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ESL-TR-87-01

**LISTING OF TECHNICAL REPORTS
PUBLISHED FROM CY 1974
THROUGH CY 1986
PART I OF III (PAGES 1-196)**

J.A. BIER

HQ AFESC/RDXI
AF ENGINEERING & SERVICES CENTER
TYNDALL AFB FL 32403

OCTOBER 1987

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JANUARY 1974 - DECEMBER 1986



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**ENGINEERING & SERVICES LABORATORY
AIR FORCE ENGINEERING & SERVICES CENTER
TYNDALL AIR FORCE BASE, FLORIDA 32403**

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PREFACE

This report was prepared by the Headquarters Air Force Engineering and Services Center, Engineering and Services Laboratory (HQ AFESC/RDXI), Tyndall Air Force Base, Florida 32403.

This report contains a compilation of Engineering and Services Laboratory (ESL) technical reports covering civil and environmental engineering research and development published between calendar years 1974 and 1986. This list was obtained from Defense Technical Information Center and prepared by our Technical Library. AFESC/RDXI project officer was Captain Jeffrey A. Bier.

This technical report has been reviewed and is approved for publication.

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SECTION I

INTRODUCTION

OBJECTIVE

The objective of this report is to apprise Major Air Commands and other users of recent publications describing research and development, test and evaluation (RDT&E) technical efforts of the Headquarters Air Force Engineering and Services Center, Engineering and Services Laboratory (HQ AFESC/RD), Tyndall AFB, Florida.

BACKGROUND

Although our technical reports are available through Defense Technical Information Center (DTIC) and, in some cases, the National Technical Information Service (NTIS), all potential users may not know how to obtain listings of these reports or what each report contains. This technical report is intended to make you aware of our RDT&E work so that you may obtain the report and make better use of the documented research. A technical report of this type will be published each year and will list all our technical reports published in the previous calendar year.

SCOPE

This technical report contains the following: (1) A description of the Air Force Engineering and Services Laboratory; (2) A listing of technical reports published between 1975 and 1986 which are available through DTIC, cross-indexed by DTIC accession number, contract number, subject, technical report number, author, laboratory designation and title. In addition, a complete bibliographic abstract is provided. For more specific descriptions of the laboratory's current civil and environmental engineering goals, see ESL TR 86-10 FY 87 Technical Objective Document. ✓

SECTION II
THE ENGINEERING AND SERVICES LABORATORY (HQ AFESC/RD)

A. THE AIR FORCE ENGINEERING AND SERVICES CENTER (HQ AFESC)

The Air Force Engineering and Services Center, with headquarters at Tyndall Air Force Base near Panama City, Fla., has a dual role: one is recommending policy and developing programs in support of Headquarters United States Air Force, and the other is a worldwide assistance role, as a separate operating agency, for all Air Force commands and their installations.

More than 600 highly qualified professionals support the Center's operations. These carefully selected officers, civilians, noncommissioned officers and airmen form a team which provides a full range of management, training, and professional expertise in engineering and services.

The AFESC commander reports directly to the director of engineering and services at Air Force headquarters in Washington, D.C. AFESC guides and assists the Air Force commands, their installations, and other federal agencies in the areas of readiness, fire protection, facility energy, civil and environmental engineering, research and development, and the overall operation and maintenance of Air Force installations.

B. THE AIR FORCE ENGINEERING AND SERVICES LABORATORY (HQ AFESC/RD)

The Engineering and Services Laboratory, Air Force Engineering and Services Center, Tyndall Air Force Base, Florida is the United States Air Force's (USAF's) primary research, development, test and evaluation agency for (RDT&E) in civil and environmental engineering. In addition, the Director of Laboratories, Headquarters Air Force Systems Command HQ AFSC/DL has designated this Laboratory (RD) as the focal point for environmental quality technology and facilities energy research.

HQ AFESC/RD has three technical divisions (See Figure 1): (1) Environics, which covers environmental quality RDT&E; (2) Engineering Research, which fulfills Air Force civil engineering/airbase facilities RDT&E requirements worldwide, and (3) Programs and Requirements, which provides business management support to the Laboratory.

The Environics Division conducts continuing programs in environmental quality RDT&E to include pollution control, environmental chemistry, advanced pollutant monitoring technology, and environmental assessment methodology. Major emphasis is given to exploratory development of new concepts to eliminate or reduce environmental consequences of future Air Force weapon systems. Other research is in direct support of the major commands in solving problems which would impair operational readiness, expose the Air Force to legal liability, or cause excess expenditures.

The Engineering Research Division plans, manages, and conducts programs, to develop, test and evaluate airbase equipment to support Air Force civil engineering/airbase facilities RDT&E requirements, worldwide. The division also is Air Force Systems Command's (AFSC's) primary laboratory for facilities energy research and development (R&D). Specific technical areas include:

hardened airbase facilities against nonnuclear attacks; rapid runway repair; contingency launch and recovery surfaces; roughness of aircraft operational surfaces; aircraft shelters; tactical shelters; airbase vulnerability assessments; passive defense techniques; airbase operations in chemical and biological environments; aircraft pavements; geotechnical engineering; foundation engineering; site selection; structural analysis of airbase facilities; advanced power systems; alternate energy sources; aircraft fire/crash rescue equipment; and other airbase civil engineering support facilities and equipment.

