



MATERIALS CONTROL LABORATORY MANUAL

Section: App. 56
Issued: 12/15/69
Revision #: AC
Revised Date: 11/07/22
Page 1 of 13

Section Title: Appendix - Sections

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

WARNING

This document is the property of Pratt & Whitney (P&W), a division of Raytheon Technologies Corporation, and contains confidential and / or proprietary information. You may not possess, use, copy or disclose this document or any information in it, for any purpose, including without limitation to design, manufacture, or repair parts, or obtain FAA or other government approval to do so, without P&W's express written permission. Neither receipt nor possession of this document alone, from any source, constitutes such permission. Possession, use, copying or disclosure by anyone without P&W's express written permission is not authorized and may result in criminal and/or civil liability.

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, Materials Control Laboratory (MCL) 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”.



MATERIALS CONTROL LABORATORY MANUAL

Section: App. 56
Issued: 12/15/69
Revision #: AC
Revised Date: 11/07/22
Page 2 of 13

- 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.
- 3.5 **Optical Emission Spectroscopy (OES)** – OES is defined as testing which utilizes “ICP (Inductively Coupled Plasma), DCP (Direct Current Plasma) and DR (Direct Reader)”.

4. **PROCEDURE:**

- 4.1 The commercial laboratories listed in [Table I](#) have been reviewed by Pratt & Whitney-Materials Group Control Laboratory (P&W-MCL) and found capable of performing the types of tests for which they are listed ([Table II](#)). This list shall not be construed as a guarantee by P&W-MCL that testing will be done properly, nor does it relieve the supplier from his contractual obligation to deliver conforming materials and parts based on accurate and valid test results.
- 4.2 The listing of a laboratory in the Table signifies only that, at the time of review, the laboratory was found capable of performing the tests for which it is listed. The laboratory is not relieved of responsibility for continued conformance as determined by calibrations and operational checks of testing and measuring equipment.
- 4.3 This list shall not be reproduced without written permission from P&W-MCL and should not be considered completely up-to-date at any time, as deletions and additions may be made by P&W-MCL.
- 4.4 Laboratories listed in [Table I](#) are required to comply with MCL Manual Section F-23, “Test and Calibration Requirements for Commercial and In-House Laboratories”, when that Section is specified on orders from their customers. Failure to comply with MCL Manual Section F-23 will disqualify the laboratory as a testing source for materials or parts.
- 4.5 At the discretion of P&W-MCL, any laboratory may be removed from this listing either by code ([Table II](#)) or its entirety ([Table I](#)) when no longer deemed qualified or when the services are no longer required by P&W or its subcontractors.



MATERIALS CONTROL LABORATORY MANUAL

Section: App. 56
Issued: 12/15/69
Revision #: AC
Revised Date: 11/07/22
Page 3 of 13

4.6 The following laboratories may be used for qualitative analysis using mass spectrograph for information only and will not be surveyed:

- Accu-Labs Research, Inc.
11485 West 48th Avenue
Wheat Ridge, CO 80033
- Commercial Testing & Engineering Company
Instrumental Analysis Division
14335 West 44th Avenue
Golden, CO 80401
- Ledoux & Company
359 Alfred Avenue
Teaneck, NJ 07666

Uncontrolled If Printed

Pratt & Whitney Proprietary - Subject to the restriction on the title or cover page



GO BEYOND

MATERIALS CONTROL LABORATORY MANUAL

Section: App. 56
Issued: 12/15/69
Revision #: AC
Revised Date: 11/07/22
Page 4 of 13

