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2. AGENCY
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IZATION

TRANSFERRING AGENCY OFFICIAL (Signature and title)

DATE

WHS Records Administrator

2 SEP 1980

3. AGENCY
CONTACT

TRANSFERRING AGENCY LIAISON OFFICIAL (Name, office and telephone No.)

Deborah Mitchell, Records Control & Management
Assistant, DARPA Admin Office, 694-3998

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| 330 | 80 | 0095 | 3 | 1 thru 3 | R&D Studies sponsored by ARPA/ Materials Sciences Division, Defense Sciences Office 1975-1980 | R | OSD Admin Instr 15 Category #1306-02 | Perm. Make availa- ble to NARS when 25 years old | 3/5/80 | | | |
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Room 5C315
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| Schedule | | |
| Shelving | | Field line |

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| 330 | 81 | 0431 | 10 | | R&D Studies sponsored by ARPA/ Materials Sciences Division, Defense Sciences Office 1972-1979 | R | OSD Admin Instr 15 Category #1306-02 | Perm. Make available to NARS when 25 years old | | | | |
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| 330 | 80 | 0052 | 10 | 1 thru 10 | R&D Studies sponsored by ARPA/ Material Sciences Division, Defense Sciences Office 1972-1979 | R | OSD Admin Instr 15 Category #1306-02 | Perm. Make available to NARS when 25 years old | | | | |
| | | | | | | | LOCATION: 03/16:23-3-5 | | | | | |
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| 330 | 80 | 0095 | 3 | 1 | <u>BOX #1</u> AO 3251-3282-3285-3591 Strong Optical Fiberguides General Files (76-80) (U) TRI -Service Fiber Optics Comm (TSFOSC) (75-76) (U) AO 3251 Strong Optical Fiberguides Hughes Res Lab (76-77) (U) AO 3251 Strong Optical Fiberguides ITT-Electro-Optical Prod Div (uy-77) (U) AO 3282 Strong Optical Fiberguides Gulf & Western (77-80) (U) AO 3282 Strong Optical Fiberguides Catholic Univ (76-80) (U) | | | | | | | |
| | | | | 2 | <u>BOX #2</u> AO 3285 Strong Optical Fiberguides Hughes Res Lab (76-80) (U) AO 3285 Strong Optical Fiberguides ITT (77-80) (U) AO 3285 Strong Optical Fiberguides NOSC (75-79) (U) | | | | | | | |

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| 330 | 81 | 0431 | 10 | 1 | <u>BOX #1</u> AO 2415-16 BACKGROUND INFORMATION: IR-Laser Window Materials (75-79) AO 2415 Laser Window Surface Finishing & Coating Technology - Contract #F19628-75-C-0135 (75-76) AO2415 Pennsylvania State University F19628-73-C-0219 (75-76) <u>BOX #2</u> AO 2415 Coating Science & Technology Pennsylvania State University Contract F19628-73-C-0219 (75-77) AO 2415 Advanced Techniques for Improving Laser Optical Surfaces Raytheon Research Division Contract F19628-73-C-0280 (75-77) AO 2416 A Study of Forging, Coatings & Optical Testing of Transparent Optical Materials for HEL & FLIR Honeywell Inc Contract DAHC 15-73-C-0464 (75-77) | | | | | | | | |