The Programs and Requirements Division (RDX) supports the Laboratory by developing, coordinating, managing, and assessing plans and programs to optimize mission accomplishments within programmed resources. This Division provides support in budget, contracting, editing, publishing, and information management as well as counterpart interface with HQ USAF, MAJCOMs, and AFSC, as needed, to support RDT&E efforts. RDX also publishes management documents and provides training for HQ AFESC/RD project officers.

1. The Environics Division

The Environics Division is responsible for Air Force Environmental Quality (EQ) research and development (R&D) programs. The objective of the EQ program is to investigate and provide the technology base to meet Federal and state environmental regulations and solve environmental problems. The intent is to ensure that the ability of the Air Force to accomplish its peacetime mission is not compromised by delays from environmental litigation and that deployment of Air Force weapons systems and the operation of Air Force facilities does not cause environmental degradation. The Environics Division is Headquarters Air Force Systems Command's lead laboratory for EQ R&D. It is also the focal point for all HQ AFSC environmental R&D and coordinates this broad program with other Department of Defense and Federal agencies. The Environics Division works closely with the operational commands, the Occupational and Environmental Health Laboratory, and other Air Force laboratories to solve existing problems in the most cost-effective manner and to anticipate problems and avoid potential environmental consequences of future Air Force weapons systems.

The staff of the Environics Division consists of engineers, chemists, microbiologists, and other scientists. Research funds are applied to in-house projects and extramurally with universities, commercial research organizations, and other Federal agencies. In-house research is conducted in atmospheric and groundwater chemistry, microbial degradation, and groundwater and industrial waste treatment. Specialized equipment includes a computer-controlled Fourier Transform Infrared (IR) Spectrometer coupled to a long-path smog chamber for photochemistry studies of Air Force fuels and chemicals; a laboratory combustor coupled with submicron particle-sizing hardware for soot formation studies; and a gas chromatograph/mass spectrometer/data system for complex reaction product identification and measurement. The laboratory can analyze trace organics and metals in natural water and ambient environmentals. The laboratory is equipped to evaluate bench-scale chemical, physical and biological processes for control of toxic industrial wastes and the testing of systems to remove trace contaminants from groundwaters. Most pilot-scale and prototype technologies are evaluated onsite, at the source of the pollutants.₃

2. Engineering Research Division (RDC)

The Engineering Research Division of the Research and Development Directorate plans, manages, and conducts research, development, test and evaluation (RDT&E) programs, and serves as lead Air Force organization to support Air Force civil engineering/airbase facilities RDT&E requirements worldwide. Specific technical areas include: hardened airbase facilities against nonnuclear attacks; rapid runway repair; contingency launch and recovery surfaces; roughness of aircraft operational surfaces; aircraft shelters; tactical shelters; airbase vulnerability assessments; passive defense techniques; airbase operations in chemical and biological environment; aircraft pavement; geotechnical engineering; foundation engineering; site selection; structural analysis of airbase facilities; fire protection agents; equipment and vehicles and training; facility energy; and other airbase civil engineering support facilities and equipment. Responsibilities include:

- o Providing limited technical consultation and assistance, resources permitting, in the above areas.
- o Monitoring related research and development efforts by other government and civilian agencies worldwide, coordinated with these agencies as required.
- o Recommending new RDT&E efforts, when required, to meet enemy threats or other USAF requirements.

3. Programs and Requirements Division

This Division spearheads coordination and response to civil engineering and environmental quality research, development, test and evaluation (RDT&E) requirements, and for technology transfer with outside agencies. It provides staff support in the areas of plans, programs, finance, procurement, and technical information. RDX produces major programs and assessment briefings; develops formats and ensures standardization for briefings that cover all RD programs; recommends to the director changes in organization, procedures, and programs to optimize mission accomplishment within programmed resources; develops procedures for internal management of programs in accordance with regulations and good business practices; acts as member of the RD Senior Management Review Group; and manages the internal and external management information systems. RDX is the RD focal point for interface with the Headquarters Air Force Engineering and Services Center (HQ AFESC) staff activities, including budgeting, finance, information office, security, and automated data processing (ADP) support. RDX also provides R&D Project Officer training. Responsibilities and activities in support of the laboratory are listed below.

- o Provides liaison and interface with HQ AFESC directorates, operational commands, and the RDT&E community to assemble, review, and validate civil and environmental engineering and services requirements.

