

MWI 1280.1

REVISION D

EFFECTIVE DATE: October 5, 2004

EXPIRATION DATE: October 5, 2009

MARSHALL WORK INSTRUCTION

ED01

FABRICATION REQUEST INSTRUCTIONS (MSFC FORM 3751)

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DOCUMENT HISTORY LOG

Status (Baseline/ Revision/ Canceled)	Document Revision	Effective Date	Description
Baseline		5/14/99	Document converted from MSFC-P09.1-C08 to a Directive. Previous history retained in system as part of canceled or superseded ISO Document files.
Revision	A	8/16/99	Changes made to reflect new organizational codes. MSFC-P14.2-C01 in document history log description for baseline MWI 1280.1 was changed to MSFC-P09.1-C08. Paragraph 6.5.1: changed MPG 8730.7 to MPG 8730.1.
Revision	B	3/16/01	Added definitions 5.6 and 5.9, clarified 5.10, and added sections 6.5.3 and 6.6.3. Revised MSFC Form 3751 and added use of revised MSFC Form 4069 to use in listing internal customer supplied parts for manufacturing.
Revision	C	12/16/02	Removed the word services from Fabrication Services Request to Fabrication Request throughout document and title. Changed last sentence under Applicability to include outsourcing and removed technician support; added MWI 5100.3 and deleted ED37-09-003 under Applicable Documents. Added Core Capability, Outsource, and Outsourcing Process Teams definitions and changed Deliverable End Item, Kit/Kitting, Parts Tag, Quality Sensitive, Requester, and Storeroom definitions; clarified section 6.2, 6.3, 6.4, 6.6.3, 6.6.15, 6.6.16, 6.9, 6.12; added section 6.5 Determine "Make" or "Buy" and note to 6.12; completely redid section 11 flow diagram; revised MSFC Form 3751 and its preparation instructions; revised MSFC Form 4069 and added its preparation instructions; revised ED37 Form 001 and changed the name to "Customer Satisfaction Survey for In-house Manufacturing Contractor; changed first bullet to Appendix C to Outsourcing through local offsite contractors.
Revision	D	10/5/2004	Updated font, added HSPPD to section 3.4; changed MPG to MPR throughout document; added NPR 1441.1 to applicable documents; changed Outsourcing to Outsource in section 3.5 and 5.10; revised text throughout the document to use "shall" to state requirements; added Actionee throughout section 6 for each section; changed "cost" to "funding" in section 6.1; moved examples in sections 6.6.4 through 6.6.6 to Appendix Z; rewrote sections 6.6.12 through 6.6.16 for clarity; removed requirements from NOTES section; and rewrote RECORDS section giving disposition/retention schedule per NRRS.

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1. PURPOSE

This Marshall Work Instruction (MWI) provides instructions for preparing the Fabrication Request, MSFC Form 3751.

2. APPLICABILITY

This MWI is applicable to all Marshall Space Flight Center (MSFC) organizations that initiate, approve, or process requests for fabrication services by the Engineering Directorate, Materials Processes, and Manufacturing Department, Manufacturing Services Group. This includes flight, test, ground support equipment, research, development, and facility hardware as well as outsourcing to offsite contractors.

3. APPLICABLE DOCUMENTS

3.1 MPR 8040.2, "Product Identification and Traceability"

3.2 MPR 8730.1, "Inspection and Testing"

3.3 MPR 8730.3, "Control of Nonconforming Product"

3.4 MPR 6410.1, "Handling, Storage, Packaging, Preservation, and Delivery (HSPPD)"

3.5 MWI 5100.3, "Outsource Processing for Fabrication/Integration Services"

3.6 NPR 1441.1, "NASA Records Retention Schedules"

4. REFERENCES

None

5. DEFINITIONS

5.1 Core Capability. MSFC manufacturing core capability is accomplished through the in-house manufacturing contractor. It is defined as R&D hardware products and manufacturing processes for MSFC in-house designs that require close and continual collaboration with design personnel, development of manufacturing processes, or are schedule critical.

5.2 Customer. Recipient of a product provided by the supplier. The requester or contact person on MSFC Form 3751 who is requesting work or services from the Manufacturing Services Group.

