

# ***Specification Revision List***

***January 15, 2025***



***Pratt & Whitney***

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Excel version of this document: (Internal P&W Access only) PW Supplier Portal

[https://pwportal.prattwhitney.com/procurement/srl\\_current.xlsx](https://pwportal.prattwhitney.com/procurement/srl_current.xlsx)

**Updated Quarterly - January, April, July, October**

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East Hartford, CT 06118

## **ATTENTION: QUALITY ASSURANCE MANAGER**

### **\*\* PRATT & WHITNEY SPECIFICATION REVISION LIST \*\***

The Pratt & Whitney (P&W) "Specification Revision List" (SRL) documents the latest revision status of P&W specifications and Materials Control Laboratory (MCL) Manual Sections in effect as of the publication date. Purchase orders/Schedule Agreements establish the required issue of the P&W SRL. Industry Standards, Military Specifications, Aerospace Material Specifications (AS, MS, AMS, etc.) and other non-P&W documents in effect at the date of the Purchase Order/Schedule Agreement apply.

Suppliers are required by P&W Specification ASQR-01, "Aerospace Supplier Quality Requirements," to establish and maintain a system for the control of specifications and other applicable data as stipulated on the P&W Purchase Order/Schedule Agreement, to ensure that articles for P&W are processed in accordance with P&W requirements.

Suppliers are not required to comply with subsequently published new or revised specifications (i.e. P&W, AMS etc.) or MCL Manual Sections except as reflected by a change in the purchase order/schedule agreement. Suppliers may, at their option, work to later specification or MCL Manual Section revisions, provided there are no increases to the purchase order price.

DIRECT ANY REQUESTS FOR DOCUMENTS TO YOUR RESPONSIBLE PROCUREMENT AGENT, USING  
THE SPECIFICATION REQUISITION FORM

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[Pratt & Whitney](#)

[ASME](#)

[SAE, AMS, AS, ARP, AIR](#)

[ANSI](#)

<https://pwportal.prattwhitney.com/procurement/SitePages/Home.aspx>

<https://prattwhitney.com>

<https://www.asme.org/>

<https://www.sae.org/>

<https://www.ansi.org/>

**Revision Date 01/2025**

**Updated Quarterly - January, April, July, October**

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**USE INSTRUCTIONS BELOW WHEN REQUESTING MCL MANUAL SECTIONS  
FORM MCL M650 NO LONGER UTILIZED.**

**\*Requests for MCL Manual Sections**

Suppliers must contact P&W Procurement/Purchasing Buyer through the eSRI System, in order to request the latest requests for Materials Control (MCL) Laboratory Manual Sections from U.S. incorporated suppliers (non-foreign owned) within the United States.

All requests from foreign concerns are also to be directed to P&W Procurement/Purchasing Buyer.

**Requests for Non Destructive Test (NDT) Manual Appendix and Sections**

Contact P&W Procurement/Purchasing Buyer

**\* Revised Since Previous Edition of 1/20/14**

Rev: 1/2013 to add EAR/ITAR statement

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**SPECIFICATION REQUISITION**

P&W specifications are available to our suppliers based on VALID REQUIREMENTS. Those requirements consist of specifications imposed at the PURCHASE ORDER/SCHEDULE AGREEMENTS and/or QUOTATION level. In order to help us expedite your request for specifications, you must provide the specific specifications required, with associated Material/Part Number(s) and/or Schedule Agreement/Purchase Orders(s), Quote Number(s). Specification requests are made through using the eSRI system in the Pratt & Whitney Supplier Portal. For additional information on Supplier Access to Pratt & Whitney Online Services, please contact your Pratt & Whitney Buyer.

**Below is the form that some use in conjunction with the eSRI system while waiting for access to the Supplier Portal.**  
REQUESTS MUST BE FORWARDED DIRECTLY TO COGNIZANT PROCUREMENT BUYER WHO WILL FILL REQUEST OR COORDINATE WITH APPROPRIATE AREA.

**REQUESTER INFORMATION**

P&W BUYER/CODE \_\_\_\_\_  
SUPPLIER CODE \_\_\_\_\_  
NAME / PHONE \_\_\_\_\_  
COMPANY NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY, STATE, ZIP \_\_\_\_\_

| SPECIFICATION # | P&W PART/MATERIAL NUMBER | PW PO/SA/QUOTE# |
|-----------------|--------------------------|-----------------|
|                 |                          |                 |
|                 |                          |                 |
|                 |                          |                 |
|                 |                          |                 |

Rev Date: 01/2013 to add EAR/ITAR statement  
Rev Date: 04/2015 to update with eSRI Process through Supplier Portal

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**P&W Component Calibration Schedules - (CCS)/(CCS-F)**

**P&W Component Calibration Schedules - (CCS)**

|       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|
|       | 20B   | 21    | 24    | 33A   | 34A   |
| 37    | 38    | 44    | 45    | 48A   | 49    |
| 61    | 62    | 64    | 70A   | 71A   | 72A   |
| 78    | 80A   | 81    | 91    | 93    | 94    |
| 95    | 101   | 107   | 116   | 125   | 126   |
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| 159   | 164   | 167   | 174A  | 176A  | 179   |
| 180A  | 186A  | 187   | 188   | 190A  | 194   |
| 195A  | 199A  | 200   | 201D  | 203F  | 213   |
| 215   | 216C  | 217   | 219A  | 223A  | 224   |
| 225   | 226A  | 0228B | 229   | 231   | 232B  |
| 233A  | 240   | 244A  | 245   | 246   | 249   |
| 257   | 265   | 266   | 268   | 269B  | 271E  |
| 273   | 277D  | 278F  | 280C  | 281A  | 282   |
| 283   | 284A  | 290   | 291   | 292A  | 293B  |
| 294A  | 297A  | 303   | 305   | 306   | 308   |
| 326B  | 335A  | 338D  | 344A  | 345B  | 350   |
| 360   | 363   | 365A  | 369   | 375   | 376   |
| 377   | 378   | 380   | 382D  | 383   | 385   |
| 386   | 389A  | 390   | 391   | 392   | 393   |
| 395C  | 401   | 402A  | 403   | 407F  | 412   |
| 427   | 431   | 433   | 437   | 440   | 441   |
| 442   | 444   | 448   | 454   | 455   | 461   |
| 464   | 467   | 469   | 470   | 471   | 472   |
| 485   | 486   | 490   | 495   | 496   | 497   |
| 498A  | 505   | 508   | 509   | 511   | 513   |
| 515B  | 521   | 525   | 528B  | 529   | 532   |
| 541H  | 542   | 543A  | 547A  | 560   | 562K  |
| 563   | 566   | 568   | 571A  | 573C  | 574D  |
| 577   | 585   | 587   | 588   | 589   | 590   |
| 595A  | 597   | 599   | 608G  | 610H  | 615A  |
| 630   | 634   | 635   | 639A  | 640   | 644K  |
| 645   | 649   | 650   | 652   | 662   | 664   |
| 665   | 666   | 674   | 675   | 677   | 678F  |
| 679C  | 682   | 683   | 684B  | 685C  | 687   |
| 689   | 695   | 696A  | 702   | 705   | 710H  |
| 712   | 716   | 717   | 723   | 724   | 725   |
| 736   | 741E  | 752   | 753A  | 756   | 759   |
| 761B  | 762   | 769   | 771   | 772   | 774   |
| 775   | 778A  | 785   | 787   | 788   | 792B  |
| 793   | 797   | 798J  | 802D  | 803   | 804   |
| 805A  | 807   | 808A  | 810   | 817   | 820   |
| 822   | 824A  | 825A  | 833   | 834B  | 835G  |
| 836   | 839C  | 840   | 841B  | 844G  | 845   |
| 846   | 848   | 850   | 852   | 853   | 855   |
| 856   | 857C  | 858B  | 859G  | 861B  | 866A  |
| 867   | 870   | 871   | 872D  | 873   | 877   |
| 881   | 886   | 887A  | 889   | 890   | 891   |
| 892B  | 895A  | 897   | 899D  | 902   | 904A  |
| 906   | 908   | 911A  | 912   | 914A  | 915   |
| 916D  | 917E  | 918B  | 919   | 921   | 922A  |
| 923   | 924   | 925   | 926A  | 928C  | 930B  |
| 931A  | 932   | 946   | 947A  | 948   | 949B  |
| 951   | 953A  | 957C  | 958B  | 959E  | 963   |
| 964   | 965B  | 966J  | 967E  | 969A  | 970   |
| 971   | 972   | 975   | 976A  | 977   | 978   |
| 979   | 980   | 981   | 983   | 984   | 985   |
| 997D  | 998A  | 999B  | 1000C | 1001  | 1006C |
| 1010B | 1011  | 1012  | 1013B | 1014  | 1016C |
| 1018A | 1019  | 1021  | 1022C | 1024A | 1025A |
| 1026B | 1027  | 1028  | 1030  | 1031  | 1032  |
| 1034F | 1036C | 1037C | 1038D | 1041C | 1042C |
| 1043C | 1045  | 1052  | 1054  | 1055C | 1056D |
| 1057  | 1061C | 1062A | 1065  | 1071  | 1073B |
| 1074C | 1075C | 1076A | 1077  | 1079A | 1080B |
| 1081E | 1082G | 1084  | 1085B | 1087  | 1088F |
| 1089B | 1090  | 1091  | 1092B | 1093  | 1094E |
| 1095B | 1096C | 1097  | 1099F | 1100D | 1101A |
| 1104  | 1105  | 1106C | 1107D | 1108A | 1109B |
| 1110D | 1111A | 1112  | 1113A | 1114A | 1115  |
| 1116  | 1117  |       |       |       |       |

**CCS-F**

| CCS-F | #     | REVISION  |
|-------|-------|-----------|
| CCS-F | +0064 | B         |
| CCS-F | +0077 | SEE APP F |
| CCS-F | +0121 | B         |
| CCS-F | +0125 | --        |
| CCS-F | +0126 | --        |
| CCS-F | +0127 | --        |
| CCS-F | +0128 | --        |
| CCS-F | +0129 | --        |
| CCS-F | +0130 | --        |
| CCS-F | +0131 | A         |
| CCS-F | +0132 | --        |
| CCS-F | +0133 | A         |
| CCS-F | +0134 | --        |
| CCS-F | +0135 | --        |
| CCS-F | +0136 | --        |
| CCS-F | +0154 | --        |
| CCS-F | +0155 | A         |
| CCS-F | +0156 | --        |
| CCS-F | +0157 | A         |
| CCS-F | +0158 | --        |
| CCS-F | +0184 | A         |
| CCS-F | +0186 | --        |
| CCS-F | +0188 | B         |
| CCS-F | +0192 | D         |
| CCS-F | +0195 | --        |
| CCS-F | +0204 | A         |
| CCS-F | +0206 | --        |
| CCS-F | +0207 | C         |
| CCS-F | +0208 | --        |
| CCS-F | +0209 | A         |
| CCS-F | +0210 | A         |
| CCS-F | +0211 | --        |
| CCS-F | +0215 | --        |

\* Revised Since Previous Edition of 10/17/2024

+ Added Since Previous Edition of 10/17/2024

Revision Date 01/2025

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**MCL NDT Manual Appendix & Sections**

\* Revised Since Previous Edition of 10/17/2024

+ Added Since Previous Edition of 10/17/2024

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**Non Destructive Test (NDT)**  
**Appendix A**

| Appendix Listing & Revisions                     |                                | Effective Date  |
|--|--------------------------------|-----------------|
| <b>Suppliers may receive copies as requested</b> |                                |                 |
|  | Appendix A (J)                 | 10/01/19        |
| *  | <b>Section I (AD)</b>          | <b>10/16/24</b> |
| *  | <b>Section II (AD)</b>         | <b>10/16/24</b> |
|  | Section V (AE)                 | 09/04/24        |
| *  | <b>Section IX (Y)</b>          | <b>10/16/24</b> |
|  | Section X (P)                  | 08/05/24        |
|  | Section XIV (M)                | 08/05/24        |
|  | Section XVI (E)                | 08/05/24        |
| *  | <b>Appendix A Restrictions</b> | <b>10/16/24</b> |

**Qualification Specifications**

| Procedure Number |            | Effective Date  |
|------------------|------------|-----------------|
|                  | ASQ        | 06/11/24        |
| *                | <b>BSQ</b> | <b>12/24/24</b> |
|                  | SLQ        | 07/13/22        |
|                  | NDTQ       | 01/22/24        |

**MCL NDT Manual**  
**ADIM - Abradable Density Inspection Method**

| Method Specifications & Revisions |          | Revision Date |
|-----------------------------------|----------|---------------|
|                                   | ADIM (C) | 09/24/19      |

**MCL NDT Manual**  
**ARTM - Airflow Resistance Test Method**

| Method Specifications & Revisions |          | Revision Date |
|-----------------------------------|----------|---------------|
|                                   | ARTM (E) | 16-Mar-2015   |

**MCL NDT Manual**  
**ATTM - Alloy Type Test Methods**

| Method Specifications & Revisions |                      | Revision Date |
|-----------------------------------|----------------------|---------------|
|                                   | ATTM Master (F)      | 07/06/11      |
|                                   | ATTM Master Supp (E) | 07/06/11      |

**MCL NDT Manual**  
**BPTM - Burst Pressure Test Method**

| Method Specifications & Revisions |            | Revision Date |
|-----------------------------------|------------|---------------|
|                                   | BPTM-1 (A) | 09/30/11      |

[MCL NDT Manual](#)  
[BRM - Balancing Requirement Methods](#)

|  | Method Specifications & Revisions | Revision Date |
|--|-----------------------------------|---------------|
|  | BRM Master (D)                    | 10/1/2018     |
|  | BRM-3 (C)                         | 1/9/2014      |
|  | BRM-4 (B)                         | 12/14/2017    |
|  | BRM-4 (C) Alternate               | 1/19/2017     |
|  | BRM-5 (C)                         | 4/24/2024     |
|  | BRM-7 (--)                        | 3/24/2021     |
|  | BRM-8 (B)                         | 7/30/2019     |

[MCL NDT Manual](#)  
[BTM - Bond Test Methods](#)

|  | Method Specifications & Revisions | Revision Date |
|--|-----------------------------------|---------------|
|  | BTM-1 (E)                         | 3/8/2011      |
|  | BTM-2 (J)                         | 2/16/2017     |
|  | BTM-3 (D)                         | 1/9/2014      |
|  | BTM-4 (J)                         | 09/10/24      |
|  | BTM-7 (E)                         | 3/8/2011      |
|  | BTM-9 (D)                         | 3/8/2011      |
|  | BTM-11 (I)                        | 3/8/2011      |
|  | BTM-13 (H)                        | 3/8/2011      |
|  | BTM-14 (C)                        | 3/8/2011      |
|  | BTM-15 (C)                        | 3/8/2011      |
|  | BTM-16 (B)                        | 5/16/2017     |
|  | BTM-18 (C)                        | 8/18/2022     |
|  | BTM-19 (A)                        | 8/18/2022     |
|  | BTM-20 (A)                        | 5/1/2018      |

[MCL NDT Manual](#)  
[CDM - Contamination Detection Methods](#)

|  | Method Specifications & Revisions | Revision Date |
|--|-----------------------------------|---------------|
|  | CDM-2 (F)                         | 3/8/2011      |
|  | CDM-3 (D)                         | 3/8/2011      |
|  | CDM-5                             | 6/14/2017     |

[MCL NDT Manual](#)  
[CTM - Computed Tomography Method](#)

|  | Method Specifications & Revisions | Revision Date |
|--|-----------------------------------|---------------|
|  | CTM Master (H)                    | 04/22/20      |

[MCL NDT Manual](#)  
[CVM - Crystal Verification Methods](#)

|  | Method Specifications & Revisions | Revision Date |
|--|-----------------------------------|---------------|
|  | CVM-1 Master (B)                  | 09/26/11      |
|  | CVM-1 Code 1 (B)                  | 09/26/11      |
|  | CVM-2 (G)                         | 01/28/13      |
|  | CVM-3 (A)                         | 09/26/11      |



[MCL NDT Manual](#)  
[DCM - Dimensional Characteristic Methods](#)

|  | Method Specifications & Revisions | Revision Date |
|--|-----------------------------------|---------------|
|  | DCM-2 (C)                         | 08/30/11      |
|  | DCM-5 (B)                         | 10/24/11      |
|  | DCM-8 (A)                         | 09/12/11      |
|  | DCM-8-2 (D)                       | 09/12/11      |

[MCL NDT Manual](#)  
[DRM - Digital Radiography Method](#)

|   | Method Specifications & Revisions | Revision Date |
|---|-----------------------------------|---------------|
| + | DRM Master (E)                    | 06/07/23      |

[MCL NDT Manual](#)  
[ECM - Eddy Current Methods](#)

|   | Method Specifications & Revisions | Revision Date |
|---|-----------------------------------|---------------|
|   | ECM Master (K)                    | 5/16/2018     |
|   | ECM Code 1 (B)                    | 03/08/11      |
|   | ECM Code 2 (B)                    | 03/08/11      |
|   | ECM Code 3 (B)                    | 03/08/11      |
|   | ECM Code 4 (C)                    | 03/08/11      |
|   | ECM Code 5 (E)                    | 03/08/11      |
|   | ECM Code 6 (Initial Issue)        | 02/17/23      |
| + | ECM Code 7 (Initial Issue)        | 12/24/24      |

[MCL NDT Manual](#)  
[EIM - Etch Inspection Methods](#)

|  | Method Specifications & Revisions | Revision Date |
|--|-----------------------------------|---------------|
|  | EIM Master (J)                    | 1/8/2016      |
|  | EIM Master Supp. (K)              | 1/22/2024     |
|  | EIM Code 1 (C)                    | 8/6/2014      |
|  | EIM Code 2 (P)                    | 5/11/2016     |
|  | EIM Code 3 (G)                    | 1/9/2024      |
|  | EIM Code 4 (F)                    | 3/31/2011     |
|  | EIM Code 5 (D)                    | 3/31/2011     |
|  | EIM Code 7 (C)                    | 8/6/2014      |
|  | EIM Code 8 (D)                    | 5/11/2016     |

[MCL NDT Manual](#)  
[FDM - Frequency Determination Methods](#)

|  | Method Specifications & Revisions | Revision Date |
|--|-----------------------------------|---------------|
|  | FDM-2 (E)                         | 9-Jan-2014    |
|  | FDM-3 (B)                         | 10-Jan-2014   |
|  | FDM-4 (C)                         | 11-Jun-2015   |
|  | FDM-5 (B)                         | 10-Jan-2014   |

[MCL NDT Manual](#)  
[FPM - Fluorescent Penetrant Methods](#)

|  | Method Specifications & Revisions | Revision Date |
|--|-----------------------------------|---------------|
|--|-----------------------------------|---------------|

MCL NDT Appendix & Sections

|  |                      |             |
|--|----------------------|-------------|
|  | FPM Master (F)       | 01/27/16    |
|  | FPM Master Supp. (K) | 04/17/24    |
|  | FPM Code 1 (E)       | 07/08/11    |
|  | FPM Code 2 (E)       | 07/08/11    |
|  | FPM Code 5 (G)       | 07/08/11    |
|  | FPM Code 7 (C)       | 07/08/11    |
|  | FPM Code 9 (G)       | 30-Jun-2015 |
|  | FPM Code 10 (--)     | 1-Oct-2014  |

[MCL NDT Manual](#)  
[HIM - Hardness Inspection Methods](#)

|  | Method Specifications & Revisions | Revision Date |
|--|-----------------------------------|---------------|
|  | HIM-1 (S)                         | 11/09/11      |
|  | HIM-2 (D)                         | 09/26/11      |
|  | HIM-3 (H)                         | 09/30/11      |

[MCL NDT Manual](#)  
[HTM - Heat Tint Methods](#)

|  | Method Specifications & Revisions | Revision Date |
|--|-----------------------------------|---------------|
|  | HTM-1 (D)                         | 3-Jun-2014    |
|  | HTM-2 (D)                         | 3-Jun-2014    |
|  | HTM-3 (G)                         | 3-Jun-2014    |
|  | HTM-3 (G) REDACTED                | 3-Jun-2014    |

[MCL NDT Manual](#)  
[IE-VIM - Industrial Engines Visual Inspection Method](#)

|  | Method Specifications & Revisions | Revision Date |
|--|-----------------------------------|---------------|
|  | IE-VIM Master                     | 16-Mar-2015   |

[MCL NDT Manual](#)  
[IRM - InfraRed Method](#)

|   | Method Specifications & Revisions | Revision Date   |
|---|-----------------------------------|-----------------|
| + | <b>IRM-Master (Initial Issue)</b> | <b>12/24/24</b> |
|   | IRM-1 (B)                         | 09/30/11        |

[MCL NDT Manual](#)  
[MPM - Magnetic Particle Methods](#)

|  | Method Specifications & Revisions | Revision Date |
|--|-----------------------------------|---------------|
|  | MPM (J)                           | 03/18/16      |
|  | MPM (J) Alternate                 | 04/28/22      |

[MCL NDT Manual](#)  
[NRM - Neutron Radiography Method](#)

|  | Method Specifications & Revisions | Revision Date |
|--|-----------------------------------|---------------|
|  | NRM Master (D)                    | 29-Aug-2018   |

[MCL NDT Manual](#)

MCL NDT Appendix & Sections

[PCM - Process Control Methods](#)

|  | Method Specifications & Revisions | Revision Date |
|--|-----------------------------------|---------------|
|  | PCM-M (A)                         | 09/12/11      |

[MCL NDT Manual](#)  
[PTM - Pressure Test Methods](#)

|  | Method Specifications & Revisions | Revision Date |
|--|-----------------------------------|---------------|
|  | PTM Master (J)                    | 10/24/12      |
|  | PTM Code A (E)                    | 11-Jul-2014   |
|  | PTM Code B (E)                    | 11-Jul-2014   |
|  | PTM Code C (G)                    | 11-Jul-2014   |
|  | PTM Code D (E)                    | 11-Jul-2014   |
|  | PTM Code E (E)                    | 11-Jul-2014   |
|  | PTM-3 (F)                         | 10/24/12      |
|  | PTM-22 (A)                        | 09/13/11      |

[MCL NDT Manual](#)  
[RDM - Radiographic Digitization Method](#)

|  | Method Specifications & Revisions | Revision Date |
|--|-----------------------------------|---------------|
|  | RDM Master (A)                    | 10/05/23      |

[MCL NDT Manual](#)  
[SIM - Sonic Inspection Methods](#)

|   | Method Specifications & Revisions         | Revision Date   |
|---|---|-----------------|
|   | SIM-1 (M)                                 | 09/30/11        |
| * | <b>SIM-1 (M) Alternate</b>                | <b>12/13/24</b> |
| * | <b>SIM-1 (M) AI Alternate</b>             | <b>12/09/24</b> |
|   | SIM-1 Supplement (--)                     | 03/22/24        |
|   | SIM-1 Code 1 (--)                         | 10/27/22        |
|   | SIM-1 Code 45S (B)                        | 07/29/22        |
|   | SIM-2 (M)                                 | 12/02/13        |
|   | SIM-3 (D)                                 | 08/30/11        |
|   | SIM-4 (F)                                 | 11/09/11        |
|   | SIM-11 (F)                                | 05/31/12        |
|   | SIM-12 (A)                                | 05/31/12        |
|   | SIM-13 (B)                                | 08/30/11        |
|   | SIM-14 (A)                                | 07/25/12        |
|   | SIM-15 (A)                                | 08/30/11        |
|   | SIM-16 (C)                                | 26-Jan-2018     |
|   | SIM-17 (B)                                | 05/31/12        |
|   | SIM-21 (A)                                | 08/30/11        |
|   | SIM-45 (--)                               | 05/23/24        |
|   | <b>+ SIM-45 Alternate (Initial Issue)</b> | <b>12/12/24</b> |
|   | SIM-309 (H)                               | 9-Jan-2014      |
|   | SIM-314 (B)                               | 09/26/11        |

[MCL NDT Manual](#)  
[TDM - Thickness Determination Methods](#)

|   | Method Specifications & Revisions | Revision Date    |
|---|-----------------------------------|------------------|
|   | TDM-1 (E)                         | 02/03/12         |
|   | TDM-7 (K)                         | 1-Dec-2018       |
|   | TDM-9 (F)                         | 09/12/11         |
| * | <b>TDM-10 (G)</b>                 | <b>10/4/2024</b> |

MCL NDT Appendix & Sections

|            |             |
|------------|-------------|
| TDM-11 (B) | 23-Jan-2019 |
|------------|-------------|

[UICS-Ultrasonic Inspection of Composite Structures](#)

|      |             |
|------|-------------|
| UICS | 14-Mar-2018 |
|------|-------------|

[MCL NDT Manual](#)  
[VIM - Visual Inspection Method](#)

|  | Method Specifications & Revisions | Revision Date |
|--|-----------------------------------|---------------|
|  | VIM Master (D)                    | 10/24/11      |

[MCL NDT Manual](#)  
[WLM - White Light Methods](#)

|  | Method Specifications & Revisions | Revision Date |
|--|-----------------------------------|---------------|
|  | WLM Master (E)                    | 29-Oct-2018   |
|  | WLM Appendix 1 (A)                | 07/30/12      |
|  | WLM Appendix 2 (B)                | 10-Jan-2014   |
|  | WLM Appendix 3 (B)                | 10-Jan-2014   |
|  | WLM Appendix 4 (A)                | 07/30/12      |
|  | WLM Appendix 5 (B)                | 10-Jan-2014   |
|  | WLM Appendix 6 (A)                | 07/30/12      |
|  | WLM Appendix 7 (A)                | 07/30/12      |
|  | WLM Appendix 9 (A)                | 07/10/24      |
|  | WLM Appendix 40 (--)              | 12/17/13      |
|  | WLM Appendix 41 (--)              | 12/17/13      |

[MCL NDT Manual](#)  
[XRM - X-Ray Methods](#)

|  | Method Specifications & Revisions | Revision Date |
|--|-----------------------------------|---------------|
|  | XRM Master (N)                    | 07/19/22      |
|  | XRM Code 1 (D)                    | 07/21/11      |
|  | XRM Code 3 (F)                    | 15-Oct-2018   |
|  | XRM Code 4 (D)                    | 07/21/11      |
|  | XRM Code 7 (D)                    | 07/21/11      |
|  | XRM Code 8 (D)                    | 07/21/11      |
|  | XRM Code 9 (D)                    | 07/21/11      |

[MCL NDT Manual](#)  
[Cancelled Methods](#)

|  | Method Specifications & Revisions | Revision Date |
|--|-----------------------------------|---------------|
|  | ACDM-301 (A) CANCELED             | 03/05/85      |
|  | ATTM-1 (H) CANCELED               | 10/10/78      |
|  | ATTM-2 (L) CANCELED               | 04/30/82      |
|  | ATTM-3 (H) CANCELED               | 10/10/78      |
|  | ATTM-6 (H) CANCELED               | 04/30/82      |
|  | ATTM-8 (D) CANCELED               | 04/30/82      |
|  | ATTM-9 (C) CANCELED               | 04/30/82      |
|  | ATTM-10 (A) CANCELED              | 04/30/82      |