Box 1

RAYTHEON COMPANY
Laser Window Stg 73-75
AO 1180

U

WESTINGHOUSE ELECTRIC
Acoustic Optic Filter 71-75
AO 2071

U

MONSANTO COMPANY Budget & Finance
Optical Wave Guides 72-74
AO 2074

U

U.S. NELC Budget & Finance Office
Integrated Optical Circuits 71-76
AO 2158

U

U.S. NELC Reports Office
Integrated Optical Circuits 71-76
AO 2158

U

UNIVERSITY OF ILLINOIS
Correspondence Ofc - Fracture
Control 72-73
AO 2169

U

UNIVERSITY OF ILLINOIS
Budget & Finance Ofc - Fracture
Control 72-73

U

Box 2

AFCL
Insulating Film for Integrated Ckts
72-75 AO 2180

U

AFCL
Insulating Film for Integrated Ckts
B/F 72-75 AO 2180

U

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| 330 | 80 | 0095 | 3 | 2 | <p><u>BOX #2</u> (Cont'd)</p> <p>AO 3285 Strong Optical Fiberguides Univ of Mass (1980) (U)</p> <p>AO 3285 Strong Optical Fiberguides NOSC/NRL (1977) (U)</p> <p>AO 3591 Strong Optical Fiberguides Hughes Res Lab (77-79) (U)</p> | | | | | | | |
| | | | | 3 | <p><u>BOX #3</u></p> <p>AO 2761-3438-3472-3565 Ceramics for Lasers/General Files/(76-80) (U)</p> <p>AO 2761 Ceramics for Lasers Yale (76-77) (U)</p> <p>AO 3438 Ceramics for Lasers-Fluorine Yale (77-80) (U)</p> <p>AO 2761 Ceramics for Lasers Union Carbide (77-80) (U)</p> <p>AO 3472 Ceramics for Lasers Union Carbide (77-80) (U)</p> <p>AO 3565 Ceramics for Lasers Union Carbide (77-80) (U)</p> | | | | | | | |

PRINCETON UNIVERSITY
RR - Thin Film Breakdown 72-74
AO 2180

U

CARNEGIE-MELON UNIVERSITY
RR - Photo Cathodes 72-73
AO 2182

U

CARNEGIE-MELON UNIVERSITY
B/F Photo Cathodes 72-73
AO 2182

U

CARNEGIE MELON UNIVERSITY
R/R Photo Cathodes 72-73
AO 2182

U

UNIVERSITY OF FLORIDA
B/F Image Intensifiers 74
AO 2182

U

AMNR CENTER
Misc - Image Intensifier
AO 2182

U

GENERAL ELECTRIC
Corres - Image Intensifier 73-74
AO 2182

U

GENERAL ELECTRIC
B/F Image Intensifier 73-74
AO 2182

U

HUGHES
B/F Image Intensifier 72-75
AO 2182

U

RCA
B/F Image Intensifier 72-75
AO 2182

U

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| ACCESSION NUMBER | | | VOLUME (cu. ft.) | AGENCY BOX NUMBERS | SERIES DESCRIPTION (With inclusive dates of records) (f) | RESTRICTION (g) | DISPOSAL AUTHORITY (Schedule and item number) (h) | DISPOSAL DATE (i) | COMPLETED BY RECORDS CENTER | | | | |
| RG (a) | FY (b) | NUMBER (c) | | | | | | | LOCATION (j) | SHELF PLAN (k) | CONT. TYPE (l) | AUTH. DISP. (m) | |
| 330 | 81 | 0431 | 10 | 3 | <u>BOX #3</u> AO 2415 Infrared Laser Window Coating by Plasma Polymerization University of California-Berkeley Contract F19628-75-C-0097 (75-78) AO 2055 Research on Materials for High Power Laser Windows Massachusetts Institute of Technology Contract F19628-72-C-0304 (72-74) AO 2055 IR Window Studies Univ of Southern Calif Contract F19628-76-C-0162 (76-78) | | | | | | | | |
| | | | | 4 | <u>BOX #4</u> AO 2824 IR Laser Window University of Dayton Contract F33615-75-C-0511 (75-79) AO 2669 Fabrication Process Develop- ment of Alkaline Earth Fluorides for High Power Laser Windows Raytheon Research Division Contract F33615-76-C-0279 (76-79) AO 2620 Optical Materials Character- ization - National Bureau of Stds 9750400.1311 RDT&E (75-78) | | | | | | | | |