5.3 Deliverable End Item (DEI). Manufactured or procured end products deliverable to the customer through the Manufacturing Services Group.

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5.4 Internal Customer-Supplied Product (ICSP). Products (parts, raw material, standard hardware, or any other items) supplied by a customer for the purpose of fabrication, assembly, special processing, testing, temporary storage, analysis, and/or refurbishment by the Manufacturing Services Group.

5.5 IR Tag. “Inspection Report Tag.” Same as Parts Tag. See section 5.11 of definitions below.

5.6 Kit/Kitting. Kitting is gathering individual components and/or materials and providing them in a packaged “kit” with a detailed parts list. A kit consists of two or more items required to make up one unit of one assembly identified by one part number.

5.7 Non-Quality Sensitive (NQS). A term used to identify equipment, hardware, software, or material not directly related to flight systems (e.g., mock-ups, development hardware and software, industrial machinery, laboratory equipment). Hardware or software procured for development activities is non-quality sensitive unless the data resulting from development activities will be used in the “justification for qualification” of flight hardware, software, or flight-associated hardware. These items are inspected and test verified by the Process Operator (PO) or Testing Organization (TO), not by the NASA MSFC Safety and Mission Assurance Directorate.

5.8 Organization. Generic term used to describe a Marshall Program/Project Office, Directorate, Department, or Group.

5.9 Outsource. Outsourcing is defined as manufacturing work performed outside Redstone Arsenal and separate from the in-house manufacturing contract. The procurement is initiated by the Outsourcing Process Team.

5.10 Outsourcing Process Team (OPT). The OPT consists of co-located procurement, manufacturing, and quality assurance personnel responsible for developing the procurement package, the solicitation, evaluation, award, and administration of the purchase order. Reference MWI 5100.3.

5.11 Parts Tag. MSFC Form 312 is an inspection report tag commonly referred to as the IR Tag by manufacturing. The parts tag is a quality control document that remains with the part and records parts identification and inspection verification during manufacture, test, assembly, and storage.

5.12 QA Inspection Not Applicable (NA). Work that does not require any formal in-house manufacturing contractor Quality Assurance (QA) Department inspections or their involvement. Quality is assured by the technician being responsible for his/her work and producing a quality product or process. In some instances the supervisor may inspect the work being performed.

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5.13 Quality Sensitive (QS). A term used to identify inspection and test verification by the Safety and Mission Assurance Directorate for flight hardware, flight software, and flight-associated ground support equipment; deliverable products that are to be assembled into a launch vehicle and associated equipment for testing, handling, launching, servicing, and maintaining a vehicle in space; qualification and requalification hardware; hardware or software procured for development activities when the data resulting from development activities will be used in the “justification for qualification” of flight hardware, software, or flight-associated hardware. Hardware to be used in a hazardous operation might also be designated as quality sensitive by the responsible organization.

5.14 Requester. The person initiating MSFC Form 3751 requesting fabrication services.

5.15 Storage Area. Any area designated for storing material, equipment, and/or products. This includes any holding areas for receiving, staging, and/or inspection. Controlled storage is utilized to prevent damage, loss, or deterioration of materials and products.

5.16 Storeroom. Refers to the Manufacturing Services Group Storeroom and storage areas maintained by the in-house support contractor. This storeroom, located in building 4705, is primarily used for in-process storage of hardware, parts, materials, and supplies used in fabrication and assembly of development, qualification, flight, and test hardware for programs and projects at MSFC.

6. INSTRUCTIONS

<u>Actionee</u>	<u>Action</u>
Organization	<p>6.1 Shall establish, maintain, and provide a list to the Manufacturing Services Group of NASA/MSFC personnel (managers, team leads, project leaders, contracting officer technical representatives, etc.) who are authorized to approve requests for fabrication services within the organization.</p> <p>NOTE: Signature of the authorized NASA/MSFC individual indicates the work or service requested is official NASA business and not part of another support contractor’s task or level of effort. The signature also indicates that the funding code is valid and funding is available.</p>
Requester	6.2 Shall determine the need and coordinate fabrication requirements as they relate to materials, cost, and delivery. Refer to Appendix C for a list of types of work or services.
Requester	6.3 Shall provide labor and funding cost codes as required to the

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Manufacturing Services Group for outsourcing procurements and/or in-house manufacturing.

