

DOCUMENT TEMPLATE QS-TP-10.7.4

FIRST PIECE INSPECTION (FPI) REPORT

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DELETE THIS PAGE PRIOR TO USE OF THE TEMPLATE.

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GENERAL DYNAMICS
Ordnance and Tactical Systems

Msg.: W31P4Q-20-D-0023 HY70_FY20-24_GD-A014-###

Month DD, YEAR

Tactical Aviation and Ground Munitions Project Office
ATTN: SFAE-MSL-TA
Redstone Arsenal, AL 35898

Subject: FIRST PIECE INSPECTION REPORT
PROGRAM: Hydra-70 Rocket System
CONTRACT NUMBER: W31P4Q-20-D-0023

Ref: (a) Contract Reference: SOW C-5.2.2

Enclosure: (1) CDRL No. A014-###

In accordance with Reference (a), Enclosure (1) is herein provided as evidence of the delivery of the CDRL A014 covered by this letter and is complete as posted and requesting approval.

This report is available on the SharePoint web page at:
[Hyperlink](#)

Please contact me if you have any questions.

Sincerely,

Jay Dichard

Jay Dichard
Deputy Program Manager
Hydra Program

cc: robin.m.saccuzzo.ctr@army.mil
terry.lingenfelter.civ@army.mil
chelsea.l.watry.civ@army.mil

326 IBM Road, Bldg 862
Williston, VT 05495

Date DD MMMYYYY

**HYDRA-70 2.75-INCH ROCKET SYSTEM (HYDRA-70)
FY20-24 PRODUCTION
FIRST PIECE INSPECTION (FPI) REPORT
SONOCO PRODUCTS, CO.
840 W HWY 25, NEWPORT, TN 37821
CONTAINER, AMMUNITION, FIBER:
PA89 PART NUMBER 9335611
NEW BRODBECK CUTTER AND
QUALIFICATION OF SONOCO PAPER MILL RAW MATERIAL**

TEST DATE(S)

<Copy above Green info from FPI Plan, except test date, use the actual test date(s).>

DISTRIBUTION STATEMENT C - Distribution Authorized to U.S. Government Agencies and their Contractors; Administrative and Operational Use, Export Controlled, 23 April 2020. Other requests for this document shall be referred to: Project Manager Tactical Aviation and Ground Munitions Project Office, ATTN: SFAE-MSL-TA, Redstone Arsenal, AL 35898.

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Prepared by:	Title:	Date:
<u>Name of plan author</u>	Quality Engineer	_____
Approved by:		
<u>Name of PQE</u>	Program Quality Engineer	_____
<u>Name of SME (if applicable)</u>	Subject Matter Expert	_____
<u>Name of Subcontract Manager</u>	Supplier Representative	_____
<u>Name of IPT Lead</u>	Name of IPT Lead	_____
<u>Name of Program Manager</u>	Program Manager	_____

Prime Contract No: W31P4Q-20-D-0023

**Prepared for:
Tactical Aviation and Ground Munitions Project Office
ATTN: SFAE-MSL-TA
Redstone Arsenal, AL 35898**

The following is required prior to implementation of this FAT change into production hardware :

326 IBM Road, Bldg 862
Williston, VT 05495

Date DD MMMYYYY

Engineering Change Proposal (ECP) / Contract Modification

Comments:

The FAT / FPI change shall not be implemented until receipt of approved indicated documentation.

A014-###
DD MMM YYYY

DOCUMENT CHANGE LOG		
REVISION	DATE	PARAGRAPHS AFFECTED
-	DD MMM YYYY	Initial Issue

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1 INTRODUCTION

This First Piece Inspection (FPI) Report was created in accordance with (IAW) contract W31P4Q-20-D-0023 Statement of Work (SOW) paragraph C-5.2.2, Data Item Description (DID) DI-NDTI-80809B and Contract Data Requirements List (CDRL) A014.

This report contains the results associated with the execution of approved FPI plan A014P-### and provides the test data to validate **part number (P/N), drawing name and description of validation**. *<Generally, copy over the introduction information from the FPI Plan, change to past tense, modify as needed, and add any other pertinent information without being redundant with para. 1.1-1.3.>*

The tests and inspections are defined in the Test Flow Diagram (TFD), Master Test List (MTL), and any additional listed requirements.

1.1 Test / Inspection Objectives

The FPI satisfied its objective to perform the test/inspection IAW the test flow diagram and AS9102 Forms 1, 2, and 3. The results validate the proposed change for incorporation into the Qualified Baseline to be used for production on contract W31P4Q-20-D-0023. Test success/failure criteria, test baseline, any required test duration, and quantity of test are defined in the Master Test List IAW documents listed in the applicable documents section.

1.2 Items Tested / Inspected

Delete lines that are not applicable. Black items are required.

Nomenclature: (e.g. drawing name)

NSN: (If there is an NSN for the test subject)

Model number or part number: (normally list the drawing number)

Serial or Lot number:

TFAT Lot Qty: (lot quantity manufactured for this validation)

Applicable engineering changes: (list only if not listed in applicable reference documents)

Product item specification: (e.g. MIS-DTL spec or WS spec.)

Date of manufacture: (list date(s) validation samples were produced)

1.3 Test / Inspection Requirements

Test / Inspection requirements are identified in the test flow diagram and MTL.

2 APPLICABLE REFERENCE DOCUMENTS

Table I identifies the document baseline for this validation and any outstanding changes that may affect the baseline.

Where ASME Y14.5 or ASME Y14.100 is stated on a drawing, the current revision may not be applicable and the revision inclusive of the drawing practice/symbology shall be used.

Copy the table of Applicable Documents from the approved plan. Update as necessary and note the changes in this report.