- o Responsible for the development and coordination of plans for future civil engineering, services, and environmental quality RDT&E efforts.

o Develops, assembles, and coordinates the RDT&E technical program documentation for submission to higher headquarters.

o Develops, assembles, maintains, and reports status on program accomplishment. Assembles and presents program data for formal program reviews.

o Responsible for monitoring implementation of higher headquarters' directions concerning the RDT&E program.

o Responsible for planning and coordination of technology and product transfer activities.

o Reviews all procurement request packages, statements of work (SOWs), and agreements with other government laboratories to ensure completeness, accuracy, and compatibility with existing program direction.

o Coordinates and controls the development of the laboratory R&D and operations and maintenance (O&M) budget requests. Develops and maintains record systems for the daily management of funds. Reviews all procurement requests, SOWs, and agreements with other government laboratories to ensure proper funds programming, financial accuracy, and that costs are reasonable. Accomplishes studies and analyses of RD activities to provide the director with information which will assist him in attaining and maintaining a high level of efficiency in the accomplishment of the unit's mission. Responsible for RD resource management activities.

o Provides an in-house procurement advisory capability for all contract efforts (commercial and intra-Government) required to support the RD mission.

o Provides assistance in developing the contract deliverable data items as the RD Data Management Officer. Reviews all procurement requests, SOWs, and agreements for format, technical compliance with policy and regulation, and the soundness of the technical specifications.

o Provides similar services to the remainder of HQ AFESC on an as-required basis.

o Tracks R&D contracts from conception to contract award, to meet commitment and funds obligation schedules.

o Provides the Independent Research and Development (IR&D) Program focal point and the Unsolicited Proposal Program focal point for RD.

o Functions as the RD Management Information Systems Manager, Defense Technical Information Center (DTIC) and Command Management Information System (CMIS) focal point, and data input/retrieval activity. Supplies DTIC and CMIS with data on the RD RDT&E program to include program element, project, task, and work unit-level activity. Provides DTIC and CMIS products to RD personnel to facilitate program management.

o Performs technical editing of draft technical reports, papers, and other documents. Reviews, publishes, and distributes final, camera-ready documents for publication.

o Accomplishes the Scientific and Technical Information (STINFO) function to include control or release of scientific or technical information.

o Responsible for management of technical library to include acquiring and maintaining scientific, technical, and management literature and materials, literature searches, interlibrary loans, and cataloging.

SECTION III

HOW TO OBTAIN TECHNICAL REPORTS

A. INITIAL DISTRIBUTION

The Engineering and Services Laboratory (AFESC/RD) disseminates results of its DT&E efforts as technical reports. Initial distribution is made according to the project officer's master list. You can be placed on this list by a request to HQ AFESC/RDXI listing a specific subject matter area of concern (key words from DD 1473s are a good point of reference). As part of initial distribution, this Laboratory forwards technical reports to Defense Technical Documentation Center (DTIC). If the technical report is authorized for unlimited distribution, DTIC then sells it to the National Technical Information Service (NTIS). The bottom line is this: once initial distribution is made, we have no more copies.

B. SECONDARY DISTRIBUTION

After initial distribution is completed DoD agencies or their contractors may obtain copies of AFESC/RD technical reports by ordering them from DTIC. Non-DOD activities may order unclassified technical reports with unlimited distribution from NTIS (DTIC is cheaper if you are an authorized user). Addresses, telephone numbers, and approximate prices are shown below.

<u>Source</u>	<u>Price</u>
DTIC Cameron Station Alexandria VA 22314 Telephone: AV 284-6874	Hardcopy: 1-100 pages - \$5.00 \$.07 each additional page Microfiche: \$.95 per report (AD Number)
NTIS Department of Commerce 5285 Port Royal Road Springfield VA 22161 Telephone: (703) 487-4650	Hardcopy: 1-25 pages - \$9.95 26-50 pages - \$11.95 51-100 pages - \$13.95 100-200 pages - \$18.95 201-300 pages - \$24.95 301-400 pages - \$30.95 401-500 pages - \$36.95 501-600 pages - \$42.95 Microfiche: \$6.50 per report

C. OBTAINING REPORTS

1. Initial Distribution

Contact our Scientific and Technical Information Officer (STINFO, HQ AFESC/RDXI, 904/283-6287 or AV 970-6287) and list subject areas of interest. Please be as specific as possible as "shopping list" distribution is impossible. The STINFO can add your name to the master distribution list and put you in touch with the project officer.

2. Secondary Distribution

Your librarian may have an on-line computer connection with DTIC and/or NTIS. Remember to use technical report number, accession number, title or key words from DD Form 1473 to further search the subject area). At any rate, your librarian should be able to assist you in ordering the report.

All requests for limited distribution reports must be considered by DTIC on an individual basis and release must be approved by the HQ AFESC/RD STINFO. This is the way it works: DTIC will have you complete their Form 55 requesting the report and stating why you need it. You then mail this form to them and they send it to the HQ AFESC/RD STINFO, who either approves or disapproves release of document. Upon STINFO approval, you can buy the document from DTIC.

Foreign governments (even our allies) requesting limited documents must pursue official channels (through their embassy and HQ USAF/CVAII). "Out-of-channels" direct requests or general "shopping list" requests only delay the process (any direct requests will be sent from our STINFO to CVAII, and if we cannot determine your specific needs, we may have difficulty in filling your request.

To reiterate, you can save yourself time and trouble by following channels and being as specific as possible.

Of course, with unlimited distribution (public release) documents, you will face none of these restrictions, and you may order these directly from DTIC or NTIS.

3. Other

If your agency has a continuing interest in obtaining technical information from DTIC, you may wish to contact them and ask to be placed on the DTIC users list. This entails filling out some forms and will permit you to request access to their published abstracts of technical reports from this and other DOD laboratories.

The point of contact for HQ AFESC Technical Reports is HQ AFESC/RDXI (Mr Testerman) AUTOVON 970-6287 or (904) 283-6287.

