INTERNATIONAL ULTRAVIOLET EXPLORER
THREE AGENCY
INFORMATION INTERCHANGE

APRIL 1980
INTRODUCTION

The International Ultraviolet Explorer (IUE) satellite system is a cooperative program between the European Space Agency (ESA), the United Kingdom Science Research Council (SRC), and the United States National Aeronautics and Space Administration (NASA).

Observations using the spaceborne telescope are made for sixteen hours each day from the observatory at NASA's Goddard Space Flight Center near Washington, DC, in the United States; and for eight hours each day from the ESA observatory facility at Villafranca del Castillo, near Madrid, in Spain.

Day to day functioning of the system, as well as dissemination of the scientific data obtained from it, require that considerable information must be exchanged between the three agencies involved.

Since the beginning of the IUE program, the required information exchanges have evolved to meet the changing needs. Much has been documented, some has not. As a result, it was decided at the "Three Agency Meeting" at Villafranca del Castillo in November 1979, that NASA would assume the responsibility of compiling a document to define the required information exchanges. The document would be supplied to the IUE management of ESA and SRC for their comment and agreement.

This is that document. Its acceptance by the three agencies is indicated by the signatures on the "Concurrence" page.
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CONCURRENCE

This document identifies the operational and data dissemination information products which are exchanged between the United Kingdom Science Research Council, the European Space Agency, and the United States National Aeronautics and Space Administration as part of the International Ultraviolet Explorer program; and, where appropriate, defines the form of those information products.

It is agreed that any changes in those products, or the form thereof, will be implemented only by a mutually approved correction or supplement to the document.

For the National Aeronautics and Space Administration:

J. Patrick Corrigan 4/4/80
Project Manager

For the European Space Agency:

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For the Science Research Council:

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IUE Support Team Leader

Albert Boggess Date
Project Scientist

Michael V. Penston 22/4/80
ESA Project Scientist

P J Barker Date
Project Manager
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| 6.2 Intensity Transfer Function | IUESOC (DMC) | ESADC | Tape & Comment | As Need Arises |
| 6.3 Maintenance Shift Accomplishment Records | IUESOC (DMC) or VILSPA | VILSPA or IUESOC (DMC) | Memorandum | At End of Shift |
| 6.4 Spacecraft Calibration & Engineering Time Accounting | IUEOCC | VILSPA | Memorandum | Monthly |
| 6.5 Spacecraft Calibration & Engineering Time Accounting | VILSPA | IUEOCC | Memorandum | Monthly |
| 6.6 Absolute Instrument Calibration | IUESOC (DMC) | VILSPA | Tape | As Gen. |
| 6.7 Instrumental Response Function Files | IUESOC (DMC) | VILSPA | Tape | As Need Arises |

### SPECTRAL IMAGE PROCESSING SYSTEM

| 7.1 Scientific Operations Center Anomaly Report | IUESOC (IPCC) | VILSPA SRC (TEAM) | Std. Form | Monthly |
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### OPERATIONAL SOFTWARE CHANGES

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<td>5.2</td>
<td>ESA Newsletter</td>
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</tr>
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<td>5.4</td>
<td>Copies of Relevant Articles for any Agency Newsletter</td>
<td>IUESOC</td>
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<td>1.13</td>
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</tr>
</tbody>
</table>
OBSERVATORY SCHEDULES

The observatory schedules are made such that a program is chosen for the dates on which a minimum number of its targets are in the solar avoidance region and the Beta 55-95 degree zone (hot OBC). However, the observatory will attempt to honor requests to schedule operations on specific dates to allow the guest observers to cover desirable phases of variable stars, to utilize favorable planet-satellite configurations or to carry out simultaneous observations at other wavelengths etc. The schedules are published in three month blocks, at least two months in advance. On the schedule, the date, starting time of each shift, Principal Investigator's name, his program identification code and the names of the Resident Astronomers and Telescope Operators on duty are listed.
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: GSFC Observatory Schedule

FORM: Typewritten on letter size paper

FORMAT:

SEE APPENDIX:

FROM: IUESOC (TOCC)
Code 685
NASA/Goddard Space
Flight Center
Greenbelt, MD 20771
U.S.A.

TO: Villafranca Satellite
Tracking Station
Attn: Observatory Controller
Apartado 54065, Madrid
SPAIN

Rutherford & Appleton Labs.
IUE Support Team
Attn: RS/UK
Ditton Park
Slough SL3-9JX
UNITED KINGDOM

TRANSMITTAL: Air mail, once every three months, with revisions
METHOD &: monthly
FREQUENCY:

ADDITIONAL:
MATERIAL:
TRANSMITTED:

ADDITIONAL: The IUESOC Observatory schedule is generated for
INFORMATION: a three-month period, two months in advance

2.1
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: VILSPA Observatory Schedule
FORM:
FORMAT:
SEE APPENDIX:

FROM: Villafranca Satellite
Tracking Station
Attn: Observatory Controller
Apartado 54065, Madrid
SPAIN

TO: IUESOC (TOCC)
Attn: R.A./Obs. Schedule
Code 685
NASA/Goddard Space
Flight Center
Greenbelt, MD 20771
U.S.A.
Rutherford & Appleton Labs.
IUE Support Team
Attn: RS/UK
Ditton Park
Slough SL3-9JX
UNITED KINGDOM

TRANSMITTAL: Air mail, once every three months, with revisions
METHOD &:
FREQUENCY: monthly

ADDITIONAL:
MATERIAL:
TRANSMITTED:

ADDITIONAL: The VILSPA schedule is generated for a full year
INFORMATION: starting on April first. It is under continuous
review.

2.2
PRODUCT: Handover Time Accounting
FORM: Typewritten
FORMAT:
SEE APPENDIX:

FROM: IUESOC (TOCC) TO: Three Agency Meeting
Attn: R.A./Obs. Sched. Program Chairman
Code 685
NASA/Goddard Space Flight Center
Greenbelt, MD 20771
U.S.A.

Villafranca Satellite Tracking Station
Attn: Observatory Controller
Apartado 54065, Madrid
SPAIN

TRANSMITTAL: VILSPA and GSFC summaries should be prepared immediately prior to each Three Agency Meeting for presentation at that meeting
METHOD & FREQUENCY:
ADDITIONAL: MATERIAL:
TRANSMITTED:
ADDITIONAL: INFORMATION:

2.3
ARCHIVAL DATA

At both the GSFC and VILSPA ground facilities, raw data taken from the spacecraft are operated upon to remove noise and to make required corrections and calibrations. The processed data are then recorded and delivered to the observers.

1600 bpi copies of the archival tapes are prepared and sent to the National Space Science Data Center at GSFC.

The NSSDC processes the incoming tapes to high density, blocked (VBS format) tapes, at 6250 bpi for storage.

The 6250 bpi tapes containing the data acquired at GSFC are duplicated for the SRC and broken down into four 1600 bpi VBS tapes for ESA.

The NSSDC and the ESA and SRC data centers send copies, at the requested bpi, of GSFC and/or VILSPA archival tapes to requestors, within the limitation that no Guest Observer's data may be given to anyone else until he has had exclusive access to it for at least six months. At GSFC the six month rule is interpreted as being six months and 20 days from the dispatch of the complete data package to the observer. At VILSPA the six month rule is interpreted as being six months from the first of the month subsequent to dispatch.

The formats of the archival tapes are shown in Appendices A, B & C.
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: Archival Data Tape Form GSFC IUESOC to NSSDC
FORM: Magnetic Tape (1600 bpi)
FORMAT: SEE APPENDIX: A

FROM: IUESOC TO: NSSDC
   Attn: Data Mgmt. Center Attn: Dr. Wayne Warren, Jr.
   Code 685 Code 601
   NASA/Goddard Space Flight Center NASA/Goddard Space Flight Center
   Greenbelt, MD 20771 Greenbelt, MD 20771
   U.S.A. U.S.A.

TRANSMITTAL: Hand carry, every four weeks
   METHOD &:
   FREQUENCY:

ADDITIONAL: Tape Transaction Report
   MATERIAL:
   TRANSMITTED:

ADDITIONAL: Magnetic tape Mark IV database listing and photo-
   INFORMATION: write are handled as a package between IUESOC
   and NSSDC

3.1
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: Photowrite Archival Negative

FORMAT:

SEE APPENDIX:

FROM: IUESOC
Attn: Data Mgmt. Center
Code 685
NASA/Goddard Space Flight Center
Greenbelt, MD 20771
U.S.A.

TO: NSSDC
Attn: Dr. Wayne Warren, Jr.
Code 601
NASA/Goddard Space Flight Center
Greenbelt, MD 20771
U.S.A.

TRANSMITTAL: Hand carry, every four weeks

METHOD &:

FREQUENCY:

ADDITIONAL:

MATERIAL:

TRANSMITTED:

ADDITIONAL: Magnetic tape, Mark IV Data base listing and Photo write are handled as a package from IUESOC to NSSDC

3.2
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: IUESOC Archive Tape Information
FORM: Printout and Tape (ordered by day of observation)
FORMAT:
SEE APPENDIX: D for Tape Format, E & F for Listing Formats

FROM: IUESOC TO: NSSDC
Attn: Data Mgmt. Center Attn: Dr. Wayne Warren, Jr.
Code 685 Code 601
NASA/Goddard Space Flight Center NASA/Goddard Space Flight Center
Greenbelt, MD 20771 Greenbelt, MD 20771
U.S.A. U.S.A.