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| ATTM-201 (B) CANCELED     | 04/15/75    |
| ATTM Code 6 (B) CANCELED  | 12/11/92    |
| ATTM Code 8 (C) CANCELED  | 12/11/92    |
| ATTM Code 9 (B) CANCELED  | 12/11/92    |
| BRM-1 (A) CANCELED        | 04/18/80    |
| BRM-2 (A) CANCELED        | 04/18/80    |
| BRM-4 (D) Alternate       | 20-Jul-2018 |
| BTM-6 (B) CANCELED        | 08/01/01    |
| BTM-7 Code A (A) CANCELED | 06/15/04    |
| BTM-7 Code B (A) CANCELED | 06/15/04    |
| BTM-7 Code C (A) CANCELED | 06/15/04    |
| BTM-7 Code D (A) CANCELED | 06/15/04    |
| BTM-8 (B) CANCELED        | 11/30/82    |
| BTM-10 (A) CANCELED       | 03/05/85    |
| BTM-12 (B) CANCELED       | 09/06/07    |
| CDM-1 (D) CANCELED        | 11/15/84    |
| CDM-4 (E) CANCELED        | 12/10/10    |
| DIM-1 (B) CANCELED        | 03/05/85    |
| DLT Master (C) CANCELLED  | 10/12/22    |
| ECM-1 (A) CANCELED        | 05/19/72    |
| ECM-2 (F) CANCELED        | 08/01/80    |
| ECM-3 (B) CANCELED        | 08/01/80    |
| ECM-4 (A) CANCELED        | 08/01/80    |
| ECM-5 (C) CANCELED        | 08/01/80    |
| ECM-6 (A) CANCELED        | 08/07/85    |
| ECM-331 (A) CANCELED      | 03/31/98    |
| EIM Code 6 (A) CANCELED   | 12/20/93    |
| EIM-1 (Q) CANCELED        | 12/08/86    |
| EIM-2 (M) CANCELED        | 12/08/86    |
| EIM-3 (J) CANCELED        | 12/08/86    |
| EIM-4 (B) CANCELED        | 12/08/86    |
| EIM-5 (H) CANCELED        | 12/08/86    |
| EIM-6 (C) CANCELED        | 12/08/86    |
| EIM-7 (B) CANCELED        | 12/08/86    |
| EIM-8 (A) CANCELED        | 12/08/86    |
| EIM Code 9 (B) CANCELED   | 03/31/11    |
| FDM-1 (A) CANCELED        | 03/05/85    |
| FPM Code 3 (D) CANCELED   | 09/10/10    |
| FPM Code 4 (D) CANCELED   | 07/11/14    |
| FPM Code 6 (B) CANCELED   | 05/12/88    |
| FPM Code 8 (C) CANCELED   | 09/10/10    |
| FPM (B) CANCELED          | 07/19/85    |
| FPM-1 (M) CANCELED        | 07/25/75    |
| FPM-2 (P) CANCELED        | 07/25/75    |
| FPM-3 (N) CANCELED        | 07/25/75    |
| FPM-4 (G) CANCELED        | 04/04/89    |
| FPM-5 (J) CANCELED        | 07/25/75    |
| FPM-6 (A) CANCELED        | 07/25/75    |
| FTM - 204 Chg. 4 CANCELED | 03/31/98    |
| GIM-206 (A) CANCELED      | 03/05/85    |
| GSDM (A) CANCELED         | 03/08/11    |
| GSDM Supp. (A) CANCELED   | 03/08/11    |
| HCM-1 (G) CANCELED        | 08/01/77    |
| HTM-4 (A) CANCELED        | 11/21/88    |
| LTM-1 (A) CANCELED        | 03/05/85    |
| MPM Supp. (A) CANCELED    | 05/20/86    |
| MSTM-1 (B) CANCELED       | 06/07/72    |

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| PCM (A) CANCELED                     | 03/05/85 |
| PS-VIM Master (A) CANCELED           | 03/16/15 |
| PTFM-201 (A) CANCELED                | 03/30/98 |
| PTFM-202 (A) CANCELED                | 03/30/98 |
| PTM-1 (M) CANCELED                   | 05/31/88 |
| PTM-2 (H) CANCELED                   | 07/16/75 |
| PTM Code F (D) CANCELED              | 07/11/14 |
| PTM-201 (F) CANCELED                 | 07/26/89 |
| RAM-2 (A) CANCELED                   | 10/10/91 |
| SIM-5 (A) CANCELED                   | 02/22/72 |
| SIM-6 (A) CANCELED                   | 08/16/73 |
| SIM-7 (A) CANCELED                   | 10/01/73 |
| SIM-8 (A) CANCELED                   | 06/15/73 |
| SIM-301 (B) CANCELED                 | 03/31/98 |
| SIM-304 (A) CANCELED                 | 09/14/73 |
| SIM-305 (A) CANCELED                 | 09/14/73 |
| SIM-308 (C) CANCELED                 | 03/31/98 |
| SIM-310 (B) CANCELED                 | 11/30/88 |
| SIM-311 (A) CANCELED                 | 11/30/88 |
| SIM-312 (A) CANCELED                 | 07/09/74 |
| SIM-313 (A) CANCELED                 | 03/05/85 |
| TDM-2 (E) CANCELED                   | 02/14/80 |
| TDM-3 (C) CANCELED                   | 10/10/78 |
| TDM-4 (B) CANCELED                   | 10/10/78 |
| TDM-6 (F) CANCELED                   | 06/26/92 |
| TDM-8 (D) CANCELED                   | 08/08/85 |
| TDM-10 Supp. (A) CANCELED            | 06/18/10 |
| TDM-10 Master (A) CANCELED           | 08/08/85 |
| TDM-10 Code 1 (A) CANCELED           | 08/08/85 |
| TTIM-1 (C) CANCELED                  | 02/20/92 |
| XRM Code 2 (B) CANCELED              | 08/06/85 |
| XRM Code 5 (B) CANCELED              | 08/06/85 |
| XRM Code 6 (B) CANCELED              | 08/06/85 |
| XRM Code 10 (B) CANCELED             | 04/15/98 |
| XRM Supp. 1 (A) CANCELED             | 08/06/85 |
| XRM Master Supplement 2 (H) CANCELED | 08/06/14 |
| XRM-1 (Q) CANCELED                   | 11/30/77 |
| XRM-2 (C) CANCELED                   | 11/22/11 |
| XRM-3 (A) CANCELED                   | 02/04/72 |
| XRM-4 (A) CANCELED                   | 02/08/72 |
| XRM-5 (C) CANCELED                   | 11/30/77 |
| XRM-6 (A) CANCELED                   | 02/04/72 |
| XRM-7 (A) CANCELED                   | 02/04/72 |
| XRM-301 (A) CANCELED                 | 03/05/85 |

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| SECTION  | REV. DATE                               |
|--|---|
| Preface  | 09/08/2021 (C)                          |
| * Source Qualification List Cover                                  | 12/12/24 (CB)                           |
| APU SQ List Cover  | 02/06/24 (W)                            |
| Volume IV Contents   | Cancelled 9/15/11                       |
| Volume IV-D Contents   | Cancelled 9/15/11                       |
| Source Qualification List  | 2/19/2016                               |
| P&W Rocketdyne Source Qualification List-(updated monthly=&)       | 10/28/2011- document has been cancelled |
| Sensitive Index  | 4/1/2011- document has been cancelled   |
| All Purchased Parts Suppliers (cancelled & incorporated into F-17) | Removed                                 |

Laboratory Control Space Shuttle  
Main Engine (SSME)  
Turbo pump Parts & Materials

Current Revisions for SSME F-54 Addenda Reside  
in the "Rocket Engineering Instruction (REI)"  
section of the Homepage.

**APPENDIX – SECTIONS**

| SECTION          | REV. DATE  |
|------------------|--|
| App Contents     | Removed  |
| App 29 Cancelled | 7/21/2009  |
| App 32           | 10/14/20 (F)   |
| App 35           | 05/30/19 (C)   |
| App 36           | 01/12/24 (AT)  |
| App 43 Cancelled | 2/5/2010   |
| App 52           | 3/15/2012 TRANSFERRED OUT: Materials for Use in Liquid Oxygen System |
| App 56           | 01/30/24 (AD)  |
| App 60           | 06/09/20 (B)   |
| App 61 Cancelled | Cancelled 9/8/2009   |
| App 63 Cancelled | Cancelled 7/22/2009  |
| App 65 Cancelled | Cancelled 4/2/2009   |
| App 68 Cancelled | Removed  |
| App 69 Cancelled | Cancelled 6/1/2009   |
| App 72 Cancelled | Cancelled 7/16/2009  |

**A - SECTIONS  
Laboratory Controls for  
Product and Product-Related Material**

| SECTION        | REV. DATE   |
|----------------|---|
| A Contents     | Removed   |
| A-1            | 06/08/22 (G)  |
| A-2            | 06/09/22 (E)  |
| A-2 Supp A     | 3/15/2012 - Transferred Out - Resides in Florida not MCL(QSL) out |
| * A-3          | 12/17/24 (H)  |
| A-4            | 10/03/22 (E)  |
| A-4 Supp 1     | 09/14/17 (C)  |
| A-4 Supp 2     | 03/13/18 (A)  |
| A-4 Supp 3A    | 05/10/18 (A)  |
| A-4 Supp 3B    | 05/10/18 (A)  |
| A-4 Supp 3C    | 05/10/18 (A)  |
| A-4 Supp 3D    | 2/13/13 - Transferred Out - Resides in Florida not MCL(QSL)       |
| A-4 Supp 4     | 11/12/18 (A)  |
| A-5            | 11/27/18 (A)  |
| A-6            | 05/30/17 (A)  |
| A-6 Supp A     | 03/27/18 (B)  |
| A-6 Supp B     | 03/23/18 (A)  |
| A-6 Supp C     | 08/10/18 (A)  |
| A-6 Supp D     | 10/03/18 (C)  |
| A-6 Supp E     | 05/20/20 (C)  |
| A-6 Supp F     | 09/11/18 (C)  |
| A-6 Supp G     | 10/16/18 (A)  |
| A-6 Supp H     | 09/11/18 (C)  |
| A-6 Supp I     | 11/17/16 (F)  |
| A-6 Supp K     | 03/28/18 (B)  |
| A-7            | 07/24/18 (C)  |
| A-8            | 03/08/24 (D)  |
| A-9            | 06/09/22 (D)  |
| A-10 Cancelled | Cancelled 3/7/2012  |
| A-10 Supp A    | 11/03/22 (J)  |
| A-10 Supp B    | 03/12/21 (D)  |
| A-10 Supp C    | 08/05/18 (C)  |

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|-----------------------|--|
| A-13 Cancelled        | Cancelled 8/26/2009  |
| A-13 Supp A Cancelled | Cancelled 8/26/2009  |
| A-19                  | 06/25/20 (A)   |
| A-100                 | 3/15/12 -Transferred Out -<br>Resides in Florida not<br>MCL(QSL) |

APU - SECTIONS  
Auxiliary Power Unit (APU)  
Standard Work

| SECTION   | REV. DATE    |
|-----------|--------------|
| APU 01-10 | 09/15/21 (C) |

C - SECTIONS  
Material Control Laboratory  
Internal Procedures

| SECTION               | REV. DATE              |
|-----------------------|------------------------|
| C Contents            | Removed                |
| C-1                   | 09/01/17 (E)           |
| C-5                   | 09/13/24 (J)           |
| C-10                  | 07/23/19 (H)           |
| C-10 Supp A           | 09/19/23 (H)           |
| * C-10 Supp B         | 11/18/24 (K)           |
| C-10 Supp C           | 01/10/24 (D)           |
| C-10 Supp D           | 07/09/21 (F)           |
| C-10 Supp F           | 06/02/16 (D)           |
| C-10 Supp G           | 04/16/18 (D)           |
| C-10 Supp H Cancelled | Cancelled 06/16/17 (C) |
| C-10 Supp I           | 1/10/2024 (A)          |
| C-21                  | 06/25/20 (C)           |
| C-39                  | 12/23/16 (D)           |
| C-54                  | 01/25/24 (J)           |
| C-54 Supp A           | 06/16/2021 (A)         |
| C-55                  | 07/27/18 (C)           |
| C-55 Supp A           | 06/15/21 (D)           |
| C-59                  | 06/09/22 (B)           |
| C-65                  | 08/22/18 (A)           |
| C-66                  | 11/04/22 (F)           |
| C-66 Supp A Cancelled | 8/21/2013              |
| C-67                  | 11/11/20 (C)           |
| C-68                  | 11/04/22 (G)           |
| C-68 Supp A Cancelled | Cancelled 10/06/21     |
| C-68 Supp B           | 6/15/2021 (A)          |
| C-69                  | 12/26/17 (A)           |
| C-70                  | Cancelled 7/28/2014    |
| C-70 Supp A Cancelled | Cancelled 5/15/2013    |
| C-71 Cancelled        | Removed                |
| C-72                  | 05/08/24 (D)           |
| C-73                  | 07/26/24 (B)           |
| C-74                  | 06/09/22 (C)           |
| C-75 Cancelled        | Cancelled 4/17/2013    |
| C-76                  | 10/16/18 (A)           |
| C-77                  | 04/24/19               |

E SECTIONS  
General Instructions for  
Mechanical and Metallurgical Test

| SECTION     | REV. DATE    |
|-------------|--------------|
| E-0         | 12/14/23 (D) |
| E-0 Supp A  | 12/10/18 (A) |
| E-0 Supp A1 | 10/17/18 (B) |
| E-0 Supp B  | 03/10/21 (B) |
| E-0 Supp C  | 10/01/18 (A) |
| E-0 Supp C1 | 08/18/20 (C) |
| E-0 Supp D  | 08/31/20 (C) |
| E-0 Supp E  | 10/01/18 (A) |
| E-0 Supp F  | 12/11/19 (B) |

Acceptance Standards

| SECTION                   | REV. DATE           |
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| E Sections Ref. Cancelled | Cancelled 3/11/2009 |
| E-1                       | 12/26/17 (A)        |
| E-2                       | 01/24/18 (A)        |
| E-4                       | 01/22/18 (A)        |
| E-5                       | 09/07/18 (A)        |
| E-6                       | 10/17/18 (A)        |
| E-12                      | 09/11/18 (A)        |
| E-13                      | 09/11/18 (A)        |
| E-14                      | 10/05/18 (A)        |
| E-15                      | 10/05/18 (A)        |
| E-16                      | 10/05/18 (A)        |
| E-18                      | 12/26/17 (A)        |
| E-20                      | 09/25/18 (A)        |
| E-23                      | 09/25/18 (A)        |
| E-24                      | 07/30/20 (C)        |
| E-25                      | 09/25/18 (A)        |
| E-27                      | 03/02/18 (A)        |



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| E-34                   | 09/10/18 (A)            |
| E-38                   | 05/20/18 (A)            |
| E-39                   | 05/21/18 (A)            |
| E-39 Supp A            | 05/21/18 (A)            |
| E-42                   | 05/21/18 (A)            |
| E-43                   | 12/07/22 (C)            |
| E-43 Supp A            | 06/21/23 (C)            |
| E-44                   | 05/21/18 (A)            |
| E-44 Supp A            | 06/21/23 (B)            |
| E-45                   | 10/05/18 (A)            |
| E-46                   | 05/21/18 (A)            |
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| E-52                   | 11/02/18 (B)            |
| E-53                   | 06/11/18 (A)            |
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| E-53 Supp 7            | 06/12/18 (A)            |
| E-53 Supp 10           | 06/13/18 (A)            |
| E-53 Supp 12           | 06/13/18 (A)            |
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| E-53 Supp 18           | 06/15/18 (A)            |
| E-53 Supp 20           | 06/18/18 (A)            |
| E-53 Supp 21           | 06/18/18 (A)            |
| E-53 Supp 22           | 06/18/18 (A)            |
| E-53 Supp 33           | 02/04/19 (A)            |
| E-53 Supp 35           | 06/19/18 (A)            |
| E-53 Supp 37           | 11/05/18 (B)            |
| E-53 Supp 38           | 06/19/18 (A)            |
| E-53 Supp 47           | 06/19/18 (A)            |
| E-53 Supp 72 Cancelled | Removed                 |
| E-53 Supp 69           | 06/19/18 (A)            |
| E-53 Supp 78           | 06/19/18 (A)            |
| E-53 Supp 85           | 07/02/18 (A)            |
| E-54                   | 07/30/20 (D)            |
| E-54 Supp A            | 07/02/18 (A)            |
| E-54 Supp B            | 07/02/18 (A)            |
| E-54 Supp C            | 03/05/19 (C)            |
| E-54 Supp D Cancelled  | Removed                 |
| E-55                   | 07/12/23 (B)            |
| E-56 Inactive          | Inactive 09/13/23 (B)   |
| E-57                   | 08/03/18 (A)            |
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| E-59 Inactive          | 09/01/23 (B)            |
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| E-63 Cancelled         | Removed                 |
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| E-68 Supp A            | 04/04/22 (B)            |
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| E-68 Supp C            | 04/02/20                |
| E-69                   | 08/17/22 (B)            |
| E-71                   | 09/19/18 (A)            |
| * E-72                 | 11/27/2024 (C)          |
| E-72 Supp A            | 09/21/18 (A)            |
| E-72 Supp B            | 03/24/21 (B)            |
| E-72 Supp C            | 07/07/22 (C)            |
| E-72 Supp. E           | 6/10/2022 Initial Issue |
| E-73                   | 11/18/2015 (A)          |
| E-74                   | 09/25/18 (A)            |
| E-75                   | 09/25/18 (A)            |
| E-76                   | 09/25/18 (A)            |
| E-76 Supp A            | 11/18/2015              |
| E-76 Supp B            | 08/21/23 (C)            |
| E-78                   | 05/27/20 (C)            |
| E-78 Supp A            | 09/25/18 (A)            |
| E-78 Supp B            | 09/25/18 (A)            |
| E-78 Supp C            | 06/01/16 (A)            |
| E-78 Supp D            | 11/19/2015              |
| E-85                   | 09/13/18 (B)            |
| E-90                   | 09/25/18 (A)            |
| E-90 Supp A            | 09/25/18 (A)            |
| E-92                   | 09/06/23 (B)            |
| E-95                   | 02/07/18 (A)            |
| E-96                   | 09/26/18 (A)            |
| E-96 Supp. A           | 5/11/2022 Initial Issue |
| E-99                   | 09/27/18 (A)            |
| E-101                  | 02/08/2024 (C)          |
| E-102 Cancelled        | Cancelled 9/2/2008      |
| E-106                  | 09/27/18 (A)            |
| E-107                  | 11/30/22 (C)            |
| E-110                  | 09/12/18 (A)            |

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|------------------------|------------------------|
| E-111                  | 09/06/23 (B)           |
| E-112                  | 06/30/16 (A)           |
| E-112 Supp A           | 09/28/18 (A)           |
| E-113 Cancelled        | Cancelled 11/17/2011   |
| E-115                  | 09/12/18 (A)           |
| E-116                  | 06/21/23 (B)           |
| E-117                  | 09/28/18 (A)           |
| E-117 Supp A           | 11/19/2015             |
| E-117 Supp B           | 09/28/18 (A)           |
| E-117 Supp C           | 03/25/19 (B)           |
| E-117 Supp D           | 11/19/2015             |
| E-118                  | 10/02/18 (A)           |
| E-119                  | 10/02/18 (A)           |
| E-122                  | 09/13/18 (A)           |
| E-124                  | 10/02/18 (A)           |
| E-125                  | 10/03/18 (A)           |
| E-127                  | 10/03/18 (A)           |
| E-128                  | 10/03/18 (A)           |
| E-129 Cancelled        | Cancelled 01/30/19 (B) |
| E-130                  | 10/04/18 (A)           |
| E-131                  | 04/08/19 (B)           |
| E-132                  | 10/04/18 (A)           |
| E-133                  | 10/04/18 (A)           |
| E-134                  | 10/05/18 (A)           |
| E-134 Supp A           | 10/05/18 (B)           |
| E-135 Cancelled        | Cancelled 9/2/2008     |
| E-136                  | 09/07/18 (A)           |
| E-137                  | 10/8/2018 (A)          |
| E-138                  | 10/8/2018 (A)          |
| E-139                  | 08/06/20 (B)           |
| E-140                  | 02/07/18 (A)           |
| E-141                  | 06/21/23 (B)           |
| E-142                  | 07/17/24 (D)           |
| E-142 Supp A           | 05/05/23 (C)           |
| E-142 Supp B Cancelled | Removed                |
| E-143                  | 07/13/23 (B)           |
| E-144 Cancelled        | Removed                |
| E-144 Supp A Cancelled | Removed                |
| E-144 Supp B           | 10/8/2018 (A)          |
| E-145                  | 10/8/2018 (A)          |
| E-146                  | 10/8/2018 (A)          |
| E-147                  | 09/11/23 (D)           |
| E-148                  | 10/9/2018 (A)          |
| E-149 Cancelled        | Cancelled 09/20/18     |
| E-150                  | 09/13/18 (A)           |
| E-151                  | 02/04/19 (A)           |
| E-151 Supp A           | 10/9/2018 (A)          |
| E-151 Supp B           | 10/9/2018 (A)          |
| E-151 Supp C           | 10/9/2018 (A)          |
| E-152                  | 05/17/22 (E)           |
| E-152 Supp A           | 10/9/2018 (A)          |
| E-152 Supp B           | 04/30/19 (B)           |
| E-152 Supp C           | 06/24/20               |
| E-153                  | 10/10/2018 (A)         |
| E-154                  | 10/10/2018 (A)         |
| E-155 Cancelled        | Cancelled 9/2/2008     |
| E-157                  | 10/10/2018 (A)         |
| E-158                  | 06/24/20 (B)           |
| E-159                  | 10/11/18 (A)           |
| E-160                  | 06/03/21 (F)           |
| E-161                  | 08/17/22 (B)           |
| E-161 Supp A           | Cancelled 06/03/2016   |
| E-162                  | 10/11/18 (A)           |
| E-163                  | 10/15/18 (A)           |
| E-164                  | 10/16/18 (A)           |
| E-165                  | 10/16/18 (A)           |
| E-166                  | 01/08/19 (B)           |
| * E-166 Supp A         | 12/03/24 (J)           |
| E-166 Supp B           | 03/29/21 (C)           |
| E-166 Supp C           | 04/12/23 (D)           |
| E-166 Supp D           | 04/23/20 (A)           |
| E-167                  | 07/12/21 (G)           |
| E-167 Supp A           | 03/08/23 (E)           |
| E-168                  | 09/13/18 (B)           |
| E-169                  | 06/22/23 (B)           |
| E-170                  | 10/16/18 (A)           |
| E-170 Supp A           | 09/13/18 (A)           |
| E-170 Supp A           | 9/16/2011              |
| E-170 Supp B           | 10/16/18 (A)           |
| E-171 Cancelled        | 9/2/2008               |
| E-172                  | 10/16/18 (A)           |
| E-173                  | 02/19/18 (A)           |
| E-175                  | 02/04/19 (A)           |
| E-176                  | 05/25/23 (B)           |
| E-178                  | 01/29/19 (B)           |
| E-179                  | 10/17/2018             |
| E-180 Cancelled        | Cancelled 9/2/2008     |
| E-181                  | 05/26/23 (B)           |
| E-182                  | 09/14/18 (B)           |
| E-183                  | 10/17/18 (A)           |

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| E-184                  | 10/17/18 (A)           |
| E-185                  | 10/18/18 (A)           |
| E-185 Supp. A          | 10/18/18 (A)           |
| E-186 Cancelled        | 5/2/2011               |
| E-187                  | 10/18/18 (A)           |
| E-188                  | 10/19/18 (A)           |
| E-189                  | 10/19/18 (A)           |
| E-190                  | 01/28/19 (C)           |
| E-190 Supp A           | 05/26/20 (A)           |
| E-190 Supp B           | 01/28/19 (A)           |
| E-194                  | 10/22/18 (A)           |
| E-195                  | 06/22/23 (B)           |
| E-195 Supp A           | 3/10/2016              |
| E-195 Supp B           | 09/11/24 (B)           |
| E-195 Supp C           | 10/22/18 (A)           |
| E-195 Supp D           | 3/10/2016              |
| E-195 Supp E           | 10/23/18 (A)           |
| E-195 Supp F           | 11/23/2016 (B)         |
| E-196                  | 10/23/18 (B)           |
| E-197 Cancelled        | 5/2/2011               |
| E-199                  | 10/23/18 (B)           |
| E-200                  | 10/23/18 (A)           |
| E-201                  | 06/14/16 (A)           |
| E-202                  | 10/24/18 (A)           |
| E-202 Supp A           | 04/15/19 (A)           |
| E-203                  | 11/05/19 (B)           |
| E-204                  | 10/24/18 (A)           |
| E-205 Full Version     | 12/22/20 (D)           |
| E-205 Redacted Version | 09/10/19 (A)           |
| E-206                  | 10/24/18 (A)           |
| E-207 Cancelled        | Cancelled 06/23/23     |
| E-208                  | 09/13/18 (A)           |
| E-209                  | 10/25/18 (A)           |
| E-210 Cancelled        | Cancelled 09/20/18     |
| E-211 Cancelled        | Cancelled 09/20/18     |
| E-212                  | 11/23/16(A)            |
| E-213                  | 06/22/23 (B)           |
| E-214                  | Cancelled 06/14/2016   |
| E-215 cancelled        | Cancelled 9/30/2011    |
| E-217                  | 10/25/18 (A)           |
| E-218 Supp A           | 01/16/19 (H)           |
|                        | 05/01/2015             |
| E-218 Supp A           |                        |
| E-219 cancelled        | Cancelled 10/28/2011   |
| E-220                  | 08/09/24 (C)           |
| E-221                  | 10/29/18 (A)           |
| E-222                  | 10/29/18 (A)           |
| E-223                  | 11/17/20 (B)           |
| E-224                  | 10/30/18 (A)           |
| E-225                  | 9/17/2024 (B)          |
| E-226                  | 10/30/18 (A)           |
| E-227                  | 10/30/18 (A)           |
| E-228                  | 09/13/18 (A)           |
| E-229                  | 10/30/18 (A)           |
| E-230 Cancelled        | Cancelled 09/20/18     |
| * E-232                | 10/11/24 (F)           |
| E-232                  | 09/01/23 (E)           |
| E-234                  | 02/20/18 (A)           |
| E-235                  | 10/31/18 (A)           |
| E-236                  | 06/14/16 (B)           |
| E-237                  | 06/02/20 (B)           |
| E-238                  | 11/01/18 (A)           |
| E-239                  | 04/26/16 (A)           |
| E-240                  | 08/08/23 (C)           |
| E-241                  | 07/20/23 (B)           |
| E-242                  | 12/14/18 (A)           |
| E-243                  | 07/17/23 (D)           |
| E-243 Supp A           | 03/17/20 (C)           |
| E-244                  | 12/14/18 (A)           |
| E-245                  | 12/14/18 (A)           |
| E-246                  | 11/28/18 (A)           |
| E-248                  | 06/18/20 (B)           |
| E-249                  | 04/25/23 (B)           |
| E-249 Supp A           | 02/05/19 (A)           |
| E-250                  | 02/06/19 (A)           |
| E-251                  | 12/14/18 (A)           |
| E-252                  | 06/25/19 (C)           |
| E-253                  | 01/10/2017 (C )        |
| E-254                  | 12/14/18 (A)           |
| E-255                  | 06/02/23 (B)           |
| E-256                  | 12/14/18 (A)           |
| E-257                  | 12/14/18 (A)           |
| E-258                  | 12/14/18 (A)           |
| E-259                  | 12/17/18 (B)           |
| E-261                  | 12/17/18 (A)           |
| E-262                  | 12/17/18 (A)           |
| E-263                  | 06/18/20 (B)           |
| E-263 Supp A           | 6/22/2020              |
| E-264 Cancelled        | Cancelled 02/05/18 (A) |
| E-265                  | 12/17/18 (A)           |