Table I. Applicable Documents

DOCUMENT NUMBER	TITLE	Rev.	CNs*	NORs

*Change notices (CNs) are for GD-OTS and GD-OTS supplier use only.

Any documentation with a more restrictive listed distribution statement than the Distribution Statement C indicated on the cover page is not included in this report.

3 TEST/INSPECTION REQUIREMENTS AND PROCEDURES

The test flow diagram, Figure 1, identifies the tests conducted for the test program. Test samples were selected from the production representative lot.

Any operation of the test item and any control conditions are described in the production work instructions.

Copy test flow diagram from FPI Plan.

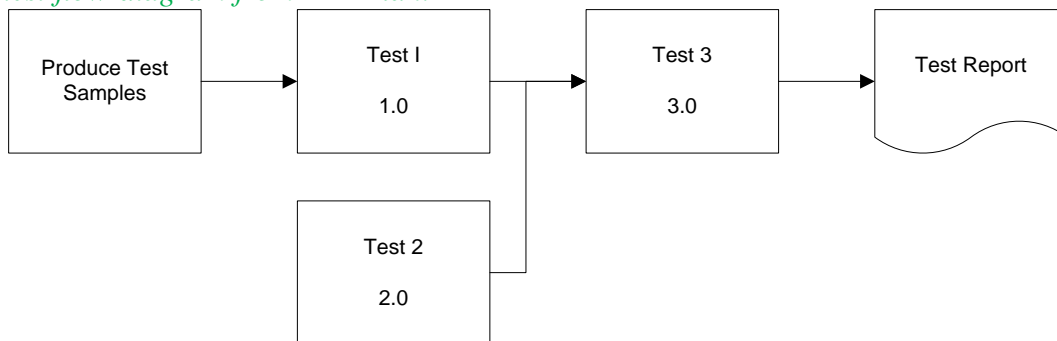


Figure 1. Test Flow Diagram

The Master Test List can be found on AS9102 Form 3 for each part number in blocks 5, 6, 7, 7a, 7b, 7c, 7d, 8, 8b, and 8c located in Appendix A. All dimensions are in the units of measure specified on the governing prints. Each test/inspection was performed one cycle for each sample. The accept/reject number is accept on 0, reject on 1 unless otherwise indicated in the governing specifications. *The ballooned drawing(s) has/have been included in Appendix # for reference.*

4 TEST EQUIPMENT IDENTIFICATION

Inspection and Test Equipment (ITE) to use for this FPI is specified on Form 3 in block 7b.

All test / inspection equipment, including equipment listed on the required test/inspection equipment list, were verified to be in calibration at the time of the test. Supporting calibration information is included in Appendix C.

OR

The GD-OTS witness verified all test / inspection equipment, including equipment listed on the required test/inspection equipment list, was in calibration at the time of the test.

ITE has been reviewed for applicability. There are no changes to the approved ITE therefore no ITE Validations were required.

OR

ITE has been reviewed for applicability. No Safety, Special, Critical, or Major Characteristics apply to this part.

5 TEST/INSPECTION FACILITY INSTALLATION AND SET-UP

Testing took place at **Supplier Name** in **Supplier City, State**. No Government test facilities were used in this validation.

6 TEST/INSPECTION RESULTS AND ANALYSIS

The completed data sheets are presented in AS9102 format in Appendix A: Form 1, Form 2 followed by all supporting certifications, test data, and Form 3. *<If applicable, keep next sentence. If not, delete.>* All data was captured electronically during the inspection. So, no handwritten Form 3s exist.

The FPI samples were manufactured using the same facilities, production processes, methods and materials that will be used for production. Manufacturing process documentation (e.g. inspection documentation, work instructions, SOPs, machine settings, personnel training, etc.) were reviewed for adequate detail and clarity to ensure product will be built correctly and in a repeatable manner. All parts manufactured for the validation are accounted for in section 1.2. FPI samples will be retained, at a minimum, until the report is approved. **Parts not used as validation samples will be used in production/scrapped/other.**

Review of the certifications indicated that the product lot met all requirements of print **Drawing Number Rev revision #, with TCN#(s)/NOR#(s).**

All inspections on Form 3 for all processes meet the requirements of print **Drawing Number Rev revision #, with TCN#(s)/NOR#(s)** and were inspected in the planned quantities.

<Include any additional results or issues concerning the validation.>

<Include the following if the AS9102 FORMs have any red lines or corrections.>

The following red lines to the AS9102 forms for P/N ##### are changes from the approved FPI Plan (A014P-##) or are recording errors:

1. Change:
Reason for Change:

2. Change:
Reason for Change:

Actual recorded Test and Inspection data records are included in Appendix A. The results obtained are true and accurate. The test conductor, supplier management representative, **GD- OTS witness**, and **Government witness** signatures are included in the report.

7 PRODUCTION LOT NUMBER EFFECT

Copy lot number interfix effect from the approved plan.

8 SUMMARY, CONCLUSION AND RECOMMENDATION

All tests/inspections specified in the approved plan have been validated during the execution of test.

The FPI results demonstrate the **Part Number, Part Description**, meets all validation requirements. GD-OTS approves this test report to incorporate the validated changes for the **Part Description** manufactured by **Supplier/Facility Name** in the Qualified Baseline.

Appendix A. Master Test List Data Sheets

Number	Description	File
A1		

Appendix B. Ballooned Drawing

Please check the Distribution Statement of the drawing(s) to be included. Do not include any document(s) that are of a more restrictive nature than the distribution statement of this plan.

Number	Description	File
B1		

Appendix C. Additional Supporting Documentation

Number	Description	File
C1		