- | | | |
|------------------------------|-------|--|
| Requester | 6.4 | Shall complete MSFC Form 3751, Appendix A, per Preparation Instructions, Appendix B and forward the completed form to the Manufacturing Services Group in building 4705. See section 7.3. |
| | 6.5 | Determine “Make” or “Buy”. |
| Manufacturing Services Group | 6.5.1 | “Make” decision shall fall into the definition of MSFC manufacturing core capability. |
| Manufacturing Services Group | 6.5.2 | If “Make,” the MSFC Form 3751 shall be routed to a Manufacturing Engineer/Planner for processing. |
| Manufacturing Services Group | 6.5.3 | If “Buy,” the MSFC Form 3751 shall be routed to the Outsource Process Team to initiate procurement (MWI 5100.3). |
| | 6.6 | Internal Customer-Supplied Products (ICSP) provided with request. |
| Requester | 6.6.1 | All ICSP shall be labeled or tagged for identification and a list provided on MSFC Form 4069. A label, tag, or other means of identification shall either be attached to the item or the container. The parts label shall match the information provided on the parts list including a find number where applicable.

NOTE: Unless requirement for IR Tag is waived by Program/Project Management, ICSP that is used for in-scope flight, GSE, and qualification hardware shall have been inspected upon receipt by MSFC Quality in accordance with MPR 8730.1, and shall be identified with quality status maintained on a parts tag. |
| Requester | 6.6.2 | Shall prepare a list of ICSP. The list may be put on the Fabrication Request form for cleaning/surface treatment type requests ONLY. |
| Requester | 6.6.3 | All other ICSP shall be listed on MSFC Form 4069, Appendix F, or on a separate computer-generated list that contains information similar to MSFC Form 4069 and |

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follows the same type format.
See Section 7.3.

Requester	6.6.4	For parts with a part number, the list shall consist of at least the Item or Find Number, Quantity, and the Part Number (PN) and nomenclature (listed under Description.) See Appendix Z.
Requester	6.6.5	For parts and/or materials that are not readily identified by a unique part number, briefly describe what is being supplied and give item quantities. See Notes, Section 7 and Appendix Z.
Requester	6.6.6	A kit may be provided as ICSP for an assembly and a list shall be provided using the following format. The list shall be in the engineering parts list find number order to facilitate receiving inspection. See Appendix Z.
Requester	6.6.7	Shall, on the fabrication request, identify any special handling or environmental requirements (MPR 6410.1) and indicate any product identification or traceability requirement that has to be maintained (MPR 8040.2).
Requester	6.6.8	Shall provide or arrange transportation of items and/or materials to the 4705 storeroom or identified storage areas.
Requester	6.6.9	Deliveries to the 4705 storeroom areas shall be made during normal hours of operation (6:00 A.M. - 4:30 P.M. Monday through Thursday). Special arrangements may be made by contacting ED37 for other hours.
Requester	6.6.10	Shall deliver MSFC Form 3751 with small ICSP and ICSP Kits to building 4705, room A114 for processing.
Requester	6.6.11	Large, unwieldy items shall be taken to the Manufacturing Services Storeroom, B117 or high bay, and dropped off, but shall be followed up with the proper paperwork attached to the ICSP.
In-house Manufacturing Contractor	6.6.12	Shall check and aid the customer in completing the above steps properly and process the fabrication request to the Manufacturing Services Group Team Lead.
In-house	6.6.13	Since requests for “cleaning only” requirements have the