APPENDIX A
TECHNICAL REPORTS INDEXED BY DTIC ACCESSION NUMBER

UNCLASSIFIED

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782 221
783 518
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*AFCEC-77-002
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FACILITY NATICK MASS
NCTRF-134
(CEEDO-TR-78-04)
F AD-A088 492

*AFOSR-77-3271A
MARYLAND UNIV COLLEGE PARK
COMPUTER SCIENCE CENTER
TR-731
(AFOSR-TR-79-0209)
AD-A085 875

*AFOSR-78-3586
CALIFORNIA UNIV IRVINE COMBUSTION
LAB
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F AD-A152 184

*D7C-8-1114
NATIONAL AVIATION FACILITIES
EXPERIMENTAL CENTER ATLANTIC
CITY NJ
FAA-NA-79-43
(AFESC/ESL-TR-79-40)
F AD-A082 936

*DAAG29-77-G-0031
STANFORD UNIV CALIF DEPT OF
STATISTICS
TR-260
AD-A060 853

*DAAK40-78-C-0004
BATTELLE COLUMBUS LABS OH TACTICAL
TECHNOLOGY CENTER
(ESL-TR-81-07)
F AD-B085 812L
BATTELLE COLUMBUS LABS OHIO
TACTICAL TECHNOLOGY CENTER
(AFESC/ESL-TR-79-47)
F AD-B046 353L

*DACA31-80-D-0020
ULTRASYSYSTEMS INC FAIRFAX VA
(FESA-T-2110)
F AD-A117 084
(AFESC/ESL-TR-81-58)
F AD-A125 153
(FESA-T-2124)
F AD-A144 959

*DADA17-72-C-2006
MISSOURI UNIV COLUMBIA JOHN M
DALTON RESEARCH CENTER
AD- 783 518

*DAMD17-79-C-9139
LITTLE (ARTHUR D) INC CAMBRIDGE MA
ADL-83744-01
(AFESC/ESL-TR-80-33)
F AD-A100 318

*DAMD17-82-C-2257
AUBURN UNIV AL
(AFESC/ESL-TR-83-88)
F AD-A149 537

*DE-AC04-78DP00658
ARMY ELECTRONICS RESEARCH AND
DEVELOPMENT COMMAND FORT
MONMOUTH NJ
F AD-A084 788

*DE-AC04-78DP00789
SANDIA NATIONAL LABS ALBUQUERQUE
NM
SAND81-7123
AD-A102 640

*DE-A104-78AL11812
LOS ALAMOS NATIONAL LAB NM
ANALYSIS AND ASSESSMENT DIV
(AFESC/ESL-TR-83-52)
F AD-B088 388L

*DOT-FA73MAI-361
AIR FORCE CIVIL ENGINEERING CENTER
TYNDALL AFB FLA
AFCEC-TR-75-23
(FAA-RD-78-64)
F AD-A042 823
PURDUE RESEARCH FOUNDATION
LAFAYETTE IN

(FAA-RD-77-127)
F AD-A047 161

*DOT-FA77MA-4081
UNITED TECHNOLOGIES RESEARCH CENTER
EAST HARTFORD CONN
UTRC/R80-994150-2
(AFESC/ESL-TR-80-13)
AD-A097 545
UTRC/R80-994150-3
(AFESC/ESL-TR-80-14)
AD-A097 607
UTRC/R79-994150-1
(AFESC/ESL-TR-80-12)
AD-A098 298

*DTG23-80-C-2029
ARKANSAS UNIV FAYETTEVILLE DEPT OF
CHEMICAL ENGINEERING
(AFESC/ESL-TR-88-24)
F AD-A172 096

*DTFA01-81-C-10045
GREINER ENGINEERING SCIENCES INC
BALTIMORE MD
(FAA/EE-82-21)
AD-A123 890

*DTFA01-83-4-10558
ARGONNE NATIONAL LAB IL ENERGY AND
ENVIRONMENTAL SYSTEMS DIV
(FAA/EE-84-13)
F AD-A147 951

*EPA-88-03-2591
NORTHROP SERVICES INC LAS VEGAS NV
(EPA/800/4-80-037)
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*EPA-88-03-3113
SCIENCE APPLICATIONS INTERNATIONAL
CORP MCLEAN VA
(AFESC/ESL-TR-85-52)
F AD-A169 993

*EPA-88-03-3149
RESEARCH TRIANGLE INST RESEARCH
TRIANGLE PARK NC
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F AD-A157 679

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(AFESC/ESL-TR-81-21)
F AD-A113 811