TABLE I

COMMERCIAL LABORATORIES	SMC	TYPE OF TESTING (See TABLE II of TEST CODES)	
		Approved Testing	Limited Testing
Advanced Plastic & Material Testing Inc. 42 Dutch Mill Road Ithaca, NY 14850 USA	Meehan	1, 5, 6, 7, 7A, 9, 10, 13, 15, 16, 18, 23, 25, 26, 27	
Allegheny Technologies Limited Commercial Testing Services Blackmore Street, Sheffield S4 7TZ United Kingdom	Capstick	9, 12, 12a, 17, 17a	
ATI Wah Chang 1600 N.E. Old Salem Road P.O. Box 460 Albany, Oregon 97321 USA	Baker	9, 12, 13	
Atlas Testing Labs 9820 6th Street Rancho Cucamonga California 91730 USA	Castillo	1, 2, 3, 5, 6, 7, 7a, 8, 9, 10, 11, 12, 12a, 13, 20a	
Connecticut Metallurgical 100 Prestige Park Road East Hartford, Connecticut 06108 USA	Bissell	1, 2, 3, 4, 5, 7, 7a, 7b, 7c, 7d, 7e, 7f, 7g, 7h, 9, 10, 11, 12, 13, 15, 16, 23, 35	12a - only (O, N)
Dickson Testing 11126 Palmer Avenue Southgate, California 90280 USA	Kirilov	1, 2, 3, 4, 5, 6, 7, 7a, 7c, 7h, 8, 9, 11, 12, 12a, 13, 17, 21	17a- only (Pb, Bi, Se, Te, Ti), 18 - only (Y)
Dirats Laboratory 41 Airport Road P.O. Box 39 Westfield, Massachusetts 01086 USA	Bissell	1, 2, 3, 4, 5, 6, 7, 7a, 7b, 7c, 7d, 7e, 7f, 7g, 7h, 9, 10, 11, 12, 12a, 13, 14, 17, 20a, 21, 22, 23, 28, 35, 38	17a- Only (Pb, Bi, Se, Te, Ti), 18 - only (Y) 19 -only (R)

Continues on next page

Pratt & Whitney Proprietary - Subject to the restriction on the title or cover page



GO BEYOND

MATERIALS CONTROL LABORATORY MANUAL

Section: App. 56
Issued: 12/15/69
Revision #: AC
Revised Date: 11/07/22
Page 5 of 13

TABLE I

COMMERCIAL LABORATORIES	SMC	TYPE OF TESTING (See TABLE II of TEST CODES)	
		Approved Testing	Limited Testing
EAG Laboratories 103 Commerce Blvd. Liverpool, NY 13088 USA	Meehan	24	
Eaton Aerospace Laboratories 23555 Euclid Avenue Cleveland, Ohio 44117	Viau	1, 2, 3, 5, 7, 7A, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 23	17a - only (Pb, Bi, Se, Te, Ti, Ni Base Alloys)
Element Materials Technology - Burlington 1440 Graham's Lane Unit 11 Burlington, Ontario L7S 1W3 CANADA	Vaidya	8, 9	
Element Materials Technology Canada Inc - Cambridge Laboratory 15 Highridge Court Cambridge, Ontario N1R 7L3 CANADA	Vaidya	1, 5, 7, 7a, 7h, 8, 9, 29	
Element Materials Technology - Charlotte 1200 Westinghouse Blvd., Suite A Charlotte, NC 28273-6313	Thornton	1, 2, 3, 4, 7, 7a	
Element Materials Technology - Cleveland 5405 Schaaf Road Cleveland, Ohio 44131	Viau	1, 2, 3, 4, 5, 6, 7, 7a, 7b, 7c, 7d, 7e, 7f, 8, 9, 11, 12, 12a, 13, 17, 18	17a - only (Pb, Bi, Se, Te)
Element Materials Technology - Daleville 9301 Innovation Drive Suite 175 Daleville, IN 47334-0569 USA	Sys	1, 2, 3, 4, 5, 7, 7a, 7c, 7d, 7e, 7f, 7h, 8, 9, 10, 11, 12, 12a, 13, 17, 18	17a - only (Pb, Bi, Se, Te, Ti)
Element Materials Technology - Duarte 1857 Business Center Drive Duarte, CA 91010	Tam	15, 16, 25, 26, 27	
Element Materials Technology - Fairfield 3701 Port Union Road Fairfield, Ohio 45014 USA	Easton	20b, 21	
Element Materials Technology. - Glendale Heights Lab 194 International Blvd Glendale Heights, Illinois 60139	Winn	1, 2, 3, 5, 6, 7, 7a, 7b, 7c, 7d, 7e, 7f, 7h, 8, 9, 11, 12, 12a, 13, 17, 20a, 21	

Continues on next page

Pratt & Whitney Proprietary - Subject to the restriction on the title or cover page

Pratt & Whitney Proprietary – Subject to restrictions on first page.

