



DEFENSE LOGISTICS AGENCY

LAND AND MARITIME
POST OFFICE BOX 3990
COLUMBUS, OH 43218-3990

April 10th, 2023

Joshua Thompson
Quality Assurance Manager
Integra Technologies - Wichita
3450 N Rock Road, Bldg#100
Wichita, KS 67266

Dear Mr. Thompson:

Re: Commercial Laboratory Suitability Status; MIL-STD-883; FSC 5962; VQC-22-037752; Patterson. CN: 082384, 083425, 083977.

Based on the results of the DLA Land and Maritime audit conducted during the week of August 22nd, 2022, Integra Technologies - Wichita is considered suitably equipped to perform the MIL-STD-883 tests, listed in the enclosure, on monolithic microcircuits in accordance with the requirements of military specification MIL-PRF-38535 effective immediately. This letter supersedes DLA Land and Maritime-VQ (VQC-18-032884) to reflect the current suitability status.

Your laboratory is to maintain a record for all microcircuit testing and submit a three-part summary annually to DLA Land and Maritime-VQC that will include the following three parts as a minimum:

1. Retention Report
 - a. Military Part Number
 - b. Vendor Part Number
 - c. Manufacturer/ Customer
 - d. Lot Date Code
 - e. Test Method(s) and Specified Conditions
 - f. Date Test Completed
 - g. Quantity Tested
 - h. Quantity Accepted and Rejected, when evaluating Acceptability
2. Summary of MIL-STD-883 Internal Audit Results
3. Master List of Controlled Documents (External and Internal), including Current Revision

The standard retention-reporting period is the calendar year, from 01 JAN through 31 DEC. Your three-part report is then due by 31 JAN the following year.

Test labs shall notify the qualifying activity immediately after learning of a potential issuance of a GIDEP alert, problem advisory or major quality/reliability problem on their military products utilizing the test methods on the attached enclosure. Failure to provide prior notification may be grounds for removal from DLA Land and Maritime's Commercial Lab Suitability Listing.

This Laboratory Suitability is subject to the policies, procedures, and conditions of the Defense Standardization Program, as published in the manual DoD 4120.24-M, SD-6, and the DLA Land and Maritime-VQ Laboratory Suitability Booklet.

This laboratory suitability is valid until withdrawn by DLA Land and Maritime-VQC. Any deviation to the test method or condition(s) listed herein must be approved by the Qualifying Activity.

If you have any questions, please contact Mr. Philip Patterson at (614) 692-2178.

Sincerely,

MICHAEL S. ADAMS
Chief
Custom Devices Branch

Enclosure

Visit us on the web at: https://landandmaritimeapps.dla.mil/Offices/Sourcing_and_Qualification/

<u>TEST</u>	<u>METHOD/CONDITION</u>
Steady State Life Test	1005 A,B,C,D,E (Class B/S)
Temperature Cycling	1010 A,B,C
Seal	1014 A ₁ ,A ₂ ,C ₁
Burn-in	1015 A,B,C,D,E (Class B/S)
Solderability	2003 Test A
External Visual	2009
Internal Visual	2010 A,B
Bond Strength	2011 D
Radiography	2012 (Digital)
Resistance to Solvents	2015
Physical Dimensions	2016
SEM	2018
Die Shear Strength	2019
Particle Impact Noise Detection (PIND)	2020 A,B
Ultrasonic Inspection of Die Attach	2030
Electrical Test	See Note 1

Note 1: Integra Technologies Wichita's electrical test systems are certified in compliance with MIL-STD-883 paragraph 4.5 as applicable. Integra Technologies Wichita's system is suitable to perform electrical test over military case temperature (T_{case}) of 25°, 125°, and -55° C. Electrical Test suitability does not cover individual test programs. It is the responsibility of the commercial lab to obtain a record of customer approval stating that the hardware/software integration, including resolution and accuracy are adequate to meet the forcing and measurement conditions required, for the specified device type.