TRANSMITTAL: Hand carry, every four weeks
METHOD &:
FREQUENCY:
ADDITIONAL: Two printed copies of the database ordered by
MATERIAL: image sequence number and one copy ordered by
TRANSMITTED: tape and delivery date
ADDITIONAL: Archival Tape, database listing and Photowrite
INFORMATION: are handled as a package between IUESOC & NSSDC

3.3
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: Documentation on Formats and Contents of Standard IUE Data Tapes as a Function of Time

FORM: Written Documents

FORMAT:

SEE APPENDIX:

FROM: IUESOC
Attn: Data Mgmt. Center
Code 685
NASA/Goddard Space Flight Center
Greenbelt, MD 20771
U.S.A.

TO: NSSDC
Attn: Dr. Wayne Warren, Jr.
Code 601
NASA/Goddard Space Flight Center
Greenbelt, MD 20771
U.S.A.

Villafranca Satellite Tracking Station
Attn: Observatory Controller
Apartado 54065, Madrid
SPAIN

Rutherford & Appleton Labs.
IUE Support Team
Attn: RS/UK
Ditton Park
Slough SL3 9JX
UNITED KINGDOM

Rutherford & Appleton Labs.
World Data Centre - C
Attn: R.W. Smith
Ditton Park
Slough SL3 9JX
UNITED KINGDOM

TRANSMITTAL: Hand carried within GSFC & mailed to others, when modified

ADDITIONAL: Provided so that Data Centers can inform requesters as to the format and contents of IUE tapes which they distribute

3.4
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: Documentation on Formats and Contents of Standard IUE Data Tapes as a Function of Time

FORM: Written Documents

FORMAT:

SEE APPENDIX:

FROM: Villafranca Satellite Tracking Station
      Attn: Observatory Controller
      Apartado 54065, Madrid
      SPAIN

TO:       NSSDC
          Attn: Dr. Wayne Warren, Jr.
          Code 601
          NASA/Goddard Space Flight Center
          Greenbelt, MD 20771
          U.S.A.

IUESOC (IPCC)
Attn:
Code 685
NASA/Goddard Space Flight Center
Greenbelt, MD 20771
U.S.A.

Rutherford & Appleton Labs.
IUE Support Team
Attn: RS/UK
Ditton Park
Slough SL3 9JX
UNITED KINGDOM

Rutherford & Appleton Labs.
World Data Centre - C
Attn: R.W. Smith
Ditton Park
Slough SL3 9JX
UNITED KINGDOM

TRANSMITTAL: Mailed, when modified

ADDITIONAL:
MATERIAL:
TRANSMITTED:

ADDITIONAL: Provided so that Data Centers can inform requesters
INFORMATION: as to the format and contents of IUE tapes which they distribute

3.5
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: Archival Data Tapes from ESA Data Centre to the NSSDC

FORM: Magnetic Tape (1600 bpi)

FORMAT: Identical to Guest Observer Tape

SEE APPENDIX: B

FROM: Villafranca Satellite Tracking Station
      Attn: Computer Manager
      Apartado 54065, Madrid
      SPAIN

TO: National Space Science Data Center
    Attn: Dr. Wayne Warren, Jr.
    Code 601
    NASA/Goddard Space Flight Center
    Greenbelt, MD 20771
    U.S.A.

TRANSMITTAL: Mail, monthly, including all images released that month

ADDITIONAL: Image Release List, Catalog

MATERIAL: TRANSMITTED:

ADDITIONAL INFORMATION: At the NSSDC, the incoming tapes are processed to high density, blocked (VBS Format) tapes, at 6250 bpi, for storage. Handwritten tape content.
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: Archival Data Tapes from the ESA Data Centre to the SRC Data Centre

FORM: Magnetic Tape (1600 bpi)

FORMAT: Identical to Guest Observer Tapes

SEE APPENDIX: B

FROM: Villafranca Satellite Tracking Station
Atttn: Computer Manager
Apartado 54065, Madrid
SPAIN

TO: Rutherford & Appleton Labs.
World Data Centre - C
Atttn: R.W. Smith
Ditton Park
Slough SL3 9JX
UNITED KINGDOM

TRANSMITTAL: Mail, monthly within three months of observations
METHOD &:
FREQUENCY:

ADDITIONAL: Monthly list of image release dates
MATERIAL:
TRANSMITTED:

ADDITIONAL:
INFORMATION:

3.7
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: Photowrite Negatives of SRC Images

FORM:

FORMAT:

SEE APPENDIX:

FROM: Villafranca Satellite Tracking Station
Attn: Computer Manager
Apartado 54065, Madrid
SPAIN

TO: Rutherford & Appleton Labs.
IUE Support Team
Attn: RS/UK
Ditton Park
Slough SL3 9JX
UNITED KINGDOM

TRANSMITTAL: Mail, monthly within three months of observations

METHOD &:
FREQUENCY:

ADDITIONAL:
MATERIAL:
TRANSMITTED:

ADDITIONAL:
INFORMATION:

3.8
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: Photowrite Negatives of ESA Images

FORMAT:

FORMAT:

SEE APPENDIX:

FROM: ESA Operations Center TO: ESA Data Center by Internal Transfer

TRANSMITTAL: Hand carry, as generated

METHOD &:

FREQUENCY:

ADDITIONAL:

MATERIAL:

TRANSMITTED:

ADDITIONAL:

INFORMATION:

3.9
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: Contact Prints of Photowrite Negatives of All VILSPA Images

FORM:

FORMAT:

SEE APPENDIX:

FROM: ESA Operations Center TO: ESA Data Center
by Internal Transfer

TRANSMITTAL: Hand carry, as generated

METHOD &:

FREQUENCY:

ADDITIONAL:

MATERIAL:

TRANSMITTED:

ADDITIONAL:

INFORMATION:

3.10
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: Archival Data Tapes from the VILSPA Operations Center to the ESA Data Centre

FORM: Magnetic Tape

FORMAT:

SEE APPENDIX: B

FROM: ESA Operations Centre TO: ESA Data Centre
by Internal Transfer

TRANSMITTAL: Hand carried, as generated

METHOD &:
FREQUENCY:

ADDITIONAL:
MATERIAL:
TRANSMITTED:

ADDITIONAL:
INFORMATION:

3.11
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: VILSPA Catalog of Contents of Archival Tapes
FORM: Magnetic Tape & Listing

FORMAT:
SEE APPENDIX: G for Tape Format & H for Listing Format

FROM: Villafranca Satellite Tracking Station
Attn: Computer Manager
Apartado 54065, Madrid
SPAIN

TO: Rutherford & Appleton Labs.
World Data Centre - C
Attn: R.W. Smith
Ditton Park
Slough SL3 9JX
UNITED KINGDOM

NSSDC
Attn: Dr. Wayne Warren, Jr.
Code 601
NASA/Goddard Space Flight Center
Greenbelt, MD 20771
U.S.A.

ESA Data Centre by Internal Transfer

TRANSMITTAL: Mail, monthly
METHOD &:
FREQUENCY:

ADDITIONAL:
MATERIAL:
TRANSMITTED:

ADDITIONAL: Accompanies the archival tapes to GSFC
INFORMATION:

3.12
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: VILSPA Release Lists
FORM: Typewritten
FORMAT:
SEE APPENDIX:

FROM: Villafranca Satellite Tracking Station
      Attn: Computer Manager
      Apartado 54065, Madrid
      SPAIN

TO: Rutherford & Appleton Labs.
    World Data Centre - C
    Attn: R.W. Smith
    Ditton Park
    Slough SL3 9JX
    UNITED KINGDOM

    NSSDC
    Attn: Dr. Wayne Warren, Jr.
    Code 601
    NASA/Goddard Space Flight Center
    Greenbelt, MD 20771
    U.S.A.

    ESA Data Centre by Internal Transfer

TRANSMITTAL: Mail, monthly
METHOD &:
FREQUENCY:

ADDITIONAL:
MATERIAL:
TRANSMITTED:

ADDITIONAL: Accompanies the archival tapes to GSFC
INFORMATION:

3.13
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: Archival Data Tape from the NSSDC to the ESA Data Centre

FORM:

FORMAT:

SEE APPENDIX: C

FROM: National Space Science Data Center
Attn: Dr. Wayne Warren, Jr.
Code 601
NASA/Goddard Space Flight Center
Greenbelt, MD 20771
U.S.A.

TO: Villafranca Satellite Tracking Station
Attn: Computer Manager
Apartado 54065, Madrid
SPAIN

TRANSMITTAL: Air freight, within three months of completion of
METHOD &: image processing.
FREQUENCY: 

ADDITIONAL:
MATERIAL: 
TRANSMITTED:

ADDITIONAL: Each 6250 bpi tape generated by NSSDC from the
INFORMATION: GSFC acquired data is broken down into four
1600 bpi, VBS, tapes for shipment to the ESA Data Centre. Tapes are accompanied by the
Image Database listing. Handwritten tape content.