Box 4

ABEX CORP U
B/F Ferrous Die Casting
AO 2267

ABEX CORP U
RR - Ferrous Die Casting
AO 2267

GE U
AO 2267

HITCHINER MFG CO. U
Ferrous Die Casting 73-75
AO 2267

HITCHINER MFG CO. U
B/F Ferrous Die Casting 73-75
AO 2267

UNIVERSITY OF CHICAGO U
B/F Surface Studies 73
AO 2325

UNIVERSITY OF CHICAGO U
R/R Surface Studies 73
AO 2325

FORD MOTOR CO U
B/F - IR Microptic Heterodyne det dev
73 AO 2327

IBM RSCH CTR U
B/F Stg Magnetic Garnet Films 73-75
AO 2327

ARTHUR D. LITTLE U
B/F IR Fibers 73-75
AO 2327

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| 130 | 81 | 0431 | 10 | | <p><u>BOX #4</u> (continued)</p> <p>AO 3154 Lasers in Space Program Naval Weapons Center 9780400.1311 RDT&E (75-78)</p> <p>AO 3242 Optical Coatings Northrop Contract N00123-76-C-1321 (76-78)</p> | | | | | | | |
| | | | | 5 | <p><u>BOX #5</u></p> <p>AO 1180 Laser Window Studies Raytheon Contract DAAH01-74-C-0719 (74-78)</p> <p>AO 1256 Halide Window Materials Technology - Hughes Research Lab Contract F29601-71-C-0101 (71-77)</p> <p>AO 2175 Investigative Material Systems for Mirrors used in High Power CO & CO₂ Lasers - Battelle Northwest Contract N00123-72-C-2215 (72-77)</p> <p>AO 169 Studies of High Power Optical Materials Xonics, Inc. Contract DAHC15-73-C-0127(73-77)</p> | | | | | | | |

UNIVERSITY OF CALIFORNIA (LOS ANGELES) U
Image Intensifier 72-75
AO 2182

UCLA U
B/F Image Intensifier 72-75
AO 2182

TEXAS INSTRUMENTS U
B/F Image Instensifier 73-74
AO 2182

NBS Boulder U
B/F Refrigeration Superconducting
Component 72-73
AO 2186

Box 3

UNIVERSITY OF MINNESOTA U
B/F Pyroelectric Detectors 72-74
AO 2192

UNIVERSITY OF NORTH CAROLINA U
B/F Material Research 73-74
AO 2241

UNIVERSITY OF NORTH CAROLINA U
Corres - Material Research 73-74
AO 2241

BLOCK ENG. U
Instrumentation to Meas IR Window
Emissitivity 73-75
AO 2243

UNIVERSITY OF ILLINOIS U
B/F Semiconductor Research 73-74
AO 2259

UNIVERSITY OF ILLINOIS U
Corres - Semiconductor Research 73-74
AO 2259

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| ACCESSION NUMBER | | | VOLUME (cu. ft.) | AGENCY BOX NUMBERS | SERIES DESCRIPTION (With inclusive dates of records) | RESTRICTION | DISPOSAL AUTHORITY (Schedule and item number) | DISPOSAL DATE | COMPLETED BY RECORDS CENTER | | | | |
| RG (a) | FY (b) | NUMBER (c) | | | | | | | LOCATION (j) | SHELF PLAN (k) | CONT. TYPE (l) | AUTO. DISP. (m) | |
| 130 | 81 | 0431 | 10 | 6 | <u>BOX #6</u> AO 2031 Studies on Alkali Halide Windows - US Naval Research Lab Contract: In-House (72-73) AO 2055 IR & High Power Laser Windows - Univ of Southern Calif. Contract #F19628-76-C-0162 (76-78) AO 2175 Investigate Material Systems for Mirrors used in High Power CO & CO ₂ Lasers - Battelle Contract #N00123-72-C-2215 (72-74) AO 2243 Cryogenic Interferometer Spectrometer - Block Engr. Inc. Contract #F19628-73-C-0265 (73-74) AO 2055 High Power Windows, Coatings and Mirrors - Mass. Inst. of Tech. Contract #F19628-72-C-0275 (72-77) AO 2172 Polycrystalline Halides for Use in High Power Laser Windows Honeywell Contract #DAHC15-72-C-0227 (72-75) | | | | | | | | |