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Manufacturing Contractor		items listed on the fabrication request, the contractor shall make a copy of the fabrication request to put with the parts.
In-house Manufacturing Contractor	6.6.14	A copy of the ICSP list shall be placed with large unwieldy items that are dropped off at the Manufacturing Services Group Storeroom or building 4705 high bay areas.
In-house Manufacturing Contractor	6.6.15	Shall process small items delivered to A114 and deliver items to the Manufacturing Services Group Storeroom.
In-house Manufacturing Contractor	6.6.16	Shall inspect the ICSP and notify ED37 of any discrepancies. NOTE: Quality-sensitive items shall not be placed in storage until after inspection, acceptance, and buy-off (quality stamp) on the MSFC Form 4069.
Manufacturing Services Group	6.6.17	Shall contact customer about errors and work out discrepancies until quality-receiving inspection has been satisfied. NOTE: Notify MSFC Quality to document, per MPR 8730.3, nonconformances of flight, GSE, and qualification hardware.
In-house Manufacturing Contractor	6.6.18	Shall temporarily store ICSP, with IR Tag if applicable, per storeroom work instructions.
	6.7	Getting items from the Storeroom.
Requester	6.7.1	Getting items from the 4705 storeroom shall be coordinated with the Manufacturing Services Group in order to correctly identify part numbers and determine part availability. This is usually the manufacturing planner or engineer for the project.
Requester	6.7.2	Shall initiate MSFC Form 3751 to request parts be issued from the Manufacturing Services Group Storeroom. Identify parts by part number, description/nomenclature, and quantity to be issued.
Manufacturing Services Group	6.7.3	Shall initiate a customer order and work order in the VISUAL Manufacturing computer system to issue parts.

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Manufacturing Services Group	6.8	The Manufacturing Services Group Leader shall resolve any conflict between Manufacturing and the Requester concerning “make or buy” and/or scheduling issues.
Manufacturing Services Group	6.9	Shall process and perform service or fabricate hardware as scheduled through the in-house manufacturing contractor or outsource contractor.
In-house Manufacturing Contractor	6.10	Shall notify requester for pickup of completed items.
Requester	6.11	Shall arrange for pickup of completed items in a timely manner and sign receipt of DEI on DD Form 250 block 22.
Requester	6.12	Shall fill out the ED37 Form 001, “Customer Satisfaction Survey for In-house Manufacturing Contractor” and leave in the storeroom for ED37.

NOTE: This survey is used for contractor performance metrics and shall be filled out prior to the release of end product to the customer.

7. NOTES

7.1 Components for printed wiring boards and/or other electrical or mechanical sub-assemblies is usually done by the customer as a kit of parts and delivered to the Manufacturing Services Group with the request on MSFC Form 3751 and a list of parts on MSFC Form 4069. Each kit is for a single work order and each kit is processed with a separate MSFC Form 4069.

7.2 When kitting is requested through the Flight Hardware Support Operations (FHSO) contractor for items in their inventory, the FHSO form may be substituted for MSFC Form 4069.

7.3 Both the MSFC Form 3751 and MSFC Form 4069 are located on-line in the Marshall Integrated Document Library under Forms. Similar computer-generated formats may be used when approved by the Manufacturing Services Group or Team Leader prior to their use.

8. SAFETY PRECAUTIONS AND WARNING NOTES

None

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9. RECORDS

The Manufacturing Services Group shall maintain the following records. The DD Form 250 is filed per NRRS 5/1A.1(a) and upon completion of the in-house manufacturing contract (1 year plus 4 year options), the DD Form 250 is boxed up and sent to the contracting officer to be incorporated into the official contract file. The other forms are maintained per NRRS 5/32 for 3 years, but are maintained as historical documents to correspond to the 5-year in-house manufacturing contract cycle. Three years after the contract ends, these documents are destroyed.

9.1 DD Form 250, "Material Inspection and Receiving Report"

9.2 ED37 Form 001, "Customer Satisfaction Survey for In-house Manufacturing Contractor"

9.3 MSFC Form 3751, "Fabrication Request"

10. PERSONNEL TRAINING AND CERTIFICATION

None

11. FLOW DIAGRAM

See Flow Diagram on following page.