COPIES PRINTED FROM THE ON-LINE SYSTEM ARE CONSIDERED UNCONTROLLED



GO BEYOND

MATERIALS CONTROL LABORATORY MANUAL

Section: App. 56
Issued: 12/15/69
Revision #: AC
Revised Date: 11/07/22
Page 6 of 13

TABLE I

COMMERCIAL LABORATORIES	SMC	TYPE OF TESTING (See TABLE II of TEST CODES)	
		Approved Testing	Limited Testing
Element Materials Technology - Huntington Beach 15062 Bolsa Chica Huntington Beach, California 92649	Kirilov	1, 2, 3, 4, 5, 6, 7, 7a, 7c, 7e, 7g, 8, 9, 10, 11, 12, 12a, 13, 17, 17a, 18, 20a, 21	
Element Materials Technology - Monterrey Carretera Monterrey-Saltito #3279-B Col: Privade de Santa Catarina Santa Catarina, Nuevo Leon, Mexico	Farmer	1, 2, 3, 5, 7, 7a, 12a	
Element Materials Technology - New Berlin 3200 S. 166th Street New Berlin, Wisconsin 53151-2701 USA	Winn	1, 5, 7, 7a, 8, 9, 12, 13	
Element Materials Technology - Newtown 2 Pheasant Run Newtown, Pennsylvania 18940 USA	McCallister	1, 2, 3, 5, 6, 7, 7a, 7b, 7c, 7d, 7e, 7f, 7g, 7h, 9, 10, 11, 12a, 13, 35	
Element Materials Technology - Plzen Podnikatelska 39 Plzen 301 00, Czech Republic	Nykles	1, 2, 3, 4, 5, 7, 7a, 7c, 11	12a - Only (H and O)
Element Materials Technology (Shanghai) Co., Ltd 1 st Floor, Bolck 7, No. 398 Songying Road, Qingpu District, Shanghai, China 201703	Hoa		7 – Replica only
Element Materials Technology - Montreal 104 AV. Nordic Pointe-Claire, Québec H9R 3Y2, QC CANADA	Vaidya	1, 5, 7a, 7e, 10, 35	
Element Materials Technology - Teesside Holwick Road Middlesborough TS2 1QS United Kingdom	Jones	9, 12, 12a	
FMI Chemical Corporation 4 Northwood Drive Bloomfield, CT 06002	Booth	16, 25, 26	

Continues on next page

Pratt & Whitney Proprietary - Subject to the restriction on the title or cover page



GO BEYOND

MATERIALS CONTROL LABORATORY MANUAL

Section: App. 56
Issued: 12/15/69
Revision #: AC
Revised Date: 11/07/22
Page 7 of 13