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|-----------------|---------------------------|
| E-266           | 02/08/19 (A)              |
| E-267           | 02/11/19 (A)              |
| E-268           | 02/12/19 (A)              |
| E-269           | 02/12/19 (A)              |
| E-270           | 06/17/20 (B)              |
| E-271           | 05/28/20 (C)              |
| E-271 Supp. A   | 8/23/22 Initial Issue     |
| E-272           | 09/14/18 (A)              |
| E-273           | 02/12/19 (A)              |
| E-273 Supp A    | 02/13/19 (A)              |
| E-274           | 02/14/19 (A)              |
| E-275           | 02/15/19 (A)              |
| E-276           | 09/13/23 (C)              |
| E-277           | 02/15/19 (A)              |
| E-278           | 02/15/19 (A)              |
| E-279           | 02/18/19 (C)              |
| E-280           | 02/18/19 (B)              |
| E-281           | 04/25/19 (B)              |
| E-282           | 02/18/19 (A)              |
| E-283           | 04/03/23 (C)              |
| E-286           | 02/19/19 (B)              |
| E-287           | 02/26/19 (D)              |
| E-288           | 05/09/23 (D)              |
| E-289           | 02/20/19 (A)              |
| E-291           | 02/21/19 (A)              |
| E-292           | 02/21/19 (A)              |
| E-293           | 07/07/23 (B)              |
| E-294           | 06/24/19 (B)              |
| E-295           | 07/27/22 (B)              |
| E-296           | 06/02/20 (A)              |
| E-297           | 09/26/24 (C)              |
| E-298           | 03/20/20 (C)              |
| E-299           | 04/28/16 (A)              |
| E-300           | 1/14/2021 Initial Issue   |
| * E-301 Supp. A | 11/06/24 (C)              |
| E-302           | 1/3/2017                  |
| E-303 Cancelled | Cancelled 05/26/20 (A)    |
| E-304           | 03/06/20 (B)              |
| E-304 Supp. A   | 02/15/22 (B)              |
| E-304 Supp. B   | 03/06/20                  |
| E-305           | 4/30/2021 (A)             |
| E-306           | 08/15/19                  |
| E-307           | 03/21/19                  |
| E-310           | 05/08/20                  |
| E-311           | 07/06/22 Initial Issue    |
| E-313           | 07/08/2021 Initial Issue  |
| E-315           | 4/12/2021 Initial Issue   |
| E-316           | 9/17/2021 Initial Issue   |
| E-318           | 08/17/23 (A)              |
| E-320           | 5/22/2024 (Initial Issue) |
| + E-324         | 12/11/24 (Initial Issue)  |
| E-325           | 3/26/2024 (Initial Issue) |

**Mechanical & Metallurgical  
Test Methods**

| SECTION       | REV. DATE    |
|---------------|--------------|
| E-1000        | 02/22/19 (A) |
| E-1000 Supp C | 02/22/19 (A) |
| E-1000 Supp F | 02/22/19 (A) |
| E-1000 Supp G | 02/25/19 (A) |
| E-1000 Supp H | 02/25/19 (A) |
| E-1000 Supp I | 03/08/19 (A) |
| E-1000 Supp S | 02/25/19 (A) |
| E-1001        | 02/28/19 (B) |
| E-1005        | 02/25/19 (A) |
| E-1008        | 02/25/19 (A) |
| E-1044        | 09/11/18 (A) |
| E-1071        | Removed      |
| E-1071A       | Removed      |
| E-1107        | 02/25/19 (A) |
| E-1107 Supp A | 05/25/23 (B) |
| E-1108        | 02/27/19 (A) |
| E-1109        | 02/27/19 (A) |
| E-1110        | 04/05/19 (B) |
| E-1121        | 03/04/19 (A) |
| E-1141        | 03/05/19 (B) |
| E-1158        | 03/07/19 (A) |
| E-1160        | 03/08/19 (A) |
| * E-1173      | 12/18/24 (C) |
| E-1174        | 03/12/19 (A) |
| E-1175        | 01/18/24 (B) |
| E-1176        | 04/03/23 (A) |

**Radar Measurement and  
Material Electromagnetic Tests**

| SECTION | REV. DATE |
|---------|-----------|
| E-1071  | 1/16/2012 |

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|---------|-----------|
| E-1071A | 1/23/2012 |
|---------|-----------|

**F SECTIONS  
Supplier Controls for Product  
and Product-Related Material**

| Section               | REV. DATE  |
|-----------------------|--|
| F Contents            | Removed  |
| F-Master              | 12/07/23 (K)   |
| F-1                   | 01/26/22 (F)   |
| F-2                   | 09/15/22 (C)   |
| F-3                   | 07/27/23 (G)   |
| F-4                   | 10/27/20 (D)   |
| F-9 Cancelled         | Cancelled 06/15/21 (C)   |
| F-11                  | 07/09/20 (E)   |
| F-11 Supp D           | 04/13/16 (D)   |
| F-12                  | 07/27/23 (F)   |
| F-13                  | 3/14/2016  |
| F-14                  | 06/28/17 (D)   |
| F-15                  | 01/23/2017 (B)   |
| F-16                  | 09/19/19 (C)   |
| F-17                  | 09/27/23 (E)   |
| F-17 Supp A           | 03/16/23 (D)   |
| F-17 Supp. B          | 9/27/2023 (Initial Issue)  |
| F-22 Cancelled        | Cancelled 09/29/23 (D)   |
| F-23                  | 01/10/24 (H)   |
| F-24                  | 02/22/23 (C)   |
| F-25                  | 07/21/17 (C)   |
| F-26                  | 02/03/21 (E)   |
| F-27                  | 04/14/16 (B)   |
| F-28                  | 3/25/2015  |
| F-31                  | 3/19/2017 (C)  |
| F-32                  | 12/8/2021 (D)  |
| F-36                  | 05/02/22 (E)   |
| F-38                  | 08/31/18 (D)   |
| F-40                  | 04/05/19 (C)   |
| F-40 Supp A Cancelled | Removed  |
| F-40 Supp B           | 04/20/16 (B)   |
| F-42                  | 05/03/19 (C)   |
| F-43                  | 10/24/22 (G)   |
| F-44                  | 06/30/21 (E)   |
| F-45                  | 09/07/16 (C)   |
| F-45 Redacted Version | Removed  |
| F-46                  | 03/29/19 (B)   |
| F-46 Supp A           | 10/04/18 (A)   |
| F-46 Supp A           | 9/11/2011  |
| F-52                  | 09/14/20 (C)   |
| F-53                  | 06/19/17 (D)   |
| F-54                  | 12/8/2011 TRANSFERRED<br>OUT: Lab. Control of<br>SSME Turbopump Parts<br>and Materials |
| F-56                  | 5/31/2012 TRANSFERRED<br>OUT: Cleaning of Rocket<br>Engine Plumbing                    |
| F-57                  | 07/13/17 (E)   |
| F-57 Supp A           | 07/13/17 (C)   |
| F-57 Supp B           | 7/13/2017  |
| F-57 Supp C           | 7/13/2017  |
| F-58                  | 3/15/2012 TRANSFERRED<br>OUT: Lab. Control Plus At<br>Space Propulsion                 |
| F-60                  | 07/29/21 (D)   |
| F-61                  | 10/20/23 (F)   |
| F-62                  | 05/19/17 (C)   |
| F-64                  | 09/26/22 (C)   |
| * F-65                | 10/08/24 (E)   |
| F-66 Full Version     | 02/05/18 (B)   |
| F-66 Redacted Version | 10/03/18 (B)   |
| F-69                  | 11/22/16 (B)   |
| F-70                  | 1/29/2016  |
| F-72                  | 05/14/19   |
| F-73                  | 12/24/19   |
| F-74                  | 02/21/20   |
| F-75                  | 7/14/20  |
| * F-76                | 12/17/24 (A)   |
| F-77                  | 1/11/2024 (Initial Issue)  |

**J - SECTIONS  
Specimen Preparation  
Machining Group**

| SECTION    | REV. DATE     |
|------------|---------------|
| J Contents | Removed       |
| J-0        | 3/14/2018 (A) |
| J-1        | 3/16/2018 (A) |
| J-3        | 3/16/2018 (A) |

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|--------------|-----------|------------------------|
| J-4          |           | 3/16/2018 (A)          |
| J-5          |           | 09/06/23 (B)           |
| J-6          |           | 3/16/2018 (A)          |
| J-7          |           | 3/16/2018 (A)          |
| J-8          |           | 06/27/23 (B)           |
| J-9          |           | 3/16/2018 (A)          |
| J-10         |           | 3/16/2018 (A)          |
| J-11         |           | 3/16/2018 (A)          |
| J-12         |           | 3/16/2018 (A)          |
| J-14         |           | 3/19/2018 (A)          |
| J-15         |           | 3/19/2018 (A)          |
| J-16         |           | 06/29/23 (B)           |
| J-18         |           | 3/19/2018 (A)          |
| J-20         |           | 12/26/17 (A)           |
| J-21         |           | 08/31/17 (A)           |
| J-22         |           | 3/19/2018              |
| J-23         |           | 10/04/19 (E)           |
| J-24         |           | 07/07/23 (B)           |
| J-25         |           | 03/19/18 (A)           |
| J-27         |           | 03/19/18 (A)           |
| J-28         | Cancelled | Cancelled 02/19/21     |
| J-29         |           | 03/20/18 (A)           |
| J-30         |           | 03/21/18 (A)           |
| J-32         |           | 02/07/23 (B)           |
| J-35         |           | 03/21/18 (A)           |
| J-36         |           | 03/21/18 (A)           |
| J-37         |           | 03/21/18 (A)           |
| J-38         |           | 03/21/18 (A)           |
| J-39         |           | 03/21/18 (A)           |
| J-40         |           | 07/10/23 (B)           |
| J-45         |           | 10/18/21 (B)           |
| J-47         |           | 03/21/18 (A)           |
| J-50         |           | 03/21/18 (A)           |
| J-51         |           | 09/06/23 (B)           |
| J-52         |           | 03/22/18 (A)           |
| J-53         |           | 03/22/18 (A)           |
| J-54         |           | 03/22/18 (A)           |
| J-55         |           | 03/22/18 (A)           |
| J-56         |           | 03/22/18 (A)           |
| J-59         |           | 03/22/18 (A)           |
| J-60         |           | 03/22/18 (A)           |
| J-61         |           | 03/22/18 (A)           |
| J-62         |           | 03/22/18 (A)           |
| J-64         |           | 12/26/17 (A)           |
| J-65         |           | 03/22/18 (A)           |
| J-68         |           | 10/31/18 (A)           |
| J-70         |           | 03/23/18 (A)           |
| J-71         |           | 06/12/18 (B)           |
| J-72         |           | 03/23/18 (A)           |
| J-78         |           | 03/23/18 (A)           |
| J-80         |           | 03/26/18 (A)           |
| J-81         |           | 03/26/18 (A)           |
| J-82         |           | 03/26/18 (A)           |
| J-83         |           | 07/13/23 (B)           |
| J-84         |           | 09/12/18 (B)           |
| J-85         |           | 07/13/23 (C)           |
| J-86         |           | 3/27/2018 (A)          |
| J-88         |           | 3/27/2018 (A)          |
| J-89         |           | 3/27/2018 (A)          |
| J-90         |           | 12/26/17 (B)           |
| J-90 Supp 1  |           | 12/26/17 (A)           |
| J-93         |           | 3/27/2018 (A)          |
| J-94         | Cancelled | Cancelled 08/08/23 (B) |
| J-95         | Cancelled | Cancelled 7/10/2013    |
| J-97         |           | 3/27/2018 (A)          |
| J-99         |           | 3/27/2018 (A)          |
| J-100        |           | 12/26/17 (A)           |
| J-103        |           | 3/27/2018 (A)          |
| J-104        |           | 3/27/2018 (A)          |
| J-105        |           | 09/12/18 (B)           |
| J-106        | Cancelled | Cancelled 4/15/2010    |
| J-107        |           | 06/30/23 (B)           |
| J-109        | Cancelled | Cancelled 07/10/23 (B) |
| J-110        |           | 3/28/2018 (A)          |
| J-111        |           | 3/28/2018 (A)          |
| J-112        |           | 3/29/2018 (A)          |
| J-113        |           | 09/12/18 (B)           |
| J-114        | Cancelled | Cancelled 6/28/2023    |
| J-115        |           | 3/29/2018 (A)          |
| J-116        |           | 3/29/2018 (A)          |
| J-117        |           | 12/27/17 (A)           |
| J-118        |           | 04/14/23 (C)           |
| J-119        |           | 04/02/18 (C)           |
| J-119 Supp A |           | 04/02/18 (B)           |
| J-120        |           | 04/02/18 (A)           |
| J-121        | Cancelled | Cancelled 11/9/2011    |
| J-122        |           | 12/27/17 (A)           |
| J-123        |           | 04/02/18 (A)           |
| J-124        |           | 12/27/17 (A)           |
| J-125        |           | 04/02/18 (A)           |

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|                 |                     |
|-----------------|---------------------|
| J-125 Supp A    | 04/02/18 (A)        |
| J-126           | 12/27/17 (A)        |
| J-127 Cancelled | Cancelled 1/31/2012 |
| J-128           | 12/27/17 (A)        |
| J-129 Cancelled | Cancelled 5/11/2009 |

K – SECTIONS  
Mechanical and Metallurgical Tests –  
Metallic Materials

| SECTION         | REV. DATE             |
|-----------------|-----------------------|
| K Contents      | Removed               |
| K-4             | 04/06/18 (A)          |
| K-5             | 04/06/18 (A)          |
| K-6             | 04/06/18 (A)          |
| K-13 Cancelled  | Cancelled 9/25/2008   |
| K-14            | 04/06/18 (A)          |
| K-15            | 04/06/18 (A)          |
| K-17            | 04/06/18 (A)          |
| K-19            | 04/06/18 (A)          |
| K-24            | 04/06/18 (A)          |
| K-33 Cancelled  | Removed               |
| K-34            | 04/06/18 (A)          |
| K-35            | 04/06/18 (A)          |
| K-36            | 04/06/18 (A)          |
| K-38            | 07/20/23 (B)          |
| K-42            | 04/09/18 (A)          |
| K-43 Cancelled  | Removed               |
| K-45            | 04/09/18 (A)          |
| K-50            | 04/09/18 (A)          |
| K-55 Cancelled  | Cancelled 9/25/2008   |
| K-56            | 04/09/18 (A)          |
| K-58            | 04/09/18 (A)          |
| K-61 Cancelled  | Removed               |
| K-62            | 04/09/18 (A)          |
| K-65            | 04/09/18 (A)          |
| K-66 Cancelled  | Cancelled 9/30/2010   |
| K-67            | 04/09/18 (A)          |
| K-70            | 04/09/18 (A)          |
| K-76            | 04/11/18 (A)          |
| K-78            | 09/13/23 (B)          |
| K-79            | 04/11/18 (A)          |
| K-80            | 04/12/18 (A)          |
| K-81 Cancelled  | Cancelled 9/25/2008   |
| K-82            | 04/26/18 (A)          |
| K-83 Cancelled  | Removed               |
| K-85            | 04/26/18 (A)          |
| K-86 Cancelled  | Cancelled 7/14/2010   |
| K-88 Cancelled  | Cancelled 9/25/2008   |
| K-89            | 04/26/18 (A)          |
| K-92            | 04/26/18 (A)          |
| K-95            | 04/26/18 (A)          |
| K-97            | 04/26/18 (A)          |
| K-100           | 04/26/18 (A)          |
| K-116 Cancelled | Removed               |
| K-119 Cancelled | Removed               |
| K-120           | 04/27/18 (A)          |
| K-121           | 04/27/18 (A)          |
| K-122           | 04/27/18 (A)          |
| K-123           | 04/27/18 (A)          |
| K-124           | 04/27/18 (A)          |
| K-125 Cancelled | Cancelled 2/18/2010   |
| K-133           | 04/27/18 (A)          |
| K-134           | 04/27/18 (A)          |
| K-135           | 04/27/18 (A)          |
| K-137 Cancelled | Cancelled 06/01/23    |
| K-143 Cancelled | Removed               |
| K-144           | 09/06/23 (B)          |
| K-145 Cancelled | Cancelled 9/25/2008   |
| K-148 Cancelled | Cancelled 9/25/2008   |
| K-152 Cancelled | Cancelled 9/25/2008   |
| K-154 Cancelled | Cancelled 9/25/2008   |
| K-158 Cancelled | Cancelled 9/25/2008   |
| K-161 Inactive  | Inactive 09/14/23 (B) |
| K-162           | 4/4/2011              |
| K-162           | 04/27/18 (A)          |
| K-167           | 05/01/18 (A)          |
| K-168           | 12/15/2010            |
| K-169           | 05/09/18 (A)          |
| K-169 Supp A    | 05/01/18 (A)          |
| K-169 Supp B    | 05/10/18 (A)          |
| K-170           | 05/11/18 (A)          |
| K-173           | 05/14/18 (A)          |
| K-174           | 05/14/18 (C)          |
| K-175           | 05/14/18 (A)          |
| K-176           | 05/14/18 (A)          |
| K-180           | 05/14/18 (A)          |
| K-184 Cancelled | Cancelled 4/29/2010   |
| K-189           | 05/16/18 (A)          |
| K-192           | 09/12/18 (C)          |

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|                                      |   |
|--------------------------------------|---|
| K-194 Cancelled                      | Cancelled 7/29/2011   |
| K-196                                | 12/16/2010  |
| K-198 Cancelled                      | Cancelled 9/25/2008   |
| K-199                                | 05/15/18 (A)  |
| K-200                                | 05/15/18 (A)  |
| K-202                                | 09/12/18 (C)  |
| K-204                                | 09/12/18 (C)  |
| K-207 Cancelled                      | Removed   |
| K-211 Cancelled                      | Cancelled 9/25/2008   |
| K-212                                | 05/16/18 (A)  |
| K-213                                | 05/15/18 (A)  |
| K-220                                | 05/15/18 (A)  |
| K-228                                | 05/15/18 (A)  |
| K-229                                | 05/15/18 (A)  |
| K-230                                | 07/06/23 (B)  |
| K-232                                | 05/15/18 (A)  |
| K-233                                | 05/17/18 (A)  |
| K-234                                | 05/17/18 (A)  |
| K-235 Cancelled                      | Cancelled 10/18/2011  |
| K-236 Cancelled                      | 08/08/23 (B)  |
| K-239                                | 05/17/18 (A)  |
| K-241                                | 05/17/18 (A)  |
| K-242                                | 05/17/18 (A)  |
| K-244                                | 05/18/18 (A)  |
| K-245 Cancelled                      | Cancelled 10/28/2009  |
| K-247                                | 05/18/18 (A)  |
| K-248 Cancelled                      | Cancelled 9/25/2008   |
| K-249 Cancelled                      | Removed   |
| K-250                                | 05/18/18 (A)  |
| K-251                                | 05/18/18 (A)  |
| K-252                                | 05/18/18 (A)  |
| K-253                                | 05/21/18 (A)  |
| K-255                                | 05/21/18 (A)  |
| K-256 Cancelled                      | Removed   |
| K-258                                | 05/21/18 (A)  |
| K-262                                | 05/21/18 (A)  |
| K-267                                | 05/21/18 (A)  |
| K-269                                | 05/22/18 (A)  |
| K-273                                | 05/22/18 (A)  |
| K-274                                | 05/22/18 (A)  |
| K-275                                | 05/22/18 (A)  |
| K-276                                | 05/22/18 (A)  |
| K-277 Cancelled                      | Cancelled: 01/30/19 (B)                                     |
| K-278                                | 05/24/18 (B)  |
| K-281                                | 05/23/18 (A)  |
| K-283 Cancelled                      | Cancelled 9/25/2008   |
| K-285 Cancelled                      | Cancelled 4/15/2001   |
| K-286                                | 05/23/18 (A)  |
| K-287                                | 05/24/18 (A)  |
| K-288 Cancelled                      | Cancelled 4/2/2011  |
| K-289                                | 05/24/18 (B)  |
| K-295                                | 05/24/18 (A)  |
| K-296                                | 05/24/18 (A)  |
| K-298 Cancelled                      | Cancelled 9/25/2008   |
| K-299 Cancelled                      | Cancelled 9/25/2008   |
| K-301 Cancelled                      | Removed   |
| K-304                                | 05/24/18 (A)  |
| K-305                                | 05/24/18 (A)  |
| K-308                                | 05/25/18 (A)  |
| K-309                                | 05/25/18 (A)  |
| K-310 Cancelled & Replaced by E-1160 | Removed   |
| K-317                                | 05/25/18 (A)  |
| K-319                                | 05/25/18 (A)  |
| K-320                                | 05/25/18 (A)  |
| K-321                                | 05/30/18 (A)  |
| K-322 Cancelled                      | Removed   |
| K-323                                | 05/30/18 (A)  |
| K-324                                | 05/30/18 (A)  |
| K-326                                | 05/30/18 (A)  |
| K-332 Cancelled                      | Cancelled 4/30/2001   |
| K-333 Cancelled                      | Cancelled 7/15/2009   |
| K-342                                | 05/30/18 (A)  |
| K-343                                | 05/30/18 (A)  |
| K-345 Cancelled                      | Removed   |
| K-346                                | 05/30/18 (A)  |
| K-347                                | 05/30/18 (A)  |
| K-355 Cancelled                      | Cancelled 5/9/2011  |
| K-357                                | 2/22/2013 Transferred Out - Resides in Florida not MCL(QSL) |
| K-359                                | 05/30/18 (A)  |
| K-360 Cancelled                      | Removed   |
| K-361                                | 12/27/17 (A)  |
| K-365 Cancelled                      | Cancelled 5/9/2011  |



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**L – SECTIONS  
Metallurgical Process Control Tests**

| SECTION        | REV. DATE               |
|----------------|-------------------------|
| L Contents     | Removed                 |
| L-3 Cancelled  | Cancelled: 11/28/18 (A) |
| L-4 Cancelled  | Cancelled: 11/28/18 (A) |
| L-6            | Cancelled: 11/14/17 (A) |
| L-9 Cancelled  | Cancelled: 02/02/18     |
| L-29           | Cancelled: 11/14/17 (A) |
| L-30 Cancelled | Cancelled: 11/28/18 (A) |
| L-32 Cancelled | Cancelled: 02/02/18     |
| L-33 Cancelled | Cancelled: 11/28/18 (A) |
| L-34 Cancelled | Cancelled: 11/28/18 (A) |
| L-37 Cancelled | Cancelled: 11/28/18 (A) |
| L-41           | Cancelled: 11/14/17 (A) |
| L-42 Cancelled | Cancelled: 11/28/18 (A) |
| L-43 Cancelled | Cancelled: 02/02/18     |

**M – SECTIONS  
Wet Chemical Tests –  
Metallic Materials**

| SECTION       | REV. DATE    |
|---------------|--------------|
| M Contents    | Remove       |
| M-0           | 01/22/18 (A) |
| M-38          | 01/23/18 (A) |
| M-47          | 01/23/18 (A) |
| M-55          | 01/23/18 (A) |
| M-91          | 01/23/18 (A) |
| M-95          | 01/23/18 (A) |
| M-111         | 01/24/18 (A) |
| M-119         | 01/24/18 (A) |
| M-160         | 01/24/18 (A) |
| M-165         | 01/24/18 (A) |
| M-165 Supp. A | 03/19/19     |
| M-166         | 01/24/18 (A) |
| M-167         | 01/19/23 (C) |
| M-175         | 01/25/18 (A) |
| M-186         | 01/25/18 (A) |
| M-187         | 01/25/18 (A) |

**M-500 Series – Atomic Absorption**

| SECTION      | REV. DATE    |
|--------------|--------------|
| M-500        | 01/25/18 (A) |
| M-500 Supp A | 01/25/18 (A) |
| M-503        | 04/16/18 (B) |
| M-504        | 08/08/18 (B) |
| M-520        | 01/29/18 (A) |
| M-526        | 01/24/19 (C) |
| M-530        | 01/29/18 (A) |
| M-537 Supp A | 01/29/18 (A) |
| M-558        | 02/07/19 (C) |
| M-559        | 11/5/2020    |

**N – SECTIONS  
Spectrographic Tests**

| SECTION     | REV. DATE    |
|-------------|--------------|
| N Contents  | Removed      |
| N-0         | 01/30/18 (A) |
| N-0 Supp A  | 01/30/18 (A) |
| N-11        | 01/30/18 (A) |
| N-26        | 01/30/18 (A) |
| N-29        | 01/30/18 (A) |
| N-30        | 01/30/18 (A) |
| N-30 Supp A | 01/30/18 (A) |
| N-35        | 01/30/18 (A) |
| N-36        | 01/30/18 (A) |
| N-37        | 01/30/18 (A) |
| N-51        | 03/07/18 (A) |
| N-56        | 03/07/18 (A) |
| N-60        | 06/24/19 (B) |
| N-60 Supp A | 03/07/18 (A) |
| N-61        | 03/07/18 (A) |
| N-62        | 03/07/18 (A) |
| N-63        | 03/07/18 (A) |
| N-64        | 03/07/18 (A) |
| N-65        | 03/07/18 (A) |
| N-66        | 10/13/16 (B) |
| N-67        | 03/07/18 (A) |
| N-69        | 06/05/19 (B) |
| N-70        | 06/24/19 (B) |
| N-71        | 08/23/16 (A) |
| N-72        | 10/13/17 (A) |
| N-73        | 04/16/18     |

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**P – SECTIONS  
Chemical Process Solution Control Tests**

| SECTION        | REV. DATE                 |
|----------------|---------------------------|
| P Contents     | Removed                   |
| P-0            | 03/12/18 (A)              |
| P-1            | 03/12/18 (A)              |
| P-2            | 03/12/18 (A)              |
| P-4            | 03/12/18 (A)              |
| P-6            | 03/12/18 (A)              |
| P-14           | 03/12/18 (A)              |
| P-17           | 01/24/23 (B)              |
| P-20           | 03/12/18 (A)              |
| P-21 Cancelled | 6/9/2011                  |
| P-23 Cancelled | Cancelled 11/23/16        |
| P-30           | 03/12/18 (A)              |
| P-32           | 03/12/18 (A)              |
| P-33           | 03/12/18 (A)              |
| P-41           | 03/12/18 (A)              |
| P-48           | 03/12/18 (A)              |
| P-55           | 03/15/18 (A)              |
| P-59           | 03/15/18 (A)              |
| P-60           | 03/15/18 (A)              |
| P-62           | 03/15/18 (A)              |
| P-66           | 03/15/18 (A)              |
| P-67           | 03/15/18 (A)              |
| P-78           | 03/15/18 (A)              |
| P-79           | 03/15/18 (A)              |
| P-82           | 03/15/18 (A)              |
| P-83           | 07/01/19 (B)              |
| P-83 Supp A    | 03/15/18 (A)              |
| P-85           | 03/15/18 (A)              |
| P-88           | 03/16/18 (A)              |
| P-94           | 03/16/18 (A)              |
| P-95           | 3/15/12to-Transferred out |
| P-97           | 03/16/18 (A)              |
| P-100          | 03/16/18 (A)              |
| P-104          | 03/16/18 (A)              |
| P-108          | 03/16/18 (A)              |
| P-109          | 03/16/18 (A)              |

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|       |          |
|-------|----------|
| P-110 | 01/24/19 |
|-------|----------|