12. CANCELLATION

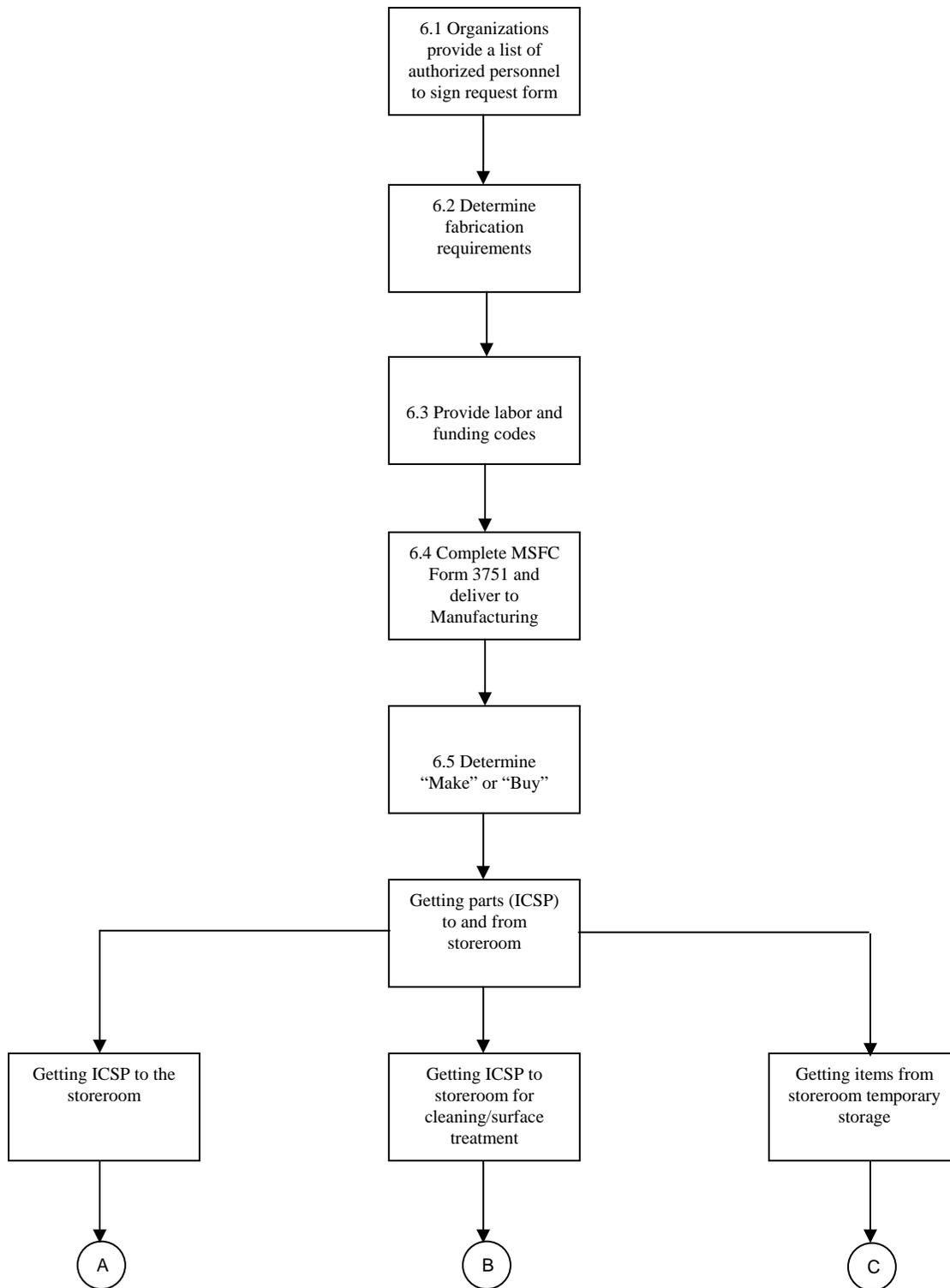
MWI 1280.1C dated December 16, 2002

Original signed by
Robin N. Henderson for

David A. King