*EPA-R-805750-01
STANFORD UNIV CA EDWARD L GINZTON LAB OF PHYSICS
(AFESC/ESL-TR-80-11)
F AD-A089 993

*EPA-R-805762-010
FLORIDA UNIV GAINESVILLE DEPT OF ENVIRONMENTAL ENGINEERING SCIENCES
(AFESC/ESL-TR-81-04)
F AD-A113 771

*F2901-75-C-0053
MARTIN MARIETTA AEROSPACE ORLANDO FLA
(AFCEC-TR-75-24-VOL-2)
F AD-A021 315

*F08387-80-M-3209
SCIENCE APPLICATIONS INC FORT WALTON BEACH FL
SAI-ER-SOAD-80-001
(AFESC/ESL-TR-80-65)
AD-B065 805L

*F08634-84-C-0312
SPECTRAL SCIENCES INC BURLINGTON MA
TR-74
(AFESC/ESL-TR-85-25)
F AD-A163 119

*F08635-71-K-0036
PURDUE UNIV LAFAYETTE IN SCHOOL OF CIVIL ENGINEERING
(AFESC/ESL-TR-82-31)
F AD-A134 343

*F08635-76-C-0102
BOEING COMMERCIAL AIRPLANE CO SEATTLE WASH
(CEEDO-TR-77-50)
F AD-B030 804

BOEING MILITARY AIRPLANE CO SEATTLE WA
(AFESC/ESL-TR-80-23-V)
F AD-B055 322L
(AFESC/ESL-TR-80-23-V)
F AD-B055 365L

*F08635-76-C-0137
CIVIL NUCLEAR SYSTEMS CORP ALBUQUERQUE N MEX
(AFCEC-TR-76-5)
F AD-B011 798L

*F08635-76-C-0177
CIVIL NUCLEAR SYSTEMS CORP ALBUQUERQUE N MEX
(AFCEC-TR-76-16)
F AD-B015 431L

*F08635-76-C-0188
BOLT BERANEK AND NEWMAN INC CANOGA PARK CALIF
BBN-3409
(AMRL-TR-73-108-APP-A)
AD-A042 143

*F08635-76-C-0247
TENNESSEE UNIV KNOXVILLE DEPT OF CIVIL ENGINEERING
(CEEDO-TR-77-18)
F AD-A053 070

*F08635-76-C-0341
ULTRASYSTEMS INC IRVINE CALIF
(CEEDO-TR-78-26)
F AD-B033 465L

*F08635-76-D-0132
SRI INTERNATIONAL MENLO PARK CA
(AFESC/ESL-TR-79-16-V)
F AD-A079 326
(AFESC/ESL-TR-79-16-V)
F AD-A079 555
(AFESC/ESL-TR-79-16-V)
AD-A079 556
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(AFCEC-TR-76-20)
AD-A032 410

*F08635-76-D-0134
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WOODWARD-CLYDE CONSULTANTS SAN FRANCISCO CA
(AFESC/ESL-TR-79-25)
F AD-B047 542L
(AFESC/ESL-TR-78-24)
F AD-B047 589L

*F08635-77-C-0005
MANTECH OF NEW JERSEY CORP ROCKVILLE MD
(AFCEC-TR-77-5)
F AD-B019 678L

*F08635-77-C-0154
SOUTHWEST RESEARCH INST SAN ANTONIO TEX
(AFESC/ESL-TR-80-05)
F AD-B058 686
SOUTHWEST RESEARCH INST SAN ANTONIO TX ENGINEERING SCIENCES DIV
02-4891-VOL-1
(AFESC/ESL-TR-79-27-V)
F AD-A088 188
(AFESC/ESL-TR-79-27-V)
F AD-B050 055L

*F08635-77-C-0156
TRINITY UNIV SAN ANTONIO TX LAB OF CELLULAR PHYSIOLOGY
(AFESC/ESL-TR-79-11)
F AD-A073 996

*F08635-77-C-0216
SCOTT ENVIRONMENTAL TECHNOLOGY INC PLUMSTEADVILLE PA
SET-1628-02-1177
(CEEDO-TR-78-37)
F AD-A060 842
SET-1628-01-1177
(CEEDO-TR-78-54)
F AD-A083 789

*F08635-77-C-0237
TULANE UNIV NEW ORLEANS LA DEPT OF CIVIL ENGINEERING
(CEEDO-TR-78-50)
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F AD-A069 045
F AD-A084 783 (AFESC/ESL-TR-79-14)
F AD-A094 017 (AFESC/ESL-TR-80-26)
*F08635-77-C-0254
TENNESSEE UNIV KNOXVILLE DEPT OF
CIVIL ENGINEERING
(AFESC/ESL-TR-80-29)
F AD-A091 717
*F08635-77-C-0276
CIVIL NUCLEAR SYSTEMS CORP
ALBUQUERQUE N MEX
(CEEDO-TR-78-3)
F AD-8028 885L
*F08635-77-C-0278
WASHINGTON UNIV SEATTLE REMOTE
SENSING APPLICATIONS LAB
(AFESC/ESL-TR-79-15)
F AD-A071 802
*F08635-77-C-0281
MISSOURI UNIV-COLUMBIA DEPT OF
CIVIL ENGINEERING
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F AD-A070 233
*F08635-78-C-0025
SYSTEMS SCIENCE AND SOFTWARE LA
JOLLA CALIF
SSS-R-79-3943
F AD-A070 941 (AFESC/ESL-TR-79-05)
*F08635-78-C-0205
SEARCH INC NORMAN OK
(AFESC/ESL-TR-79-49)
F AD-A086 834
*F08635-78-C-0307
CALIFORNIA UNIV RIVERSIDE
STATEWIDE AIR POLLUTION RESEARCH
CENTER
(AFESC/ESL-TR-80-39)
F AD-A093 486