NRL
 B/F Integrated Optics 73-75
 AO 2327 U

NRL
 R/R Integrated Optics 73-75
 AO 2327 U

PERKIN-ELMER
 B/F Integrated Optics 73-75
 AO 2327 U

PERKIN-ELMER
 R/R Integrated Optics 73-75
 AO 2327 U

RCS
 B/F Integrated Optics 75
 AO 2327 U

N. AMERICAN ROCKWELL
 B/F Integrated Optics 73-75
 AO 2327 U

Box 5

PURDUE UNIVERSITY
 B/F Schizophrenic Catalyst 73-74
 AO 2338 U

PURDUE UNIVERSITY
 Corres - Schizophrenic Catalyst 73-74
 AO 2338 U

PURDUE UNIVERSITY
 Modulated Microstructure Steels
 -Random Signal Correlations for Flaw
 Detection
 -Acoustic Surface Wave Device 72-75
 AO 2340 U

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| RG (a) | FY (b) | NUMBER (c) | | | | | | | LOCATION (j) | SHELF PLAN (k) | CONT. TYPE (l) |
| 330 | 81 | 0431 | 10 | 7. | <u>BOX #7</u> AO 2900 Film Spectroscopy Experiment Cornell University Contract: F19628-75-C-0177 (75-78) AO 2898 Single Crystal Type II Diamonds - Univ of Southern Calif. Contract: N00014-76-C-1036 (76-78) AO 2983 Fundamental Window Breakdown Harvard University Contract: F44620-75-C-0088 (75-78) AO 2614 Optical Absorption in Low Loss Window Materials Univ of Alabama - Huntsville Contract: DAAK40-76-C-1171 AO 2612 Chemistry of Halide Window Growth - Hughes Research Labs Contract: F33615-74-C-5115 (74-75) AO 2620 Optical Matls Characterization National Bureau of Standards Contract: In-house (77) AO 3066 Low Absorption Laser Windows Naval Research Labs Contract: In-House (75-78) AO 3096 Growth of Pure Single Crystals Oregon State University Contract: F19628-76-C-0157 (76-77) | | | | | | |

ISONET CORP. U
Growing CD*A Crystals 73
AO 2364

NELC/NBS U
Ribbon Bonding Technology 73
AO 2366

BMI U
Silicon Nitrate Gas Turbine Appl
Superconductor Materials 73
AO 2371

NW UNIVERSITY U
Metal Catalysts Hidenity Storage Sat
Polyacrylonitrile Electrets 72-74
AO 2379

NW UNIVERSITY U
Corres - Metal Catalysts Hidenity Stg
73-75 AO 2379

UNIVERSITY OF PENN. U
Chem/Physical Prop Surfaces & Interfaces
73-75 AO 2380
-IV-VI Semiconductor Films and Surfaces
-Pb - Chalcogenide/Silicon hetero Junctions
AO 2380

UNIVERSITY OF PENN. U
Corres - Chem/Physical Prop Surfaces
and Interfaces 73-76
AO 2380