Director

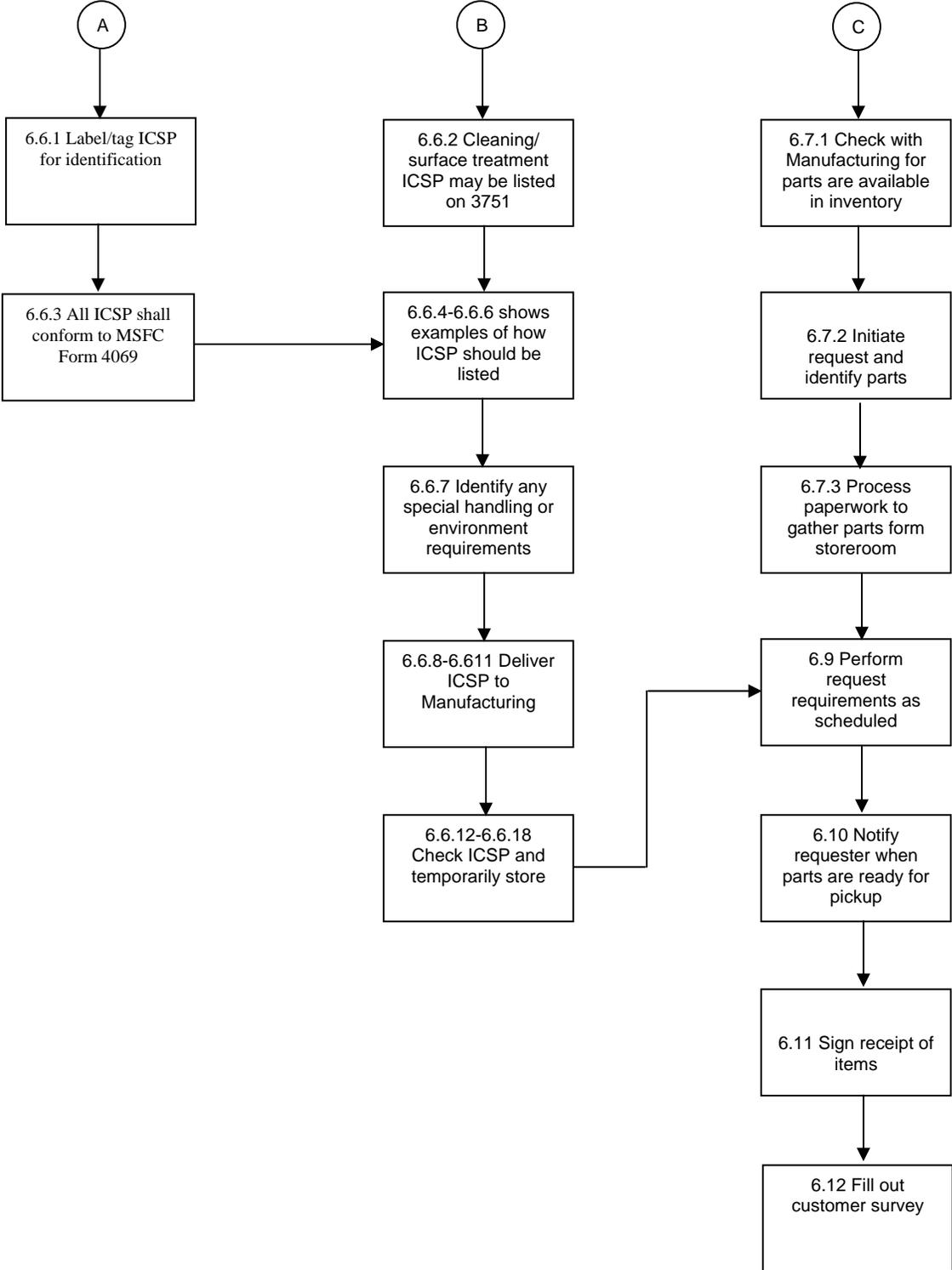
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FLOW DIAGRAM: FABRICATION REQUEST