Q – SECTIONS  
Chemical Tests – Petroleum Products

| SECTION               | REV. DATE              |
|-----------------------|------------------------|
| Q Contents            | Removed                |
| Q-0                   | 12/14/17 (A)           |
| Q-1                   | 12/14/17 (A)           |
| Q-2 Cancelled         | Cancelled 9/25/2008    |
| Q-3 Cancelled         | Cancelled 9/25/2008    |
| Q-4                   | 12/14/17 (A)           |
| Q-5 Cancelled         | Cancelled 9/25/2008    |
| Q-6 Cancelled         | Cancelled 9/25/2008    |
| Q-8                   | 12/14/17 (A)           |
| Q-9 Cancelled         | Cancelled 9/25/2008    |
| Q-12                  | 12/14/17 (A)           |
| Q-14                  | 12/14/17 (A)           |
| Q-15                  | 12/14/17 (A)           |
| Q-16                  | 12/14/17 (A)           |
| Q-17                  | 12/14/17 (A)           |
| Q-19                  | 12/14/17 (A)           |
| Q-20                  | 12/18/17 (A)           |
| Q-21                  | 12/05/19 (B)           |
| Q-27 Cancelled        | Cancelled 9/25/2008    |
| Q-33                  | 12/18/17 (A)           |
| Q-36                  | 12/21/17 (A)           |
| Q-37                  | 12/21/17 (A)           |
| Q-39 Cancelled        | Cancelled 9/25/2008    |
| Q-41 Cancelled        | Cancelled 9/25/2008    |
| Q-42 Cancelled        | Cancelled 9/25/2008    |
| Q-44 Cancelled        | Cancelled 9/25/2008    |
| Q-45 Cancelled        | Cancelled 9/25/2008    |
| Q-47 Cancelled        | Cancelled 9/25/2008    |
| Q-52 Cancelled        | Cancelled 9/25/2008    |
| Q-57 Cancelled        | Cancelled 9/25/2008    |
| Q-58 Cancelled        | Cancelled 9/25/2008    |
| Q-62 Cancelled        | Cancelled 1/23/2009    |
| Q-65 Cancelled        | Cancelled 9/25/2008    |
| Q-74                  | 12/21/17 (A)           |
| Q-75 Cancelled        | Cancelled 9/25/2008    |
| Q-76                  | 12/21/17 (A)           |
| Q-77                  | 12/21/17 (A)           |
| Q-77 Supp A Cancelled | Cancelled 01/08/18 (B) |
| Q-79 Cancelled        | Cancelled 9/25/2008    |
| Q-80                  | 12/21/17 (A)           |
| Q-81 Cancelled        | Cancelled 02/19/20     |
| Q-82 Cancelled        | Cancelled 02/19/20     |
| Q-83 Cancelled        | Cancelled 9/25/2008    |
| Q-84                  | 12/21/17 (A)           |
| Q-85                  | 12/21/17 (A)           |
| Q-86                  | 12/21/17 (A)           |
| Q-87                  | 12/22/17 (A)           |
| Q-88 Cancelled        | Cancelled 9/25/2008    |
| Q-89                  | 12/22/17 (A)           |
| Q-90                  | 11/23/20 (C)           |
| Q-91 Cancelled        | Cancelled 9/25/2008    |
| Q-92 Cancelled        | Cancelled 9/25/2008    |
| Q-93                  | 12/22/17 (A)           |
| Q-94                  | 12/22/17 (A)           |
| Q-95 Cancelled        | Cancelled 9/25/2008    |
| Q-96                  | 12/22/17 (A)           |
| Q-98 Cancelled        | Cancelled 9/25/2008    |
| Q-99 Cancelled        | 9/25/2008              |
| Q-100 Cancelled       | 9/25/2008              |
| Q-101 Cancelled       | Cancelled 9/25/2008    |
| Q-102                 | 12/22/17 (A)           |
| Q-103                 | 12/22/17 (A)           |
| Q-104 Cancelled       | Cancelled 02/25/20     |
| Q-105                 | 04/03/19 (A)           |
| Q-106                 | 7/24/2018              |

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R – SECTIONS  
Paint, Lacquer, Varnish and  
Related Products

| SECTION    | REV. DATE    |
|------------|--------------|
| R Contents | Removed      |
| R-1        | 11/21/17 (A) |
| R-2        | 11/21/17 (A) |
| R-4        | 11/21/17 (A) |
| R-5        | 11/22/17 (A) |
| R-6        | 11/22/17 (A) |
| R-7        | 11/22/17 (A) |
| R-8        | 11/28/17 (A) |
| R-9        | 11/28/17 (A) |
| R-17       | 11/28/17 (A) |
| R-19       | 11/28/17 (A) |
| R-26       | 11/28/17 (A) |
| R-27       | 11/28/17 (A) |
| R-28       | 11/28/17 (A) |
| R-29       | 11/28/17 (A) |
| R-30       | 11/28/17 (A) |
| R-31       | 11/28/17 (A) |
| R-32       | 11/28/17 (A) |

S – SECTIONS  
Solid Nonmetallic Tests

| SECTION        | REV. DATE           |
|----------------|---------------------|
| S Contents     | Removed             |
| S-1            | 12/15/17 (A)        |
| S-2            | 12/15/17 (A)        |
| S-3            | 12/18/17 (A)        |
| S-4            | 12/18/17 (A)        |
| S-5            | 12/18/17 (A)        |
| S-7            | 12/19/17 (A)        |
| S-8            | 12/20/17 (A)        |
| S-9            | 12/20/17 (A)        |
| S-11           | 12/20/17 (A)        |
| S-12           | 12/20/17 (A)        |
| S-14           | 12/20/17 (A)        |
| S-17           | 12/20/17 (A)        |
| S-18           | 12/21/17 (A)        |
| S-20           | 12/21/17 (A)        |
| S-21           | 12/29/17 (A)        |
| S-22           | 12/29/17 (A)        |
| S-23           | 12/29/17 (A)        |
| S-24           | 02/07/18 (A)        |
| S-25           | 02/07/18 (A)        |
| S-26           | 02/07/18 (A)        |
| S-27           | 02/07/18 (A)        |
| S-28 Cancelled | Cancelled 9/27/2011 |
| S-29           | 02/07/18 (A)        |
| S-31           | 02/07/18 (A)        |
| S-33           | 02/07/18 (A)        |
| S-34           | 02/07/18 (A)        |
| S-38           | 02/07/18 (A)        |
| S-39           | 02/07/18 (A)        |
| S-40           | 02/07/18 (A)        |
| S-41           | 02/08/18 (A)        |
| S-42           | 02/08/18 (A)        |
| S-43           | 02/08/18 (A)        |
| S-44           | 02/08/18 (A)        |
| S-45           | 02/08/18 (A)        |
| S-46           | 02/12/18 (A)        |
| S-47           | 01/12/23 (B)        |
| S-48           | 02/12/18 (A)        |
| S-49           | 02/13/18 (A)        |
| S-50           | 02/13/18 (A)        |
| S-51           | 02/13/18 (A)        |
| S-52 Cancelled | 08/10/21 (B)        |
| S-54           | 02/13/18 (A)        |
| S-55           | 02/13/18 (A)        |
| S-56           | 02/14/18 (A)        |
| S-58           | 02/14/18 (A)        |
| S-59           | 02/14/18 (A)        |
| S-64           | 02/14/18 (A)        |
| S-67           | 02/14/18 (A)        |
| S-68           | 02/14/18 (A)        |
| S-69           | 05/30/17 (A)        |
| S-70           | 03/19/20 (B)        |
| S-71           | 02/27/18 (A)        |
| S-72           | 01/11/2017 (B)      |
| S-73           | 02/27/18 (A)        |
| S-74           | 01/11/2017 (B)      |
| S-75           | 02/27/18 (A)        |
| S-76           | 02/27/18 (A)        |
| S-77           | 02/27/18 (A)        |
| S-78           | 02/27/18 (A)        |
| S-79           | 02/27/18 (A)        |
| S-81           | 02/27/18 (A)        |

**MISCELLANEOUS  
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|       |                         |
|-------|-------------------------|
| S-83  | 11/14/19 (C)            |
| S-85  | 02/27/18 (A)            |
| S-86  | 02/28/18 (A)            |
| S-87  | 02/28/18 (A)            |
| S-88  | 04/21/17 (A)            |
| S-89  | 02/28/18 (A)            |
| S-90  | 02/28/18 (A)            |
| S-93  | 02/28/18 (A)            |
| S-95  | 02/28/18 (A)            |
| S-97  | 02/28/18 (A)            |
| S-98  | 02/28/18 (A)            |
| S-99  | 02/28/18 (A)            |
| S-100 | 02/28/18 (A)            |
| S-101 | 03/07/18 (A)            |
| S-102 | 03/07/18 (A)            |
| S-103 | 03/07/18 (A)            |
| S-104 | 03/07/18 (A)            |
| S-106 | 03/07/18 (A)            |
| S-107 | 03/09/18 (A)            |
| S-108 | 03/09/18 (A)            |
| S-109 | 03/09/18 (A)            |
| S-110 | 03/09/18 (A)            |
| S-111 | 03/09/18 (A)            |
| S-112 | 03/09/18 (A)            |
| S-113 | 03/09/18 (A)            |
| S-114 | 03/09/18 (A)            |
| S-115 | 03/09/18 (A)            |
| S-116 | 03/09/18 (A)            |
| S-117 | 03/09/18 (A)            |
| S-118 | 03/12/18 (A)            |
| S-119 | 03/12/18 (A)            |
| S-120 | 03/12/18 (A)            |
| S-123 | 03/12/18 (A)            |
| S-124 | 03/12/18 (A)            |
| S-125 | 03/12/18 (A)            |
| S-126 | 03/12/18 (A)            |
| S-127 | 03/12/18 (A)            |
| S-128 | 03/12/18 (A)            |
| S-129 | 03/12/18 (A)            |
| S-130 | 03/12/18 (A)            |
| S-133 | 03/13/18 (A)            |
| S-134 | 03/13/18 (A)            |
| S-135 | 03/13/18 (A)            |
| S-136 | 03/13/18 (A)            |
| S-137 | 03/13/18 (A)            |
| S-138 | 05/04/22 (B)            |
| S-139 | 03/13/18 (A)            |
| S-140 | 03/13/18 (A)            |
| S-141 | 03/13/18 (A)            |
| S-142 | 03/13/18 (A)            |
| S-143 | 03/13/18 (A)            |
| S-144 | 03/13/18 (A)            |
| S-145 | 03/28/19 (A)            |
| S-146 | 09/10/18                |
| S-147 | 9/17/2021 Initial Issue |
| S-148 | 5/16/2022 Initial Issue |
| S-149 | 5/16/2022 Initial Issue |

**U – SECTIONS  
Contamination Tests**

| SECTION    | REV. DATE    |
|------------|--------------|
| U Contents | Removed      |
| U-2        | 12/02/17 (A) |
| U-2 Supp A | 12/02/17 (A) |
| U-5        | 12/02/17 (A) |
| U-6        | 12/13/17 (A) |
| U-7        | 12/02/17 (A) |
| U-10       | 12/02/17 (A) |

**V – SECTIONS  
Metrology**

| SECTION              | REV. DATE              |
|----------------------|------------------------|
| V Contents           | Removed                |
| V-0 Cancelled        | Cancelled 04/23/24 (C) |
| V-0 Supp A Cancelled | Cancelled 04/23/24 (D) |
| V-0 Supp B Cancelled | Cancelled 1/11/2022    |
| V-0 Supp C Cancelled | Cancelled 02/26/19 (B) |
| V-0 Supp D Cancelled | Cancelled 1/18/2010    |
| V-0 Supp E Cancelled | Cancelled 02/26/19 (B) |
| V-0 Supp F           | 10/26/18 (B)           |
| V-0 Supp G Cancelled | Cancelled 10/28/2009   |
| V-0 Supp I Cancelled | Cancelled 02/26/19 (B) |
| V-3 Cancelled        | Cancelled 06/13/18 (A) |
| V-4                  | 06/25/18 (A)           |
| V-5                  | 12/12/18 (A)           |
| V-6 Cancelled        | Cancelled 06/20/18 (A) |
| V-7                  | 06/25/18 (A)           |

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|                       |                        |
|-----------------------|------------------------|
| V-8 Cancelled         | Cancelled 06/20/18 (A) |
| V-14 Cancelled        | Cancelled 11/19/2009   |
| V-15                  | Cancelled 06/20/18 (A) |
| V-16 Cancelled        | Cancelled 10/17/23 (B) |
| V-17 Cancelled        | Cancelled 11/19/2009   |
| V-18                  | Cancelled 06/20/18 (A) |
| V-19 Cancelled        | Cancelled 11/19/2009   |
| V-19 Supp A Cancelled | Cancelled 11/17/2009   |
| V-19 Supp B Cancelled | Cancelled 11/17/2009   |
| V-19 Supp C Cancelled | Cancelled 11/17/2009   |
| V-19 Supp D Cancelled | Cancelled 11/17/2009   |
| V-20 Cancelled        | Cancelled 11/17/2009   |
| V-21 Cancelled        | Cancelled 12/3/2009    |
| V-22 Cancelled        | Cancelled 06/20/18 (A) |
| V-23 Cancelled        | Cancelled 11/19/2009   |
| V-24 Cancelled        | Cancelled 06/20/18 (A) |
| V-26 Cancelled        | Cancelled 12/14/18 (A) |
| V-27                  | 06/25/2018 (A)         |
| V-28 Cancelled        | Cancelled 11/19/2009   |
| V-29 Cancelled        | Cancelled 12/3/2009    |
| V-30                  | 12/12/18 (A)           |
| V-31                  | 04/06/18 (B)           |
| V-34                  | 12/11/18 (A)           |
| V-35                  | 06/25/2018 (A)         |
| V-36 Cancelled        | Cancelled 11/19/2009   |
| V-37                  | 12/12/18 (A)           |
| V-38                  | 05/02/18 (A)           |
| V-39 Cancelled        | Cancelled 06/15/20 (B) |
| V-40                  | 06/25/2018 (A)         |
| V-41 Cancelled        | Cancelled 12/3/2009    |
| V-42 Cancelled        | Removed                |
| V-44 Cancelled        | Cancelled 12/3/2009    |
| V-49                  | 12/10/18 (A)           |
| V-50                  | 12/18/18 (A)           |
| V-52 Cancelled        | Cancelled 12/3/2009    |
| V-53                  | 06/25/2018 (A)         |
| V-55 Cancelled        | Cancelled 11/20/2009   |
| V-57 Cancelled        | Cancelled 06/20/18 (A) |
| V-58                  | 03/15/19 (A)           |
| V-59 Cancelled        | Cancelled 12/3/2009    |
| V-60 Cancelled        | Cancelled 12/3/2009    |
| V-61 Cancelled        | Cancelled 11/17/2009   |
| V-62 Cancelled        | Cancelled 11/20/2009   |
| V-65 Cancelled        | Cancelled 1/18/2010    |
| V-66                  | 06/25/2018 (A)         |
| V-68                  | 06/25/2018 (A)         |
| V-69                  | 06/25/2018 (A)         |
| V-71 Cancelled        | Cancelled 04/08/2018   |
| V-74 Cancelled        | Cancelled 11/20/2009   |
| V-75                  | 02/27/18 (A)           |
| V-76 Cancelled        | Cancelled 1/7/2010     |
| V-77 Cancelled        | Cancelled 1/18/2010    |
| V-78 Cancelled        | Cancelled 1/7/2010     |
| V-79 Cancelled        | Cancelled 1/14/2010    |
| V-84 Cancelled        | Cancelled 1/15/2010    |
| V-86                  | 03/08/18 (A)           |
| V-89 Cancelled        | Removed                |
| V-90 Cancelled        | Cancelled 1/7/2010     |
| V-91 Cancelled        | Removed                |
| V-92 Cancelled        | Removed                |
| V-93 Cancelled        | Removed                |
| V-94 Cancelled        | Removed                |
| V-95 Cancelled        | Removed                |
| V-96 Cancelled        | Removed                |
| V-97 Cancelled        | Removed                |
| V-98 Cancelled        | Removed                |
| V-99 Cancelled        | Removed                |
| V-100                 | 05/06/24 (C)           |
| V-101                 | 03/09/21 Initial Issue |
| V-102 Cancelled       | Removed                |
| V-103 Cancelled       | Cancelled 1/13/2010    |
| V-104 Cancelled       | Cancelled 1/14/2010    |
| V-105 Cancelled       | Cancelled 1/7/2010     |
| V-106 Cancelled       | Removed                |
| V-108 Cancelled       | Cancelled 1/13/2010    |
| V-109 Cancelled       | Removed                |
| V-110 Cancelled       | Cancelled 12/19/18 (A) |
| V-111 Cancelled       | Removed                |
| V-112 Cancelled       | Removed                |
| V-115                 | 10/05/18 (A)           |
| V-116 Cancelled       | Cancelled 04/11/22     |
| V-117 Cancelled       | Cancelled 12/17/18 (A) |
| V-119 Cancelled       | Removed                |
| V-120 Cancelled       | Removed                |
| V-121 Cancelled       | Removed                |
| V-122 Cancelled       | Removed                |
| V-123 Cancelled       | Removed                |
| V-125 Cancelled       | Removed                |
| V-130 Cancelled       | Removed                |
| V-131 Cancelled       | Removed                |

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|                 |                          |
|-----------------|--------------------------|
| V-137           | 08/06/18 (B)             |
| V-138 Cancelled | Cancelled 1/5/2010       |
| V-139 Cancelled | cancelled 11/20/2009     |
| V-140 Cancelled | Cancelled 12/06/18 (A)   |
| V-141 Cancelled | Cancelled 11/20/2009     |
| V-142 Cancelled | Cancelled 12/06/18 (A)   |
| V-143           | 12/12/18 (A)             |
| V-144           | 12/13/18 (A)             |
| V-145           | 09/13/22 (B)             |
| V-146           | 12/10/18 (A)             |
| * V-146 Supp A  | 12/04/24 (B)             |
| V-146 Supp B    | 09/08/23 (C)             |
| V-148           | 05/02/18 (A)             |
| V-149 Cancelled | Cancelled 1/14/2010      |
| V-150           | 12/14/17 (A)             |
| V-151           | 12/11/18 (A)             |
| V-152           | 12/19/18 (A)             |
| V-153           | 03/20/18 (A)             |
| V-154           | 11/1/20 (A)              |
| V-155           | 8/15/2017                |
| V-156           | 9/21/2023 (A)            |
| V-11202         | 1/13/2021 (B)            |
| V-11446         | 12/14/17 (A)             |
| V-11447         | 3/8/2021 (A)             |
| V-11466         | 01/11/18 (A)             |
| V-20201         | 05/14/19 (B)             |
| V-20503         | 02/27/18 (A)             |
| V-30672         | 09/05/18 (A)             |
| V-30673         | 09/05/18 (A)             |
| V-32106         | 03/26/21 (C)             |
| V-32108         | 10/25/18 (B)             |
| V-32109         | 10/13/23 (Initial Issue) |
| V-32110         | 09/06/19                 |
| V-37103         | 02/27/19 (A)             |
| V-37104         | 12/17/18 (A)             |
| V-40305         | 09/10/18 (A)             |
| V-40307         | 09/10/18 (A)             |

**X – SECTIONS  
Q&SL Core Nondestructive Test (NDT)  
Operating Procedure**

| SECTION              | REV. DATE                 |
|----------------------|---------------------------|
| X Contents           | Removed                   |
| X-Master             | 09/09/21 (F)              |
| X-2                  | 02/04/22 (G)              |
| X-3                  | 11/21/19 (J)              |
| X-4                  | 07/02/19 (C)              |
| X-5                  | 08/22/23 (G)              |
| X-7                  | 09/11/19 (C)              |
| X-8                  | 09/11/19 (B)              |
| X-9                  | 09/09/21 (C)              |
| X-10 Cancelled       | Cancelled 1/24/2007       |
| X-11                 | 02/21/23 (K)              |
| X-12                 | 08/19/24 (V)              |
| X-13 Cancelled       | Never Issued              |
| X-15                 | Cancelled 02/15/19 (D)    |
| X-15 App A           | Cancelled 02/15/19 (G)    |
| X-16 Cancelled       | Cancelled: 11/28/18 (B)   |
| X-17                 | 09/11/19 (C)              |
| X-18                 | 08/22/23 (G)              |
| X-19                 | 09/05/24 (M)              |
| X-20                 | 09/26/19 (C)              |
| X-21 Cancelled       | Cancelled 4/12/2002       |
| X-22                 | 07/17/24 (F)              |
| X-23                 | 09/06/24 (K)              |
| X-24 Cancelled       | Cancelled 08/02/24 (F)    |
| X-25                 | 02/15/19 (C)              |
| X-26                 | 02/15/19 (C)              |
| X-27                 | 01/11/19 (A)              |
| X-28                 | 09/13/2021 (A)            |
| X-31                 | 07/03/18 (B)              |
| X-32 Cancelled       | Cancelled 02/02/18 (A)    |
| X-32 App A Cancelled | Cancelled 02/02/18 (A)    |
| X-32 App B Cancelled | Cancelled 02/02/18 (A)    |
| X-32 App C Cancelled | Cancelled 02/02/18 (A)    |
| X-32 App D Cancelled | Cancelled 02/02/18 (A)    |
| X-33                 | 02/22/19 (F)              |
| X-34                 | 08/06/2021 (A)            |
| X-36                 | 6/9/2021 Initial Issue    |
| X-41 Cancelled       | Cancelled 8/9/2010        |
| X-42                 | 2/15/2023 (Initial Issue) |
| X-43                 | 7/20/2023 (Initial Issue) |
| X-44                 | 10/23/23 (Initial Issue)  |
| X-51                 | 09/20/19 (D)              |
| X-52                 | 09/13/19 (D)              |
| X-53                 | 02/22/19 (E)              |
| X-61                 | 09/13/19 (D)              |

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|                       |                         |
|-----------------------|-------------------------|
| X-62                  | 02/22/19 (E)            |
| X-63                  | 09/13/19 (D)            |
| X-70                  | 09/11/19 (C)            |
| X-81                  | 06/29/18 (B)            |
| X-101                 | 02/03/2017 (A)          |
| X-101 App A Cancelled | Cancelled 02/01/2017    |
| X-101 App B Cancelled | Cancelled 02/01/2017    |
| X-102                 | 02/01/18 (A)            |
| X-103 Cancelled       | Cancelled: 11/06/17 (A) |
| X-104                 | 02/02/18 (A)            |
| X-105                 | 02/02/18 (A)            |
| X-106                 | 02/02/18 (A)            |
| X-107                 | 02/02/18 (A)            |
| X-108 Cancelled       | Cancelled 7/05          |
| X-109                 | 12/02/22 Initial Issue  |

**PWI – SECTIONS  
Pratt & Whitney Industrial**

|              |              |
|--------------|--------------|
| PWI-02       | 05/15/20 (A) |
| PWI-02-1     | 05/15/20 (A) |
| PWI-02-2     | 05/15/20     |
| PWI-02-3     | 05/15/20     |
| PWI-02-3-1   | 05/15/20 (A) |
| PWI-02-3-2   | 05/15/20 (A) |
| PWI-02-3-3   | 05/15/20 (A) |
| PWI-02-4     | 05/15/20     |
| PWI-02-5     | 05/15/20     |
| PWI-02-6     | 05/15/20     |
| PWI-02-7     | 05/15/20     |
| PWI-02-8     | 05/15/20     |
| PWI-02-9     | 05/15/20     |
| PWI-02-10    | 05/15/20     |
| PWI-02-10-1  | 05/15/20 (A) |
| PWI-02-10-2  | 05/15/20     |
| PWI-02-10-3  | 05/15/20 (A) |
| PWI-02-10-4  | 05/15/20     |
| PWI-02-10-5  | 05/15/20     |
| PWI-02-10-6  | 05/15/20     |
| PWI-02-10-7  | 05/15/20     |
| PWI-02-10-8  | 05/15/20     |
| PWI-02-10-10 | 05/15/20     |

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This document contains no technical data subject to the EAR or the ITAR.





**PWA Method, Qualification, and Quality Assurance Specifications**

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| Aerospace Supplier Quality Requirements |                        |   |                 |                        |
|---|------------------------|---|-----------------|------------------------|
| Document Number                         | Revision/Revision Date |   | Document Number | Revision/Revision Date |
| ASQR-01                                 | Rev. 14 - 02/01/24     | * | ASQR-20.1       | Rev. 7 - 12/09/24      |
| ASQR-02                                 | Rev. 2 - 11/29/17      |   | UTCQR-09.1      | Rev. 6 - 02/15/19      |
| ASQR-07.5                               | Rev.1 - 12/17/13       |   |                 |                        |
| ASQR-09.1                               | Rev. 7 - 05/31/24      |   |                 |                        |
| ASQR-09.2                               | Rev. 2 - 01/28/19      |   |                 |                        |

**Quality Assurance**

| Document Number   | Revision/Revision Date | Document Number   | Revision/Revision Date   |
|-------------------|------------------------|-------------------|--------------------------|
| * PW-QA 6056      | Rev. 1 - 11/20/24      | PW-QA 6078 Att. N | Rev. 33 - 03/01/19       |
| PW-QA 6071        | Rev. 21 - 10/16/23     | PW-QA 6078 Att. P | Rev. 33 - 03/01/19       |
| PW-QA 6072        | Rev. 8 - 07/22/24      | PW-QA 6078 Att. R | Rev. 34 - 08/22/22       |
| PW-QA 6078        | Rev. 41 - 07/22/24     | PW-QA 6078 Att. S | Rev. 34 - 08/26/22       |
| PW-QA 6078 Att. A | Rev. 34 - 08/22/22     | PW-QA 6078 Att. T | Rev. 34 - 04/09/24       |
| PW-QA 6078 Att. C | Rev. 34 - 08/22/22     | PW-QA 6088        | Rev. 32 - 08/05/24       |
| PW-QA 6078 Att. D | Rev. 35 - 07/11/24     | PW-QA 6090        | Rev. 1 - 09/12/22        |
| PW-QA 6078 Att. E | Rev. 35 - 07/11/24     | PW-QA 6095        | Rev. 2 - 03/31/22        |
| PW-QA 6078 Att. F | Rev. 34 - 09/08/22     | PW-QA 6096        | Rev. 17 - 01/16/24       |
| PW-QA 6078 Att. G | Rev. 34 - 09/08/22     | PW-QA 6100        | Rev. 1 - 03/26/19        |
| PW-QA 6078 Att. H | Rev. 35 - 03/27/24     | PW-QA 6101        | Rev. 4 - 02/06/19        |
| PW-QA 6078 Att. I | Rev. 34 - 08/22/22     | PW-QA 6101 Att. 1 | Rev. 1 - 06/17/16        |
| PW-QA 6078 Att. J | Rev. 34 - 08/26/22     | PW-QA 6102        | Rev. 1 - 08/06/2021      |
| PW-QA 6078 Att. K | Rev. 33 - 03/01/19     | PW-QA 6103        | Rev. 1 - 06/15/21        |
| PW-QA 6078 Att. L | Rev. 33 - 03/01/19     | PW-QA-6106        | Initial Issue - 09/02/20 |
| PW-QA 6078 Att. M | Rev. 33 - 03/01/19     | * SEE 200         | Rev. 25 - 10/02/24       |

**Methods - See MCL NDT Appendix & Sections**

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**Industrial Supplier Quality Requirements (ISQR) & (PWI)**

|  | <b>Document Number</b> | <b>Revision</b> | <b>Title</b>   |
|--|------------------------|-----------------|--|
|  | ISQR-01                | 6               | Industrial Supplier Quality  |
|  | ISQR -02               | 5               | Cert Testing Control of Materials Parts Process                              |
|  | ISQR-02-1              | 2               | Controls & Test Frequencies for Metal Removal by EDM, ECM, LBMR              |
|  | ISQR-02-2              | 2               | Controls & Test Frequencies for Rotor Forgings & Rolled ring                 |
|  | ISQR -02-3             | Initial         | Controls & Test Frequency for Airfoil Castings                               |
|  | ISQR -02-3-1           | 2               | Microstructure Standard 1 Hot Isostatically Pressed (HIP'd) Airfoil Castings |
|  | ISQR -02-3-2           | 2               | Microstructure Standard 2 PWPS 2005 Aifoil Castings                          |
|  | ISQR -02-3-3           | 2               | Microstructure Standard 3 PWPS 2007 Aifoil Castings                          |
|  | ISQR -02 -4            | Initial         | Controls/Test Frequency for Structural Castings                              |
|  | ISQR -02 -5            | Initial         | Controls/Test Frequencies Airfoil Forgings                                   |
|  | ISQR-02-6              | Initial         | Controls/Test Frequencies Non-Rotor Forgings, Rolled rings Contour Stock     |
|  | ISQR-02-7              | Initial         | Controls/Test Frequencies Chemical/Metallurgical Processing                  |
|  | ISQR-02-8              | 1               | Controls/Test Frequencies Chemical/Electrochemical Metal Finishing           |
|  | ISQR-02-9              | Initial         | Controls/Test Frequencies Chemical/Electrochemical Metal Finishing           |
|  | ISQR-02-10             | Initial         | Controls/Test Frequencies Thermal Coatings                                   |
|  | ISQR-02-10-01          | 2               | PWPS 2001 Plasma & HVOF Deposition 3 Layer Coating                           |
|  | ISQR-02-10-02          | Initial         | PWPS 2002 Diffused Aluminide Slurry Coating                                  |
|  | ISQR-02-10-03          | 2               | PWPS 2012 Plasma 2 Layer Coating Accept Standard 3                           |
|  | ISQR-02-10-04          | Initial         | PWPS 2013 Plasma Coating Accept Standard 4                                   |
|  | ISQR-02-10-05          | Initial         | PWPS 2014 Plasma 2 Layer Coating Stand 5                                     |
|  | ISQR-02-10-06          | Initial         | PWPS 2015 Plasma 1 or 2 Layer Coating Stand 6                                |