*F08635-79-C-0040
BATTELLE COLUMBUS LABS OH
(AFESC/ESL-TR-79-43)
F AD-A089 606
*F08635-79-C-0084
LITTLE (ARTHUR D) INC CAMBRIDGE MA
(AFESC/ESL-TR-80-07)
F AD-A090 942 (AFESC/ESL-TR-80-27)
F AD-A091 803 (AFESC/ESL-TR-80-22)
F AD-A093 817
*F08635-79-C-0103
TEXAS UNIV AT AUSTIN
(AFESC/ESL-TR-80-28)
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F AD-A123 346
*F08635-79-C-0140
TYBRIN CORP FOR WALTON BEACH FL
(AFESC/ESL-TR-80-30)
F AD-8053 775L (AFESC/ESL-TR-81-08)
F AD-8063 793L (AFESC/ESL-TR-81-25)
F AD-C028 860L
*F08635-79-C-0158
APPLIED ENGINEERING RESOURCES INC
SANTA BARBARA CA
(ESL-TR-79-48)
F AD-8048 087L
*F08635-79-C-0158
CALIFORNIA UNIV IRVINE COMBUSTION
LAB
(AFESC/ESL-TR-83-17)
F AD-A137 208
*F08635-79-C-0162
BDM CORP MCLEAN VA
(AFESC/ESL-TR-82-26-V)
F AD-8095 505L (AFESC/ESL-TR-82-26-V)
F AD-8095 506L
*F08635-79-C-0211

*F08635-79-C-0248
ELECTRO MAGNETIC APPLICATIONS INC
ALBUQUERQUE NM
EMA-80-R-1
(AFESC/ESL-TR-79-45)
F AD-8048 373L
*F08635-79-C-0213
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ANTONIO TX MOBILE ENERGY DIV
SWRI-MED118
(AFESC/ESL-TR-80-25)
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*F08635-79-C-0259
ORLANDO TECHNOLOGY INC SHALIMAR FL
(AFESC/ESL-TR-80-38)
F AD-C025 329L
*F08635-79-C-0261
SCIENCE APPLICATIONS INC FORT
WALTON BEACH FL
(AFESC/ESL-TR-80-08)
F AD-C024 103L
*F08635-79-C-0286
GARD INC NILES ILL
(AFESC/ESL-TR-80-15)
F AD-A089 075
*F08635-79-C-0283
BOEING MILITARY AIRPLANE CO SEATTLE
WA
(AFESC/ESL-TR-80-23-V)
F AD-8055 322L (AFESC/ESL-TR-80-23-V)
F AD-8055 365L
*F08635-79-C-0288
FEECON CORP WESTBOROUGH MA
(AFESC/ESL-TR-81-14)
F AD-A128 068
*F08635-80-C-0088
CALIFORNIA UNIV RIVERSIDE
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CENTER
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 SRI INTERNATIONAL MENLO PARK CA
 (AFESC/ESL-TR-81-54)
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 *F08635-80-C-0206
 BDM CORP HUNTSVILLE AL
 BDM/W-85-0131-TR
 (AFESC/ESL-TR-85-17)
 F AD-8103 492L
 BDM CORP MCLEAN VA
 BDM/W-81-029-TR
 (AFESC/ESL-TR-81-39)
 F AD-A117 587
 BDM/W-82-505-TR
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 F AD-A127 336
 BDM/W-82-592-TR-VOL-2
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 F AD-A130 350
 BDM/W-82-592-TR-VOL-1
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 F AD-A130 409
 BDM/W-82-770-TR
 (AFESC/ESL-TR-83-09)
 F AD-A131 771
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 BDM/W-81-138-TR-ADD-1
 (AFESC/ESL-TR-81-17-A)
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 BDM/W-81-482-TR
 (AFESC/ESL-TR-82-02)
 F AD-8069 849L
 BDM/W-81-138-TR-ADD-2
 (AFESC/ESL-TR-81-17-A)
 F AD-8070 393L
 BDM/W-81-040-TR
 (AFESC/ESL-TR-81-24)
 AD-8070 940L
 BDM/W-82-152-TR
 (AFESC/ESL-TR-82-21)
 F AD-8071 434L
 (AFESC/ESL-TR-83-38-V)
 F AD-8085 634L
 BDM/W-83-408-TR-VOL-2
 (AFESC/ESL-TR-83-38-V)
 F AD-8085 635L
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 (ESL-TR-83-57-VOL-1)
 F AD-8086 482L
 BDM/W-83-584-TR-VOL-2
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 F AD-8086 483L
 BDM/W-84-223-TR
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 F AD-8089 936
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 F AD-8090 914L
 BDM/W-83-566-TR-PT-2
 (AFESC/ESL-TR-84-01-P)
 F AD-8090 915L
 BDM/W-83-566-TR-PT-3
 (AFESC/ESL-TR-84-01-P)
 F AD-8090 916L
 BDM/W-84-0961-TR
 (AFESC/ESL-TR-84-58)
 F AD-8091 450
 BDM/W-84-0596-TR
 (AFESC/ESL-TR-81-17-A)
 F AD-8096 197L
 BDM/W-94-0160-TR
 (AFESC/ESL-TR-85-05)
 F AD-8099 054
 BDM/W-85-0339-TR
 (AFESC/ESL-TR-84-38)
 F AD-8100 567L
 BDM/W-83-205-TR-VOL-2
 (AFESC/ESL-TR-83-24-V)
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 BDM/W-83-487-TR
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CITY FL
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*F08635-80-C-0319
FIRE RESEARCH CORP NESCONSET NY
(AFESC/ESL-TR-81-55)
F AD-A119 783