3.14
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: Image Database, NSSDC to ESA Data Centre
FORM: Printed Listing
FORMAT: Ordered by Camera & Image Sequence Number
SEE APPENDIX: I

FROM: National Space Science Data Center
   Attn: Dr. Wayne Warren, Jr.
   Code 601
   NASA/Goddard Space Flight Center
   Greenbelt, MD 20771
   U.S.A.

TO: Villafranca Satellite Tracking Station
    Attn: Computer Manager
    Apartado 54065, Madrid
    SPAIN

TRANSMITTAL: Air freight, with archival tapes
METHOD &:
FREQUENCY:
ADDITIONAL:
MATERIAL:
TRANSMITTED:
ADDITIONAL: Each 6250 bpi tape generated by NSSDC from the
INFORMATION: GSFC acquired data is broken down into four
1600 bpi, VBS, tapes for shipment to the ESA Data Centre. Tapes are accompanied by the
Image Database listing.
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: Archival Data Tapes from the NSSDC to the SRC Data Centre

FORM: Magnetic Tape (6250 bpi, VBS format)

FORMAT:

SEE APPENDIX: C

FROM: National Space Science Data Center
Attn: Dr. Wayne Warren, Jr.
Code 601
NASA/Goddard Space Flight Center
Greenbelt, MD 20771
U.S.A.

TO: Rutherford & Appleton Labs.
World Data Centre - C
Attn: R.W. Smith
Ditton Park
Slough SL3 9JX
UNITED KINGDOM

TRANSMITTAL: Air freight, within three months of completion of image processing

METHOD & FREQUENCY:

ADDITIONAL:

MATERIAL:

TRANSMITTED:

ADDITIONAL: Each 6250 bpi tape generated by NSSDC from the GSFC acquired data is broken down into four 1600 bpi, VBS, tapes for shipment to the ESA Data Centre. Tapes are accompanied by the Image Database listing.
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: Image Database, NSSDC to the SRC Data Centre
FORM: Printed Listing
FORMAT: Ordered by Camera, Image Sequence Number, Object Identification and Image Release Data
SEE APPENDIX: I

FROM: National Space Science Data Center  TO: Rutherford & Appleton Labs.
        Attn: Dr. Wayne Warren, Jr.  World Data Centre - C
        Code 601  Attn: R.W. Smith
        NASA/Goddard Space Flight Center  Ditton Park
        Greenbelt, MD 20771  Slough SL3 9JX
        U.S.A.

TRANSMITTAL: Air freight, with archival tapes
METHOD &:
FREQUENCY:
ADDITIONAL:
MATERIAL:
TRANSMITTED:
ADDITIONAL:
INFORMATION: 3.17
Logs are maintained at both observatories. These logs list the object observed, the Guest Observer, position, comments, exposure times etc. for each observation made with the IUE. The logs are distributed to the scientific communities associated with GSFC, ESA, and the SRC.

Distributed logs contain a footnote stating that releasable observations will be available upon request to the data centers. With the addition of that footnote, the observatory log fulfills the requirement for publication of a list of IUE observations available at the data centers, as required by the memorandum of understanding.

The GSFC Observatory Log explicitly lists a release date for each observation, when that information becomes known. Release dates for VILSPA images are normally 7 to 8 months after the observation.

At GSFC IUESOC, the GSFC and VILSPA Observatory logs are merged into a composite log. The cumulative merged log is prepared annually from launch and updated bi-monthly for the current year.

The overall schedule for observatory logs and the merged log is shown below. The merged log is keyed to an observations epoch of one calendar year beginning in April. The other schedules are tied to the merged log schedule.

<table>
<thead>
<tr>
<th>GSFC LOG</th>
<th>VILSPA LOG</th>
<th>CUMULATIVE MERGED LOG</th>
<th>MERGED LOG UPDATES</th>
</tr>
</thead>
<tbody>
<tr>
<td>FROM APR 1 OF CURRENT YR</td>
<td>FROM APR 1 OF CURRENT YR</td>
<td>FROM LAUNCH</td>
<td>FROM APR 1 OF CURRENT YR</td>
</tr>
<tr>
<td>COVERS TO THE LAST DAY OF PREP. &amp; DISTRIBUTION BEFORE LAST OF</td>
<td>COVERS TO THE LAST DAY OF PREP. &amp; DISTRIBUTION BEFORE LAST OF</td>
<td>COVERS TO THE LAST DAY OF PREP. &amp; DISTRIBUTION BEFORE LAST OF</td>
<td>COVERS TO THE LAST DAY OF PREP. &amp; DISTRIBUTION BEFORE LAST OF</td>
</tr>
<tr>
<td>April</td>
<td>May</td>
<td>April</td>
<td>May</td>
</tr>
<tr>
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<td>June</td>
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<td>March</td>
<td>Feb.</td>
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</tr>
<tr>
<td>March</td>
<td>April</td>
<td>March</td>
<td>April</td>
</tr>
</tbody>
</table>

4.0
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: GSFC Observatory Log to VILSPA
FORM: Printed Listing and Tape
FORMAT:
SEE APPENDIX: J for Tape Format & K for Printout Format

FROM: IUESOC
Attn: Data Mgmt. Center
Code 685
NASA/Goddard Space Flight Center
Greenbelt, MD 20771
U.S.A.

TO: Villafranca Satellites
Tracking Station
Attn: Observatory Controller
Apartado 54065, Madrid
SPAIN

TRANSMITTAL: Mail, monthly
METHOD &:
FREQUENCY: 
ADDITIONAL:
MATERIAL: 
TRANSMITTED: 
ADDITIONAL: Log is cumulative for the current year
INFORMATION: (April 1 to March 31)

4.1
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: GSFC Observatory Log to the SRC Support Team

FORM: Printed Listing and Tape

FORMAT:

SEE APPENDIX: J for Tape Format & K for Printout Format

FROM: IUESOC
Attn: Data Mgmt. Center
Code 685
NASA/Goddard Space Flight Center
Greenbelt, MD 20771
U.S.A.

TO: Rutherford & Appleton Labs.
IUE Support Team
Attn: RS/UK
Ditton Park
Slough SL3 9JX
UNITED KINGDOM

TRANSMITTAL: Mail, monthly
METHOD &:
FREQUENCY:

ADDITIONAL:
MATERIAL:
TRANSMITTED:

ADDITIONAL: Log is cumulative for the current year
INFORMATION: (April 1 to March 31)

4.2
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: VILSPA Observatory Log to IUESOC

FORM: Printed Listing and Tape

FORMAT:

SEE APPENDIX: L for Tape Format & Appendix M for the Listing Format

FROM: Villafranca Satellite Tracking Station
       Attn: Computer Manager
       Apartado 54065, Madrid
       SPAIN

TO: IUESOC (DMC)
    Attn: Code 685
    NASA/Goddard Space Flight Center
    Greenbelt, MD 20771
    U.S.A.

TRANSMITTAL: Mail, monthly

METHOD &:
FREQUENCY:

ADDITIONAL:
MATERIAL:
TRANSMITTED:

ADDITIONAL: VILSPA Observatory log contains the log information from both ESA and SRC observations cumulative for the current year (April 1 to March 31).

4.3
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: VILSPA Observatory Log to the SRC Support Team

FORM: Printed Listing

FORMAT:

SEE APPENDIX: M

FROM: Villafranca Satellite Tracking Station
      Attn: Computer Manager
      Apartado 54065, Madrid
      SPAIN

TO: Rutherford & Appleton Labs.
      IUE Support Team
      Attn: RS/UK
      Ditton Park
      Slough SL3 9JX
      UNITED KINGDOM

TRANSMITTAL: Mail, monthly
METHOD &:
FREQUENCY:

ADDITIONAL:
MATERIAL:
TRANSMITTED:

ADDITIONAL:
INFORMATION:

4.4
PRODUCT: Merged Log, IUESOC to NSSDC
FORM: Microfiche Positive & Tape
FORMAT: Same as GSFC Observatory Log (Cumulative)
SEE APPENDIX: I

FROM: IUESOC
  Attn: Data Mgmt. Center
  Code 685
  NASA/Goddard Space Flight Center
  Greenbelt, MD 20771
  U.S.A.

TO: NSSDC
  Attn: Dr. Wayne Warren, Jr.
  Code 601

TRANSMITTAL: Hand carry, annually in May
METHOD &:
FREQUENCY:
ADDITIONAL:
MATERIAL:
TRANSMITTED:
ADDITIONAL:
INFORMATION:

4.5
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: Merged Log, IUESOC to ESA Operations
FORM: Microfiche Negatives, Tape & Printed Listing
(order by R.A. & declination)
FORMAT: Same as GSFC Observatory Log
SEE APPENDIX: J for Tape Format & K for Listing Format

FROM: IUESOC
Attn: Data Mgmt. Center
Code 685
NASA/Goddard Space Flight Center
Greenbelt, MD 20771
U.S.A.