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APPENDIX B

MSFC FORM 3751 PREPARATION INSTRUCTIONS

BLOCK TITLE	BLOCK INSTRUCTIONS
1. ED37 DATE RECEIVED: 2. ED37 CONCURNACE: 3. ED37 CUSTOMER ORDER NUMBER:	These fields are filled in when received by Manufacturing.
4. DATE:	The initiation date of the request.
5. NEED DATE:	Enter the realistic need date. If this need date cannot be supported, it is negotiated.
6. PROJECT:	Enter program/project nomenclature and acronym for this work.
7. WBS ELEMENT:	Enter the current and appropriate WBS Element for the project.
8. FUNDING CONTRACT/PHONE	Name and phone number of person to contact for approving funds.
9. FUND:	Enter the current and appropriate Fund for the project.
10. FUND CENTER:	Enter the current and appropriate Fund Center for the project.
11. TYPE OF WORK:	Check the appropriate box for the type of work being requested.
12. QUALITY ASSURANCE COVERAGE:	Mark the appropriate box to show the type of inspection required or check NOT APPLICABLE. See Section 5 for definitions of these terms. Normally, only QUALITY SENSITIVE items require an inspection report (IR) tag or parts tag.
13. MAKE or BUY:	ED37 shall fill this out when they do their "Make or Buy" plan to determine doing the work in-house or sending it out.
14. IN-HOUSE PERFORMANCE METRICS:	Enter the percentage of quality (customer satisfaction), schedule, and cost performance metrics that shall be used to calculate incentive fee earned on this job. Use whole numbers and the total shall equal 100%.
15. DISPOSITION OF END ITEM:	Check the correct box to indicate if the completed item is to be stored for later assembly or to be picked up. No deliverable end item (DEI) is checked when a service is performed or when the DEI is to be installed at another location.
16. REQUESTER/CONTACT NAME:	Type the name or the person to contact for additional information and/or to pick up the deliverable end items.
17. PHONE: 18. ORGANIZATION:	Type the phone number and organization of the contact name.
19. REQUESTER CONTROL NUMBER.:	Enter any identification number utilized by the submitting organization for tracking this job.
20. ITEM:	Enter item number or separate task number sequentially.
21. QTY:	Enter the quantity required for each deliverable end item.
22. DESCRIPTION OF WORK:	A clearly defined task shall always be identified. Identify by part number and nomenclature the items to be fabricated or modified.
23. PRINT NAME AND ORGANIZATION CODE: 24. SIGNATURE AND DATE:	Print the name and organization code of the approver in block 23, then have the approver sign and date in block 24.

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APPENDIX C

LIST OF FABRICATION SERVICES AND SUPPORT

(Services provided are not limited to the following)

- Outsourcing through local offsite contractors.
- Hardware fabrication and assembly, including production of full-scale models and mockups, process development tooling, test support equipment and fixtures, test specimens and experimental flight hardware, facilities, and other hardware items in support of Center mission.
 - Machining (including CAD/CAM)
 - Assembly
 - Ultra Precision Measuring
 - Flex Hose Fabrication
 - Fabrication (Sheet Metal)
 - Optical Alignment
 - Surface Treatment and Cleaning
 - Electrical/Electronic Fabrication
 - Welding/Brazing
 - Heat Treatment
 - Multi-Layer Insulation (MLI) Blankets
 - Dry Film Lubrication

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**APPENDIX D
DD FORM 250**

MATERIAL INSPECTION AND RECEIVING REPORT						Form Approved OMB No. 0704-0248			
<p>The public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0248), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.</p> <p align="center">PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES. SEND THIS FORM IN ACCORDANCE WITH THE INSTRUCTIONS CONTAINED IN THE DFARS, APPENDIX F-401.</p>									
1. PROCUREMENT INSTRUMENT IDENTIFICATION (CONTRACT) NO.		ORDER NO.		6. INVOICE NO./DATE		7. PAGE OF	8. ACCEPTANCE POINT		
2. SHIPMENT NO.	3. DATE SHIPPED	4. B/L TCN		5. DISCOUNT TERMS					
9. PRIME CONTRACTOR CODE		10. ADMINISTERED BY CODE							
11. SHIPPED FROM (If other than 9) CODE		FOB:		12. PAYMENT WILL BE MADE BY CODE					
13. SHIPPED TO CODE		14. MARKED FOR CODE							
15. ITEM NO.	16. STOCK/PART NO. (Indicate number of shipping containers - type of container - container number.)	DESCRIPTION		17. QUANTITY SHIP/REC'D*	18. UNIT	19. UNIT PRICE	20. AMOUNT		
							0 0.00 0.00 0.00 0.00 0.00 0.00		
21. CONTRACT QUALITY ASSURANCE a. ORIGIN <input type="checkbox"/> CQA <input type="checkbox"/> ACCEPTANCE of listed items has been made by me or under my supervision and they conform to contract, except as noted herein or on supporting documents. DATE _____ SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE _____ TYPED NAME: _____ TITLE: _____ MAILING ADDRESS: _____ COMMERCIAL TELEPHONE NUMBER: _____				b. DESTINATION <input type="checkbox"/> CQA <input type="checkbox"/> ACCEPTANCE of listed items has been made by me or under my supervision and they conform to contract, except as noted herein or on supporting documents. DATE _____ SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE _____ TYPED NAME: _____ TITLE: _____ MAILING ADDRESS: _____ COMMERCIAL TELEPHONE NUMBER: _____				22. RECEIVER'S USE Quantities shown in column 17 were received in apparent good condition except as noted. DATE RECEIVED _____ SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE _____ TYPED NAME: _____ TITLE: _____ MAILING ADDRESS: _____ COMMERCIAL TELEPHONE NUMBER: _____ * If quantity received by the Government is the same as quantity shipped, indicate by (X) mark; if different, enter actual quantity received below quantity shipped and encircle.	
23. CONTRACTOR USE ONLY									