*F08635-80-C-0356
AMETEK/ORED SANTA BARBARA CA
(AFESC/ESL-TR-81-28)
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*F08635-80-C-0359
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CENTER
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*F08635-80-M-0248
ROSS ENGINEERING ASSOCIATES INC
VALPARAISO FL
(AFESC/ESL-TR-80-59)
F AD-A107 877

*F08635-81-C-0019
VIRGINIA INST OF MARINE SCIENCE
GLOUCESTER POINT
(AFESC/ESL-TR-82-08)
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*F08635-81-C-0029
SCIENCE APPLICATIONS INC FORT
WALTON BEACH FL
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F AD-B084 485L
SAI-ER-55D-82-04
(AFESC/ESL-TR-82-15)
F AD-B088 107L

*F08635-81-C-0041
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*F08635-82-C-0130
AEROCHEM RESEARCH LABS INC
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F AD-A157 843

*F08635-82-C-0187
BATTELLE COLUMBUS LABS OH
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F AD-A140 902

*F08635-82-C-0214
BATTELLE COLUMBUS LABS OH
(AFESC/ESL-TR-82-51)

F AD-A130 364

*F08635-82-C-0290
EHRENKRANTZ GROUP NEW YORK
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*F08635-82-C-0315
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F AD-A130 389

*F08635-82-C-0370
AVCO SYSTEMS DIV WILMINGTON MA
(AFESC/ESL-TR-83-20)
F AD-B077 378L

*F08635-82-C-0374
SIERRA GEOPHYSICS INC REDMOND WA
(AFESC/ESL-TR-83-83)
F AD-A141 405

*F08635-82-C-0472
AMETEK INC SANTA BARBARA CA
OFFSHORE RESEARCH AND ENGINEERING
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(AFESC/ESL-TR-84-12-V)
F AD-A150 498
(AFESC/ESL-TR-84-12-V)
F AD-A151 609

*F08635-82-K-0089
ARIZONA STATE UNIV TEMPE COLL OF
ENGINEERING AND APPLIED SCIENC
(AFESC/ESL-TR-83-21)
F AD-A131 079

*F08635-82-K-0102
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F AD-A133 319

*F08635-82-K-0148
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F AD-B098 387L

*F08635-83-C-0130
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*F08635-83-C-0136
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 F AD-A171 872

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*F08635-84-C-0185
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 F AD-B098 874L

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 F AD-B103 415L

BDM/W-85-0343-TR
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 F AD-B105 236L

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 F AD-B106 384

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 F AD-B106 385

*F08635-84-C-0228
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DEPT OF CIVIL ENGINEERING
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*F08635-84-K-0153
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 F AD-A172 080

*F08637-78-M-0252
 FLORIDA UNIV GAINESVILLE DEPT OF
 ENVIRONMENTAL ENGINEERING
 SCIENCES
 (CEEDO-TR-78-24)
 F AD-A061 120

*F08637-78-M-0686
 OREGON STATE UNIV CORVALLIS DEPT
 OF CIVIL ENGINEERING
 (AFESC/ESL-TR-80-49)
 F AD-A099 514

*F08637-78-M-1387
 LUNDGREN (DALE A) GAINESVILLE FL
 (CEEDO-TR-78-53)
 F AD-A062 665

*F08637-79-M-0114
 SCIENCE APPLICATIONS INC FORT
 WALTON BEACH FL*
 (AFESC/ESL-TR-79-02)
 F AD-A070 460

*F08637-79-M-0784
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 CONSULTANTS GAINESVILLE FL
 (AFESC/ESL-TR-79-28)
 F AD-A078 779

*F08637-84-M-1743
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 CIVIL ENGINEERING LAB
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 F AD-A165 055

*F08637-85-M-0694
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*F08638-74-C-0005
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 F AD-A022 982

*F08638-74-C-0007
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 F AD-A018 318

*F08638-74-C-0014
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 (AFCEC-TR-76-13)
 F AD-A033 003

*F08638-75-C-0010
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 SURC-TR-75-197
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 F AD-A021 352

*F08638-78-C-0223
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 F AD-A059 957

*F08603-79-G-0357
 LOCKHEED-GEORGIA CO MARIETTA
 (AFESC/ESL-TR-82-23-V
 F AD-B080 320L
 (AFESC/ESL-TR-82-23-V
 F AD-B080 547L

*F19628-78-C-0002
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 LEXINGTON LINCOLN LAB
 (ESD-TR-79-319)
 F AD-A084 544

*F19628-80-C-0002

MASSACHUSETTS INST OF TECH
 LEXINGTON LINCOLN LAB
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 F AD-A099 638

(ESD-TR-82-014)
 F AD-A115 443

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 F AD-A130 259

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 F AD-B086 869

*F19628-85-C-0002
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 F AD-A159 531

