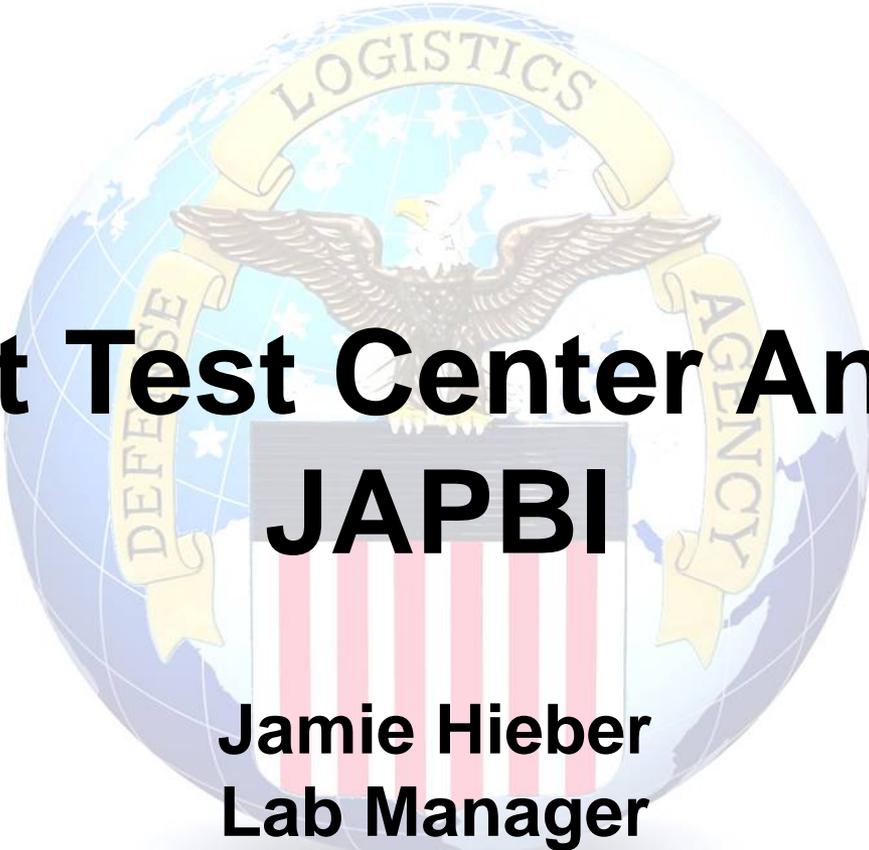


# DEFENSE LOGISTICS AGENCY

AMERICA'S COMBAT LOGISTICS SUPPORT AGENCY

**DLA LAND AND MARITIME**

The logo of the Defense Logistics Agency (DLA) is centered in the background. It features a globe with a bald eagle perched on top. A banner across the eagle reads "LOGISTICS", and another banner below it reads "DEFENSE AGENCY". The globe is overlaid with a stylized American flag pattern of red and white stripes.

# Product Test Center Analytical JAPBI

**Jamie Hieber  
Lab Manager  
October 19, 2016**



# Our Mission



## Provide Product Testing Services for DLA

- Aviation
- Land and Maritime
- Troop Support
- External Customers

*Maintain the capabilities to provide testing results and technical support that is accurate, timely, and completed in a cost effective manner*

**Support the Warfighter Through Conformance Testing**

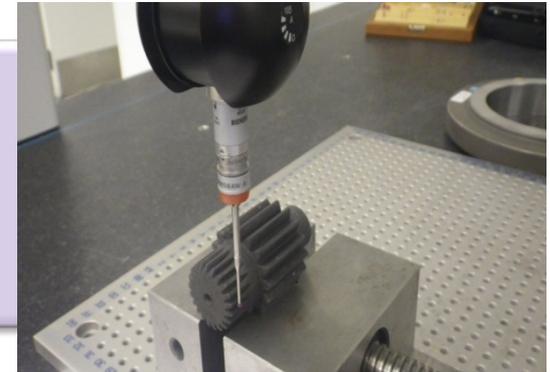


# PTC Capabilities



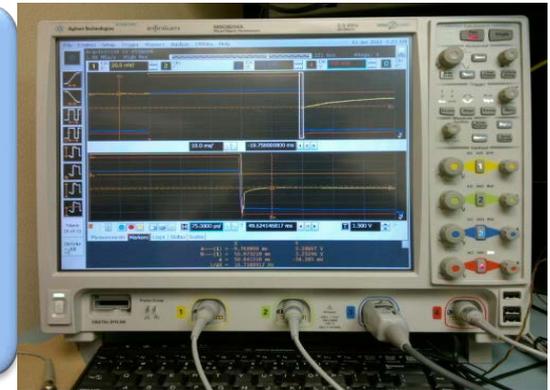
## Mechanical: Columbus

- Dimensional
- Material / Tensile
- Pressure Test
- Plating Thickness
- Hardness Testing
- Calibration