**Industrial Supplier Quality Requirements (ISQR) & (PWI)**

|  | <b>Document Number</b> | <b>Revision</b> | <b>Title</b>   |
|--|------------------------|-----------------|--|
|  | ISQR-02-10-07          | Initial         | PWPS 2016 Plasma 2 Layer Coating Stand 7   |
|  | ISQR-02-10-08          | Initial         | PWPS 2017 Plasma 2 Layer Coating Acceptance Standard 8                               |
|  | ISQR-02-10-10          | Initial         | PWPS 2023 Vapor Deposition Pack Coating Acceptance Standard 10                       |
|  | ISQR-03                | 3               | Supplier Sampling Requirements   |
|  | ISQR-04                | 2               | UPPAP  |
|  | ISQR-05                | Initial         | Handling, Storage, Packaging, Preservation & Delivery                                |
|  | ISQR-06 App A          | Initial         | Control of Nonconforming Articles by Supplier <b>(MHI-PW Power Systems use only)</b> |
|  | ISQR-06                | 1               | Control of Nonconforming Articles by Supplier  |
|  | ISQR-07                | 1               | Quality Control Requirements for Castings Produced by Suppliers                      |
|  | ISQR-08                | 3               | Industrial Control of Special Identification & Serialization                         |
|  | ISQR-08.1              | 1               | Heat Code Suffix Supplier Identification Listing                                     |
|  | PWI-02                 | Initial         | Cert Testing Control of Materials Parts Process                                      |
|  | PWI-03                 | Initial         | Supplier Sampling Requirements   |
|  | PWI-04                 | Initial         | P&W Production Part Approval Process (UPPAP) for Industrial Engines                  |
|  | PWI-07-Q               | Initial         | Quality Control Requirements for Castings Produced by Suppliers                      |
|  | PWI-08-Q               | Initial         | Industrial Control of Special Identification & Serialization                         |
|  | PWI-08-Q Appendix 1    | 2               | Heat Code Suffix Supplier Identification Listing                                     |

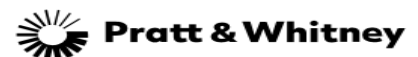
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SOURCE FOR "DIN" or GLOBAL INDUSTRY STDS SPECIFICATIONS CONTACT:

GLOBAL ENGINEERING DOCUMENTS  
 1990M STREET  
 N.W. SUITE 400  
 WASHINGTON, DC 20036  
 PHONE: 1-800-854-7179

|   | MISCELLANEOUS                              | REVISION DATE |
|---|--|---------------|
|   | ANNEX A REVISED SUPERSEDES 11/09 ISSUE     | 05/2010       |
|   | ANNEX A-PL-V2500 (NEW)                     | 11/2015       |
|   | ANNEX A-MUC REVISED SUPERSEDES 6/16 ISSUE  | 03/2017       |
|   | ANNEX A1-MUC SUPERSEDES 06/16 ISSUE        | 02/2021       |
| * | APM1-1 SUPERSEDED VERSION 2024-08          | 12/2024       |
| * | APM1-1 BEIBLATT 1 SUPERSEDED 2024-08       | 12/2024       |
| * | APM1-1 BEIBLATT 2 SUPERSEDED 2024-08 ISSUE | 12/2024       |
| * | APM1-2 SUPERSEDED 2024-08 ISSUE            | 12/2024       |
| * | APM1-4 REVISED SUPERSEDES 08-2024 ISSUE    | 12/2024       |
| * | APM1-5 REVISED SUPERSEDES 08-2024 ISSUE    | 12/2024       |

|  |                                    |         |
|--|------------------------------------|---------|
|  | DIN65035 (NOW DEFINED IN MTL161-3) | 01/2012 |
|--|------------------------------------|---------|

|  | FRM        | REVISION DATE |
|--|------------|---------------|
|  | FR-626 NEW | 01/2023       |

|  | MTC - CHEMICAL SOLUTIONS                        | REVISION DATE |
|--|---|---------------|
|  | MTC5  | 02/1985       |
|  | MTC8  | 08/1987       |
|  | MTC111 SUPERSEDES 2018-08 ISSUE                 | 01/2023       |
|  | MTC127  | 05/1985       |
|  | MTC151 REVISED 2018-02 SUPERSEDES 1989-01 ISSUE | 02/2018       |
|  | MTC155 SUPERSEDES 2022-10 ISSUE                 | 10/2023       |
|  | MTC149 SUPERSEDES 2017-06 ISSUE                 | 11/2021       |
|  | MTC155 SUPERSEDES 2018-01 ISSUE                 | 10/2022       |
|  | MTC175  | 11/2009       |
|  | MTC217 SUPERSEDES 03/1992                       | 03/2022       |
|  | MTC219  | 04/2001       |
|  | MTC231  | 09/1984       |
|  | MTC233  | 11/1999       |
|  | MTC235 SUPERSEDES 07/2016 ISSUE                 | 03/2022       |
|  | MTC261  | 03/1983       |
|  | MTC263  | 06/2003       |
|  | MTC281  | 03/1983       |
|  | MTC284  | 01/2004       |
|  | MTC315 SUPERSEDES 2019-02 ISSUE                 | 06/2022       |

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|                                   |         |
|-----------------------------------|---------|
| MTC316 SUPERSEDES 2022-06 ISSUE   | 10/2022 |
| MTC461                            | 11/1999 |
| MTC475                            | 12/1989 |
| MTC601 SUPERSEDES 2020-08 ISSUE   | 11/2021 |
| MTC610 SUPERSEDES 2021-12 ISSUE   | 05/2022 |
| MTC611 SUPERSEDES 2021-12 ISSUE   | 10/2022 |
| * MTC655 SUPERSEDES 2018-01 ISSUE | 09/2024 |
| MTC718 SUPERSEDES 2022-08 ISSUE   | 10/2023 |

| MTG - HARARDOUS MATERIALS DATA SHEET |  | REVISION DATE |
|--------------------------------------|--|---------------|
| MTG1313                              |  | 12/1981       |
| MTG1315                              |  | 12/1981       |

| MTH - AUXILIARY MATERIALS                    |  | REVISION DATE |
|--|--|---------------|
| MTH108                                       |  | 12/2007       |
| MTH109                                       |  | 12/2004       |
| MTH110                                       |  | 02/2001       |
| MTH133 06-16 REVISED SUPERSIEDES 07-03 ISSUE |  | 06/2016       |
| MTH168                                       |  | 08/1985       |
| MTH169 SUPERSEDED VERSION 1994-09            |  | 01/2020       |
| MTH181                                       |  | 05/2001       |
| MTH190                                       |  | 06/2003       |
| MTH214 SUPERSEDES 2019-02 ISSUE              |  | 09/2020       |
| MTH217 SUPERSEDES 2018-11 ISSUE              |  | 08/2024       |
| MTH219                                       |  | 04/2001       |
| MTH220                                       |  | 02/2009       |
| MTH236                                       |  | 05/1994       |
| MTH239 SUPERSEDES 2006-12 ISSUE              |  | 11/2019       |
| MTH250 SUPERSEDES 08/2014 ISSUE              |  | 03/2020       |
| MTH251 SUPERSEDES 10-2000 ISSUE              |  | 07/2024       |
| MTH252 SUPERSEDES 12/2019 ISSUE              |  | 12/2019       |
| MTH311 SUPERSEDES 02-16 ISSUE                |  | 05/2021       |
| MTH312 SUPERSEDES 09-11 ISSUE                |  | 07/2017       |
| MTH313 SUPERSEDES 02-16 ISSUED               |  | 05/2021       |
| MTH333 REVISED SUPERSEDES 2023-04 ISSUE      |  | 02/2024       |
| MTH336                                       |  | 07/2007       |
| MTH346                                       |  | 10/2000       |
| MTH370                                       |  | 11/2001       |
| MTH451 SUPERSEDES 2020-01 ISSUE              |  | 11/2023       |
| MTH452 SUPERSEDES 2019-04 ISSUE              |  | 11/2023       |
| MTH497 INACTIVE FOR NEW DESIGN               |  | 01/2016       |
| * MTH499 SUPERSEDES 2003-11 ISSUE            |  | 09/2024       |
| MTH505 INACTIVE FOR NEW DESIGN               |  | 09/2009       |
| MTH511 SUPERSEDES 2006-12 ISSUE              |  | 04/2018       |
| MTH522 SUPERSEDES 10/09 ISSUE                |  | 03/2015       |
| * MTH525 SUPERSEDES 2001-09 ISSUE            |  | 06/2024       |
| MTH541 SUPERSEDES 2016-02                    |  | 01/2023       |
| MTH557 SUPERSEDES 2021-10 ISSUE              |  | 01/2023       |
| MTH558 SUPERSEDES 2021-10 ISSUE              |  | 01/2023       |
| MTH590 SUPERSEDES 07-03 ISSUE                |  | 07/2013       |
| MTH593 SUPERSEDES 05-00 ISSUE                |  | 07/2013       |
| MTH627                                       |  | 09/1995       |
| MTH628                                       |  | 12/2004       |
| MTH631                                       |  | 09/2009       |
| MTH655                                       |  | 12/2004       |
| MTH697 SUPERSEDES 03/13 ISSUE                |  | 04/2018       |
| MTH703 SUPERSEDES 2004-12 ISSUE              |  | 02/2024       |
| MTH712                                       |  | 04/2003       |
| MTH788 SUPERSEDES 10-09 ISSUE                |  | 11/2015       |
| MTH867                                       |  | 06/2021       |
| MTH897 SUPERSEDES 03-2012 ISSUE              |  | 12/2020       |
| MTH995 SUPERSEDES 2019-12 ISSUE              |  | 07/2022       |
| MTH996 SUPERSEDES 2010-10 ISSUE              |  | 01/2020       |
| MTH1129 SUPERSEDES 2016-02 ISSUE             |  | 02/2023       |
| MTH1130 SUPERSEDES 2016-03 ISSUE             |  | 07/2018       |
| MTH1131 SUPERSEDES 2016-10 ISSUE             |  | 02/2018       |

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|                                  |         |
|----------------------------------|---------|
| MTH1132 SUPERSEDES 2018-10 ISSUE | 06/2021 |
|----------------------------------|---------|

| MTL - PROCUREMENT                                    | REVISION DATE |
|--|---------------|
| MTL101 SUPERSEDES 2012-03 ISSUE                      | 02/2021       |
| MTL101-1 SUPERSEDES 2016-11 ISSUE                    | 02/2021       |
| MTL101-2 SUPERSEDES 2024-02 ISSUE                    | 05/2024       |
| MTL101-3 SUPERSEDES 2016-11 ISSUE                    | 02/2021       |
| AMENDMENT  | 05/2004       |
| MTL109   | 05/1980       |
| MTL113   | 12/2004       |
| MTL115 SUPERSEDED BY MTL115-1, -2, -3                | 02/2005       |
| MTL115-1   | 12/1999       |
| MTL115-2   | 12/1999       |
| MTL116   | 04/2008       |
| MTL118   | 02/1982       |
| MTL118-1 SUPERSEDED 1996-09 ISSUE                    | 07/2004       |
| MTL118-2 SUPERSEDED 1996-09 ISSUE                    | 07/2004       |
| MTL118-3 SUPERSEDED 2017-07 ISSUE                    | 02/2024       |
| MTL119 REVISED                                       | 10/2014       |
| MTL119 BEIBLATT 1                                    | 04/2002       |
| MTL120   | 04/2005       |
| MTL120-1 SUPERSEDES 06-13 ISSUE                      | 09/2017       |
| MTL120-2 SUPERSEDES 09-11 ISSUE                      | 05/2016       |
| MTL120-3   | 09/2008       |
| MTL120-3 AMENDMENT SUPERSEDES 03/10 ISSUE            | 06/2013       |
| MTL122 SUPERSEDES 11/1981 ISSUE                      | INACTIVE      |
| MTL122-1 SUPERSEDES 02/1997 ISSUE                    | 05/2012       |
| MTL122-2 SUPERSEDES 05/2012 ISSUE                    | 04/2023       |
| MTL122-3 SUPERSEDES 05/2012 ISSUE                    | 05/2023       |
| MTL124   | 05/1990       |
| MTL125   | 09/1991       |
| MTL125 TEIL 1  | 11/1995       |
| MTL125 TEIL 2  | 11/1995       |
| MTL125 TEIL 3 SUPERSEDES BY 1995-11 ISSUE            | 10/2019       |
| MTL126   | 07/1987       |
| MTL128   | 07/1992       |
| MTL128-1 SUPERSEDES 2017-02 ISSUE                    | 10/2021       |
| MTL128-2 SUPERSEDES 2024-02 ISSUE                    | 05/2024       |
| MTL-128-3 SUPERSEDES 1992-07 ISSUE                   | 06/2017       |
| * MTL129 SUPERSEDES 2017-03 ISSUE                    | 10/2020       |
| MTL133   | 07/2003       |
| MTL138 TEIL 1  | 08/1994       |
| MTL138 TEIL 2  | 08/1994       |
| MTL138 TEIL 3  | 08/1994       |
| MTL138 TEIL 4  | 08/1994       |
| MTL138 TEIL 5  | 08/1994       |
| MTL142   | 12/2007       |
| MTL144-1 SUPERSEDES 06/2013 ISSUE                    | 04/2022       |
| MTL144-2 SUPERSEDES 04/2012 ISSUE                    | 04/2022       |
| MTL144-3 SUPERSEDES 04-22 ISSUE                      | 05/2023       |
| MTL145 TEIL 1  | 12/1995       |
| MTL145 TEIL 2  | 12/1995       |
| MTL145 TEIL 3  | 12/1995       |
| MTL145 TEIL 4  | 12/1995       |
| MTL156 REVISED 2017-04 SUPERSEDES 2006-07 ISSUE      | 04/2017       |
| MTL156-1 SUPERSEDED BY 2017-05 ISSUE                 | 10/2021       |
| MTL156-2 SUPRSEDED BY 2017-05                        | 02/2024       |
| MTL156-3 REVISED 2018-02 SUPERSEDED BY 02/2018 ISSUE | 05/2021       |
| MTL161-1 SUPERSEDES 4/2013 ISSUE                     | 10/2015       |
| MTL161-2 SUPERSEDES 02/2005 ISSUE                    | 04/2013       |
| MTL161-3 REVISED                                     | 04/2013       |
| MTL166-1 SUPERSEDES 10-15 ISSUE                      | 03/2017       |
| MTL 166-3 REVISED SUPERSEDES 02-15 ISSUE             | 05/2017       |

| MTN - FUNDAMENTAL STANDARD | REVISION DATE |
|----------------------------|---------------|
| MTN3                       | 11/1990       |

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|   |                         |
|---|-------------------------|
| MTN57 TEIL 1  | 03/1994                 |
| MTN57 TEIL 2  | 03/1994                 |
| MTN68   | 03/1986                 |
| MTN70   | 06/2009                 |
| MTN71 NEW   | 06/2010                 |
| MTN72   | 09/2020                 |
| MTN75 REVISED SUPERSEDES 1987-11                                  | 09/2020                 |
| MTN76   | 09/2020                 |
| MTN78 REVISED SUPERSEDES 2016-02                                  | 11/2018                 |
| MTN93 REVISED SUPERSEDES 11-14 ISSUE                              | 11/2014                 |
| MTN106 REVISED SUPERSEDES 02-98 ISSUE                             | 12/2016                 |
| MTN110  | 03/1995                 |
| MTN115  | 01/2009                 |
| MTN120 SUPERSEDES 1994-02 ISSUE                                   | 08/2018                 |
| MTN122 REVISED SUPERSEDES 01-09 ISSUE                             | 06/2010                 |
| MTN123  | 01/2009                 |
| MTN124  | 01/2009                 |
| MTN129 REVISED SUPERSEDES 03-0 ISSUE                              | 09/2016                 |
| MTN178-8  | 03/1997                 |
| MTN180  | 04/1985                 |
| MTN199  | 10/1984                 |
| MTN1000   | 04/1992                 |
| MTN1079-1 WITHDRAWN - NO REPLACEMENT                              | 11/2005                 |
| MTN1208   | 11/2005                 |
| MTN1213 REVISED 01-18 SUPERSEDES 2018-01 ISSUE                    | 09/2023                 |
| MTN10531-1  | 02/1997                 |
| MTN10534  | 07/2003                 |
| * MTN94111 SUPERSEDES 2017-09 ISSUE                               | 09/2024                 |
| MTN94111 BEIBLATT 1 SUPERSEDES 08-12 ISSUE                        | 07/2014                 |
| MTN94111 BEIBLATT 2 SUPERSEDED BYMTN94111 BEIBLATT 6              | 09/2008                 |
| MTN94111 BEIBLATT 3   | 03/2008                 |
| MTN94111 BEIBLATT 4 SUPERSEDES 2012-03 ISSUE                      | 05/2019                 |
| MTN94111 BEIBLATT 6 SUPERSEDES 2016-10 ISSUE                      | 04/2022                 |
| MTN94111 BEIBLATT 7 SUPERSEDES 2000-03 ISSUE                      | 12/20/2020<br>WITHDRAWN |
| MTN94111 BEIBLATT 11 SUPERSEDES 2024-02 ISSUE                     | 03/2024                 |
| MTN94111 BEIBLATT 12 SUPERSEDES 02-06 ISSUE                       | 04/2012                 |
| MTN94111 BLATT 14 06-17 ISSUED 02-10 SUPERSED BY MTV 3 BIEBLATT 3 | 06/2017                 |
| * MTN94111 BLATT 15 SUPERSEDES 2023-11 ISSUE                      | 11/2024                 |
| MTN94111 BIEBLATT 17 SUPERSEDES 2013-11 ISSUE                     | 06/2019                 |
| MTN94112  | 03/1999                 |

|  | MTP - INSPECTION | REVISION DATE |
|--|------------------|---------------|
| MTP2 SUPERSEDED BY QUALITY INSPECTION SPEC MTP 208 |                  | 02/2000       |
| MTP2 BEIBLATT 1                                    |                  | 02/2000       |
| MTP3   |                  | 08/1993       |
| MTP3 SUPL 1  |                  | 11/1980       |
| MTP13-8 REVISED SUPERSEDES 11-09 ISSUE             |                  | 07/2011       |
| MTP11  |                  | 06/2005       |
| MTP11 BEIBLATT 1 SUPERSEDED BYMTP11                |                  | 09/2005       |
| MTP12 SUPERSEDED BY MTP288-1 & -2                  |                  | 11/2006       |
| MTP13-1 SUPERSEDES 09-94 ISSUE                     |                  | 05/2006       |
| MTP13-2 SUPERSEDES 2008-09 ISSUE                   |                  | 01/2022       |
| MTP13-5 BLATT 1 01-00 SUPERSEDED BY MTP13-5        |                  | 01/2000       |
| MTP13-5 SUPERSEDES 05/2011 ISSUE                   |                  | 12/2017       |
| MTP13-8  |                  | 06/2024       |
| MTP13 BEIBLATT 1                                   |                  | 01/2000       |
| MTP13 BEIBLATT 2 TEIL 5                            |                  | 02/1993       |
| MTP20  |                  | 12/2002       |
| MTP20 BEIBLATT 1                                   |                  | 11/2009       |
| MTP21 SUPERSEDES 2013-09 ISSUE                     |                  | 01/2024       |
| MTP21 BEIBLATT 1                                   |                  | 08/2008       |
| MTP21 BEIBLATT 2                                   |                  | 08/2008       |
| MTP21 BEIBLATT 3                                   |                  | 11/1987       |
| MTP23 REVISED SUPERSEDES 2008-04                   |                  | 11/2020       |
| MTP24  |                  | 06/1990       |
| MTP25  |                  | 06/1981       |

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|  |         |
|--|---------|
| MTP26  | 10/1991 |
| MTP27  | 03/1981 |
| MTP28  | 09/1982 |
| MTP29  | 09/1984 |
| MTP30  | 08/1981 |
| MTP31  | 09/1981 |
| MTP32  | 10/1986 |
| MTP32 BEIBLATT 1                                 | 07/1983 |
| MTP34  | 06/1995 |
| MTP34 TEIL 1 SUPERSEDES 2015-01 ISSUE            | 12/2020 |
| MTP34 TEIL 2 SUPERSEDES 04-91 ISSUE              | 01/2015 |
| MTP34- 3 SUPERSEDES 2015-01 ISSUE                | 12/2020 |
| MTP34 BEIBLATT 1                                 | 06/1994 |
| MTP34 BEIBLATT 1 TEIL 3 SUPERSEDES 06/1994 ISSUE | 06/2020 |
| MTP34-4 SUPERSEDES 09-02 ISSUE                   | 01/2015 |
| MTP35  | 11/1981 |
| MTP37  | 11/1981 |
| MTP40 SUPERSEDES 2002-07 ISSUE                   | 10/2021 |
| MTP41  | 12/1981 |
| MTP42  | 12/2002 |
| MTP44 SUPERSEDES 12-08 ISSUE                     | 03/2013 |
| MTP44 BEIBLATT 1                                 | 03/1991 |
| MTP48 WITHDRAWAL NOTIFICATION                    | 02/1995 |
| MTP49  | 12/1981 |
| MTP50 SUPERSEDES 2001-09 ISSUE                   | 08/2018 |
| MTP50-1  | 09/2001 |
| MTP50-2  | 09/2001 |
| MTP50-3  | 09/2001 |
| MTP54  | 12/2002 |
| MTP55  | 12/2002 |
| MTP56  | 12/2006 |
| MTP57  | 09/1987 |
| MTP57 BEIBLATT 1-4                               | 09/1987 |
| MTP58 BEIBLATT 1-4                               | 06/1988 |
| MTP59  | 01/1984 |
| MTP67 SUPERSEDED BY MTP98-1                      | 07/2008 |
| MTP67 BEIBLATT 1 SUPERSEDED BY MTP98-1           | 07/2008 |
| MTP73  | 10/2007 |
| MTP78 REVISED 06-16 SUPERSEDES 07-13 ISSUE       | 06/2016 |
| MTP86-1  | 02/2008 |
| MTP86-3  | 07/2005 |
| MTP86-4  | 02/2008 |
| MTP86-6  | 02/2008 |
| MTP89PR  | 09/1984 |
| MTP98-1 SUPERSEDES 2016-03 ISSUE                 | 02/2024 |
| MTP98 TEIL 2 SUPERSEDES 12-86 ISSUE              | 12/2003 |
| MTP98-3 REVISED SUPERSEDES 2017-07 ISSUE         | 09/2023 |
| MTP98-4 SUPERSEDES 12/2011 ISSUE                 | 05/2021 |
| MTP100 SUPERSEDES 2018-06 ISSUE                  | 11/2022 |
| MTP101 REVISED SUPERSEDES 1995-07 ISSUE          | 05/2020 |
| MPT107 TEIL 6                                    | 04/1991 |
| MTP114-11 SUPERSEDES 2018-11                     | 06/2024 |
| MTP114-12  | 12/2023 |
| MTP114-15 SUPERSEDES 2019-01 ISSUE               | 06/2024 |
| MTP115-1 REVISED SUPERSEDES 02/01 ISSUE          | 01/2017 |
| MTP115-64 SUPERSEDES 2018-12 ISSUE               | 06/2024 |
| MTP115-145 SUPERSEDES 2018-12 ISSUE              | 11/2019 |
| MTP115-146 NEW                                   | 06/2016 |
| MTP115-1059 SUPERSEDES 11/2019 ISSUE             | 07/2021 |
| MTP118 TEIL 1                                    | 06/1992 |
| MTP118-1 BEIBLATT 1                              | 10/2008 |
| MTP118-4 SUPERSEDES 12-11 ISSUE                  | 11/2013 |
| MTP119   | 08/1988 |
| MTP132   | 02/1997 |
| MTP132 BEIBLATT 1                                | 05/1989 |
| MTP134   | 09/1989 |
| MTP136   | 02/2009 |
| MTP136-1 SUPERSEDED BY MTP136                    | 02/2009 |



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|  |         |
|--|---------|
| MTP139-1   | 07/2008 |
| MTP139-TEIL 2  | 06/1992 |
| MTP140   | 04/1996 |
| MTP146   | 12/2008 |
| MTP148 TEIL 1  | 04/1992 |
| MTP148 BLTA 1 TEIL 1                                       | 04/1992 |
| MTP149 SUPERSEDED BY MTP139T1                              |         |
| MTP152   | 03/1992 |
| MTP152 BEIBLATT 1  | 03/1992 |
| MTP161   | 02/2006 |
| MTP161 BEIBLATT 1  | 02/2006 |
| MTP166   | 11/2001 |
| MTP168   | 07/2002 |
| MTP169   | 04/1996 |
| MTP170   | 10/1994 |
| MTP171   | 03/1996 |
| MTP172   | 09/2008 |
| MTP173   | 06/1992 |
| MTP181 SUPERSEDES 1995-09 ISSUE                            | 11/2021 |
| MTP183   | 06/1996 |
| MTP186   | 06/1996 |
| MTP191   | 03/1996 |
| MTP197   | 01/1997 |
| MTP198 SUPERSEDED BY MTP198-1 & -2                         | 05/2006 |
| MTP198-1   | 05/2006 |
| MTP198-2   | 12/2006 |
| MTP199   | 10/2003 |
| MTP206 SUPERSEDED BY MTP206-1, -03, -04                    | 12/2006 |
| MTP206-1 SUPERSEDES 11-13 ISSUE                            | 08/2017 |
| MTP206-2 SUPERSEDES 05-14 ISSUE                            | 09/2017 |
| MTP206-3 SUPERSEDES 2021-12 ISSUE                          | 12/2021 |
| MTP206-4 SUPERSEDES 03/12 ISSUE                            | 05/2015 |
| MTP208 SUPERSEDES 2013-12ISSUE                             | 04/2021 |
| MTP208 BEIBLATT 1  | 03/2004 |
| MTP219 REVISED SUPERSEDES 04-01 ISSUE                      | 12/2016 |
| MTP228-1 SUPERSEDES 2021-04 ISSUE                          | 10/2022 |
| MTP228-2   | 11/2006 |
| MTP228-3   | 11/2006 |
| MTP237   | 04/2008 |
| MTP242   | 07/2003 |
| MTP243 SUPERSEDES 2003-10                                  | 10/2019 |
| MTP245 REVISED 12-11 SUPERSEDES 2008-05 ISSUE              | 12/2011 |
| MTP246-1   | 05/2008 |
| MTP252   | 12/2003 |
| MTP264 New   | 08/2014 |
| MTP288-1 SUPERSEDES 2006-11 ISSUE                          | 03/2011 |
| MTP288-2 (WITH MTP288-1 - SUPERSEDES MTP12, 2001-03 ISSUE) | 11/2006 |
| MTP309 SUPERSEDES 2019-03 ISSUE                            | 03/2022 |
| MTP343 SUPERSEDES 2019-07 ISSUE                            | 02/2023 |
| MTP358 SUPERSEDES 2020-03 ISSUE                            | 11/2020 |
| MTP6003 New to list  | 04/2016 |
| MTP6003 BBL1 New to list                                   | 04/2016 |
| MTP6004-1 New to list                                      | 02/2011 |
| MTP6004-2 New to list                                      | 03/2020 |
| MTP10005   | 11/1980 |
| MTP10006   | 11/1980 |
| MTP10007   | 10/1980 |
| MTP10008   | 10/1980 |
| MTP10009   | 10/1980 |
| MTP10010   | 10/1980 |
| MTP10011   | 10/1980 |
| MTP10012   | 10/1980 |
| MTP10013   | 10/1980 |
| MTP10014   | 10/1980 |
| MTP10055   | 11/1981 |
| MTP10056   | 11/1981 |
| MTP10057   | 11/1981 |
| MTP10058   | 11/1981 |