Box 6

OHIO STATE UNIV. U
Pyroelectric Field Effect Radiation
Detectors 73
AO 2411

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| 330 | 81 | 0431 | 10 | 8 | <u>BOX #8</u> AO 3216 Generation of Copper Films on Low Expansion Substrates Owens-Illinois Inc. Contract: In-House (75-76) AO 3220 Intrinsic & Thermal Stress Modelling for Thin-Film Multilayers Perkin-Elmer Contract: DAAA25-76-C-0410 (76-78) AO 2421 Development of Multispectral Sandwich-Type Infrared Windows Raytheon Contract: F33615-75-C-5223 (75-77) AO 2469 Research in Materials Science Mass. Institute of Technology Contract: DAHC 15-73-C-0316 (73-75) AO 2417 Laser Damage to Thin Film Coatings - Lawrence Livermore Labs Contract: In-House (72-75) | | | | | | |
| | | | | 9 | <u>BOX #9</u> AO 1969 Theoretical Studies of High Power Infrared Window Materials Xonics, Inc. Contract: DAHC15-72-C-0129 (72-74) | | | | | | |

NAR/Autonetics U
Optical Surface and Coating Science
71-75 AO 2415

NAR/Autonetics U
Reports - Optical Surf. & Coat Science
73-74 AO 2415

HARVARD UNIV. U
IR Damage to Metal Mirrors 74-75
AO 2440

HARVARD UNIV. U
Fracture Mechanics 72-74
AO 2440
-Laser Induced Breakdown
-Super Conductivity
AO 2440

UNIVERSITY OF MARYLAND U
Chemisorbed Layers on Metal Surfaces
73-75 AO 2442

TEXAS INSTRUMENTS U
Correspondence 73-74
AO 2443

TEXAS INSTRUMENTS U
Chalcogenide Glasses for Hi Energy
Laser Appl 72-73
AO 2443

UNIVERSITY OF CALIF. U
B/F Junction Memory Devices 73

UNIVERSITY OF CALIF. U
Corres - Memory Devices 72-74

RECORDS TRANSMITTAL
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|------------------|-----|--------|---------------------|--------------------------|--|------------|--|---------------|-----------------------------|-------------|------------|-------------|
| RG | FY | NUMBER | | | | | | | LOCATION | SHRINK PLAN | CONT. TYPE | AUTO. DISP. |
| (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) | (m) |
| 330 | 81 | 0431 | 10 | 10 | <p><u>BOX #10</u></p> <p>AO 2620 Optical Materials Characterization (Final Technical Report) National Bureau of Standards Contract: In-House (74-78)</p> <p>AO 1969 High-Power Ultraviolet & Infrared Materials (Final Technical Report) Xonics Contract: DAHC 15-73-C-0127</p> <p>AO 2055 Infrared Laser Window Studies (Final Report) University of Southern California Contract: F19628-77-C-0094 (76-78)</p> <p>AO 2415 Laser Window Materials & Optical Coating Science (Interim Technical Report) Hughes Research Labs F19628-76-C-0309 (76-77)</p> <p>AO 2416 Study of Polycrystalline Halides Honeywell Contract: DAHC15-73-C-0464 (73-77)</p> <p>AO 2421 Research on Chemically Vapor Deposited Chalcogenide Semiconductors for High Power Laser Window Appl. (Final Technical Report) AFML Contract: 33615-75-C-5221 (75-76)</p> | | | | | | | |

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| RG (a) | FY (b) | NUMBER (c) | | | | | | | LOCATION (j) | SHELF PLAN (k) | CONT. TYPE (l) | AUTO. DISP. (m) | |
| 330 | 81 | 0431 | 10 | | <p><u>BOX #10</u> (continued)</p> <p>AO 3154 Plasma Polymerized Coatings University of Calif-Berkeley Contract: N60530-78-C-0077 (78)</p> <p>AO 3154 Analysis of Interferometric Data Obtained from Low-Power Laser Tests of IR Window Materials at 10.6 μm (Final Technical Report) Honeywell Contract: 60530-78-C-0037 (78)</p> <p>AO 3154 Dielectric Mirrors for 3-5 Microns (Final Technical Report) Northrop Contract: F29601-76-C-0003 (76-78)</p> <p>AO 3242 Laser Optical Engineering Optical Coatings (Final Technical Report) Northrop Contract: N00123-76-C-1321 (76-78)</p> | | | | | | | | |

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