**Index to FAA Office of Aviation Medicine Reports: 1961 Through 1980**

An index to Office of Aviation Medicine Reports (1964-1980) and Civil Aeromedical Research Institute Reports (1961-1963) is presented as a reference for those engaged in aviation medicine and related activities. It provides a listing of all FAA aviation medicine reports published from 1961 through 1980 by year, number, author, title, and subject.
The newest addition to the Mike Monroney Aeronautical Center in Oklahoma City is the Radar Training Facility (RTF), which was dedicated on July 18, 1980. The RTF provides all incoming air traffic control students with a course of basic radar training. The evaluation process and the pass/fail criteria for the course were developed from the Civil Aeromedical Institute's research studies that appear in Office of Aviation Medicine Reports Nos. 80-5 and 80-15.
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1972


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1973

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1974


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74-9 Thackray, R. I., Touchstone, R. M., and Railey, J. P.: Behavioral, autonomic, and subjective reactions to low- and moderate-level sonic booms: A report of two experiments and a general evaluation of sonic boom startle effects. AD002266
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1975


75-2 Snow, C. C., Reynolds, H. M., and Allgood, M. A.: Anthropometry of airline stewardesses. ADA012965

75-3 Mathews, J. J., Cobb, B. B., Jr., and Collins, W. E.: Attitudes on en route air traffic control training and work: A comparison of recruits initially trained at the FAA Academy and recruits initially trained at assigned centers. ADA013343

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75-8 Thackray, R. I., Bailey, J. F., and Touchstone, R. M.: Physiological, subjective, and performance correlates of reported boredom and monotony while performing a simulated radar control task. ADA025426/8GI

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1976

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76-3 Tobias, J. V.: Massed versus distributed practice in learned improvement of speech intelligibility. ADA024705/GGI

76-4 Constant, G. N., Grimm, E. J., Goulden, D. R., and Murcko, L. E.: Aviation medicine translations: Annotated bibliography of recently translated material. IX. ADA031492/2GA


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1977


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1978

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78-24 Garner, J. D., Chandler, R. F., and Cook, E. A.: CPSS computer simulation of aircraft passenger emergency evacuations. ADA056098/7G1

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78-38 Eighth Bethesda Conference of the American College of Cardiology, Washington, D.C., April 25-26, 1975: Cardiovascular problems associated with aviation safety. ADA066184/3GA


78-40 Melton, C. E., McKenzie, J. M., Wicks, S. M., and Saldivar, J. T.: Stress in air traffic controllers: A restudy of 32 controllers 5 to 9 years later. ADA065767/6GA


1979

79-1 Index to FAA Office of Aviation Medicine Reports: 1961 through 1978. ADA067983/7GA

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79-18 Pickrel, E. W.: Performance standards for pass-fail determinations in the national air traffic flight service station training program.


79-26 Collins, W. E.: Performance effects of alcohol intoxication and hangover at ground level and at simulated altitude.

1980

80-1 Thackray, R. I.: Boredom and monotony as a consequence of automation: A consideration of the evidence relating boredom and monotony to stress. ADA085069/3

80-2 Friedberg, W., and Neas, B. R. (Eds.): Cosmic radiation exposure during air travel. ADA084801/0


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