, AGARD - CP-59-70, Sep 1970, Conference Proceedings, Symposium Of Guidance And Control Panel Of AGARD, Cambridge, MA, May 1969, AD 714925

23. _____

Technology For Better All Weather Landings, Flight International, Vol 98, Nov 1970, A 71-12275

24. Michot, Y.

Experience Of The French Flight Test Center In The Area Of All Weather Landing, Aircraft Landing Systems, AGARD - CP-59-70, Sep 1970, Conference Proceedings, Symposium Of Guidance And Control Panel of AGARD, Cambridge, MA, May 1969, AD 714925 (In French)

25. Pagnard, J.

The Automatic Pilot TAPIR, Aircraft Landing Systems, AGARD - CP-59-70, Sep 1970, Conference Proceedings, Symposium Of Guidance And Control Panel Of Agard, Cambridge, MA, May 1969, AD 714925 (In French)

26. St. John, O. B.

All Weather Landing, Aircraft Landing Systems, AGARD - CP-59-70, Sep 1970, Conference Proceedings, Symposium Of Guidance And Control Panel Of AGARD, Cambridge, MA, May 1969, AD 714925

27. Sheftel, D. J.

New Guidance Developments For All Weather Landing, Aircraft Landing Systems, AGARD - CP-59-70, Sep 1970, Conference Proceedings, Symposium Of Guidance And Control Panel Of AGARD, Cambridge, MA, May 1969, AD 714925

28. Trichet, J. C.

The Thompson - C S F Electronic Pilot Indicator Validates The Possibilities Of The Human Pilot, Air and Cosmos, Vol 8, Oct 24, 1970, A 71-10750 (In French)

29. Weston, J. L.

Development Of Automatic Landing For B E A Operation, Aircraft Landing Systems, AGARD - CP-59-70, Sep 1970, Conference Proceedings, Symposium Of Guidance And Control Panel of AGARD, Cambridge, MA, May 1969, AD 714925

30. Wilkinson, K. G.

Automatic Landing In B E A's Trident Operations - Review of Effort and Achievement, Aeronautical Journal, Vol 74, March 1970, A 70-25851

31. Wilson, J. W.

Autoland All Weather Progress, Flight International, Vol 98, Nov 1970, A 71-12274

32. Woodward, J.

Post 1970 Scanning Beam Approach And Landing, Aircraft Landing Systems, AGARD - CP-59-70, Sep 1970, Conference Proceedings, Symposium Of Guidance And Control Panel of AGARD, Cambridge, MA, May 1970, AD 714925

33. Yingling, G. L.

Examination Of Low Visibility Landing Program Below 200 Ft. And Federal Regulations Governing Operational Approach, A.I.A.A., Aircraft Design and Operations Meeting, Los Angeles, Calif., July 1970, AIAA paper 70-936, A 70-35845

34. Airworthiness Requirements For Automatic Landing Including Automatic Landing In Restricted Visibility Down To Category III, Air Registration Board, British Civil Airworthiness Requirements Paper No. 367, Issue 3, June 1970
35. Criteria For Approving Category I and Category II Landing Minima For FAR 121 Operators, Federal Aviation Administration, FAA-AC No. 120-29, Sep 25, 1970

SECTION 7.

SELECTED BIBLIOGRAPHY 1971

	7.1 Approach and Landing	7.2 Human Factors	7.3 Navigation and Display Systems	7.4 Requirements and Standards	7.5 Safety Reliability and Maintenance
1971					
71 - 1	*				*
71 - 2	*		*		
71 - 3			*		
71 - 4	*		*		
71 - 5	*				
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71 - 7	*		*		
71 - 8	*			*	
71 - 9	*			*	
71 - 10	*		*		
71 - 11	*			*	
71 - 12	*		*		

1. Ashforth, R. H.
The Operational Proving Of Automatic Flight Control Systems In The Approach And Landing Phase, Aviation Review, May 1971, A 71-29261
2. Canova, O. and M. Sentein
All-Weather "Sud-Lear" Landing System Mounted On Air Inter Caravelle Aircraft, L'Onde Electrique, Vol 51, May 1971 (In French), A 71-31913
3. Chambers, E.
Metrology And All-Weather Operation, Institute Of Navigation, Journal, Vol 24, Jan 1971, A 71-12275
4. Dautremont, P.
ILS Equipment For Category III Performance, L'Onde Electrique, Vol 51, May 1971 (In French), A 71-31909
5. Deque, R.
Automatic Landing System Of The Concorde, L'Onde Electrique, Vol 51, May 1971 (In French), A 71-31915
6. Holliday, G. and J. A. Gorham
Development Testing Of The L-1011 Independent Monitor, S.A.E. National Air Transportation Meeting, Atlanta, Ga., May 1971, S.A.E. paper 710443, A 71-28324
7. Lanilis, Cl.
ILS Reception System For Category III Landing Performance, L'Onde Electrique, Vol 51, May 1971 (In French), A 71-31912
8. Noltemeir, R. H.
Cat II's Role In Low Minimums, S.A.E. National Air Transportation Meeting, Atlanta, Ga., May 1971, S.A.E. paper 710442. A 71-34499

9. Russell, W.
From Automatic Landing To Category III, S.A.E. National Air Transportation Meeting, Atlanta, Ga., May 1971, S.A.E. paper 710441, A 71-28323
10. Smith, J. M., et al
Principles Of Performance Monitoring With Application To Automatic Landing, A.I.A.A. Guidance Control And Flight Mechanics Conference, Hofstra Univ., Aug 1971, A 71-37199
11. Smith, K. W.
All Weather Operations - Present Achievements and Future Prospects, Canadian Aeronautics And Space Institute, Royal Aero. Soc. And A.I.A.A., Anglo-American Aero. Conference, Calgary, Alberta, July 1971, C.A.S.I. paper 72/14, A 71-376001
12. Triplex and Simplex - The Trident and The Caravelle - Interavia, Vol 26, Oct 1971, A 71-44456