TO: Villafranca Satellite Tracking Station
Attn: Observatory Controller
Apartado 54065, Madrid
SPAIN

TRANSMITTAL: Mail, annually in May
METHOD &:
FREQUENCY:
ADDITIONAL:
MATERIAL:
TRANSMITTED:

ADDITIONAL: The GSFC and VILSPA Observatory logs are merged
INFORMATION: at the GSFC IUESOC.

4.6
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: Cumulative Merged Log, IUESOC Launch to SRC Support Team

FORM: Microfiche Negatives, Tape & Printed Listing
(ordering by R.A. & declination)

FORMAT: Same as GSFC Observatory Log

SEE APPENDIX: J for Tape Format & K for Listing Format

FROM: IUESOC TO: Rutherford & Appleton Labs.
Attn: Data Mgmt. Center IUE Support Team
Code 685 Attn: RS/UK
NASA/Goddard Space Flight Ditton Park
Center Slough SL3 9JX
Greenbelt, MD 20771 UNITED KINGDOM
U.S.A.

TRANSMITTAL: Mail, annually in May

METHOD &:
FREQUENCY:

ADDITIONAL:
MATERIAL:
TRANSMITTED:

ADDITIONAL:
INFORMATION:

4.7
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: Merged Log Updates, IUESOC to NSSDC

FORM: Magnetic Tape & Printed Listing (ordered by R.A. & declination)

FORMAT: Same as GSFC Observatory Log

SEE APPENDIX: J for Tape Format & K for Printout Format

FROM: IUESOC
   Attn: Data Mgmt. Center
   Code 685
   Bldg. 21, Rm. G-69

TO: NSSDC
   Attn: Dr. Wayne Warren, Jr.
   Code 601
   Bldg. 26, Rm. 105

TRANSMITTAL: Hand carry, bi-monthly
METHOD &:
FREQUENCY:

ADDITIONAL:
MATERIAL:
TRANSMITTED:

ADDITIONAL:
INFORMATION:

4.8
PRODUCT: Merged Log Updates, IUESOC to VILSPA

FORM: Magnetic Tape & Printed Listing (ordered by R.A. and declination)

FORMAT: Same as GSFC Observatory Log

SEE APPENDIX: J for Tape Format & K for Printout Format

FROM: IUESOC
Attn: Data Mgmt. Center
Code 685
NASA/Goddard Space Flight Center
Greenbelt, MD 20771
U.S.A.

TO: Villafranca Satellite
Tracking Station
Attn: Observatory Controller
Apartado 54065, Madrid
SPAIN

TRANSMITTAL: Mail, bi-monthly
METHOD &:
FREQUENCY:

ADDITIONAL:
MATERIAL:
TRANSMITTED:

ADDITIONAL:
INFORMATION:

4.9
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: Merged Log Updates, GSFC to SRC Support Team

FORM: Magnetic Tape & Printed Listing (ordered by R.A. and declination)

FORMAT: Same as GSFC Observatory Log

SEE APPENDIX: J for Tape Format & K for Printout Format

FROM: IUESOC
Attn: Data Mgmt. Center
Code 685
NASA/Goddard Space Flight Center
Greenbelt, MD 20771
U.S.A.

TO: Rutherford & Appleton Labs.
IUE Support Team
Attn: RS/UK
Ditton Park
Slough SL3 9JX
UNITED KINGDOM

TRANSMITTAL: Mail, bi-monthly
METHOD &:
FREQUENCY:
ADDITIONAL:
MATERIAL:
TRANSMITTED:
ADDITIONAL:
INFORMATION:

4.10
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: Weekly Observation Logs
FORM: Printout
FORMAT:
SEE APPENDIX:

FROM: IUESOC(TOCC)
Attn: RA for Scheduling
Code 685
NASA/Goddard Space
Flight Center
Greenbelt, MD 20771
U.S.A.

TO: Villafranca Satellite
Tracking Station
Attn: Observatory Controller
Apartado 54065, Madrid
SPAIN

TO: Rutherford & Appleton Labs.
IUE Support Team
Attn: RS/UK
Ditton Park
Slough SL3-9JX
UNITED KINGDOM

TRANSMITTAL: Mail, weekly
METHOD &:
FREQUENCY:

ADDITIONAL:
MATERIAL:
TRANSMITTED:

ADDITIONAL:
INFORMATION:

4.11
NEWSLETTERS

Each of the three agencies generates and distributes a newsletter covering its activities. The newsletters may contain such things as; observatory logs, guest observer schedules, discussion of pending changes, significant occurrences in the preceding period, and technical notes.
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: GSFC Newsletter
FORM: Printed Document
FORMAT:
SEE APPENDIX:

FROM: IUESOC
Attn: Newsletter Editor
Code 685
NASA/Goddard Space
Flight Center
Greenbelt, MD 20771
U.S.A.

TO: GSFC Scientific Distr.
Distribution List Provided
by VILSPA Observatory
Controller
Distribution List Provided
by SRC IUE Support Team

TRANSMITTAL: Mail, bi-monthly
METHOD &:
FREQUENCY:

ADDITIONAL:
MATERIAL:
TRANSMITTED:

ADDITIONAL:
INFORMATION:

5.1
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: ESA Newsletter
FORM: Printed Document
FORMAT:
SEE APPENDIX:

FROM: Villafranca Satellite Tracking Station
      Attn: Newsletter Editor
      Apartado 54065, Madrid
      SPAIN

TO: ESA Scientific Distr.
      Distribution List Provided
      by GSFC Observatory Manager

      Distribution List Provided
      by SRC IUE Support Team

TRANSMITTAL: Mail, quarterly
METHOD &:
FREQUENCY:
ADDITIONAL:
MATERIAL:
TRANSMITTED:
ADDITIONAL:
INFORMATION:

5.2
PRODUCT: SRC Newsletter

FORM: Printed Document

FORMAT:

SEE APPENDIX:

FROM: Rutherford & Appleton Labs.  TO: SRC Scientific Distr.
    Attn: Newsletter Editor
    Ditton Park
    Slough SL3 9JX
    UNITED KINGDOM

TRANSMITTAL: Mail, approximately quarterly

METHOD &:
FREQUENCY:

ADDITIONAL:
MATERIAL:
TRANSMITTED:

ADDITIONAL:
INFORMATION:

5.3
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: Copies of Relevant Articles for Any Agency
Newsletter

FORM: Typewritten

FORMAT: Camera Ready Copy

SEE APPENDIX:

FROM: Originating Agency
Newsletter Editor

TO: IUESOC
Attn: Newsletter Editor
Code 685
NASA/Goddard Space Flight
Center
Greenbelt, MD 20771
U.S.A.

Villafranca Satellite
Tracking Station
Attn: Newsletter Editor
Apartado 54065, Madrid
SPAIN

Rutherford & Appleton Labs.
IUE Support Team
Attn: RS/UK
Ditton Park
Slough SL3 9JX
UNITED KINGDOM

TRANSMITTAL: Mail, as generated
METHOD &:
FREQUENCY:

ADDITIONAL:
MATERIAL:
TRANSMITTED:

ADDITIONAL:
INFORMATION:
CALIBRATIONS

Magnetic tapes and astronomers' analyses are exchanged between GSFC and VILSPA for maintaining calibration of the IUE instrument.

An accounting of spacecraft time spent for Calibration and Engineering purposes is maintained by each observatory and exchanged monthly.
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: Wavelength and Geometric Calibration Data
FORM: Magnetic Tape and Astronomer Analyses
FORMAT:
SEE APPENDIX:

FROM: IUESOC (DMC) 
Attn: R.A. for Image Processing
Code 685
NASA/Goddard Space Flight Center
Greenbelt, MD 20771
U.S.A.

TO: Villafranca Satellite Tracking Station
Attn: Image Processing System Analyst
Apartado 54065, Madrid
SPAIN

TRANSMITTAL: Mail, as need arises
METHOD &:
FREQUENCY:

ADDITIONAL:
MATERIAL:
TRANSMITTED:

ADDITIONAL: It is expected that this exchange will be modified when appropriate mean calibrations have been accepted & implemented.

6.1
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: Intensity Transfer Function (ITF)
FORM: Magnetic Tape and Astronomer Analyses
FORMAT:
SEE APPENDIX:

FROM: IUESOC (DMC)
Attn: R.A. for Calibration
Code 685
NASA/Goddard Space Flight Center
Greenbelt, MD 20771
U.S.A.

TO: Villafranca Satellite Tracking Station
Attn: Image Processing System Analyst
Apartado 54065, Madrid SPAIN

TRANSMITTAL: Mail, as the need requires
METHOD &:
FREQUENCY:

ADDITIONAL:
MATERIAL:
TRANSMITTED:

ADDITIONAL:
INFORMATION: 6.2
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: Maintenance Shift Accomplishment Records
FORM: Memorandum
FORMAT: Describes observations and tests carried out during the maintenance shift

SEE APPENDIX:

FROM OR TO: TO OR FROM:
IUESOC Villafranca Satellite
Shift Resident Astronomer Tracking Station
for Operations Attn: ESA & SRC Calibration
Code 685 Committee Members
NASA/Goddard Space Apartado 54065, Madrid
Flight Center SPAIN
Greenbelt, MD 20771
U.S.A.

