



GO BEYOND

**MATERIALS CONTROL  
LABORATORY MANUAL**

**Section:** App. 56  
**Issued:** 12/15/69  
**Revision #:** AA  
**Revised Date:** 07/30/21  
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**Section Title:** Appendix - Sections

**Document Title:** Pratt & Whitney Materials Control Laboratory Qualified Commercial Laboratory List

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**WARNING**

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**APPLIES TO: Pratt & Whitney Group**

**1. PURPOSE AND SCOPE:**

This Appendix provides a listing of Commercial Laboratories Qualified by the Pratt & Whitney Group, Materials Control Laboratory (formerly Quality & Standards Laboratory), and identifies the Type of Testing that each listed Laboratory is qualified for.

**2. OWNERSHIP AND APPROVAL:**

The Chief, Quality & Standards Laboratories (Q&SL), PW South & Supervisor Supplier Metallurgical Development PW North, are the owners of this procedure. All revisions to this procedure must be approved by the owners and balloted in accordance with MCL Manual Section C-5.

**3. DEFINITIONS:**

- 3.1 **Pratt & Whitney Group** – encompasses both Pratt & Whitney Canada (PW North) and Pratt & Whitney US (PW South).
- 3.2 **Semi-quantitative Spectrographic Analysis** – The Determination of a material's chemistry to detect the presence of the alloying elements to a degree by which a positive identification can be made as to the alloy type, as well as the ability to distinguish between similar alloys.
- 3.3 **Quantitative Spectrographic Analysis** – P&W defines quantitative spectrographic analysis as “utilization of a least squares calibration curve”.
- 3.4 **Wet Chemical Analysis** – P&W defines wet chemical analysis as “gravimetric or titrametric analysis” of metallic component to identify alloys. This is not process solution analysis.



























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### 5. **FORMS:**

- MCL Form 404

### 6. **REFERENCES:**

- MCL Manual Section C-5
- MCL Manual Section F-23
- MCL Manual Section S-8

### 7. **NATURE OF CHANGE FOR THIS ISSUE:**

- Updated company name – Advanced Plastic and Material Testing Inc.
- Updated SMC name to Gottfried for ATI Wah Chang, Atlas Testing Labs, Dickson Testing, Element Duarte, Hill Engineering, IMR KHA
- Removed Labs: Element Materials Technology Bridgwater UK and Southern Research Institute Birmingham AL from Appendix 56
- Updated SMC names for the following: Eaton Aerospace Labs (Amroski/Zelle), Element Cleveland (Amroski/Zelle), Element Daleville (Sys/Zelle), Element Fairfield (Sys/Zelle), Element Glendale Heights (Sys/Zelle), Element Huntington Beach (Kirilov), Element Monterrey (Dues), Element New Berlin (Sys/Zelle), Joliet Metallurgical Lab (Sys/Zelle), NSL Analytical (Amroski/Zelle), NSL Metallurgical (Amroski/Zelle), Omega Research (Long), P&W Rzeszow S.A. (Kobylarz), Product Evaluation Systems (Amroski/Zelle), R&D Laboratory for Aerospace Materials Rzeszow (Kobylarz), RTM Breda S.r.l. (Nykles), UL LCC (Sys/Zelle), Westmoreland Mechanical Testing (Amroski/Zelle)
- Added 20b to Element Material Technology - Fairfield
- Added Test Code 7 and 7a, 12a for Element Materials Technology Plzen Czech Republic
- Removed 7a limitation for Element Materials Technology Plzen Czech Republic
- Revised address for Hill Engineering
- Added New Lab - FMI Chemical Corporation in Bloomfield CT
- Added Test Code 13 to IMR KHA – Portland OR
- Added Test Codes 1, 2, 3, 4, 5, 7a and 7h to Kiguchi Techniques
- Corrected typo Note 12

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