## Electronics: Columbus

- Electrical/Electronic
- Materials Analysis
- Destructive Physical Analysis
- Microcircuit Programming
- Environmental Simulation (Shock, Vibration, Salt Spray)
- Reliability Testing
- DNA Marking



## Troop Support: Philadelphia

- Chemical Analysis
- Physical Testing of Textile Items
- Color Shading
- Rubber/Leather Testing
- Environmental





# Why Use the PTC?



## Value Of Testing

- Ensures Product Conformance
- Mitigates the Risk of Counterfeit entering Supply Chains
- Reduces Customer Complaints
- Reduces Material Cost / Identifies Questionable Sources

## Advantages of the PTC

- Test and support to DLA customers is non-reimbursable
- Integrated into overall TQ program
- Studies demonstrate best value to the agency
- Record of excellent support throughout DLA
- Each lab is ISO Registered

**Provide Profession and Cost Effective Testing Services**



# Testing Focus Analytical



The DLA Analytical Product Test Center performs product verification testing and engineering evaluations in support of the Defense Logistics Agency, other military services and to a limited extent the private sector.

## Workload

95-99% of all work to support DLA Troop Support

1-5 % of work all other DLA Supply Chains, outside government agencies, commercial contractors

## Contract Driven Testing Requirements and 4155.3 Quality Systems Requirements

Contractual government place of performance for

Acceptance testing (Shade)

Verification testing (Product Demonstration Models, Lot Acceptance Testing, First Article)

Source sampling (Correlation Testing)

## Non-Contract Driven Work

### Technical Support

Specification review

Product Quality Deficiency Reports

Contractor plant line visits

R&D work to support the services

Unique Equipment and Experience

### Technical Subcommittees/ Government, Military, Industry IPT's

Set test requirements as they pertain to new items and methods

**Meeting Customer Expectations Is Our Goal**



# DLA Product Test Center Analytical Capabilities



## Chemical Analysis

- Atomic Absorption and Leco Carbon Sulfur analyzer for % concentration of metals analysis
- PH for all types of clothing and textile items
- GC/Mass Spec for identification of finishes (Permethrin as an example)
- HPLC for material Id of plastics and rubbers
- Chromic Oxide testing for military tanned leather

## Physical testing

- Majority items are clothing and textiles, including plastics, metals and other component parts
- Blunt impact on helmets
- Tensile testing
- Near Infra Red testing on camo for force protection
- Flame resistance
- IFF (identifiable Friend or Foe)

## Shade

**Fulfill mission requirements without sacrificing quality and proficiency**



# Expanded Capabilities



In the past two years the PTC Analytical has increased it's staff, expanded it's testing capability, and constructed three new conditioned rooms for leather, rubber, paper, and textile testing.

## New Staff Includes:

5 Textile Technologists

2 Chemists

2 Intern Chemists

1 Color Scientist



The PTC-Analytical has 25 associates in testing and support functions. Expanded training in rubber, leather, carbon sulfur analysis and training on upgraded Instron and Tinius Olsen ,CMM and Romer Arm equipment ensures diminished testing times with highly accurate results.

**Simultaneous Complex High Impact Testing**



# Area's Of Focus - Chemical



## Chemical Analysis of Metal Alloys

## Material Identification of Materials

### Gloves

- Validating new design against existing specs

### Boots

- Whole boot Moisture Vapor Transmission Rate test method development
- RAT Boot sole bond strength method development

### Leather

- ASTM Subcommittee membership
- ASTM Leather Subcommittee Chemical Analysis Chair
- Fungicide method development
- Capacitive leather glove development
- Specification review





# Area's Of Focus- Textiles



## Primary Focus: Physical Analysis Textile and Equipage Items

### ACH (Army Combat Helmet)

- Blunt Impact
- Compression
- Instrumental in method development for blunt impact on pad usage

### IFF (Identifiable Friend or Foe) Flags

- Continued testing for multiple services



### Flame (Aramid Flyers Uniforms, Navy Shipboard Coveralls)

- Fabric Break Open
- Char length, afterglow

### Dimensional Stability/Physical Surface Appearance/

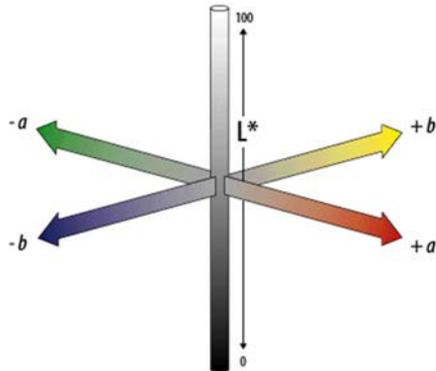
- Cloth and End Items / Physical Fitness Uniforms



