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INDEX TO FAA OFFICE OF AVIATION MEDICINE REPORTS:
1961 THROUGH 1982

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Federal Aviation Administration
Oklahoma City, Oklahoma



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16. Abstract An index to Office of Aviation Medicine Reports (1964-1982) 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 1982 by year, number, author, title, and subject.			
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1969

- 69-1 Melton, C. E., Jr., and Wicks, M.: Binocular fusion time in sleep-deprived subjects. AD688426
- 69-2 Siegel, P. V., and Mohler, S. R.: Medical factors in U.S. general aviation accidents. AD689740
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1970

- 70-1 Index to FAA Office of Aviation Medicine Reports: 1961 through 1969. AD714027
- 70-2 Brecher, M. H., and Brecher, G. A.: Quantitative evaluation of optically induced disorientation. AD709329
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1971

- 71-1 Tobias, J. V.: Noise audiometry. AD723464
- 71-2 Melton, C. E., Jr., McKenzie, J. M., Polis, B. D., Funkhouser, G. E., and Iampietro, P. F.: Physiological responses in air traffic control personnel: O'Hare Tower. AD723465
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1972

- 72-1 Dille, J. R., and Grimm, M. H.: Index to FAA Office of Aviation Medicine Reports: 1961 through 1971. AD742607
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- 72-35 Collins, W. E., and Lampietro, P. F.: Simulated sonic booms and sleep: Effects of repeated booms of 1.0 psf. AD762988

1973

- 73-1 Braden, G. E., Reed, W., and Swearingen, J. J.: Application of commercial aircraft accident investigation techniques to a railroad derailment. AD764188
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73-22 Melton, C. E., Jr., McKenzie, J. M., Smith, R. C., Polis, B. D., Higgins, E. A., Hoffmann, S. M., Funkhouser, G. E., and Saldivar, J. T.: Physiological, biochemical, and psychological responses in air traffic control personnel: Comparison of the 5-day and 2-2-1 shift rotation patterns. AD778214

73-23 Leeper, R. C., Hasbrook, A. H., and Purswell, J. L.: Study of control force limits for female pilots. AD777839

1974

74-1 Dille, J. R., and Grimm, M. H.: Index to FAA Office of Aviation Medicine Reports: 1961 through 1973. AD779553

74-2 Mathews, J. J., Collins, W. E., and Cobb, B. B.: A sex comparison of reasons for attrition of nonjourneyman FAA air traffic controllers. AD780558

74-3 Collins, W. E.: Adaptation to vestibular disorientation. XII. Habituation of vestibular responses: an overview. AD780562

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74-8 Cobb, B. B., Jr., and Nelson, P. L.: Aircraft-pilot and other pre-employment experience as factors in the selection of air traffic controller trainees. ADA001039

74-9 Thackray, R. I., Touchstone, R. M., and Bailey, 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. ADA002266

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- 74-11 Melton, C. E., Jr., McKenzie, J. M., Saldivar, J. T., and Hoffmann, S. M.: Comparison of Opa Locka Tower with other ATC facilities by means of a biochemical stress index. ADA008378
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1975

- 75-1 Jones, K. N., Steen, J. A., and Collins, W. E.: Predictive validities of several clinical color vision tests for aviation signal light gun performance. ADA006792
- 75-2 Snow, C. C., Reynolds, H. M., and Allgood, M. A.: Anthropometry of airline stewardesses. ADA012965
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- 75-7 Melton, C. E., Jr., Smith, R. C., McKenzie, J. M., Saldivar, J. T., Hoffmann, S. M., and Fowler, P. R.: Stress in air traffic controllers: Comparison of two air route traffic control centers on different shift rotation patterns. ADA020679/7GI
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- 76-1 Jennings, A. E., and Chiles, W. D.: An investigation of time-sharing ability as a factor in complex performance. ADA031881/GGA
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- 77-1 Murcko, L. E., and Dille, J. R.: Index to FAA Office of Aviation Medicine Reports: 1961 through 1976. ADA037234/2GI
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