(ESD-TR-84-306)
 F AD-B095 632

*F20601-78-C-0015
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 NMERI-AP-36
 (AFESC/ESL-TR-80-69)
 F AD-A110 672

*F29601-73-D-0027
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 MASS
 (AFCEC-TR-75-28)
 F AD-A030 265

*F29601-74-C-0030
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 WANG CIVIL ENGINEERING RESEARCH
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 F AD-A021 353

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 F AD-A025 163

*F29601-74-C-0112
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 F AD-A025 799

*F29601-74-C-0126
 EXXON RESEARCH AND ENGINEERING CO

LINDEN N J
 (AFCEC-TR-76-1)
 F AD-A029 734

*F29601-74-D-0027
 LITTLE (ARTHUR D) INC CAMBRIDGE
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 (AFCEC-TR-76-9)
 F AD-A040 113

*F29601-75-C-0002
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 POTSDAM N Y
 (AFCEC-TR-75-20)
 F AD-A024 969

*F29601-75-C-0019
 SCS ENGINEERS LONG BEACH CALIF
 (CEEDO-TR-77-19)
 F AD-A059 511

*F29601-75-C-0028
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 (CEEDO-TR-77-13)
 F AD-A049 712

*F29601-75-C-0033
 FALCON RESEARCH AND DEVELOPMENT CO
 ALBUQUERQUE N MEX ALBUQUERQUE
 FACILITY
 (AFCEC-TR-75-13)
 F AD-C003 678L

*F29601-75-C-0037
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 (FAA-RD-77-127)
 F AD-A047 161

*F29601-75-C-0046
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 (CEEDO-TR-78-34-VOL-3
 F AD-A061 483
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 (CEEDO-TR-78-34-VOL-1
 F AD-A061 532

*F29601-75-C-0052
 APPLIED ENGINEERING RESOURCES INC

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 FLA (AFCEC-TR-75-24)
 F AD-A020 941

*F29601-75-C-0081
 R AND D ASSOCIATES MARINA DEL REY
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 RDA-TR-9400-002 (AFCEC-TR-78-12)
 F AD-C007 268L

*F29601-75-C-0082
 NEW ENGLAND AQUARIUM BOSTON MASS
 (AFCEC-TR-78-22)
 F AD-A040 288

*F29601-75-C-0116
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 F AD-A040 462

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 NMERI-AP-33 (AFESC/ESL-TR-80-02)
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NMERI-5.16-AP-40 (AFESC/ESL-TR-81-42)
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 F AD-A115 677

NMERI-MSS-2 (ESL-TR-81-27)
 F AD-B059 892L

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 F AD-B061 648L

NMERI-2.08-ABS-14 (AFESC/ESL-TR-81-37)
 F AD-B061 649L

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 F AD-A038 397

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 F AD-A055 987

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 F AD-A065 120

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 F AD-A069 448

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 F AD-A078 118

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 F AD-A079 747

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 F AD-B042 322L

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 F AD-C014 270L

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 F AD-C018 935L

SCIENCE APPLICATIONS INC
 ALBUQUERQUE NM
 SAI-207-FR-821-1 (ESL-TR-80-37)
 F AD-C027 127L

*F29601-78-C-0033
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 F AD-B063 494L

*F29601-81-C-0013
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 F AD-A115 677

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 F AD-A118 930

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 F AD-8089 830L
 *F28601-84-C-0080
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 F AD-A189 700
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 *F33601-77-C-0281
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 F AD-8096 419L
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 (AFCEC-TR-74-6-VOL-1)
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 (AFCEC-TR-74-6-VOL-2)
 F AD-A004 083
 *F33615-74-C-1040
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 SYSTEMS DEVELOPMENT DIV
 81-0453
 (AFWAL-TR-81-1197-VOL
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 *F33615-76-C-5278
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 CORP NILES ILL GENERAL AMERICAN
 RESEARCH DIV
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 F AD-A050 999
 *F33615-76-C-5315
 FABRIC RESEARCH LABS INC DEDHAM
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 F AD-A074 889
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 AIRCRAFT ENGINE GROUP
 R79AEG321
 (AFAPL-TR-79-2015)
 F AD-A078 440
 *F33615-77-C-2043
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 R79AEG405
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 *F33615-78-C-2006
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 *F33615-79-C-2033
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 AIRCRAFT ENGINE GROUP
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*F33615-81-C-2092
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PRODUCTS DIV
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F AD-B103 470L
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F AD-B103 471L
UDR-TR-83-59-V
(AFESC/ESL-TR-83-59-V)
F AD-B103 472L

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*F33618-80-C-2002
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F AD-A145 691

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F AD-B086 284L
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(AFESC/ESL-TR-83-71-V)
F AD-B086 285L
LG83ERO120-VOL-2
(AFESC/ESL-TR-83-71-V)
F AD-B086 629L

*F33657-81-G-0312
QUEST RESEARCH CORP DAYTON OH
(AFESC/ESL-TR-83-08)
F AD-B074 169L

*F33657-81-G-6128
MCDONNELL AIRCRAFT CORP ST LOUIS
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*F33700-80-G-0009
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*F42600-81-D-1379
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