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|            |         |
|------------|---------|
| MTP10059   | 11/1981 |
| MTP10060   | 11/1981 |
| MTP10062   | 11/1981 |
| MTP10063   | 04/1981 |
| MTP10068   | 06/1983 |
| MTP10069   | 07/1983 |
| MTP10070   | 07/1983 |
| MTP10071   | 07/1983 |
| MTP10072   | 11/1988 |
| MTP10073   | 07/1983 |
| MTP10074   | 09/1981 |
| MTP10075   | 09/1981 |
| MTP10076   | 09/1981 |
| MTP10077   | 09/1981 |
| MTP10078   | 09/1981 |
| MTP10079   | 09/1981 |
| MTP10080   | 10/1982 |
| MTP10082   | 10/1982 |
| MTP10083   | 10/1982 |
| MTP10084   | 10/1982 |
| MTP10085   | 11/1981 |
| MTP10086   | 04/1981 |
| MTP10088   | 10/1989 |
| MTP10089   | 06/1984 |
| MTP10098   | 06/1983 |
| MTP10099   | 06/1983 |
| MTP10100   | 06/1983 |
| MTP10101   | 06/1983 |
| MTP10102   | 11/1981 |
| MTP10109   | 11/1981 |
| MTP10111   | 11/1981 |
| MTP10157   | 07/1996 |
| MTP10158   | 08/1982 |
| MTP10159   | 08/1982 |
| MTP10160   | 08/1982 |
| MTP10161   | 08/1982 |
| MTP10162   | 01/1985 |
| MTP10164   | 01/1985 |
| MTP10166   | 01/1985 |
| MTP10460PR | 07/1983 |
| MTP10463   | 08/1983 |
| MTP10644   | 01/1985 |
| MTP10645   | 09/1991 |
| MTP10756   | 12/1992 |
| MTP10800   | 02/1987 |
| MTP10811   | 09/2006 |
| MTP10822   | 05/1988 |
| MTP10905   | 07/1989 |
| MTP10906   | 01/1989 |
| MTP10907   | 01/1989 |
| MTP11128   | 03/1994 |
| MTP11139   | 12/1988 |
| MTP11224   | 10/1990 |
| MTP11226   | 05/2003 |
| MTP11227   | 06/2003 |
| MTP11228   | 04/2003 |
| MTP11236   | 09/2002 |
| MTP11239   | 08/2002 |
| MTP11329   | 12/1996 |
| MTP11330   | 05/1991 |
| MTP11332   | 10/1991 |
| MTP11335   | 01/1996 |
| MTP11353   | 08/1992 |
| MTP11365   | 07/1994 |
| MTP11367   | 09/1993 |
| MTP11368   | 11/1992 |
| MTP11369   | 07/1994 |
| MTP11370   | 07/1994 |

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|                                   |         |
|-----------------------------------|---------|
| MTP11371                          | 07/1994 |
| MTP11372                          | 11/1992 |
| MTP11373                          | 06/1996 |
| MTP11382                          | 10/1991 |
| MTP11388                          | 07/1991 |
| MTP11391                          | 07/1991 |
| MTP11400                          | 09/1994 |
| MTP11426                          | 08/1997 |
| MTP11434                          | 01/1994 |
| MTP11435                          | 05/1992 |
| MTP11436                          | 04/1993 |
| MTP11470                          | 01/1994 |
| MTP11472                          | 04/1995 |
| MTP11473                          | 03/1996 |
| MTP11474 SUPERSEDES 07-14 ISSUE   | 02/2015 |
| MTP11475                          | 03/2007 |
| MTP11482                          | 04/2007 |
| MTP11488                          | 08/1993 |
| MTP11489                          | 11/2006 |
| MTP11491                          | 05/1996 |
| MTP11492                          | 05/1996 |
| MTP11493                          | 04/1994 |
| MTP11494                          | 02/1994 |
| MTP11530                          | 08/1993 |
| MTP11540                          | 05/1994 |
| MTP11558                          | 12/1996 |
| MTP11562                          | 04/1994 |
| MTP11563                          | 04/1994 |
| MTP115-64 NEW                     | 06/2016 |
| MTP11578                          | 03/2009 |
| MTP11586                          | 11/2008 |
| MTP11588                          | 10/2009 |
| MTP11624                          | 02/1995 |
| MTP11625 SUPERSEDES 07/2002 ISSUE | 04/2009 |
| MTP11631                          | 11/2001 |
| MTP11632                          | 07/2002 |
| MTP11638                          | 03/1995 |
| MTP11642                          | 04/2001 |
| MTP11643                          | 08/2209 |
| MTP11644                          | 03/2004 |
| MTP11654                          | 03/1995 |
| MTP11656                          | 02/1995 |
| MTP11657                          | 02/1995 |
| MTP11659                          | 01/1995 |
| MTP11664                          | 01/1995 |
| MTP11665                          | 01/1995 |
| MTP11666                          | 10/1997 |
| MTP11670                          | 08/1995 |
| MTP11695                          | 10/2007 |
| MTP11724                          | 04/1996 |
| MTP11727                          | 03/2006 |
| MTP11729                          | 02/1996 |
| MTP11733                          | 10/1996 |
| MTP11735                          | 08/1996 |
| MTP11736                          | 07/1997 |
| MTP11746                          | 10/2003 |
| MTP11751                          | 10/1996 |
| MTP11755                          | 03/1997 |
| MTP11765                          | 04/2006 |
| MTP11766                          | 04/2006 |
| MTP11768                          | 11/1997 |
| MTP11784                          | 10/1997 |
| MTP11787                          | 03/1998 |
| MTP11831                          | 04/2001 |
| MTP11835                          | 03/2005 |
| MTP11838                          | 08/2004 |
| MTP11849                          | 09/2003 |
| MTP11877                          | 10/2007 |

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|                                     |         |
|-------------------------------------|---------|
| MTP11965                            | 04/2001 |
| MTP11978                            | 04/2001 |
| MTP12102                            | 09/2006 |
| MTP12179                            | 02/2004 |
| MTP12180                            | 01/2007 |
| MTP12181                            | 09/2003 |
| MTP12185                            | 07/2004 |
| MTP12186                            | 10/2006 |
| MTP12207                            | 08/2003 |
| MTP12237                            | 08/2008 |
| MTP12238                            | 08/2008 |
| MTP12239                            | 07/2009 |
| MTP12249 SUPERSEDES VERSION 08-2008 | 11/2019 |
| MTP12250 SUPERSEDES VERSION 08-2008 | 11/2019 |
| MTP12251 SUPERSEDES VERSION 08-2008 | 11/2019 |
| MTP12306                            | 05/2005 |
| MTP12323 SUPERSEDES 2007-10 ISSUE   | 10/2023 |
| MTP12339                            | 10/2004 |
| MTP12346                            | 07/2005 |
| MTP12347                            | 07/2005 |
| MTP12348                            | 07/2005 |
| MTP12440                            | 08/2007 |
| MTP12495 SUPERSEDES 2018-04 ISSUE   | 01/2021 |
| MTP12595 INACTIVE FOR NEW DESIGN    | 01/2017 |
| MTP12676 SUPERSEDES 2020-12 ISSUE   | 01/2021 |

| MTQ - QUALITY ASSURANCE STANDARDS                 | REVISION DATE |
|---|---------------|
| MTQ1-1 SUPERSEDED BY MTT130                       | 01/2002       |
| MTQ1-2  | 11/1995       |
| MTQ1-3 SUPERSEDED BY MTT130                       | 01/2002       |
| MTQ1 TEIL 4                                       | 10/1989       |
| MTQ2 BEIBLATT 2 TEIL 1 CANCELLED                  | 02/1985       |
| MTQ2-1 SUPERSEDED BY MTT2-1                       | 12/2007       |
| MTQ2-1 BEIBLATT 1 SUPERSEDED BY MTT2-1BEIBLATTT I | 12/2007       |
| MTQ2-2 SUPERSEDED BY MTT2-2                       | 04/2009       |
| MTQ2-2 BEIBLATT 1 SUPERSEDED BY MTT2-2 BEIBLATT 1 | 07/2009       |
| MTQ2-2 BEIBLATT 2 TEIL 1                          | 02/1985       |
| MTQ2-3  | 02/2004       |
| MTQ2 TEIL 4                                       | 11/1992       |
| MTQ2 TEIL 5                                       | 04/1992       |
| MTQ2-6  | 04/2004       |
| MTQ2-7  | 03/1996       |
| MTQ2 TEIL 8                                       | 02/1993       |
| MTQ3  | 10/1985       |
| MTQ5  | 11/1997       |
| MTQ5 BEIBLATT 1 SUPERSEDED BY MTT305-3            | 09/2005       |
| MTQ5 BEIBLATT 2                                   | 03/1999       |
| MTQ6 CANCELLED                                    | 08/1987       |
| MTQ6-1 SUPERSEDED BY MTT306-2 & -4                | 10/2006       |
| MTQ6 TEIL 2                                       | 11/1992       |
| MTQ7  | 05/1997       |
| MTQ8 CANCELLED                                    | 06/1981       |
| MTQ8 SUPP 1 CANCELLED                             | 06/1981       |
| MTQ8-1  | 11/1996       |
| MTQ8-1 BEIBLATT 1                                 | 02/1996       |
| MTQ8 TEIL 2                                       | 07/1991       |
| MTQ9  | 10/1996       |
| MTQ15   | 04/1990       |
| MTQ16   | 11/1989       |
| MTQ25 CANCELLED                                   | 05/1980       |
| MTQ26   | 12/1995       |
| MTQ27   | 02/2004       |
| MTQ28   | 02/1994       |
| MTQ28 BEIBLATT 1                                  | 11/1999       |
| MTQ28 BEIBLATT 2                                  | 11/1999       |
| MTQ29   | 01/2003       |

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|  |         |
|--|---------|
| MTQ30  | 02/2001 |
| MTQ31  | 04/1986 |
| MTQ32  | 08/1985 |
| MTQ34  | 07/1981 |
| MTQ34 BEIBLATT 1   | 12/1986 |
| MTQ36-1  | 08/1979 |
| MTQ36-2  | 05/1990 |
| MTQ36-4 SUPERSEDED BY MTT306-2                           | 10/2006 |
| WITHDRAWN  | 01/2006 |
| MTQ36-5 WITHDRAWN  | 10/1979 |
| MTQ37 WITHDRAWN  | 07/1990 |
| MTQ37 BEIBLATT 1   | 08/1990 |
| MTQ38 TEIL 1   | 11/1990 |
| MTQ38 TEIL 2   | 09/1985 |
| MTQ39 SUPERSEDED BY MTT32-1                              | 04/2004 |
| MTQ40 CANCELLED  | 05/1984 |
| MTQ41 CANCELLED  | 10/1979 |
| MTQ41-1  | 07/1996 |
| MTQ42  | 01/2005 |
| MTQ42 BEIBLATT 1   | 03/1982 |
| MTQ45  | 05/1997 |
| MTQ46  | 03/1996 |
| MTQ48  | 07/1994 |
| MTQ49  | 12/1998 |
| MTQ49-3  | 09/2004 |
| MTQ50 TEIL 1   | 05/1991 |
| MTQ52 CANCELLED  | 05/1986 |
| MTQ53-1 WITHDRAWN  | 10/1994 |
| MTQ54 WITHDRAWN  | 07/1984 |
| MTQ55 CANCELLED  | 11/1980 |
| MTQ56  | 06/1990 |
| MTQ57  | 07/1991 |
| MTQ58 SUPERSEDED BY MTT358                               | 03/2007 |
| MTQ58 TEIL 1 CANCELLED                                   | 08/1992 |
| MTQ59 WITHDRAWN  | 07/1982 |
| MTQ61 CANCELLED  | 02/1984 |
| MTQ62 SUPERSEDED BY MTT362                               | 03/2005 |
| MTQ63  | 07/1986 |
| MTQ64 SUPERSEDED BY MTT164                               | 11/2006 |
| MTQ65  | 11/1990 |
| MTQ66-1 SUPERSEDED BY MTT366-2                           | 11/2006 |
| MTQ66 TEIL 2   | 05/1984 |
| MTQ66-3  | 08/1999 |
| MTQ66-4  | 11/1998 |
| MTQ66-5  | 11/1997 |
| MTQ67 CANCELLED  | 07/1988 |
| MTQ67 TEIL 1 WITHDRAWN                                   | 03/1993 |
| MTQ67 BEIBLATT 1 TEIL 1 WITHDRAWN                        | 10/1993 |
| MTQ67-2 WITHDRAWN  | 02/1995 |
| MTQ68 WITHDRAWN  | 03/1982 |
| MTQ69  | 07/1996 |
| MTQ70 WITHDRAWN  | 12/1996 |
| MTQ71 TEIL 1   | 06/1991 |
| MTQ71-1 BEIBLATT 1                                       | 08/2001 |
| MTQ71 TEIL 3 CANCELLED                                   | 08/1990 |
| MTQ72 CANCELLED  | 02/1989 |
| MTQ72-1 SUPERSEDED BY PROCESS DATA SHEET IPM 07 04 05-01 | 06/2004 |
| MTQ72-2  | 11/1990 |
| MTQ72-3  | 12/1992 |
| MTQ73-1  | 03/1995 |
| MTQ73-1 BEIBLATT 1                                       | 11/1994 |
| MTQ73 TEIL 2   | 02/1991 |
| MTQ73-2 BEIBLATT 1                                       | 03/1995 |
| MTQ73-3  | 03/1995 |
| MTQ73-4  | 08/1995 |
| MTQ73-5  | 09/1996 |
| MTQ74 WITHDRAWN  | 02/1986 |
| MTQ75 WITHDRAWN  | 07/1985 |

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|  |         |
|--|---------|
| MTQ76 PRELIMINARY  | 08/1983 |
| MTQ76 TEIL 1   | 08/1985 |
| MTQ76 TEIL 2   | 03/1985 |
| MTQ76 TEIL 3   | 02/1985 |
| MTQ80  | 11/1997 |
| MTQ80 TEIL 1 CANCELLED                                     | 05/1990 |
| MTQ85  | 02/1996 |
| MTQ85 BEIBLATT 1   | 12/2004 |
| MTQ87  | 03/1988 |
| MTQ91 WITHDRAWN  | 02/1994 |
| MTQ91 BEIBLATT 1 WITHDRAWN                                 | 01/1994 |
| MTQ91 BEIBLATT 2 WITHDRAWN                                 | 07/1990 |
| MTQ92 WITHDRAWN  | 06/1990 |
| MTQ93-1 WITHDRAWN  | 01/1996 |
| MTQ93-2 WITHDRAWN  | 07/1995 |
| MTQ93 TEIL 3 WITHDRAWN                                     | 11/1994 |
| MTQ93-7 WITHDRAWN  | 05/1996 |
| MTQ93-8 WITHDRAWN  | 01/1997 |
| MTQ97 SUPERSEDED BY MTQ49-3                                | 12/1998 |
| MTQ98 SUPERSEDED BY MTQ71-1                                | 05/1998 |
| MTQ99 WITHDRAWN  | 07/1994 |
| MTQ100   | 12/1995 |
| MTQ103 SUPERSEDED BY MTT403                                | 11/2004 |
| MTQ104   | 02/1996 |
| MTQ105   | 11/1999 |
| MTQ106   | 04/1998 |
| MTQ108 SUPERSEDED BY MTT255                                | 05/2005 |
| MTQ109   | 02/1998 |
| MTQ111   | 02/1997 |
| MTQ115   | 01/1998 |
| MTQ130   | 07/2002 |
| MTQ131   | 05/2000 |
| MTQ135 SUPERSEDED BY MTT435                                | 09/2004 |
| MTQ500-0 SUPERSEDED BY MANUAL MM 02                        | 12/2003 |
| MTQ500-0 BEIBLATT 1 SUPERSEDED BY MANUAL MM 02             | 12/2003 |
| MTQ500-1 SUPERSEDED BY MANUAL MM 02                        | 12/2003 |
| MTQ500-2 SUPERSEDED BY MANUAL MM 02                        | 12/2003 |
| MTQ500-2 BEIBLATT 1 SUPERSEDED BY MANUAL MM 02             | 12/2003 |
| MTQ500-3 SUPERSEDED BY MANUAL MM 02                        | 12/2003 |
| MTQ500-4 SUPERSEDED BY MANUAL MM 02                        | 12/2003 |
| MTQ500-5 SUPERSEDED BY MTT450-1                            | 11/2003 |
| MTQ500-6 SUPERSEDED BY MANAGEMENT MANUAL MM 02             | 12/2003 |
| MTQ500-7 SUPERSEDED BY MANAGEMENT MANUAL MM 02             | 12/2003 |
| MTQ500-8 SUPERSEDED BY MANAGEMENT MANUAL MM 02             | 12/2003 |
| MTQ500-9 SUPERSEDED BY MANAGEMENT MANUAL MM 02             | 12/2003 |
| MTQ500-10 SUPERSEDED BY MANAGEMENT MANUAL MM 02            | 12/2003 |
| MTQ500-11 SUPERSEDED BY MANAGEMENT MANUAL MM 02            | 12/2003 |
| MTQ500-12 SUPERSEDED BY MANAGEMENT MANUAL MM 02            | 12/2003 |
| MTQ500-13 SUPERSEDED BY MANAGEMENT MANUAL MM 02            | 12/2003 |
| MTQ500-14 SUPERSEDED BY MANAGEMENT MANUAL MM 02            | 12/2003 |
| MTQ500-15 SUPERSEDED BY MANAGEMENT MANUAL MM 02            | 12/2003 |
| MTQ500-16 SUPERSEDED BY MANAGEMENT MANUAL MM 02            | 12/2003 |
| MTQ500-17 SUPERSEDED BY MANAGEMENT MANUAL MM 02            | 12/2003 |
| MTQ500-18 SUPERSEDED BY MANAGEMENT MANUAL MM 02            | 12/2003 |
| MTQ500-19 SUPERSEDED BY MANAGEMENT MANUAL MM 02            | 12/2003 |
| MTQ500-20 SUPERSEDED BY MANAGEMENT MANUAL MM 02            | 12/2003 |
| MTQ500-21 SUPERSEDED BY MANAGEMENT MANUAL MM 02            | 12/2003 |
| MTQ500-21 BEIBLATT 1 SUPERSEDED BY MTQ500-24 BEIBEIBLATT 2 | 12/1997 |
| MTQ500-23 SUPERSEDED BY THE BEIBEIBLATT 1 ZU MM 02         | 02/2004 |
| MTQ500-23 BEIBLATT 1                                       | 02/2004 |
| MTQ500-23 BEIBLATT 2 SUPERSEDED BY MTQ500-2 BEIBEIBLATT 1  | 02/2001 |
| MTQ500-23 BEIBLATT 3 SUPERSEDED BY MTQ500-2 BEIBEIBLATT 1  | 02/2004 |
| MTQ500-23 BEIBLATT 4 SUPERSEDED BY MTQ500-2 BEIBEIBLATT 1  | 02/2004 |
| MTQ500-24  | 06/2003 |
| MTQ500-24 BEIBLATT 1                                       | 09/2003 |
| MTQ500-24 BEIBLATT 2 SUPERSEDED BY MTQ500-2 BEIBEIBLATT 1  | 01/2001 |
| MTQ500-24 BEIBLATT 3                                       | 09/2003 |

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|  |         |
|--|---------|
| MTQ500-25  | 10/2003 |
| MTQ500-26  | 11/2000 |
| MTQ500-27 SUPERSEDED BY MM 02 BEIBEIBLATT 2            | 07/2004 |
| MTQ500-27 BEIBLATT 1 SUPERSEDED BY MM 02 BEIBEIBLATT 2 | 07/2004 |
| MTQ500-27 BEIBLATT 2 SUPERSEDED BY MM 02 BEIBEIBLATT 2 | 07/2004 |
| MTQ500-28 SUPERSEDED BY MM 02 BEIBEIBLATT 3            | 07/2004 |
| MTQ3030 WITHDRAWN - NO REPLACEMENT                     | 11/1999 |

| MTS - MATERIALS  | REVISION DATE                  |
|--|--------------------------------|
| MTS1001 TEIL 1   | 05/1984                        |
| MTS1001-2 SUPERSEDES 2021-04 ISSUE                       | 10/2023                        |
| MTS1002-1  | 05/2005                        |
| MTS1003 WITHDRAWN  | 06/1994                        |
| MTS1004-1 WITHDRAWN                                      | 05/1998                        |
| MTS1004-2 WITHDRAWN                                      | 05/1998                        |
| MTS1004 TEIL 3 WITHDRAWN                                 | 06/1994                        |
| MTS1005 WITHDRAWN  | 06/1994                        |
| MTS1006-3  | 12/1998                        |
| MTS1006-4  | 02/2001                        |
| MTS1007-1 (FROM MTS1007 TEIL 1) SUPERSEDES 1992-03 ISSUE | 3/2021 INACTIVE FOR NEW DESIGN |
| MTS1007-2  | 05/1998                        |
| MTS1007-3  | 12/1998                        |
| MTS1007-4  | 05/1998                        |
| MTS1008  | 04/2008                        |
| MTS1018 WITHDRAWAL NOTIFICATION - NO REPLACEMENT         | 04/1998                        |
| MTS1019-1  | 07/1997                        |
| MTS1020-1  | 05/1998                        |
| MTS1021-1  | 07/2000                        |
| MTS1024 TEIL 1 WITHDRAWAL NOTIFICATION - NO REPLACEMENT  | 06/1994                        |
| MTS1024 TEIL 2 WITHDRAWAL NOTIFICATION                   | 02/1996                        |
| MTS1025 TEIL 1 WITHDRAWAL NOTIFICATION                   | 02/1996                        |
| MTS1041 TEIL 1   | 01/1996                        |
| MTS1042-1 GERMAN   | 04/1999                        |
| MTS1042-2 GERMAN   | 04/1999                        |
| MTS1043-1 GERMAN   | 09/1996                        |
| MTS1043-2 GERMAN   | 02/1997                        |
| MTS1044 TEIL 1 WITHDRAWAL NOTIFICATION                   | 06/1994                        |
| MTS1046-1  | 12/1999                        |
| MTS1059 SUPERSEDES 2017-09 ISSUE                         | 05/2023                        |
| MTS1061 SUPERSEDES 2018-11 ISSUE                         | 02/2024                        |
| MTS1061 BEIBLATT 1 SUPERSEDED BY MTS1061                 | 02/2006                        |
| MTS 1062 SUPERSEDES 2020-02 ISSUE                        | 02/2021                        |
| MTS1070 SUPERSEDES 2019-01 ISSUE                         | 08/2019                        |
| MTS1070 BEIBLATT 1 SUPERSEDED BY MTS1070                 | 10/1996                        |
| MTS1077 SUPERSEDES 2018-05 ISSUE                         | 05/2019                        |
| MTS1077 BEIBLATT 1 SUPERSEDED BY MTS1077                 | 03/2007                        |
| MTS1080 SUPERSEDES 2018-10 ISSUE                         | 05/2019                        |
| MTS1080 BEIBLATT 1 SUPERSEDED BY MTS1080                 | 03/2007                        |
| MTS1083 TEIL 1 SUPSEDES 1989-06 ISSUE                    | 01/2021                        |
| MTS1084 REDACTED   | 08/2022                        |
| MTS1086-1 SUPERSEDES 2006-12 ISSUE                       | 06/2009                        |
| MTS1087-1 TEIL 1 SUPERSEDES 1993-05 ISSUE                | 01/2021                        |
| MTS1094-1 SUPERSEDES 2016-04 ISSUE                       | 11/2018                        |
| MTS1094-1 BEIBLATT 1                                     | 11/1992                        |
| MTS1094-2 SUPERSEDES 2008-10 ISSUE                       | 04/2018                        |
| MTS1096-1 SUPERSEDES 2000-07 ISSUE                       | 02/2021                        |
| MTS1098-1  | 06/2002                        |
| MTS1099-1  | 09/2003                        |
| MTS1099 TEIL 2   | 06/1994                        |
| MTS1100-1 SUPERSEDES 2016-07 ISSUE                       | 09/2016                        |
| MTS1101-1 SUPERSEDES 6/2019 ISSUE                        | 08/2021                        |
| MTS1101-2  | 04/2002                        |
| MTS1101-3 GERMAN ONLY                                    | 04/2002                        |
| MTS1101-4 GERMAN ONLY SUPERSEDES 03/2022 ISSUE           | 10/2023                        |
| MTS1101-5 SUPERSEDES 09/2003 ISSUE                       | 02/2018                        |
| MTS1101-6 GERMAN ONLY                                    | 04/2002                        |

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|  |         |
|--|---------|
| MTS1101-7 GERMAN ONLY                                    | 04/2002 |
| MTS1103-1 SUPERSEDES 2007-07 ISSUE                       | 01/2018 |
| MTS1103-2  | 07/2000 |
| MTS1103-   | 07/2000 |
| MTS1103- 4   | 10/2000 |
| MTS1103 BEIBLATT 1 TEIL 3                                | 04/1994 |
| MTS1113  | 02/2008 |
| MTS1125 SUPERSEDES 2019-01 ISSUE                         | 12/2020 |
| MTS1125 BEIBLATT 1 SUPERSEDED BY MTS1125                 | 06/2007 |
| MTS1150-1 SUPERSEDES 1997-06 ISSUE                       | 02/2011 |
| MTS1150-2 (FROM MTS1150 TEIL 2) SUPERSEDES 1995-05 ISSUE | 02/2011 |
| MTS1150-3 (FROM MTS1150 TEIL 3) SUPERSEDES 1995-07 ISSUE | 02/2011 |
| MTS1150-4 (FROM MTS1150 TEIL 4) SUPERSEDES 1997-06 ISSUE | 02/2011 |
| MTS1150 TEIL 5 SUPERSEDES 12-87 ISSUE                    | 02/2011 |
| MTS1152 REVISED SUPERSEDES 11-15 ISSUE                   | 11/2016 |
| MTS1155-1  | 09/1999 |
| MTS1159 TEIL 1 WITHDRAWAL NOTIFICATION                   | 02/1996 |
| MTS1160-1  | 07/1998 |
| MTS1165  | 10/2005 |
| MTS1169 TEIL 1 WITHDRAWAL NOTIFICATION                   | 06/1994 |
| MTS1176-1  | 11/2004 |
| MTS1176-2  | 11/2004 |
| MTS1183-1  | 01/2003 |
| MTS1184 TEIL 1 WITHDRAWAL NOTIFICATION                   | 06/1994 |
| MTS1187 TEIL 1 SUPERSEDES 2015-04                        | 04/2023 |
| MTS1187 TEIL 2   | 05/1995 |
| MTS1187 TEIL 3 REVISED                                   | 05/1995 |
| MTS1187 TEIL 4 SUPERSEDES 10/83 ISSUE                    | 09/2010 |
| MTS1187 TEIL 5   | 05/1995 |
| MTS1189-1 SUPERSEDES 2008-11 ISSUE                       | 05/2013 |
| MTS1190 TEIL 1   | 06/1994 |
| MTS1190 TEIL 2   | 06/1994 |
| MTS1190 TEIL 3   | 06/1994 |
| MTS1199 TEIL 1 WITHDRAWAL NOTIFICATION                   | 02/1996 |
| MTS1201  | 11/1985 |
| MTS1202 TEIL 1   | 06/1994 |
| MTS1202 TEIL 2   | 06/1994 |
| MTS1202 TEIL 3   | 06/1994 |
| MTS1204 TEIL 3   | 07/1994 |
| MTS1206-1 SUPERSEDES 2015-11 ISSUE                       | 11/2021 |
| MTS1210 SUPERSEDES 2016-08 ISSUE                         | 01/2021 |
| MTS1213-2  | 09/2004 |
| MTS1213-3 SUPERSEDES 2004-09 ISSUE                       | 05/2021 |
| MTS1213-4 GERMAN   | 10/2004 |
| MTS1221 SUPERSEDED BY MTS1070                            | 07/2001 |
| MTS1221 BEIBLATT 1 WITHDRAWN - NO REPLACEMENT            | 07/2001 |
| MTS1221 BEIBLATT 2 WITHDRAWN - NO REPLACEMENT            | 07/2001 |
| MTS1228 SUPERSEDES 1996-10 ISSUE                         | 07/2019 |
| MTS1228 BEIBLATT 1                                       | 10/1985 |
| MTS1230 TEIL 1 WITHDRAWAL NOTIFICATION                   | 02/1996 |
| MTS1234 REVISED 01-2018 SUPERSEDES 2012-04 ISSUE         | 01/2018 |
| MTS1235 SUPERSEDES 2006-08 ISSUE                         | 01/2018 |
| MTS1238 TEIL 1 SUPERSEDES 1994-05 ISSUE                  | 01/2021 |
| MTS1239 TEIL 1   | 04/1994 |
| MTS1246 TEIL 1   | 11/1995 |
| MTS1252 REVISED 01-18 SUPERSEDES 2017-05 ISSUE           | 01/2018 |
| MTS1263-1  | 12/2004 |
| MTS1267-1  | 09/2006 |
| MTS1267-2  | 09/2006 |
| MTS1267-3  | 09/2006 |
| MTS1267-4  | 02/2008 |
| MTS1267-5  | 09/2006 |
| MTS1274 SUPERSEDES 2010-05 ISSUE                         | 11/2015 |
| MTS1279-1 (FROM MTS1279 TEIL 1)                          | 11/1988 |
| MTS1279 TEIL 2   | 11/1988 |
| MTS1279 TEIL 3   | 11/1988 |
| MTS1279-5 (FROM MTS1279 TEIL 5)                          | 11/1988 |
| MTS1280  | 04/1998 |