TABLE I

COMMERCIAL LABORATORIES	SMC	TYPE OF TESTING (See TABLE II of TEST CODES)	
		Approved Testing	Limited Testing
Genitest Inc. 3472 Frontenac Montréal, Québec. H2K 3A5 CANADA	Lu	1, 5, 7, 7a, 7e, 7f, 7h, 8, 9, 12, 13, 29	
Hill Engineering 3083 Gold Canal Drive, Suite 100 Rancho Cordova, CA 95670 USA	Le		36 - Only (S)
IHI Master Metal Co. LTD 5292 Aioi, Aioi-shi, Hyogo Pref. 678-0041 Japan	Kado	9, 12, 18	9 - Only (Ni, Co), 18 - Only (Ni, Co), 24 - Only (G)
IMR KHA - Portland 5687 S. E. International Way, Ste. A Portland, Oregon 97222	Baker	1, 2, 3, 4, 5, 6, 7, 7a, 7f, 9, 11, 12, 12a, 13	
IMR Metallurgical Services 4510 Robards Lane Louisville, KY 40218 USA	Easton	1, 2, 3, 5, 6, 7a, 7c, 7h, 9, 10, 12, 13, 19	
IMR Singapore Pte. Ltd. 30 Loyang Way #03-16 Singapore 508769	Na	1, 2, 3, 4, 5, 7a, 7b, 7c, 7d, 7e, 7f, 7h, 9, 12, 12a	
IMR Test Labs 131 Woodsedge Drive Lansing, New York 14882 USA	Meehan/Bissell	1, 2, 5, 6, 7, 7a, 7b, 7c, 7d, 7e, 7f, 7g, 7h, 7i, 7k, 9, 10, 11, 12, 12a, 13, 14, 15, 16, 18, 20a, 21, 23, 24, 25, 26, 27, 28, 33	
IncoTest Homer Road Hereford, HR4 9SL United Kingdom	Cerbone	1, 2, 3, 4, 5, 6, 7, 7a, 8, 9, 11, 12, 12a, 13, 18	
Joliet Metallurgical Laboratories 305 North Republic Avenue Joliet, Illinois 60435 USA	Winn	1, 2, 3, 4,	
Kiguchi Techniques 114-15 Enoshima Yasugi, Simane 692-0057 Japan	Kado	1, 2, 3, 4, 5, 7a, 7h	
Kobe Material Testing Laboratory Co Ltd 47-13 Nijima, Harima-cho Kako-gun, Hyogo 675-0155 Japan	Kado	1, 3, 7a, 7d, 7e, 7f, 7h	

Continues on next page

Pratt & Whitney Proprietary – Subject to restrictions on first page.

COPIES PRINTED FROM THE ON-LINE SYSTEM ARE CONSIDERED UNCONTROLLED

Pratt & Whitney Proprietary - Subject to the restriction on the title or cover page



MATERIALS CONTROL LABORATORY MANUAL

Section: App. 56
 Issued: 12/15/69
 Revision #: AC
 Revised Date: 11/07/22
 Page 8 of 13

TABLE I

COMMERCIAL LABORATORIES	SMC	TYPE OF TESTING (See TABLE II of TEST CODES)	
		Approved Testing	Limited Testing
Laboratory Testing Inc. 2331 Topaz Drive Hatfield, Pennsylvania 19440 USA	McCallister	1, 2, 3, 5, 6, 7, 7a, 7c, 7d, 7e, 7f, 7g, 7h, 8, 9, 10, 11, 12, 12a, 13, 21, 22 24, 25	
Luvak Inc. P.O. Box 597 Boylston, Massachusetts 01505-597 USA	Berube	8, 9, 12, 12a, 13, 17	17a - only (Pb, Bi, Te, Ti)
Massachusetts Materials Research, Inc. 1500 Century Drive West Boylston, Massachusetts 01583 USA	Bissell	1, 5, 6, 7, 7a, 7c, 7d, 7e, 7f, 7h, 8, 9, 12, 12a, 13, 30	
MB Aerospace Technologies Sp. Z o.o. Plant 1 Poland	Skoczylas	5, 7, 7d, 7e, 7f, 7h, 11	7i - only PWC
Metals Technology Inc. 19801 Nordoff Street Northridge, California 91324 USA	Kirilov	1, 2, 3, 4, 5, 6, 7, 7a, 7c, 7g, 7h, 9, 11, 12, 12a, 13, 20a, 30, 32	17a - only (Pb, Bi, Wrought Alloys only)
Northern Analytical Laboratory, Inc 13 Delta Dr. Unit #4 Londonderry, NH 03053 USA	Berube	24	
NSL Analytical Services Inc. 4450 Cranwood Parkway Cleveland, Ohio 44128 USA	Viau	8, 9, 12, 12a, 13, 14, 17, 18, 24, 28	17a -only (Se, Te)
NSL Metallurgical 4535 Renaissance Pkwy Cleveland, OH 44128 USA	Viau	1, 5, 6, 7, 7g, 7h, 11, 13, 23	
Omega Research Inc. 1205 Texas Star, Parkway Euless Texas, 76040 USA	Farmer	5, 10, 35	
Pratt & Whitney Rzeszów S.A. Hetmanska 120 Rzeszow, Poland 35-959	Kobylarz	1, 3, 4, 5, 7, 7a, 7b, 7c, 7d, 7e 7f, 7h, 7i, 8, 10, 23, 29	