TRANSMITTAL: Facsimile, at the conclusion of the maintenance
METHOD &: shift.
FREQUENCY:

ADDITIONAL:
MATERIAL:
TRANSMITTED:

ADDITIONAL:
INFORMATION:

6.3
FROM: IUEOCC
Attn: IUEPOD
Code 602
NASA/Goddard Space
Flight Center
Greenbelt, MD 20771
U.S.A.

TO: Villafranca Satellite
Tracking Station
Attn: Observatory Controller
SRC VILSPA R.A.
VILSPA Operations Engr.
Apartado 54065, Madrid
SPAIN

TRANSMITTAL: FAX monthly
METHOD &:
FREQUENCY:

ADDITIONAL:
MATERIAL:
TRANSMITTED:

ADDITIONAL: Provides GSFC monthly use and cumulative total time for VILSPA and GSFC. A summary will be provided for each 3-agency meeting.
PRODUCT: Spacecraft Calibration & Engineering Time Accounting

FORMAT:

FORMAT: Memorandum

SEE APPENDIX:

FROM: Villafranca Satellite Tracking Station
Attn: Observatory Controller
Apartado 54065, Madrid
SPAIN

TO: IUEOCC Attn: IUEPOD
Code 602
NASA/Goddard Space Flight Center
Greenbelt, MD 20771
U.S.A.

TRANSMITTAL: FAX monthly

METHOD &:
FREQUENCY:

ADDITIONAL:
MATERIAL:
TRANSMITTED:

ADDITIONAL: Provides GSFC monthly use.

INFORMATION:

6.5
PRODUCT: Absolute Instrument Calibration

FORM: Raw Data Tapes

FORMAT: 800 bpi, with one short header file followed by the image files.

SEE APPENDIX:

FROM OR TO:
IUESOC (DMC) Attn: R.A. for Calibration Code 685 NASA/Goddard Space Flight Center Greenbelt, MD 20771 U.S.A.

TO OR FROM:
Villafranca Satellite Tracking Station Attn: ESA or SRC Calibration Committee Member Apartado 54065, Madrid SPAIN

TRANSMITTAL: Mail, as generated
METHOD &:
FREQUENCY:

ADDITIONAL: From GSFC, copies of the observing scripts relevant to the images on the tape accompany the tape.
MATERIAL: 
TRANSMITTED: 

FROM VILSPA, a copy of the appropriate "Daily Operations Log" is to accompany the tape.

ADDITIONAL: 
INFORMATION: 

6.6
PRODUCT: Instrumental Response Function (IRF) Files
FORM: Magnetic Tape
FORMAT:
SEE APPENDIX:

FROM: IUESOC (DMC) TO: Villafranca Satellite Tracking Station
Attn: R.A. for Calibration Attn: Image Processing Analyst
Code 685 Apartado 54065, Madrid
NASA/Goddard Space Flight Center SPAIN
Center
Greenbelt, MD 20771
U.S.A.

TRANSMITTAL: Mail, as need arises
METHOD &:
FREQUENCY:
ADDITIONAL:
MATERIAL:
TRANSMITTED:
ADDITIONAL:
INFORMATION:

6.7
The IUE Spectral Image Processing System (SIPS) is updated at both earth terminals, based upon the information exchanged between them.

The SIPS application software was developed at GSFC and provided to VILSPA for installation and use at that site. Major system updates are provided to VILSPA via magnetic tape and accompanying documentation. Minor updates are coordinated between the Image Processing Resident Astronomers at both observatories, and implemented independently at the two locations.

Because of the differences between the image processing systems at GSFC and VILSPA, VILSPA does not receive "systems" for image processing changes (i.e. SAVES of all disk areas). They do receive updates which they implement after integration into their system. The two image processing systems, (GSFC and VILSPA) are maintained functionally equivalent. By mutual agreement between GSFC and VILSPA, the D5 disc areas in both IUE SIPS versions are maintained at equal size to allow exchange of files via D5 SAVES and RESTORES.
PRODUCT: Scientific Operations Center Anomaly Report (SOCAR)

FORM: Standard Form

FORMAT:

SEE APPENDIX: N

FROM: IUESOC (IPCC)  TO: Villafranca Satellite
Attn: Image Proc. Tracking Station
Resident Astron. Attn: Observatory Controller
Code 685 Attn: Observatory Director
NASA/Goddard Space Apartado 54065, Madrid
Flight Center SPAIN
Greenbelt, MD 20771 Rutherford & Appleton Labs.
U.S.A. IUE Support Team

TO: Villafranca Satellite
Tracking Station
Attn: Observatory Director
Apartado 54065, Madrid

Rutherford & Appleton Labs.
IUE Support Team
Attn: RS/UK
Ditton Park
Slough SL3 9JX
UNITED KINGDOM

TRANSMITTAL: Mail, monthly

METHOD &:

FREQUENCY:

ADDITIONAL:

MATERIAL:

TRANSMITTED:

ADDITIONAL: 7.1

INFORMATION:
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: VILSPA SOCAR Equivalent
FORM: Standard Form
FORMAT:
SEE APPENDIX: P

FROM: Villafranca Satellite Tracking Station
Attn: Image Processing Analyst
Apartado 54065, Madrid SPAIN

TO: IUESOC (IPCC)
Attn: R.A. for Image Processing
Code 685
NASA/Goddard Space Flight Center
Greenbelt, MD 20771 U.S.A.

Rutherford & Appleton Labs.
IUE Support Team
Attn: RS/UK
Ditton Park
Slough, SL3 9JX
UNITED KINGDOM

TRANSMITTAL: Mail, monthly
METHOD &:
FREQUENCY:
ADDITIONAL:
MATERIAL:
TRANSMITTED:
ADDITIONAL:
INFORMATION:

7.2
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: Scheme Modification Report (SMR)
FORM: Standard Form
FORMAT
SEE APPENDIX: 0

FROM: IUESOC (IPCC)
Resident Astronomer
Code 685
NASA/Goddard Space
Flight Center
Greenbelt, MD 20771
U.S.A.

TO: Villafranca Satellite
Tracking Station
Attn: Observatory Controller
Apartado 54065, Madrid
SPAIN

Rutherford & Appleton Labs.
IUE Support Team
Attn: RS/UK
Ditton Park
Slough SL3 9JX
UNITED KINGDOM

TRANSMITTAL: Mail, monthly
METHOD &:
FREQUENCY:

ADDITIONAL:
MATERIAL:
TRANSMITTED:

ADDITIONAL:
INFORMATION:

7.3
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: VILSPA Equivalent of SMR

FORM: Standard Form

FORMAT:

SEE APPENDIX: Q

FROM: Villafranca Satellite Tracking Station
Attn: Image Processing Analyst
Apartado 54065, Madrid SPAIN

TO: IUESOC (IPCC)
Attn: R.A. for Image Processing Code 685
NASA/Goddard Space Flight Center
Greenbelt, MD 20771 U.S.A.

Rutherford & Appleton Labs.
IUE Support Team
Attn: RS/UK
Ditton Park
Slough, SL3 9JX
UNITED KINGDOM

TRANSMITTAL: Mail, monthly
METHOD &:
FREQUENCY:

ADDITIONAL:
MATERIAL:
TRANSMITTED:

ADDITIONAL:
INFORMATION:

7.4
OPERATIONAL SOFTWARE CHANGES

The IUE operational software system is designed, tested and placed into operation at GSFC. When it is declared satisfactory for operations, it is supplied to VILSPA for adaptation to their hardware configuration. As new (updated) systems are built, complete deliveries are made to VILSPA. The following are contained in each system delivery:

a. Magnetic Tapes

1. Database source tape at 1600 bpi, reflecting the current level used in the system build.

2. Source and binary tapes at 1600 bpi
   (a) Files A, B
   (b) File C
   (c) File D
   (d) Files E through Z

3. Miscellaneous Items
   (a) Listing of SYSGEN deck
   (b) Four copies of updated one-liner program descriptions
   (c) Four copies of CSC memo describing system changes and Operations Manual updates.

The operations software system changes are controlled by the use of "Requirement Change Control" (RCC) and "Discrepancy Report" (DR) forms. These forms are numbered sequentially by IUEOCC and supplied to the software contractor for implementation. A review committee of GSFC operations and software development personnel, reviews the DR's and RCC's periodically to establish priorities for implementation and status review. Copies of RCC's, DR's and the priority list are provided to VILSPA. VILSPA inputs to the DR's, RCC's and priority list are coordinated informally.

Operations Procedures (PROC's) software are also maintained at GSFC and delivered to VILSPA on computer magnetic tape. These procedures are updated as required by the IUE operations personnel. VILSPA provides inputs to GSFC on any PROC changes they desire. When the PROC files have been modified and fully tested, they are released to both the IUEOCC and VILSPA for operations.
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: Discrepancy Report (DR)
FORM: Standard Form
FORMAT:
SEE APPENDIX: R

FROM: IUEOCC TO: Villafranca Satellite
Attn: IUEPOD Tracking Station
Code 602 Attn: Operations Engineer &
NASA/Goddard Space Data Processing Manager
Flight Center Apartado 54065, Madrid
Greenbelt, MD 20771 SPAIN
U.S.A.