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|  |         |
|--|---------|
| MTS1281-1  | 02/2005 |
| MTS1285 TEIL 1 WITHDRAWAL NOTIFICATION                   | 07/1995 |
| MTS1288 SUPERSEDES 1996-10 ISSUE                         | 07/2019 |
| MTS1288-1 GERMAN   | 04/1997 |
| MTS1295 TEIL 1   | 04/1987 |
| MTS1295 TEIL 2   | 04/1987 |
| MTS1295 NEW  | 02/2013 |
| MTS1301-1 (FROM MTS1301 TEIL 1) SUPERSEDED 1988-05 ISSUE | 03/2024 |
| MTS1301 BEIBLATT 1 TEIL 1                                | 12/1987 |
| MTS1309 SUPERSEDES 2018-05 ISSUE                         | 08/2023 |
| MTS1323-1 SUPERSEDES 2004-10 ISSUE                       | 10/2013 |
| MTS1327-1  | 03/2005 |
| MTS1327-2  | 03/2005 |
| MTS1327-3  | 03/2005 |
| MTS1328-1  | 05/2006 |
| MTS1333 SUPERSEDES 2017-07 ISSUE                         | 09/2022 |
| MTS1340-1  | 04/2006 |
| MTS1348-1  | 09/1996 |
| MTS1356 TEIL 2   | 03/1990 |
| MTS1357- 1   | 08/2007 |
| MTS1357- 2   | 08/2007 |
| MTS1359-1 GERMAN   | 09/1999 |
| MTS1360-2 SUPERSEDED BY MTS1410-2                        | 10/2007 |
| MTS1364-1 SUPERSEDES 2008-12 ISSUE                       | 03/2017 |
| MTS1364-2  | 04/2002 |
| MTS1371-2  | 03/2004 |
| MTS1373-1 SUPERSEDES 2016-02 ISSUE                       | 11/2018 |
| MTS1373-2  | 10/2011 |
| MTS1377-1 SUPERSEDES 1999-12 ISSUE                       | 06/2021 |
| MTS1378 TEIL 1 SUPERSEDES 07/1995                        | 08/2021 |
| MTS1378 TEIL 2 SUPERSEDES 05/1995                        | 08/2021 |
| MTS1378 TEIL 3 SUPERSEDES 07/1995                        | 08/2021 |
| MTS1378 TEIL 4 SUPERSEDES 05/1995                        | 08/2021 |
| MTS1379 TEIL 1   | 05/1993 |
| MTS1383-1 SUPERSEDES 2012-10 ISSUE                       | 07/2020 |
| MTS1383-2  | 07/2002 |
| MTS1385-1  | 12/2004 |
| MTS1385 BEIBLATT 1 TEIL 1                                | 04/1995 |
| MTS1387-1 SUPERSEDED 1997-07 ISSUE                       | 02/2020 |
| MTS1387-2 SUPERSEDED 1997-07 ISSUE                       | 02/2020 |
| MTS1388 TEIL 1   | 10/1993 |
| MTS1389-1 SUPERSEDES 2015-10 ISSUE                       | 11/2017 |
| MTS1389-2  | 07/2005 |
| MTS1391 TEIL 1   | 10/1993 |
| MTS1392 TEIL 1   | 02/1994 |
| MTS1393 TEIL 1   | 04/1994 |
| MTS1394-1  | 04/1996 |
| MTS1394-2  | 04/1996 |
| MTS1395 SUPERSEDES 2021-03 ISSUE                         | 03/2022 |
| MTS1398 TEIL 1   | 05/1995 |
| MTS1398-2  | 04/1996 |
| MTS1401 TEIL 1   | 09/1995 |
| MTS1401 TEIL 2   | 09/1995 |
| MTS1403 TEIL 1   | 12/1995 |
| MTS1405-1 SUPERSEDES 04-1996 ISSUE                       | 04/2012 |
| MTS1406-1  | 08/2002 |
| MTS1406-2  | 08/2002 |
| MTS1406-3  | 04/1996 |
| MTS1406-4  | 04/1996 |
| MTS1407-1  | 04/1996 |
| MTS1407-2  | 08/2002 |
| MTS1424-1  | 09/2004 |
| MTS1424-2  | 09/2004 |
| MTS1424-3  | 09/2004 |
| MTS1424-4  | 09/2004 |
| MTS1424-5  | 09/2004 |
| MTS1426-1  | 04/2000 |
| MTS1427 REVISED SUPERSEDES 2018-01                       | 09/2020 |

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|   |                      |
|---|----------------------|
| * MTS1435-1 SUPERSEDES 2022-8 ISSUE           | 09/2024              |
| * MTS1436-1 SUPERSEDES 2019-09 ISSUE          | 08/2024              |
| MTS1436-2                                     | 11/2007              |
| MTS1441-1 SUPERSEDES 2018-11 ISSUE            | 09/2022              |
| MTS1441-2 SUPERSEDES 07-11 ISSUE              | 12/2011              |
| MTS1448 NEW                                   | 02/2013              |
| MTS1452                                       | 11/2006              |
| MTS1461-1 SUPERSEDES 2019-01 ISSUE            | 08/2019              |
| * MTS1464-1 SUPERSEDES 2023-02 ISSUE          | 09/2024              |
| MTS1470                                       | 10/2001              |
| MTS1487-1                                     | 11/2011              |
| MTS1492                                       | 11/2006              |
| MTS1590                                       | 09/2018              |
| MTS1492                                       | 11/2006              |
| MTS1532 SUPERSEDES 11-2017 ISSUE              | 12/2019              |
| MTS1548-1                                     | 09/2006              |
| * MTS1552-1 SUPERSEDES 2019-09 ISSUE          | 08/2024              |
| MTS1559-1 SUPERSEDES 01-2010                  | 08/2021              |
| MTS1589 SUPERSEDES 2008-11 ISSUE              | 09/2018              |
| MTS1590 SUPERSEDES 2008-11 ISSUE              | 09/2018              |
| MTS1599                                       | 02/2009              |
| MTS1603-1 REVISED SUPERSEDES 09-14 ISSUE      | 10/2016              |
| MTS1603-2 REVISED SUPERSEDES 12-15 ISSUE      | 10/2016              |
| MTS1610 SUPERSEDES 2016-11 ISSUE              | 05/2022              |
| MTS1660 INITIAL ISSUE                         | 08/2022              |
| MTS1688 2016-02 (INITIAL ISSUE)               | 02/2016              |
| MTS1689 SUPERSEDES 2015-12 ISSUE              | 03/2019              |
| MTS1692 SUPERSEDES 2016-01 ISSUE              | 04/2018              |
| MTS1693 SUPERSEDES 2019-06 ISSUE              | 11/2021              |
| MTS1701 SUPERSEDES 12-16 ISSUE03-17 REVISED   | 03/2017              |
| MTS1702                                       | 03/2024              |
| MTS1703 SUPERSEDES 04/2017 ISSUE              | 05/2018              |
| MTS1704 SUPERSEDES 2018-06 ISSUE              | 09/2023              |
|   |                      |
| <b>MTT</b>                                    | <b>REVISION DATE</b> |
| MTT2-1  | 03/2009              |
| MTT2-1 BLATT 1                                | 02/2010              |
| MTT 98 SUPERSEDED BY MTT164                   | 11/2006              |
| MTT128  | 01/2006              |
| MTT 164 GERMAN ONLY                           | 03/2009              |
| MTT 185-1 BEIBLATT 1 WITHDRAWN & NOT REPLACED | 11/2006              |
| MTT305-3                                      | 09/2005              |
| MTT366-2                                      | 11/2009              |
| MTT450-1                                      | 10/2003              |
|   |                      |

| <b>MTV - PROCESS</b>                        | <b>REVISION DATE</b> |
|---|----------------------|
| MTV1 SUPERSEDES 2022-12 ISSUE               | 06/2023              |
| * MTV2 SUPERSEDES 2022-04 ISSUE             | 09/2024              |
| * MTV2 BEIBLATT 1 SUPERSEDES 2019-05 ISSUE  | 09/2024              |
| MTV2 BEIBLATT 2 SUPERSEDES 10-11 ISSUE      | 01/2014              |
| MTV2 BEIBLATT 3 SUPERSEDED BY MTV2          | 12/2005              |
| MTV2 BEIBLATT 4 REPLACED BY EN 9132         | 12/2004              |
| MTV2 BEIBLATT 5 SUPERSEDES 2014-02 ISSUE    | 02/2014              |
| MTV2 BLAT 2 NEW TO LIST                     | 01/2014              |
| MTV2 BLAT 3 NEW TO LIST                     | 12/2005              |
| MTV2 BLAT6 (MTV2-BBL6) NEW TO LIST          | 06/2011              |
| MTV3 SUPERSEDES 2022-11 ISSUE               | 03/2024              |
| MTV 3 BEIBLATT 1 SUPERSEDES 06-14 ISSUE     | 11/2015              |
| * MTV 3 BEIBLATT 3 SUPERSEDES 2024-01 ISSUE | 09/2024              |
| MTV102                                      | 11/2006              |
| * MTV105 SUPERSEDES 2017-12 ISSUE           | 11/2024              |
| MTV106 SUPERSEDED BY MTV122, MTV499, MTV566 | 08/1994              |
| MTV107                                      | 07/2000              |
| MTV109 SUPERSEDED BY MTV122 & MTV444        | 07/1991              |
| MTV110 SUPERSEDED 2008-05 ISSUE             | 01/2020              |
| MTV112 SUPERSEDES 2019-10 ISSUE             | 08/2022              |

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|   |         |
|---|---------|
| MTV113 SUPERSEDES 2023-05 ISSUE                           | 01/2024 |
| MTV122 SUPERSEDES 2021-10 ISSUE                           | 04/2023 |
| MTV123 WITHDRAWAL NOTIFICATION - REPLACED BY MTV123-1 &-2 | 05/2000 |
| * MTV123-1 SUPERSEDES 2023-10 ISSUE                       | 09/2024 |
| MTV123-2  | 05/2009 |
| MTV124 SUPERSEDES 2018-07 ISSUE                           | 04/2023 |
| MTV128 SUPERSEDED BY MTV124                               | 05/1984 |
| MTV131  | 07/2000 |
| MTV133 REVISED SUPERSEDES 07/2017 ISSUE                   | 03/2024 |
| MTV150  | 10/1981 |
| MTV155 SUPERSEDES 06-03 ISSUE                             | 06/2011 |
| MTV156 SUPERSEDES 2018-08 ISSUE                           | 11/2021 |
| MTV157-4 SUPERSEDES 1987-08 ISSUE                         | 04/2017 |
| MTV170 SUPERSEDES 2011-11 ISSUE                           | 04/2018 |
| MTV171 SUPERSEDES 2019-10 ISSUE                           | 10/2023 |
| MTV172 SUPERSEDES 2000-09 ISSUE                           | 04/2018 |
| MTV175 SUPERSEDED BY MTV337                               | 08/2008 |
| MTV176  | 11/1981 |
| MTV178  | 10/2003 |
| MTV179 SUPERSEDES 2021-07 ISSUE                           | 11/2021 |
| * MTV187 SUPERSEDES 2022-07 ISSUE                         | 06/2024 |
| MTV206 REVISED 09-17 SUPERSEDED BY 12-1999 ISSUE          | 09/2017 |
| MTV224  | 05/2005 |
| MTV238  | 01/2005 |
| MTV239 SUPERSEDES 2000-04 ISSUE                           | 05/2018 |
| MTV240  | 12/2002 |
| MTV241 SUPERSEDES 2008-04 ISSUE                           | 06/2021 |
| MTV242 SUPERSEDES 02/2013 ISSUE                           | 01/2019 |
| MTV245 SUPERSEDED BY MTV607-3                             | 01/2007 |
| MTV247  | 03/1981 |
| MTV250  | 07/1997 |
| MTV253  | 07/1997 |
| MTV254  | 02/2000 |
| MTV255  | 11/1982 |
| MTV258  | 09/2000 |
| MTV259  | 04/1994 |
| MTV260 SUPERSEDES 2014-12 VERSION                         | 07/2021 |
| MTV263 SUPERSEDES 1991-04 VERSION                         | 10/2014 |
| MTV264 SUPERSEDES 2014-10 VERSION                         | 07/2021 |
| MTV265 SUPERSEDES 2018-04 VERSION                         | 12/2018 |
| MTV266 SUPERSEDES 1995-04 VERSION                         | 11/2018 |
| MTV268  | 04/1994 |
| MTV269  | 04/1994 |
| MTV270  | 03/2000 |
| MTV273  | 06/1989 |
| MTV275  | 06/1989 |
| MTV276  | 04/1995 |
| MTV300  | 04/1991 |
| MTV303  | 03/2000 |
| MTV304  | 07/2001 |
| MTV305  | 11/1982 |
| MTV310  | 03/2000 |
| MTV313  | 04/1991 |
| MTV315  | 11/1982 |
| MTV317  | 05/2001 |
| MTV318  | 04/1994 |
| MTV319  | 04/1994 |
| * MTV320 SUPERSEDES 2023-11 ISSUE                         | 09/2024 |
| MTV321 SUPERSEDES 2014-06 ISSUE                           | 06/2018 |
| MTV325  | 02/1989 |
| MTV328  | 11/1981 |
| MTV329 REVISED SUPERSEDES 2017-02 ISSUE                   | 12/2022 |
| MTV333  | 11/1981 |
| MTV334  | 11/1981 |
| MTV335 SUPERSEDES 2013-04 ISSUE                           | 05/2023 |
| MTV336  | 09/1981 |
| MTV337 REVISED SUPERSEDES 01-10 ISSUE                     | 09/2012 |
| MTV337 BEIBLATT 1 SUPERSEDES 04/09 ISSUE                  | 11/2013 |

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|  |                                |
|--|--------------------------------|
| MTV338-1 REVISED SUPERSEDES 2013/09 ISSUE                | 11/2020                        |
| MTV338 TEIL 1  | 11/1981                        |
| MTV338 TEIL 2  | 07/1992                        |
| MTV338 TEIL 3  | 09/1982                        |
| MTV338 TEIL 4 SUPERSEDES 06-94 ISSUE                     | 11/2005                        |
| MTV338 TEIL 5  | 11/1981                        |
| MTV338- 6  | 11/2005                        |
| MTV338 TEIL 7 REVISED                                    | 01/1900                        |
| MTV338-10 REVISED SUPERSEDES 09-13 ISSUE                 | 05/2019                        |
| MTV338-13 REVISED SUPERSEDES 05-16 ISSUE                 | 02/2017                        |
| MTV339 TEIL 2  | 11/1981                        |
| MTV339-2   | 05/1995                        |
| MTV340-1   | 10/2009                        |
| MTV341   | 03/2003                        |
| MTV342 SUPERSEDES 2008-08 ISSUE                          | 05/2023                        |
| MTV352 REVISED SUPERSEDES 02-89 ISSUE                    | 04/2013                        |
| MTV355 REVISED SUPERSEDES 06-05 ISSUE                    | 04/2013                        |
| MTV357 SUPERSEDES 2017-07 ISSUE                          | 10/2022                        |
| MTV359   | 01/2006                        |
| MTV360 SUPERSEDES 2017-02 ISSUE                          | 08/2022                        |
| MTV361 SUPERSEDES1982-02 ISSUE                           | 8/2019 INACTIVE FOR NEW DESIGN |
| MTV364-1 SUPERSEDES 2014-12 ISSUE                        | 02/2017                        |
| MTV364 TEIL 1  | 01/1985                        |
| MTV365 SUPERSEDES 2014-12 ISSUE                          | 02/2017                        |
| MTV365-1   | 02/2017                        |
| MTV365 BEIBLATT 1 TEIL 1                                 | 03/1989                        |
| MTV365-23  | 02/2000                        |
| MTV371 SUPERSEDES 12/1992 ISSUE                          | 01/2009                        |
| MTV372   | 03/1983                        |
| MTV385   | 07/2006                        |
| MTV387 SUPERSEDES 06-11 ISSUE                            | 09/2015                        |
| MTV391 SUPERSEDED BY MTV391-1                            | 10/2016                        |
| MTV391-1   | 12/2020                        |
| MTV391-2 SUPERSEDES 2021-02                              | 08/2022                        |
| MTV391-3   | 12/2020                        |
| MTV409 REVISED SUPERSEDES 12/2008 ISSUE                  | 05/2024                        |
| MTV415 REVISED SUPERSEDES 03/10 ISSUE                    | 04/2021                        |
| MTV422 REVISED SUPERSEDES 03-07 ISSUE                    | 11/2011                        |
| MTV426 -1 SUPERSEDES 2015-11 ISSUE                       | 12/2019                        |
| * MTV426-2 (FROM MTV426 TEIL 2) SUPERSEDES 2018-05 ISSUE | 06/2024                        |
| MTV426-5 (FROM MTV426 TEIL 5) SUPERSEDES 2009-11 ISSUE   | 02/2016                        |
| MTV426-7 SUPERSEDES 2003-01 ISSUE                        | 06/2016                        |
| MTV428   | 11/2009                        |
| MTV430   | 09/1986                        |
| MTV431   | 05/2009                        |
| MTV432   | 05/2009                        |
| MTV435   | 03/2002                        |
| MTV441-8 SUPERSEDES 2010-07 ISSUE                        | 09/2017                        |
| MTV443 REVISED SUPERSEDES 2018-06 ISSUE                  | 09/2023                        |
| MTV445 SUPERSEDES 2021-06 ISSUE                          | 08/2022                        |
| MTV458 REVISED 09-23 SUPERSEDES 2014-02 ISSUE            | 09/2023                        |
| MTV459   | 01/1991                        |
| MTV468 SUPERSEDES VERSION 01-2000                        | 10/2019                        |
| MTV490 SUPERSEDED BY MTV 490-1                           | 12/2013                        |
| MTV490-1 NEW   | 12/2013                        |
| MTV499 SUPERSEDES 2023-04 ISSUE                          | 11/2023                        |
| MTV509   | 08/1991                        |
| MTV511 WITHDRAWN-NOT REPLACED                            | 02/1989                        |
| MTV512 SUPERSEDED BY 2005-05                             | 01/2020                        |
| MTV527 SUPERSEDED BY MTV527-1                            | 03/2005                        |
| MTV527-1 SUPERSEDED BY MTV337                            | 09/2008                        |
| MTV527-2 SUPERSEDED BY MTV337                            | 09/2008                        |
| MTV528   | 04/1991                        |
| MTV532 SUPERSEDES 2003-09 ISSUE                          | 01/2010                        |
| MTV547-1 REVISED SUPERSEDES 2019-08 ISSUE                | 09/2019                        |
| MTV547-2 SUPERSEDES 1995-01                              | 01/2020                        |
| MTV548-1 SUPERSEDES 07/96 ISSUE                          | 03/2013                        |

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|   |         |
|---|---------|
| MTV548-2 SUPERSEDES 09/12 ISSUE                 | 03/2014 |
| MTV556  | 07/2004 |
| MTV558  | 06/1996 |
| MTV560 SUPERSEDES 10-03 ISSUE                   | 03/2013 |
| MTV 562-1 SUPERSEDES 2016-07 ISSUE              | 01/2023 |
| MTV562 TEIL 1 GERMAN                            | 12/1994 |
| MTV562-2 SUPERSEDES 2018-05 ISSUE               | 03/2024 |
| MTV569  | 07/1996 |
| MTV573 SUPERSEDES 2014-06 ISSUE                 | 08/2022 |
| MTV574 SUPERSEDES 2019-05 ISSUE                 | 08/2022 |
| MTV593  | 09/2005 |
| MTV596 NEW                                      | 07/2013 |
| MTV607-1 SUPERSEDES 10-15 ISSUED                | 03/2021 |
| MTV607-3  | 03/2007 |
| MTV616  | 08/2011 |
| MTV618  | 01/2002 |
| MTV626 NEW                                      | 04/2016 |
| MTV628 SUPERSEDES 2016-06 ISSUE                 | 06/2018 |
| MTV632 SUPERSEDES 2018-04 ISSUE                 | 07/2021 |
| MTV633  | 12/2009 |
| MTV634-1 SUPERSEDES 2024-07 ISSUE               | 08/2024 |
| MTV634-2 SUPERSEDES 2005-12 ISSUE               | 01/2023 |
| MTV635 REVISED 01-2014 SUPERSEDES 2014-01 ISSUE | 01/2014 |
| MTV648 SUPERSEDES 2009-03 ISSUE                 | 03/2013 |
| MTV650  | 01/2006 |
| MTV651 SUPERSEDES 2013-06 ISSUE                 | 03/2023 |
| MTV669 NEW                                      | 10/2016 |
| MTV676 SUPERSEDES 2019-05 ISSUE                 | 02/2020 |
| MTV677 NEW                                      | 09/2013 |
| MTV695 SUPERSEDES 2012-05 ISSUE                 | 03/2023 |
| MTV700 SUPERSEDED BY 2015-01 ISSUE              | 12/2019 |
| MTV825 NEW SUPERSEDES 08/2018 ISSUE             | 03/2019 |
| MTV1002   | 09/1992 |
| MTV1003 SUPERSEDES 11/2006 ISSUE                | 06/2024 |
| MTV1008   | 08/2004 |
| MTV1009   | 07/1984 |
| MTV1015   | 05/1998 |
| MTV105-4 REVISED SUPERSEDES 01-11 ISSUE         | 05/2017 |
| MTV1015-1 SUPERSEDES 2017-05 ISSUE              | 04/2021 |
| * MTV1015-2 SUPERSEDES 2019-07 ISSUE            | 09/2024 |
| MTV-1015-3 SUPERSEDES 2012-04 ISSUE             | 07/2019 |
| MTV1016 AMND                                    | 12/1996 |
| MTV1018   | 04/1988 |
| MTV1020   | 05/2009 |
| MTV1021   | 05/2009 |
| MTV1022   | 05/2009 |
| MTV1023   | 06/2009 |
| MTV1024   | 06/2009 |
| MTV1027 SUPERSEDED BY MTV 1027-1                | 05/2014 |
| MTV1027-1 SUPERSEDES 12-14 ISSUE                | 01/2023 |
| MTV1029 SUPERSEDES 2004-04 ISSUE                | 10/2017 |
| MTV1030-1 SUPERSEDES 2021-05 ISSUE              | 11/2021 |
| MTV1030-2 SUPERSEDES 06-06 ISSUE                | 02/2014 |
| MTV1030-3 SUPERSEDES 2012-05 ISSUE              | 02/2014 |
| MTV1030- 4 SUPERSEDES 2018-03 ISSUE             | 05/2023 |
| MTV1030-5 SUPERSEDES 2022-04 ISSUE              | 09/2023 |
| MTV1030-10                                      | 03/2010 |
| MTV1031-1 SUPERSEDES 12/2019 ISSUE              | 12/2019 |
| MTV1031- 2                                      | 07/2000 |
| MTV1031-3                                       | 07/2000 |
| MTV1031-4                                       | 07/2000 |
| MTV1031- 5                                      | 07/2000 |
| MTV1031- 6                                      | 07/2000 |
| MTV1031-7                                       | 07/2000 |
| MTV1032-1 SUPERSEDES 03-15 ISSUE                | 07/2015 |
| MTV1032-2 (INACTIVE FORE NEW DESIGN)            | 02/2018 |
| MTV1032 TEIL 2                                  | 11/1984 |
| MTV1032 TEIL 3 SUPERSEDES 2011-11 ISSUE         | 05/2019 |

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|   |         |
|---|---------|
| MTV1033-1 SUPERSEDES 2019-06 ISSUE                      | 07/2021 |
| MTV1033 TEIL 2 REVISED 2018-02 SUPERSEDES 1995-05 ISSUE | 02/2018 |
| MTV1033 TEIL 3 REVISED 2018-02 SUPERSEDES 1995-05 ISSUE | 02/2018 |
| MTV1034   | 08/1991 |
| MTV1036   | 02/2000 |
| MTV1037-1 SUPERSEDES2017-03 ISSUE                       | 01/2022 |
| MTV1037-2   | 01/2010 |
| MTV1038   | 03/2024 |
| MTV1039   | 08/2005 |
| MTV1040   | 04/1983 |
| MTV1041   | 03/1983 |
| MTV1042   | 12/1982 |
| MTV1043   | 04/1983 |
| MTV1044   | 12/1981 |
| MTV1047   | 10/2007 |
| MTV1048   | 03/1983 |
| MTV1051 SUPERSEDED BY MTV 1051-1 & MTV 1051-2           | 07/2016 |
| MTV1051-1 NEW   | 07/2017 |
| MTV1051-2 NEW   | 07/2017 |
| MTV1066   | 05/2006 |
| MTV1076   | 03/2005 |
| MTV1083 TEIL 1  | 04/1990 |
| MTV1083 TEIL 2  | 08/1990 |
| MTV1083 TEIL 3  | 08/1990 |
| MTV1089 SUPERSEDES 2014-02 ISSUE                        | 08/2024 |
| MTV1098 SUPER SEDES 0891 ISSUE                          | 11/2011 |
| MTV1112 SUPERSEDES 11-95 ISSUE                          | 05/2012 |
| MTV1117 REVISED SUPERSEDES 03-02 ISSUE                  | 01/2013 |
| MTV1118 SUPERSEDES 2005-09 ISSUE                        | 03/2021 |
| MTV1121 NEW   | 02/2015 |
| MTV1122PR   | 07/1999 |
| MTV1127 SUPERSEDES 2013-07 ISSUE                        | 09/2021 |
| MTV1143 REVISED SUPERSEDES 06-05 ISSUE                  | 04/2016 |
| MTV1148   | 04/2001 |

**TECHSPACE AERO SPECIFICATIONS**

| SPECIFICATION         | REVISION DATE |
|-----------------------|---------------|
| 00R7070               | B             |
| 51R0001               | C             |
| 51R0002 (dwg 5760303) | A             |
| 51R0003               | B             |
| 51R0006               | C             |
| 51R0010               | A             |
| 51R0011               | A             |
| 51R0014               | A             |
| 51R0015               | A             |
| 51R0016               | A             |
| 51R1001               | B             |
| 51R1002               | B             |
| 51R1003               | A             |
| 51R1004               | B             |
| 51R1005               | E             |
| 51R1006               | B             |
| 51R1007               | A             |
| 51R1008               | A             |
| 51R1009               | B             |
| 51R1011               | A             |
| 51R2001               | B             |
| 51R2003               | B             |
| 51R2004               | B             |
| 51R2005               | B             |
| 51R2006               | A             |
| 51R2007               | A             |
| 51R2008               | A             |
| 51R100851             | A             |
| 51R111196             | A             |
| 51R111197             | A             |
| 51R111198             | A             |

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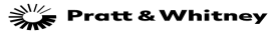
|           |   |
|-----------|---|
| 51STM1001 | B |
| 51STM1002 | F |
| 51STM2001 | B |
| 51STM1004 | B |
| 51STM2002 | B |