Continues on next page



GO BEYOND

MATERIALS CONTROL LABORATORY MANUAL

Section: App. 56
Issued: 12/15/69
Revision #: AC
Revised Date: 11/07/22
Page 9 of 13

TABLE I

COMMERCIAL LABORATORIES	SMC	TYPE OF TESTING (See TABLE II of TEST CODES)	
		Approved Testing	Limited Testing
Product Evaluation Systems Inc. 637 Donohoe Rd. Latrobe, PA 15650 USA	Maurice	1, 2, 3, 5, 6, 7, 7a, 7c, 9, 11, 12, 12a, 20b, 21	
R&D Laboratory for Aerospace Materials Rzeszow University of Technology Ul. W.Pola 2 Rzeszow, Poland 35-959	Kobylarz	1, 2, 3, 5, 7, 7a, 9, 29	
RTM Breda S.r.l. Via Biancge 18 Carre' (VI) Italy 36010	Nykles	1, 2, 3, 5, 7, 7a, 9	
Singapore Test Services PTE Ltd. 249 Jalan Boon Lay Jurong Town, Singapore 619523	Na	8, 9	
Sturbridge Metallurgical Services (SMS), Inc. 8 Picker Road P.O. Box 704 Sturbridge, MA 01566	Bissell	7, 7a, 7c, 7e, 7f	
Westmoreland Mechanical Testing & Research Inc P.O. Box 388 Youngstown, Pennsylvania 15696 USA	Maurice	1, 2, 3, 4, 5, 6, 7, 7a, 7f, 9, 11, 12, 12a, 13, 17, 20b, 21, 31, 33, 34	

Pratt & Whitney Proprietary - Subject to the restriction on the title or cover page



MATERIALS CONTROL LABORATORY MANUAL

Section: App. 56
 Issued: 12/15/69
 Revision #: AC
 Revised Date: 11/07/22
 Page 10 of 13

TABLE II

Specific Test Codes	Testing Description Yellow highlighted fields require proficiency testing per MCLM F23
1	Tensile, Room Temperature
2	Tensile, Elevated Temperature
3	Stress Rupture
4	Creep Rupture
5	Hardness (all hardness not covered by HIM Code 1)
6	Impact
7	Metallographic Examination - Not covered by another suffix (See Note 9)
7-a	ME - Microstructure/Grainsize
7-b	ME - Abusive Machining
7-c	ME - Surface Contamination of Titanium
7-d	ME - Braze
7-e	ME - Weld
7-f	ME - Nonconventional Machining (ECMR, EDMR, LBMR, EBMR, Chem milling)
7-g	ME - Fasteners
7-h	ME - Heat Treat
7-i	ME - Coatings (Vapor/Pack/Thermal)
7-k	ME - Non-Metallic Macro/Microscopic Evaluation
8	Wet Chemical Analysis (See Note 2)
9	OES Quantitative Spectrographic Analysis (See Notes 3, 4, & 5)
10	Salt Spray
11	Heat Treating (to condition lab specimens)
12	Gas Analysis - Combustion (C, S)
12-a	Gas Analysis - Inert Gas Fusion O-Oxygen, N-Nitrogen, H-Hydrogen
13	Semi-quantitative Analysis (See Note 1)
14	Sieve Analysis
15	Plastics (See Note 8)
16	Rubber Materials including Polymers (See Note 8)

Continues on next page



MATERIALS CONTROL LABORATORY MANUAL

Section: App. 56
 Issued: 12/15/69
 Revision #: AC
 Revised Date: 11/07/22
 Page 11 of 13