TRANSMITTAL: Mail, as required
METHOD &:
FREQUENCY:
ADDITIONAL: Priority list showing desired order of
MATERIAL: implementation of DR's & RCC's.
TRANSMITTED:

ADDITIONAL:
INFORMATION:

8.1
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: Requirement Change Control (RCC)
FORM: Standard Form
FORMAT:
SEE APPENDIX: S

FROM: IUEOCC  TO: Villafranca Satellite
Attn: IUEPOD  Tracking Station
Code 602  Attn: Operations Engineer &
NASA/Goddard Space  Data Processing Manager
Flight Center  Apartado 54065, Madrid
Greenbelt, MD 20771  SPAIN
U.S.A.

TRANSMITTAL: Mail, as required
METHOD &:
FREQUENCY:
ADDITIONAL: Priority list showing desired order of
MATERIAL: implementation of DR's & RCC's.
TRANSMITTED:
ADDITIONAL:
INFORMATION:

8.2
PRODUCT: Operations Procedures (PROC) Updates

FORM: Magnetic Tape

FORMAT:

SEE APPENDIX:

FROM: IUEOCC
     Attn: IUEPOD
     Code 602
     NASA/Goddard Space Flight Center
     Greenbelt, MD 20771
     U.S.A.

TO: Villafranca Satellite
    Tracking Station
    Attn: Operations Engineer & Data Processing Manager
    Apartado 54065, Madrid
    SPAIN

TRANSMITTAL: Air freight, after generation and adequate testing

FREQUENCY:

ADDITIONAL: Description of changes in the PROC operation and techniques of usage are to accompany the tape.

TRANSMITTED:

ADDITIONAL:

INFORMATION:

8.3
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: Sigma-9 Control Center Software System Revisions
FORM: Magnetic Tape

FROM: IUEOCC
Attn: IUEPOD
Code 602
NASA/Goddard Space Flight Center
Greenbelt, MD 20771
U.S.A.

TO: Villafranca Satellite Tracking Station
Attn: Operations Engineer & Data Processing Manager
Apartado 54065, Madrid
SPAIN

TRANSMITTAL: Mail, after generation and adequate testing
METHOD & FREQUENCY: testing

ADDITIONAL: Description functional changes are to accompany the tape.
MATERIAL: TRANSMITTED:

ADDITIONAL: INFORMATION:
The Flight Operations Manual (FOM) provides a major single-reference source for IUE operations policy, Flight Operations Directives (FOD's), the IUE spacecraft telemetry and command handbook, and other operation information. The FOM was published by GSFC and is updated as required. The FOD's are updated routinely and are distributed to the operating locations as major operating instructions are changed.
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: Flight Operations Directive (FOD)
FORM: Standard Form
FORMAT:
SEE APPENDIX:

FROM: IUEOCC
Attn: IUEPOD
Code 602
NASA/Goddard Space
Flight Center
Greenbelt, MD 20771
U.S.A.

TO: Villafranca Satellite
Tracking Station
Attn: Operations Engineer &
Data Processing Manager
Apartado 54065, Madrid
SPAIN

TRANSMITTAL: Facsimile and/or mail, as required
METHOD &:
FREQUENCY:

ADDITIONAL:
MATERIAL:
TRANSMITTED:
ADDITIONAL:
INFORMATION:

9.1
IUE
THREE AGENCY
INFORMATION INTERCHANGE

PRODUCT: Flight Operations Manual (FOM) Updates
FORM: New Pages
FORMAT:

SEE APPENDIX:

FROM: IUEOCC
Attn: IUEPOD
Code 602
NASA/Goddard Space
Flight Center
Greenbelt, MD 20771
U.S.A.

TO: Established Distribution List

TRANSMITTAL: Mail, as generated
METHOD &:
FREQUENCY:

ADDITIONAL:
MATERIAL:
TRANSMITTED:

ADDITIONAL:
INFORMATION:

9.2
SCIENTIFIC AND TECHNICAL REPORTS
FROM: IUESOC
Attn: Observatory Mgr.
Code 685
NASA/Goddard Space Flight Center
Greenbelt, MD 20771
U.S.A.

Villafranca Satellite Tracking Station
Attn: Observatory Controller
Apartado 54065, Madrid
SPAIN

Rutherford & Appleton Labs.
IUE Support Team
Attn: RS/UK
Ditton Park
Slough SL3 9JX
UNITED KINGDOM

TO: Other Two Agencies

TRANSMITTAL: Mail, as generated
METHOD &:
FREQUENCY:

ADDITIONAL:
MATERIAL:
TRANSMITTED:

ADDITIONAL: For inclusion in data libraries.
INFORMATION:

10.1
APPENDIX A

FORMAT OF SOC GENERATED ARCHIVAL TAPES

DENSITY: ----------------------------------------------- 1600 bpi

RECORD FORMAT: --------------------------------- VB (VARIABLE BLOCKED)

BLOCK SIZE: -------------------------------------- 32,760 bytes

LOGICAL RECORD LENGTH: ------------------------- 32,756 bytes

Within the logical records, the data content is as specified in the
documentation given to the Guest Observer and to the National Space Science
Data Center (NSSDC).
APPENDIX B

FORMAT OF VILSPA GENERATED ARCHIVAL TAPES

(TO BE SUPPLIED)
APPENDIX C

FORMAT OF NSSDC GENERATED ARCHIVAL TAPES

DENSITY: ----------------------------------------------- 6250 bpi

RECORD FORMAT: ----- VBS (VARIABLE, BLOCKED WITH SPANNED LOGICAL RECORDS)

BLOCK SIZE: ----------------------------------------------- 32,000 bytes

LOGICAL RECORD SIZE: ----------------------------------------------- 31,996 bytes
## APPENDIX D

IUESOC ARCHIVAL TAPE INFORMATION TAPE FORMAT

<table>
<thead>
<tr>
<th>FIELD</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMAGE SEQUENCE NO.</td>
<td>6</td>
</tr>
<tr>
<td>PROGRAM ID</td>
<td>5</td>
</tr>
<tr>
<td>OBJECT ID</td>
<td>8</td>
</tr>
<tr>
<td>RIGHT ASCENSION</td>
<td></td>
</tr>
<tr>
<td>HOUR</td>
<td>2</td>
</tr>
<tr>
<td>MINUTE</td>
<td>2</td>
</tr>
<tr>
<td>SECOND</td>
<td>2</td>
</tr>
<tr>
<td>TENTH</td>
<td>1</td>
</tr>
<tr>
<td>DECLINATION</td>
<td></td>
</tr>
<tr>
<td>SIGN</td>
<td>1</td>
</tr>
<tr>
<td>DEGREE</td>
<td>2</td>
</tr>
<tr>
<td>MINUTE</td>
<td>2</td>
</tr>
<tr>
<td>SECOND</td>
<td>2</td>
</tr>
<tr>
<td>PHOTOWRITE TAPE FILE</td>
<td>11</td>
</tr>
<tr>
<td>GO TAPE FILE</td>
<td>11</td>
</tr>
<tr>
<td>RELEASE DATE</td>
<td>5</td>
</tr>
<tr>
<td>PHOTOWRITE TO NSSDC</td>
<td>5</td>
</tr>
<tr>
<td>GO ARCHIVAL TAPE</td>
<td>11</td>
</tr>
<tr>
<td>SORT CODE</td>
<td>1</td>
</tr>
</tbody>
</table>
APPENDIX E

IUESOC ARCHIVAL TAPE INFORMATION LISTING FORMAT
ORDERED BY IMAGE SEQUENCE NUMBER

PART 1

Since this list is provided as a computer printout, information is listed by column position only.

<table>
<thead>
<tr>
<th>Column</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Camera and image sequence number</td>
</tr>
<tr>
<td>2</td>
<td>Object identification</td>
</tr>
<tr>
<td>3</td>
<td>Target position in right ascension (equinox 1950)</td>
</tr>
<tr>
<td>4</td>
<td>Target position in declination (equinox 1950)</td>
</tr>
<tr>
<td>5</td>
<td>Program identification (5-character code)</td>
</tr>
<tr>
<td>6</td>
<td>Image release date in form YR/DAY</td>
</tr>
<tr>
<td>7</td>
<td>Photowrite tape identification and files containing image</td>
</tr>
<tr>
<td>8</td>
<td>Photowrite delivery date to NSSDC in form YR/DAY</td>
</tr>
<tr>
<td>9</td>
<td>Archive tape identification and files containing image</td>
</tr>
<tr>
<td>10</td>
<td>Archive tape delivery date to NSSDC in form YR/DAY</td>
</tr>
<tr>
<td>11</td>
<td>Sort codes for image description in special cases of reprocessing, raw image only supplied, etc.</td>
</tr>
<tr>
<td>IMAGE SEQ NO</td>
<td>OBJECT ID</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------</td>
</tr>
<tr>
<td>SWP 3341</td>
<td>V362CG1</td>
</tr>
<tr>
<td>LWR 3342</td>
<td>70 8247</td>
</tr>
<tr>
<td>SWP 3342</td>
<td>RD267777</td>
</tr>
<tr>
<td>LWR 3343</td>
<td>FEIGE7</td>
</tr>
<tr>
<td>SWP 3343</td>
<td>RD72754</td>
</tr>
<tr>
<td>SWP 3343</td>
<td>RD72754</td>
</tr>
<tr>
<td>LWR 3344</td>
<td>RD21242</td>
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<td>SWP 3344</td>
<td>AU BON</td>
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<tr>
<td>LWR 3348</td>
<td>AU BON</td>
</tr>
<tr>
<td>LWR 3348</td>
<td>CONA VRA</td>
</tr>
<tr>
<td>LWR 3348</td>
<td>92 SGE</td>
</tr>
<tr>
<td>LWR 3349</td>
<td>RD19356</td>
</tr>
<tr>
<td>LWR 3350</td>
<td>RD15356</td>
</tr>
<tr>
<td>LWR 3351</td>
<td>RD45916</td>
</tr>
<tr>
<td>LWR 3351</td>
<td>RD45916</td>
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## APPENDIX F

**IUESC ARCHIVAL TAPE INFORMATION LISTING FORMAT**

**ORDERED BY TAPE & DELIVERY DATE**

The format of this listing is identical to that for image sequence number order (APPENDIX E). Only the order of listing the images is different.