# Area's of Focus -Shade



- Shade Evaluation- FY 16 Completed Shade Reports: 8066
- All Shade Evaluation turned in 24-72 hours consistently
- Shade Branch has taken over responsibility for colorfastness testing – dedicated textile technologist specializing in this testing ensures consistency and decreased testing time.
- Participation in Shade IPT/DLA Instrumental Pilot Program.





# Testing



## Source Sampling

- Testing is conducted on the finished cloth at the *source*, prior to manufacturing the end item.
- May include end items.
- A test report and signed/stamped DD 1222 must be sent to the DLA-PTC for **every** lot.

## Correlation Testing

- DLA-PTC tests the same material that the contractor has tested, and results from both labs are compared.
- Not automatic. Must be requested by DLA-PTC representative.
- DLA-PTC will alert Troop Support product specialist to any discrepancies between the two reports.
- Material still ships to end item manufacturer based on ***Contractor's passing test report.***



# Testing



## Verification Testing

- DLA-PTC tests the same material that the contractor has tested, and results from both labs are compared.
- Requested by Troop Support product specialist via DD3440 or contract mod.
- May involve 100% testing, or only tests of interest.
- Material only ships to end item manufacturer based on *DLA-PTC's passing test report*.

## Acceptance Testing

- 100% Verification Testing for every lot of a contract.
- Shade Testing
- NIR Testing
- Critical Safety Items



# Some Things to Keep In Mind



- **If you are a Contractor:**
- Any laboratory proposed by the contractor is subject to the approval of the contracting officer.
- If samples are requested for testing **The Government QAR** will cut samples from a lot at the textile component source and send them for testing to the Laboratory
- Cutting production lots without a passing laboratory test report on the corresponding samples is done at the contractor's own risk.
- Shade evaluation is acceptance testing. Therefore, component lots may not be shipped to the prime contractor until the DLA Troop Support laboratory accepts the shade of the material.
- There is no QLL( Qualified Laboratory List)



# There Is No QLL List ( Since 1993 )



SUBJECT : Deletion of the ASL(Acceptable Suppliers List) and the QLL  
SENT BY : paa4111 (Jean Ann Grandinetti)  
DATED : 15 Mar 1993 at 1524 EST  
SENT TO : amarczynski, jfulginiti, rhusser, bjohns, ppanzera,  
whoban, psilverstein  
COPY TO : jkernodle, pezebrowski, rsjankowskisr, hperry, ammanuel,  
jgrandinetti  
STATUS : new, read

(Qualified Laboratories List)

Per directive from DLA headquarters, both of these lists have been cancelled and will no longer be maintained and printed for distribution by the Quality Assurance Division. Therefore, neither of these lists should be included in the packages that are sent out to prospective bidders. The test document DPSCM4155.3 will be modified accordingly. Any prospective contractor desiring further information on laboratory testing can contact Algie Manuel at 215-737-3241.

It must be emphasized that the quality provisions associated with these documents are still in effect. For example, any item now being bought by a contractor under COC (usually \$15,000 or under and previously on the ASL) are still subject to samples being drawn by the QAR to determine conformance to the appropriate specification requirements. All potential contractors are still required to list their supplier and laboratory for source sampling government verification testing. Our lab will still do on-site surveys to verify capabilities and witnessing of testing until quality history has been established.

VR  
Jean Ann Grandinetti  
Ch, QA Div

# Lab Surveys Are How We Qualify

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- Email: Trp Spt LAB Survey Team (DSCC-TC)
- Tips
  - Contact the contractor's lab in advance.
  - Email is the best contact info to provide.
  - Contractor lab POCs are more useful than sales POCs.
- Reasons for DENIAL
  - No response
  - Improper textile conditions
  - Insufficient testing equipment

# Director's Strategic Plan

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The PTC provides Warfighter Support through the testing we do on a daily basis. We are dedicated to supporting these ideals.

- Strategic Engagement :
  - Continue meaningful strategic engagements with our customers and industry.
- Whole of Government:
  - Pursue opportunities where our capabilities as a testing lab add values to our partners mission
- Use CPI (Continuous Process Improvement) to use our time smartly
  - Shorten turn time, less cost.



# Points of Contact



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