TABLE II	
Specific Test Codes	Testing Description Yellow highlighted fields require proficiency testing per MCLM F23
17	Atomic Absorption (See Notes 5 & 6)
17-a	AA - Tramp Elements (See Notes 5 & 6)
18	XRF Quantitative Spectrographic Analysis - All Others (See Notes 4 & 5)
19	XRD (see Note 7)
20a	Fastener Fatigue
20b	Low Cycle Fatigue
21	Fracture Toughness
23	Microscopic Contamination Analysis-SEM
24	Mass Spectroscopy(See Note 11)
25	NonMetallics - Tensile/Compressive
26	NonMetallics -Uncured Properties
27	NonMetallics - Flex/Short Beam
28	Particles Size Distribution - Laser Light Scattering
29	EDS, EDX or SBS on SEM (semi-quantitative)
30	Tensile, Cryogenic
31	Cryogenic, Coefficient of Thermal Expansion
32	Humid Stress Rupture
33	RT and ET - Coefficient of Thermal Expansion
34	Thermal Conductivity - Metal
35	Plating Embrittlement
36	Residual Stress Measurement for Low Plasticity Burnishing (see Note 10)
37	Hardenability on Disc & Jominy
38	Stress Corrosion (See Note 12)

Pratt & Whitney Proprietary - Subject to the restriction on the title or cover page



MATERIALS CONTROL LABORATORY MANUAL

Section: App. 56
Issued: 12/15/69
Revision #: AC
Revised Date: 11/07/22
Page 12 of 13

Notes:

1. P&W defines semi-quantitative spectrographic analysis as "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".
2. P&W defines wet chemical analysis as "gravimetric or titrametric analysis" for the determination of metallic components. This is not process solution chemistry.
3. ICP, DCP, Direct Reader.
4. P&W defines quantitative analysis as "utilization of a least squares calibration curve".
5. Code numbers with an element suffix (e.g.; 17Pb) designate qualification for analysis of that element on cast turbine airfoil alloys by the specified test method.
6. The letter "C" suffix to Code 17 (Atomic Absorption) also designates qualification for residual cerrobend analysis in hollow core blades and vanes.
7. The letter "R" suffix to Code 19 (XRD) also designates qualification for retained austenite.
8. Qualification for Codes 15 and 16 is not required for simple identification tests such as those listed in MCL Manual Section S-8.
9. Code 7 does not include metallographic examination of thermal spray coatings, pack process diffusion coatings, plasma or vapor deposition coatings at qualified commercial laboratories.
10. The letter "R" indicates the Ring Core Method, "S" indicates Slotting Method, "X" indicates XRD Method.
11. Calibration per note 4 does not apply. Analysis is limited to concentrations of 10ppm and below. Analyses above this level may be approved by the cognizant SMCS on a case by case, element specific basis. The letter "G" suffix to Code 24 indicates the glow discharge (GSMS) method. The letter "I" suffix to Code 24 indicates the ICP (ICP-MS) method.
12. The letter "P" indicates E-205 and the letter "A" indicates ASTM F 945.



MATERIALS CONTROL LABORATORY MANUAL

Section: App. 56
Issued: 12/15/69
Revision #: AC
Revised Date: 11/07/22
Page 13 of 13

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 SMC names to ATI Wah Chang, Atlas Testing Labs, Dickson Testing, CMI, Dirats, Eaton Aerospace Laboratories, Element Materials Technology – Cleveland, Element Materials Technology – Duarte, Element Materials Technology – Fairfield, Element Materials Technology. - Glendale Heights Lab, Element Materials Technology Monterray, Element Materials Technology - New Berlin, FMI Chemicals, Hill Engineering, IMR Portland, IMR Louisville, IMR NY, Joilet, NSL Analytical Services Inc., NSL Metallurgical, MMR, Omega, Product Evaluations, Sturbridge Metallurgical, Westmoreland
- Added code 2 to IMR Test Labs in Table I
- Added code 29 to R&D Lab in Table I
- Revise code 5 in Table II

*** End of Document ***