### 11/15/79

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<th>OBJECT</th>
<th>TARGET ID</th>
<th>TARGET SC</th>
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<th>RELEASE</th>
<th>PROGRESSIVE</th>
<th>DEL TO</th>
<th>GO ARCH</th>
<th>DEL TO</th>
<th>TAPE FILE</th>
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**APPENDIX F**

**IUESC ARCHIVAL TAPE INFORMATION LISTING FORMAT**

**ORDERED BY TAPE & DELIVERY DATE**

The format of this listing is identical to that for image sequence number order (APPENDIX E). Only the order of listing the images is different.
APPENDIX G

VILSPA CATALOG OF CONTENTS OF ARCHIVAL TAPES - TAPE FORMAT

The tape contains card images sorted by camera/image numbers.

<table>
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<tr>
<th>Field</th>
<th>Bytes</th>
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</tr>
<tr>
<td>Image Number</td>
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</tr>
<tr>
<td>Release Flag ('*' = released, blank = not released yet)</td>
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</tr>
<tr>
<td>Archive Tape Number</td>
<td>13 - 16</td>
</tr>
<tr>
<td>Tape Inventory Number</td>
<td>19 - 26</td>
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<tr>
<td>First File on the Tape (numbered from 1 onwards)</td>
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<tr>
<td>Last File on the tape</td>
<td>30 - 32</td>
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<tr>
<td>Comments</td>
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</table>
APPENDIX H

VILSPA CATALOG OF CONTENTS OF ARCHIVAL TAPES - LISTING FORMAT

11 IMAGES FROM THE LONG WAVELENGTH SPECTROGRAPH

**********

NOTE: AN ASTERISK IN COLUMN 'R' MEANS THAT THE IMAGE HAS BEEN RELEASED FOR GENERAL DISTRIBUTION

CAM_IMAGE R_ TAPE FILES COMMENT
# # # SERIAL FROM TO
1 1194 381 602491 26 26 RAW ONLY
2 1195 418 602528 1 1 RAW ONLY
3 1196 418 602528 2 2 RAW ONLY
4 1197 418 602528 6 6 RAW ONLY
5 1198 418 602528 3 3 RAW ONLY
6 1200 463 602590 18 18 RAW ONLY
7 1201 463 602590 19 19 RAW ONLY
8 1203 23 601270 6 6
9 1180 49 601422 33 35 WAVELENGTH CALIBRATION (HIGH)
10 1183 23 601398 11 11
11 1218 53 601436 1 2 WAVELENGTH CALIBRATION (LOW)
12 1274 * 601391 1 5
13 1275 * 601391 33 37
14 1276 * 601413 1 5
15 1283 * 601407 12 16
16 1285 * 601407 17 21
17 1286 * 601407 22 26
18 1287 324 602260 21 25 REPROCESSING
19 1290 * 4 601264 11 13
20 1290 * 15 601260 1 3 PREVIOUS PROCESSING HAD BAD RIPPLE CORRECTION
21 1296 * 4 601264 24 28
22 1297 * 601264 24 31
23 1303 15 601260 6 6 PREVIOUS PROCESSING HAD BAD RIPPLE C699EC3&6
24 1304 * 3 601267 17 19
25 1309 * 601267 28 32
26 1310 * 2 601412 1 3
27 1313 * 9 601424 18 20
28 1314 * 601412 4 6
29 1315 * 2 601412 7 9
30 1315 128 601998 25 25 REPROCESSING
31 1316 * 10 601257 1 3
32 1316 126 601987 26 26 REPROCESSING
33 1318 * 10 601257 4 6
34 1319 * 10 601257 25 27
35 1322 * 10 601257 28 30
36 1323 * 16 601262 22 24
37 1327 * 13 601388 29 28
38 1328 * 11 601258 23 25
39 1331 * 1 601391 6 8
40 1331 23 601270 22 24 PREVIOUS PROCESSING HAD BAD RIPPLE CORRECTION
41 1339 * 1 601391 30 32
42 1339 23 601270 25 27 PREVIOUS PROCESSING HAD BAD RIPPLE CORRECTION
43 1345 * 5 601395 14 16
44 1345 * 15 601260 7 10
45 1346 * 5 601395 10 10 NO PHOTOMETRIC CORRECTION
46 1353 * 5 601395 29 22
47 1353 22 601261 6 8 PREVIOUS PROCESSING HAD BAD RIPPLE CORRECTION
48 1361 * 5 601395 23 25
49 1361 22 601261 9 11 PREVIOUS PROCESSING HAD BAD RIPPLE CORRECTION
APPENDIX I

NSSDC IMAGE DATABASE FORMAT
PART 1-A - AS STORED IN COMPUTER & ON TAPE - DESCRIPTION

Since this database is provided as computer printout, it is only necessary to read the information by column number; however, in the event that it may be desirable to transmit the data on tape later, the field descriptions for the data as they are stored in the database are included in the table.

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<td>Descriptor codes for special cases</td>
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* Special remarks about image

C Commissioning period image
S Image had files split on archive tapes (slipped from end of one archive tape to beginning of next)
R Reprocessed image
**APPENDIX I**

**NSSDC IMAGE DATABASE FORMAT**

**PART 2 - ORDERED BY IMAGE RELEASE DATE**

**AS SENT TO SRC**

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**APPENDIX I**

NSSDC IMAGE DATABASE FORMAT

**PART 3** - ORDERED BY CAMERA/IMAGE SEQUENCE

AS SENT TO SRC & ESA
### APPENDIX I

NSSDC IMAGE DATABASE FORMAT

#### PART 4 - ORDERED BY OBJECT ID

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APPENDIX J

GSFC OBSERVATORY LOG AND MERGED LOG TAPE FORMAT

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<td>DEC MAG</td>
<td>CI.S OR JI/L APR</td>
<td>APR TIME</td>
<td>SEQ ID</td>
</tr>
<tr>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
</tbody>
</table>

GSPC OBSERVATORY LOG PRINTOUT FORMAT

MERGED LOG PRINTOUT FORMAT

APPENDIX K

NASA LOG SECOND EPISODE BY DAY OF OBSERVATION

01/10/80
APPENDIX L
VILSPA OBSERVATORY LOG TAPE FORMAT

The tape contains one 80 byte record per log entry. The last record is followed by at least two consecutive end-of-file marks. Each record is sub-divided as follows:

<table>
<thead>
<tr>
<th>BYTES</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-8</td>
<td>Object Name</td>
</tr>
<tr>
<td>9-10</td>
<td>Object Classification</td>
</tr>
<tr>
<td>11-13</td>
<td>Magnitude in Tenths</td>
</tr>
<tr>
<td>14-15</td>
<td>Right Ascension (Hours)</td>
</tr>
<tr>
<td>16-17</td>
<td>Right Ascension (Minutes)</td>
</tr>
<tr>
<td>18-19</td>
<td>Right Ascension (Seconds)</td>
</tr>
<tr>
<td>20-22</td>
<td>Declination (Degrees)</td>
</tr>
<tr>
<td>23-24</td>
<td>Declination (Minutes)</td>
</tr>
<tr>
<td>25</td>
<td>Dispersion (H or L)</td>
</tr>
<tr>
<td>26</td>
<td>Camera Number</td>
</tr>
<tr>
<td>27-31</td>
<td>Image Number</td>
</tr>
<tr>
<td>32</td>
<td>Aperture (S or L) to Which Right Ascension and Declination Apply</td>
</tr>
<tr>
<td>33</td>
<td>Large Aperture Status (O - Open, C - Closed)</td>
</tr>
<tr>
<td>34-35</td>
<td>Day of Month</td>
</tr>
<tr>
<td>36-40</td>
<td>Year</td>
</tr>
<tr>
<td>41-42</td>
<td>Exposure Start Time (Hours) Since GMT Midnight</td>
</tr>
<tr>
<td>43-44</td>
<td>Exposure Start Time (Mins.) Since GMT Midnight</td>
</tr>
<tr>
<td>45-46</td>
<td>Exposure Start Time (Secs.) Since GMT Midnight</td>
</tr>
<tr>
<td>47-49</td>
<td>Exposure Length (Mins.)</td>
</tr>
<tr>
<td>50-51</td>
<td>Exposure Length (Secs.)</td>
</tr>
<tr>
<td>52-56</td>
<td>Identifier for Observation Program</td>
</tr>
<tr>
<td>57-80</td>
<td>Comments (Especially abnormal prepare, camera operations or image quality)</td>
</tr>
<tr>
<td>OBJECT</td>
<td>CL</td>
</tr>
<tr>
<td>-----------</td>
<td>-----</td>
</tr>
<tr>
<td>+10 2179</td>
<td>25</td>
</tr>
<tr>
<td>+10 2179</td>
<td>25</td>
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</tr>
<tr>
<td>3c 390.3</td>
<td>86</td>
</tr>
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<tr>
<td>HD 37776</td>
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<td>HD 65339</td>
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<td>HD 65339</td>
<td>36</td>
</tr>
<tr>
<td>NGC 2392</td>
<td>70</td>
</tr>
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<td>0837-120</td>
<td>85</td>
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## IUESIPS

