

<b>GENERAL DYNAMICS</b> Ordnance and Tactical Systems	ST. PETERSBURG, FLORIDA		
	<b>SUPPLIER QUALITY CLAUSE</b>		
TITLE	QUALITY CLAUSE	REVISION	EFFECTIVE DATE
<b>BALLISTIC TEST REPORTS</b>	<b>S4</b>	<b>0</b>	<b>June 9, 2023</b>
<small>Material and/or services supplied to purchase orders must be in accordance with all quality clause requirements and any additional requirements outlined on the Purchase Order.</small>			

## 1.0 REFERENCES

Programmatic Detail Test List (DTL)

## 2.0 REQUIREMENTS

The DTL will list out the detailed testing requirements for each product and per each contract.

Test data collection capability shall include, but is not limited to, the following:

- Muzzle Velocity
- Target Impact Dispersion
- Action Time (T2, T4)
- Shoulder and Breech Pressure Data capture with Average, Maximum, and Standard Deviation calculations
- Pressure Plots
- Radar Velocity Data
- Flight/Highspeed Video

The Test Range must also have the following capabilities:

- Pre-condition test rounds in a range from -46 degrees Celsius (C) to +63 degrees C for a minimum of 24 hours prior to the test.
- Maintain as well as calibrate all measuring and test equipment on site or via third party services.
- Upload and Download propellant as required.

Test range personnel of adequate knowledge shall be available to support a Test Readiness Review (TRR) to be scheduled before the test by General Dynamics Ordnance and Tactical Systems (GD-OTS). Test data collection shall be discussed in detail during the Test Readiness Review (TRR). Additional data may be requested as required by the cognizant GD-OTS Engineer.

A Flash Report is required to be submitted for all tests. The data collected shall be submitted with the test report in Microsoft Excel format.

The Ballistic Test Report is to consist of the same information as the Flash Report along with the final data, vetted by the test facility, along with all other findings/observations from the test. PDF format is required for the Ballistic Test Report.

## 3.0 QUALITY CLAUSE DELIVERABLES (QCD)

Microsoft Office or PDF formats are preferred. All subcontractor data submittals shall be in English. These data items shall be submitted to GD-OTS in accordance with the QCD as indicated below. The method of submission to GD-OTS St. Petersburg is specified in the General Supplier Quality Clause "S1" located on GD-OTS's Supplier Portal <https://www.gd-ots.com/suppliers/quality-clauses/> under GD-OTS St. Petersburg, FL.

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NO.	TITLE	GD-OTS APPROVAL REQUIRED	SUBMITTAL TIMING/FREQUENCY
S4-1	Flash Report	No	Unless otherwise directed in the Subcontract/Purchase Order (PO) or Special Instructions document provided by GD-OTS, QCD is due 2 business days after completion of test.
S4-2	Ballistic Test Report	Yes	Unless otherwise directed in the Subcontract/PO or Special Instructions document provided by GD-OTS, QCD is due 20 business days after completion of test.

## 4.0 REVISION HISTORY

REV	DATE	CHANGE
0	06/09/2023	ECN23315-Initial Release