DD FORM 250, AUG 2000

PREVIOUS EDITION IS OBSOLETE.

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APPENDIX G

MSFC FORM 4069 PREPARATION INSTRUCTIONS

BLOCK TITLE	BLOCK INSTRUCTIONS
1. DATE:	The initiation date of the request.
2. NAME/PHONE NUMBER:	Enter the full name and phone number of the person to contact for additional information.
3. ORGANIZATION:	Enter the organization of the contact name.
4. CUSTOMER ORDER NUMBER:	Manufacturing shall enter the customer order number generated by their application software.
5. PROJECT:	Enter the project acronym.
6. DRAWING NUMBER:	Enter the drawing number the parts are used on followed by the engineering parts list (EPL) number if known.
7. WORK ORDER NUMBER:	Manufacturing shall enter the work order number generated by their application software.
8. FIND/ITEM NO.:	Enter the Find Number, if known, of the EPL in sequential order. Otherwise use a sequential item number.
9. QTY:	Enter the quantity of the item being provided.
10. PART NUMBER AND DESCRIPTION:	Enter the part number of the part followed by the description with a comma between.
11. PARTS TAG NO.:	Enter the Inspection Report (IR) Tag number for Quality Sensitive items.
12. FOR INTERNAL USE ONLY:	Manufacturing shall enter everything below this block.

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Appendix Z

Guidelines (Continued)

6.6.5 Example: ISCP Without Part Number

INTERNAL CUSTOMER SUPPLIED PARTS (ICSP) LIST			
Deliver parts and this list to building 4705 room A114			
DATE: 08/03/2004	NAME/PHONE NUMBER: Customer Smith/544-1234	ORGANIZATION: ED01	CUSTOMER ORDER NUMBER: C-04587
PROJECT: RTF	DRAWING NUMBER: SKT-ED33-23456-001-KIT		WORK ORDER NUMBER: W-10745
FIND/ ITEM NO.	QTY	PART NUMBER AND DESCRIPTION	PARTS TAG NO.
1	5	4" Valve	
2	3	2" x 36" x 60" 6061-T651 AL Plate	
3	10	3/8" x 12" SST Tubing	
4	5	3" SCH 40 304L 90 Degree Elbow	

**Written in by
Manufacturing**

6.6.6 Example: ICSP Kit

INTERNAL CUSTOMER SUPPLIED PARTS (ICSP) LIST			
Deliver parts and this list to building 4705 room A114			
DATE: 07/23/2004	NAME/PHONE NUMBER: Customer Smith/544-1234	ORGANIZATION: ED01	CUSTOMER ORDER NUMBER:
PROJECT: KLA	DRAWING NUMBER: 97M23450-1B-104-KIT		WORK ORDER NUMBER:
FIND/ ITEM NO.	QTY	PART NUMBER AND DESCRIPTION	PARTS TAG NO.
1	4	MS3476L16-23P, Connector	SSS456
2	2	MS21209-C0815, Helical Coil	AAA234

**Filled in by
Manufacturing**

**CHECK THE MASTER LIST at <https://repository.msfc.nasa.gov/directives/directives.htm>
VERIFY THAT THIS IS THE CORRECT VERSION BEFORE USE**