**SCIENTIFIC OPERATIONS CENTER ANOMALY REPORT (SOCAR)**  
**AND SOFTWARE MODIFICATION NOTICE FOR IMAGE PROCESSING**  
**XEROX SIGMA 9**

### Anomaly Number

<table>
<thead>
<tr>
<th>Anomaly Number</th>
<th>Originator</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image Number (if applicable)</td>
<td>Tape Number (if applicable)</td>
<td>GMT YEAR DAY HR. MIN.</td>
</tr>
</tbody>
</table>

### Description of Anomaly or Modification

#### Corrective Action (if applicable)

<table>
<thead>
<tr>
<th>Assignee</th>
<th>Authorized by (RA)</th>
<th>Authorized by (DAD)</th>
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<tbody>
<tr>
<td>Date:</td>
<td>Date:</td>
<td>Date:</td>
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</table>

### Resolution or Disposition

<table>
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<tr>
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<th>Approved by (RA)</th>
<th>Approved by (DAD)</th>
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<tr>
<td>Date:</td>
<td>Date:</td>
<td>Date:</td>
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### Installed in Production System

<table>
<thead>
<tr>
<th>Date:</th>
<th>Time:</th>
<th>By:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date:</td>
<td>Originator:</td>
<td>Report No.:</td>
</tr>
<tr>
<td>-------</td>
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**Scheme Name:**

**Description of Modification:**

**Justification for Modification:**

**Impact Statement:**

---

**APPROVAL**

<table>
<thead>
<tr>
<th>Project Scientist Date</th>
<th>Data Analysis Director Date</th>
<th>IUE Task Leader Date</th>
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Implemented by: [Name]

Date: [Date]

Time: [Time]

---
# APPENDIX P

## VILSPA IMAGE PROCESSING SOFTWARE MODIFICATION REPORT

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<th>ORIGINATOR</th>
<th>REPORT NO:</th>
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<th>PROGRAM NAME:</th>
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<table>
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<table>
<thead>
<tr>
<th>REASON FOR MODIFICATION:</th>
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## APPROVAL

<table>
<thead>
<tr>
<th>OBSERVATORY CONTROLLER</th>
<th>OBSERVATORY ASSISTANT</th>
<th>IMAGE PROCESSING ANALYST</th>
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<tr>
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</table>

<table>
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<th>IMPLEMENTED BY:</th>
<th>DATE:</th>
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<td>ORIGINATOR:</td>
<td>REPORT NO:</td>
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<table>
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<th>APPROVAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>OBSERVATORY CONTROLLER</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>OBSERVATORY ASSISTANT</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>IMAGE PROCESSING ANALYST</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IMPLEMENTED BY:</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATE:</td>
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APPENDIX R
DISCREPANCY REPORT FORMAT

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<th>DISCREPANCY REPORT</th>
<th>DATE</th>
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<tbody>
<tr>
<td>PCCC</td>
<td>DISCREPANCY REPORT NO.</td>
</tr>
<tr>
<td>TEST TITLE</td>
<td>SITE</td>
</tr>
<tr>
<td>Problem Area:</td>
<td>Software ( )</td>
</tr>
<tr>
<td>System Tape ID</td>
<td>Program Name</td>
</tr>
<tr>
<td>Type of hardware</td>
<td></td>
</tr>
<tr>
<td>Description of Discrepancy</td>
<td></td>
</tr>
<tr>
<td>Supporting data attached:</td>
<td>Yes</td>
</tr>
<tr>
<td>If yes, Line Printer</td>
<td>Other</td>
</tr>
<tr>
<td>Originator</td>
<td></td>
</tr>
<tr>
<td>OCM and/or OCM review</td>
<td>Deficiency</td>
</tr>
<tr>
<td>Action assigned to:</td>
<td>Date Assigned:</td>
</tr>
<tr>
<td>Supervisor</td>
<td>CCM</td>
</tr>
<tr>
<td>Resolution:</td>
<td></td>
</tr>
<tr>
<td>Additional action required:</td>
<td>Yes</td>
</tr>
<tr>
<td>Remarks</td>
<td></td>
</tr>
<tr>
<td>Discrepancy resolved:</td>
<td>Yes:</td>
</tr>
<tr>
<td>Discrepancy signed off by (CCM and/or CCS4)</td>
<td>Date</td>
</tr>
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</table>

WS=183 (7/77)
APPENDIX S

REQUIREMENT CHANGE CONTROL FORMAT

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>CONTROL NO.</td>
</tr>
</tbody>
</table>

1. DESCRIPTION (PREPARED BY GSFC):
   - REQUIREMENT NO: ___________________
   - STATUS (CHECK): CHANGE _____ NEW _____ DELETE _____
   - SYSTEM ASSIGNMENT: ___________________
   - PROJECT INITIALS: ___________________
   - DESCRIPTION (CHECK IF ADDITIONAL PAGES ATTACHED): [ ]

   __________________________________________________________
   __________________________________________________________
   __________________________________________________________
   __________________________________________________________
   __________________________________________________________
   __________________________________________________________
   __________________________________________________________

   ANALYSIS REQUIRED BY (DATE): ___________________

2. ANALYSIS (PREPARE BY CSC):
   - DEVELOPMENT AREA NO: ___________________
   - STATUS (CHECK): CHANGE _____ NEW _____ DELETE _____ NO CHANGE _____
   - DESCRIPTION (CHECK IF ADDITIONAL PAGES ATTACHED): [ ]

   __________________________________________________________
   __________________________________________________________
   __________________________________________________________
   __________________________________________________________
   __________________________________________________________
   __________________________________________________________
   __________________________________________________________

   IMPACT: MANPOWER _______ HRS
   COMPUTER TIME _______ MINS
   TOTAL ELAPSE TIME _______ DAYS

3. APPROVAL (PREPARED BY GSFC):
   - STATUS (CHECK): APPROVE _____ DISAPPROVE _____ DEFER _____

   DATE: ___________________
APPENDIX T

LIST OF ACRONYMS, ABBREVIATIONS & DEFINITIONS

bpi  Bytes per inch
Catalog  Table of contents for archival tapes. File numbers vs. image number.
DMC  Data Management Center part of IUESOC
DR  Discrepancy Report
ESA  European Space Agency
GSFC  Goddard Space Flight Center part of NASA
ID  Identification, may be a number, letter or combination.
IPCC  Image Processing Control Center part of IUESOC
IRF  Instrumental Response Function
ITF  Intensity Transfer Function
IUE  International Ultraviolet Explorer (Satellite or program)
IUEOCC  IUE Operations Control Center
IUESOC  IUE Science Operations Center
LOG  List of observational data including object, G.O., position, comments, exposure time etc.
Microfiche  A photographic process for reproducing documents at reduced size.
NASA  The National Aeronautics & Space Administration of the U.S.
NSSDC  National Space Science Data Center at GSFC
OCC  Operations Control Center
Photowrite  A data processing system which generates photographic images, either negative or positive, from a data tape.
R.A.  Resident Astronomer
R.A.  Right Ascension
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>RCC</td>
<td>Requirements Change Control</td>
</tr>
<tr>
<td>SOC</td>
<td>Science Operations Center</td>
</tr>
<tr>
<td>SIPS</td>
<td>Spectral Image Processing System</td>
</tr>
<tr>
<td>SRC</td>
<td>Science Research Council of the United Kingdom</td>
</tr>
<tr>
<td>TOCC</td>
<td>Telescope Operations Control Center part of IUESOC</td>
</tr>
<tr>
<td>VBS</td>
<td>Variable, blocked with spanned logical records (Tape format)</td>
</tr>
<tr>
<td>VILSPA</td>
<td>Communications designator for the ESA tracking station at Villafranca del Castillo, near Madrid, in Spain. Also, more specifically, the satellite control center at that site.</td>
</tr>
</tbody>
</table>