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**Packaging Engineering Instruction Specifications (P)**

|        |        |        |        |        |
|--------|--------|--------|--------|--------|
| 13440D | 13441D | 13442H | 13443H | 20000H |
| 30000M | 40000P | 42000H | 43000A | 45800F |
| 49200C | 53400B | 61660F | 61673P | 62100  |

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**Packaging Engineering Material Specifications - (P)**

|             |          |        |             |            |
|-------------|----------|--------|-------------|------------|
| 9747J       | 9749E    | 9750C  | 9923B       | 10083M     |
| 11201A02    | 11202B01 | 13590K | 19193G      | 23330      |
| 24048D      | 27315D   | 28075  | 31193 Chg 2 | 31198A     |
| 40019A      | 41188E   | 41189D | 41190D      | 41191 Chg5 |
| 41201F      | 41222G   | 41250A | 41300F      | 41304H     |
| 41424C      | 43022K   | 45588  | 46058       | 46059      |
| 46060 Chg 1 | 46062A   | 46063  | 46064 Chg 1 | 46345B     |
| 46361F      | 46362D   | 46363D | 46364E      | 46366D     |
| 46367C      | 46368A   | 46993F | 47300K      | 47302B     |
| 47322A      | 47730H   | 48768M | 49667       | 50900C     |
| 50901D      | 51357B   | 51358C | 51360A      | 51500E     |
| 61027A      | 61680G   | 62101A | 62103B      | 62548A     |
| 62549A      | 62550B   | 62551B | 62692B      | 62693C     |

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**Process Operations Procedures (POP)**

For a comprehensive list of POPs with latest revisions, see  
["Processing Procedures/Solutions"](#)  
on the Homepage under "Specification Revision Lists"

**1614BC**

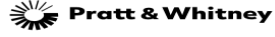
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|        |                |                  |                |           |
|--------|----------------|------------------|----------------|-----------|
| F-13N  | F-14J          | F-33A            | F-34D          |           |
| F-52E  | F-61C          | F-74F            | F-0179--       | 149E      |
| 202    | 222L           | 223R             | 226            |           |
| 227    | 228            | 248E             | 256            |           |
| 270    | 272A           | 274              | 277            |           |
| 278    | 290            | 301              | 306D           |           |
| 308E   | 309D           | 310              | 312            |           |
| 316E   | 321            | 322              | 323            |           |
| 324L   | 325A           | 326A             | 327G           |           |
| 329C   | 332            | 334              | 339            |           |
| 349    | 355G           | 0356U            | 357A           |           |
| 359D   | 0365R          | 379E             | 384C           |           |
| 386C   | 389            | 391              | 392A           |           |
| 402    | 411B           | 412G             | 414            |           |
| 419    | 425            | 433D             | 434B           |           |
| 435    | 437B           | 441              | 442C           |           |
| 443A   | 445            | 446              | 447F           |           |
| 448C   | 452E           | 453              | 454            |           |
| 456B   | 461F           | 462C             | 463B           |           |
| 468    | 469B           | 470              | 471A           |           |
| 475C   | 479            | 480              | 481D           |           |
| 482    | 485            | 486              | 487B           |           |
| 488D   | 490A           | 492B             | 493            |           |
| 494D   | 498A           | 499              | 500            |           |
| 501    | 502            | 506B             | 510D           |           |
| 515B   | 519A           | 520A             | 521            |           |
| 523C   | 527A           | 528              | 529A           |           |
| 531F   | 534G           | 535H             | 536A           |           |
| 537A   | 541            | 542              | 548A           |           |
| 552    | 553B           | 554G             | 555A           |           |
| 557    | 560            | 561A             | F-562B Deleted |           |
| 563A   | 564A           | 566B             | 568A           |           |
| 570    | 573A           | 574F             | 575            |           |
| 576    | 577            | 578J             | 579E           |           |
| 582    | 583            | 586              | 588            |           |
| 589    | 591A           | 592B             | 594F           |           |
| 598    | 599            | 600              | 601F           |           |
| 602D   | 603            | 604H             | 605            |           |
| 606    | 610A           | 611              | 623            |           |
| F-624C | 625C           | 626              | 628I           |           |
| 630C   | 632            | 634              | 638I           |           |
| 639H   | 643            | 645A             | 646A           |           |
| 647    | 650            | 662D             | 665            |           |
| 668J   | 669A           | 675              | 683N           |           |
| 684N   | 686R           | 687A             | 688H           |           |
| 689A   | 692            | 693              | 694            |           |
| 695    | 702G           | 703D             | 706Q           |           |
| 710K   | 711B           | 716C             | 717M           |           |
| 720F   | 722            | 726N             | 732            |           |
| 733A   | 735            | 738C             | 739            |           |
| 740B   | 749A           | 750A             | 751H           |           |
| 755    | 756H           | 759E             | 764A           |           |
| 769B   | F-770          | 770B             | F-771A         |           |
| 771B   | 774B           | 778K             | F-780H         |           |
| F-781F | 784            | 785              | 786A           |           |
| 787E   | 788H           | 789M             | 791            |           |
| 792C   | F-793C New     | F-795E           | 803A           | F805E New |
| F-807D | F-813F         | 811B             | 817A           | F-820E    |
| F-821C | 823H           |                  |                |           |
| 825A   | 826B           | 828D             | 840B           |           |
| 841    | F-842A         | F-843            | 844            |           |
| 845    | 848B           | 849              | 851            |           |
| 852    | 854            | F-860G Cancelled | F-861C         |           |
| F-862A | 863            | F-864G           | F-865F         |           |
| F-866  | F-867A         | F-868            | 869B           |           |
| 870C   | 871C           | 872A             | 873A           |           |
| 874    | 880            | 881              | 882A           |           |
| 883    | 884            | 888              | 889            |           |
| 890    | 891            | 892              | 893H           |           |
| 900    | 901            | 902              | 903A           |           |
| 904    | 905            | 907B             | 910            |           |
| F-911  | F-912          | 912E             | 913            |           |
| 914    | 915            | 916L             | 917            |           |
| 918A   | 919A           | 920A             | 921            |           |
| 922A   | 924            | 925A             | 926            |           |
| 928    | 929            | 931              | 932D           |           |
| 933    | 934            | 935E             | 936E           |           |
| 937    | 938            | 940              | 941B           |           |
| 942B   | 943            | 944              | 945            |           |
| 946    | 947B (Supp #1) | 948              | 949            |           |
| 950    | 951A           | 952              | 953            |           |
| 954B   | 955            | 957D             | 958A           |           |
| 959A   | 960C           | 961B             | 962            |           |
| 963    | 964C           | 965B             | 966D           |           |
| 967C   | 968A           | 969              | 970A           |           |
| 971A   | 972            | 973              | 974            |           |

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| 975C        | 976         | 977          | 978A       |  |
| 979D        | 980B        | 983          | 984        |  |
| 985         | 986B        | 987          | 989        |  |
| 990A Scn-1  | 991 Scn     | App A        | App B      |  |
| 993         | 994         | 995          | 996C       |  |
| 997         | 998C        | 1001         | 1002       |  |
| 1004        | 1005        | 1006         | 1007       |  |
| 1008        | 1009        | 1010         | 1012       |  |
| 1013        | 1014        | 1015         | 1016       |  |
| 1017        | 1018        | 1019         | 1020       |  |
| 1021        | 1022        | 1023         | 1024       |  |
| 1025        | 1026        | 1027         | 1028       |  |
| 1029        | 1030        | 1031         | 1032       |  |
| 1033        | 1034        | 1035         | 1042       |  |
| 1043A       | 1044        | 1045         | 1046A      |  |
| 1047        | 1048        | 1049         | 1055       |  |
| 1057        | 1058A       | 1059         | 1060       |  |
| 1061        | 1062        | 1063         | 1064       |  |
| 1065        | 1066        | 1068         | 1069       |  |
| 1072A       | 1078        | 1079         | 1080       |  |
| 1081        | 1082        | 1089C        | 1090C      |  |
| 1091        | 1092        | 1093B        | 1094       |  |
| 1095C       | 1104        | 1105         | 1106       |  |
| 1107        | 1109        | 1110         | 1111       |  |
| 1112        | 1113        | 1115         | 1118       |  |
| 1119        | 1120        | 1121         | 1122       |  |
| 1123A       | 1124A       | 1125         | 1126       |  |
| 1129        | 1138        | 1141         | 1143       |  |
| 1144        | 1145        | 1146         | 1147       |  |
| 1148A       | 1149        | 1150A        | 1151       |  |
| 1152        | 1154        | 1157A        | 1160       |  |
| 1161        | 1162        | 1163         | 1164       |  |
| 1165        | 1168        | 1170         | 1172       |  |
| 1173        | 1174        | 1178         | 1183       |  |
| 1184        | 1185        | 1186         | 1187       |  |
| 1194        | 1195A Scn-6 | 1200         | 1201       |  |
| 1202        | 1203        | 1204         | 1205D      |  |
| 1212A       | 1214        | 1217         | 1221       |  |
| 1222        | 1223        | 1224         | 1225       |  |
| 1226        | 1227C       | 1230         | 1232C      |  |
| 1234        | 1235        | 1237         | 1239       |  |
| 1240        | 1241        | 1242         | 1243       |  |
| 1244        | 1245        | 1246         | 1247       |  |
| 1250        | 1251        | 1252         | 1253       |  |
| 1261        | 1267A       | 1268A        | 1269A      |  |
| 1270        | 1271        | 1272         | 1273       |  |
| 1276C       | 1277C       | 1278C        | 1280       |  |
| 1281        | 1282        | 1283C        | 1284       |  |
| 1285        | 1286        | 1289         | 1290A      |  |
| 1291A       | 1292A       | 1294         | 1301       |  |
| 1302        | 1303A       | 1304         | 1305       |  |
| 1306A       | 1307        | 1309         | 1310       |  |
| 1311        | 1312        | 1313B        | 1314B      |  |
| 1315        | 1324A       | 1325         | 1326       |  |
| 1328        | 1329        | 1330         | 1331       |  |
| 1332        | 1333        | 1334         | 1335       |  |
| 1336A       | 1337        | 1338         | 1339       |  |
| 1341B       | 1344        | 1348D Rev 18 | 1352       |  |
| 1354        | 1355        | 1356         | 1358       |  |
| 1359A       | 1365        | 1367         | 1370       |  |
| 1373        | 1380        | 1384         | 1390       |  |
| 1391C       | 1394A       | 1397D Scn-2  | 1398C      |  |
| 1399        | 1402        | 1403         | 1405       |  |
| 1406A       | 1409        | 1412         | 1420       |  |
| 1422A       | 1425A       | 1427         | 1428       |  |
| 1434        | 1435        | 1436         | 1438       |  |
| 1439        | 1440        | 1441C Scn-6  | 1444       |  |
| 1445        | 1446        | 1447         | 1448       |  |
| 1455A       | 1456B Scn-2 | 1458         | 1459       |  |
| 1460        | 1463        | 1464         | 1466       |  |
| 1470 Scn-1  | 1474        | 1477A Scn-2  | 1480       |  |
| 1483A Scn-6 | 1485A       | 1490         | 1491B      |  |
| 1492A       | 1493C Scn-1 | 1494         | 1498 Scn-2 |  |
| 1499        | 1500        | 1501A Scn-1  | 1503       |  |
| 1507        | 1509        | 1510         | 1511       |  |
| 1516A       | 1517A Scn-3 | 1518         | 1523B      |  |
| 1524 Scn-2  | 1525 Scn-2  | 1526 Scn-1   | 1527 Scn-1 |  |
| 1528        | 1529        | 1530A        | 1531       |  |
| 1532        | 1533 Scn-2  | 1534 Scn-1   | 1535 Scn-1 |  |
| 1536E       | 1537B       | 1547C        | 1550C      |  |
| 1552A       | 1553C       | 1556         | 1557A      |  |
| 1569B Scn-1 | 1570B       | 1575         | 1576B      |  |
| 1577        | 1578A       | 1579         | 1582       |  |
| 1585A       | 1587        | 1588         | 1591G      |  |
| 1592 Scn-1  | 1593        | 1596         | 1607C      |  |
| 1611 Scn-1  | 1617        | 1619         | 1620       |  |
| 1624        | 1626 Scn-2  | 1627 Scn-1   | 1628       |  |
| 1635        | 1636        | 1637         | 1638       |  |

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|              |              |              |                     |       |
|--------------|--------------|--------------|---------------------|-------|
| 1642B        | 1643         | 1644         | 1645                |       |
| 1646         | 1650 Scn-1   | 1651G        | Scn-4               |       |
| 1652A        | 1653B        | 1654C        | 1655 Scn-1          |       |
| 1656         | 1657A        | 1658D        | 1660                |       |
| 1661         | 1662         | 1663         | 1664                |       |
| 1667E        | 1669A        | 1670         | 1671 Scn-1          |       |
| 1672 Scn-1   | 1673A Scn-1  | Supp A       | 1674                |       |
| 1675         | 1676         | 1677A        | 1679                |       |
| 1680         | 1681C        | 1683         | 1684                |       |
| 1685 Scn-1   | 1686A        | 1688B        | 1691A Scn-1         |       |
| 1692 Scn-1   | 1693         | 1694         | 1695                |       |
| 1696A        | 1697C        | 1698A        | 1700A Scn-1         |       |
| 1705         | 1707A        | 1708A        | 1709                |       |
| 1713         | 1714A        | 1715C        | 1716A               |       |
| 1717C        | 1718         | 1719         | 1720                |       |
| 1721         | 1722         | 1724         | 1725                |       |
| 1726B        | 1727A        | 1729 Add A   | 1730                |       |
| 1731         | 1732C        | 1734         | 1735                |       |
| 1743E        | 1744         | 1749A Scn-1  | 1750B               |       |
| 1751C        | 1752C Scn-6  | 1753 Scn-1-1 | 1755                |       |
| 1757         | 1758         | 1759         | 1760                |       |
| 1761A        | 1762A        | 1763B Scn-1  | 1767                |       |
| 1768         | 1772         | 1775         | 1776A Scn-2         |       |
| 1777A        | 1779         | 1780B        | 1781A               |       |
| 1782         | 1784         | 1785         | 1787A               |       |
| 1788         | 1789         | 1790         | 1791A               |       |
| 1792A        | 1793A        | 1794A        | 1797                |       |
| 1799 Scn-1   | 1800A SCN27A | 1801         | 1803A               |       |
| 1805D        | 1806 Scn-1   | 1807         | 1808 Rev. C 4/8/86  | 1809C |
| 1810D        | 1811B        | 1812A        | 1813 A              |       |
| 1815         | 1823         | 1824         | 1825                |       |
| 1827 Scn-1   | 1828A        | 1829A App B  | Add #1              |       |
| 1830         | 1831         | 1832 Add #1  | 1833A Add #1        |       |
| 1836         | 1837         | 1838         | 1841                |       |
| 1844A        | 1846         | 1847C Add #1 | 1848D               |       |
| 1850B Scn-1  | 1851A        | 1853 Scn-8C  | 1854                |       |
| 1855         | 1856         | 1857         | 1859                |       |
| 1860         | 1861         | 1862 Scn-1   | 1863A               |       |
| 1864         | 1866B        | 1868         | 1870                |       |
| 1871         | 1872         | 1875A        | 1876A               |       |
| 1877         | 1878 SCN 15  | 1880 Scn-4   | 1885                |       |
| 1887A        | 1888         | 1890         | 1891                |       |
| 1893A Add #1 | App A        | App B        | App C               |       |
| 1896A        | 1904         | 1905C        | 1906                |       |
| 1907B        | 1910         | 1912B        | 1913A               |       |
| 1914H        | 1918AQ       | 1920C        | 1921                |       |
| 1923         | 1924         | 1929         | 1930C               |       |
| 1934B        | 1935A Add #1 | 1938         | 1940                |       |
| 1945         | 1946         | 1949B        | 1953                |       |
| 1954A        | 1955D        | 1956         | 1958G               |       |
| 1959AA       | 1962B        | 1966A        | 1967                |       |
| 1968         | 1970D        | 1971         | 1973                |       |
| 1974         | 1975         | 1976         | 1979B               |       |
| 1980         | 1981B        | 1982B        | 1983                |       |
| 1984         | 1985A        | 1986         | 1987A               |       |
| 1988         | 1989 Rev. 23 | 1992B        | 1993                |       |
| 1994         | 1995         | 1996         | 1998                |       |
| 1999 Rev. AC | 2000B        | 2001         | 2002                |       |
| 2003         | 2006         | 2007A        | 2008                |       |
| 2011         | 2012B        | 2013         | 2015 Rev. 5 7/13/16 |       |
| 2017A        | 2018         | 2020G        | 2023                |       |
| 2024         | 2025         | 2029         | 2030A               |       |
| 2031         | 2032         | 2035A        | 2036                |       |
| 2039         | 2040A        | 2044         | 2045A               |       |
| 2052A        | 2053         | 2056E        | 2057A               |       |
| 2058A        | 2059         | 2061         | 2062E               |       |
| 2064         | 2065         | 2066A        | 2067                |       |
| 2068         | 2069         | 2070         | 2072                |       |
| 2074         | 2077         | 2078         | 2079                |       |
| 2082         | 2083A        | 2087 SCN5B   | 2090                |       |
| 2091H        | 2097B        | 2099         | 2101                |       |
| 2105         | 2107         | 2108         | 2112                |       |
| 2113B        | 2125         | 2136         | 2138                |       |
| 2139         | 2142B        | 2143         | 2144                |       |
| 2145         | 2146A        | 2147         | 2148                |       |
| 2149         | 2151         | 2153         | 2169A               |       |
| 2180         | 2181         | 2184         | 2185                |       |
| 2186         | 2191A        | 2199C        | 2236                |       |
| 2261         | 2263A        | 2264A        | 2265A               |       |
| 2266         | 2267         | 2270         | 2271                |       |
| 2274         | 2377         | 2378         | 2379                |       |
| 2376         | 2380         | 2382         | 2383                |       |
| 2384B        | 2385         | 2386         | 2387                |       |
| 2388         | 2389         | 2390         | 2392                |       |
| 2395         | 2396         | 2420         | 2424                |       |
| 2425C        | 2430         | 2432         | 2439                |       |
| 2443C        | 2457C        | 2460 Rev. F  | 2466A               |       |
| 2468 Rev. 9  | 2469 Rev. 9  | 2470H        | 2471                |       |

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|------------------------|----------------------------|--------------|---------------------|------------------|
| 2472 Rev. B            | 2483                       | 2486 Rev. 10 | 2492 Rev. E         |                  |
| 2493                   | 2494                       | 2495         | 2496                | 2497F            |
| 2498 Rev. C            | 2499                       | 2501B        | 2502                |                  |
| 2503                   | 2504                       | 2505         | 2506                |                  |
| 2507                   | 2508                       | 2509         | 2510                |                  |
| 2511L                  | 2512                       | 2513         | 2514                |                  |
| 2515                   | 2516                       | 2520 Rev 00  | 2521 Rev 00         |                  |
| 2522C                  | 2523                       | 2524         | 2525 Rev 3          |                  |
| 2526                   | 2527                       | 2528 Rev G   | 529A                |                  |
| 2530 Cancelled 1/18/08 | 2531                       | 2532 Rev E   | 2533 Rev 6          |                  |
| 2534 Rev 5             | 2535 Rev 3                 | 2536 Rev 1.0 | 2537                |                  |
| 2538                   | 2539                       | 2540         | 2541                |                  |
| 2542A                  | 2548-OS                    | 2549 Rev 2   | 2550 Rev. H         |                  |
| 2554 Rev. G            | 2554 Rev. G Addendum (New) | 2555 Rev. F  | 2457 Rev. C 7/11/16 | 2558 Rev 001     |
| 2560 Rev F             | 2565 Rev. D                | 2567-05      | 2570-02A            | 2571 Rev. E      |
| 2574 Rev 00            | 2575A New                  | 2581C        | 2582                | 2583 Rev 2       |
| 2584 Rev. A            | 2585 (New)                 | 2591 New     | 2593 Rev C          | 2594A            |
| 2596 New               | 2600-02                    | 2602 New     | 2603 New            | 2604-02          |
| 2605                   | 2607                       | 2608 New     | 2609 Rev D          |                  |
| 2610-01                | 2614B                      | 2612 Rev. B  | 2617 Rev. A         | 2618 Rev. C      |
| 2620 New               | 2621 Rev. A                | 2622 Rev. C  | 2623 Rev. B         | 2625 Rev A - New |
| 2626 Rev. 2            | 2628A                      | 2638 New     | 2642 New            | 2644B            |
| 2645A                  | 2647D                      | 2649 New     | 2650 New            | 2651C            |
| 2652C                  | 2654E                      | 2655 New     | 2656 New            | 2657 New         |
| 2658A                  | 2663A                      | 2665A        | 2667 New            | 2668 New         |
| 2669A New              | 2673 Rev. B                | 2674 New     | 2675 New            | 2676 New         |
| 2677 New               | 2678 Rev. A                | 2679 New     | 2680B               | 2681 Rev B       |
| 2685--                 | 2687--                     | 2690 New     | 2691 New            | 2692-- New       |
| 2696 New               | 2697C                      | 2698A        | 2700                | 2703 Rev A       |
| 2709B                  | 2714G                      | 2717-- New   | 2718A               | 2721 New         |
| 2727 New               | 2732A                      | 2733A        | 2739 New            | 2741A            |
| 2742 New               | 2743A                      | 2745 New     | 2747 New            | 2748 New         |
| 2749 New               | 2750 New                   | 2752 New     | 2754A               | 2755B            |
| 2756F                  | 2757D                      | 2760 New     | 2764A               | 2765C            |
| 2766 New               | 2768 Rev A                 | *2769C       | 2770A               | 2771D            |
| 2772B                  | 2778 New                   | 2780C        | 2786                | 2788B            |
| *2791B                 | 2792 New                   | 2793 New     | *2794A              | 2796A            |
| *2797A                 | 2799 New                   | 2801 New     | 2810 New            | 2809 New         |
| 5000 Rev E             | *5001G                     | 5003 New     | *5005F              | 5006 New         |
| 5007A                  | 5008A                      | 5009A        | 5010 New            | 5011A            |
| 5012 New               | 5014 New                   | 5015A        | 5017C               | 5018 New         |
| 5019 New               | 5020 New                   | 5021D        | 5022 New            | 5023B            |
| 5024                   | 5025 New                   | 5028 New     | 5029 New            | 5030C            |
| 5031 New               | 5032B                      | 5034B        | 5033 New            | 5035 New         |
| 5036 New               | *5038A                     | 5039 New     | *5040B              | 5041 New         |
| 5042 New               | 5044A                      | *5045B       | 5046A               | 5047 New         |
| 5049 New               | +5053 New                  |              |                     |                  |

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**P&W Production & Development Specifications - (PWA)**

**PWA Spec Codes**

- C = Controlled
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- N = Sources Listed in Specification
- P = Patent Notice Applies
- Q = Sources Qualified by MCL (PWA Source Qualification List)

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|  | SPEC_NO  | REV | CODE | STATUS                          | REV_DATE  |
|--|----------|-----|------|---------------------------------|-----------|
|  | Glossary | M   | -    |                                 |           |
|  | 1        | L   | E    |                                 | 26-Jun-23 |
|  | 2        | D   | -    |                                 | 01-Jun-11 |
|  | 4        | H   | Q    |                                 | 09-Sep-20 |
|  | 5        | E   | Q    |                                 | 01-Oct-11 |
|  | 6        | H   | E,Q  | Not Recommended for New Designs | 21-Apr-22 |
|  | 7        | E   | E    | Not Recommended for New Designs | 27-Oct-21 |
|  | 8        | H   | E    |                                 | 01-Jan-12 |
|  | 10       | W   | E    |                                 | 06-Oct-16 |
|  | * 11     | CK  | E,Q  |                                 | 17-Dec-24 |
|  | 12       | U   | Q    | Not Recommended for New Designs | 01-Nov-11 |
|  | 14       | M   | E,Q  |                                 | 01-Sep-11 |
|  | 15       | AC  | Q    |                                 | 01-Oct-11 |
|  | 16       | BE  | E,Q  | Active                          | 27-Jan-23 |
|  | 19       | AK  | E,Q  |                                 | 21-May-15 |
|  | 20       | H   | N,Q  | Not Recommended for New Designs | 01-Dec-11 |
|  | 24       | T   | E    |                                 | 01-Dec-11 |
|  | 25       | F   | -    | Cancelled                       |           |
|  | 26       | R   | N    | Not Recommended for New Designs | 27-Feb-23 |
|  | 27       | H   | -    |                                 | 01-May-79 |
|  | 33       | L   | E    | Not Recommended for New Designs | 01-Jan-12 |
|  | 34       | W   | E,Q  |                                 | 01-Sep-11 |
|  | 35       | C   | E    | Not Recommended for New Designs | 01-Dec-11 |
|  | 36       | J   | Q    |                                 | 11-Aug-22 |
|  | 37       | K   | Q    | Not Recommended for New Designs | 01-Nov-11 |
|  | 38       | D   | N    | Not Recommended for New Designs | 01-Jan-12 |
|  | 41       | B   | -    | Cancelled                       |           |
|  | 42       | L   | Q    | Not Recommended for New Designs | 01-Aug-11 |
|  | 44       | T   | Q    |                                 | 13-Jun-20 |
|  | 45       | L   | -    |                                 | 01-May-79 |
|  | 46       | AA  | N,Q  |                                 | 27-May-16 |
|  | 47       | W   | Q    | Not Recommended for New Designs | 01-Sep-11 |
|  | 48       | G   | Q    | Not Recommended for New Designs | 01-Oct-11 |
|  | 49       | P   | N,Q  |                                 | 01-Oct-11 |
|  | 50       | T   | N,Q  |                                 | 27-May-16 |
|  | 52       | M   | N,Q  |                                 | 01-Dec-11 |
|  | 53       | AT  | E,Q  |                                 | 16-Feb-17 |
|  | 55       | F   | N,Q  | Not Recommended for New Designs | 01-Sep-11 |
|  | 57       | E   | Q    | Not Recommended for New Designs | 01-Aug-11 |
|  | 58       | C   | Q    | Cancelled                       | 20-Mar-15 |
|  | 60       | N   | Q    | Not Recommended for New Designs | 01-Dec-11 |
|  | 61       | L   | N    | Not Recommended for New Designs | 26-Aug-16 |
|  | 62       | M   | E    |                                 | 01-Oct-11 |
|  | 63       | J   | -    |                                 | 01-May-79 |
|  | 68       | T   | E    | Not Recommended for New Designs | 01-Sep-11 |
|  | 70       | AD  | E    |                                 | 01-Apr-13 |
|  | 72       | K   | Q    | Not Recommended for New Designs | 01-Oct-11 |
|  | 73       | AP  | E,P  |                                 | 07-Dec-16 |
|  | 74       | M   | Q    | Not Recommended for New Designs | 01-Dec-11 |
|  | 75       | M   | Q    |                                 | 01-Dec-11 |
|  | 76       | L   | E,P  | Not Recommended for New Designs | 27-Oct-21 |
|  | 77       | V   | E    |                                 | 01-Jul-10 |
|  | 80       | AE  | Q    | Cancelled                       | 23-Mar-15 |
|  | 81       | AC  | Q    | Cancelled                       | 23-Mar-15 |
|  | 82       | G   | -    | Cancelled                       | 23-Mar-15 |
|  | 83       | AJ  | -    |                                 | 03-Jun-24 |
|  | 84       | K   | -    |                                 | 01-Mar-74 |
|  | 85       | AA  | E,Q  |                                 | 01-Dec-11 |
|  | 86       | J   | Q    |                                 | 01-Oct-11 |
|  | 87       | B   | -    | Cancelled                       | 20-Mar-15 |
|  | 88       | J   | Q    | Not Recommended for New Designs | 21-Dec-17 |
|  | 89       | J   | -    | Not Recommended for New Designs | 01-Aug-11 |
|  | 91       | H   | -    | Not Recommended for New Designs | 01-Oct-11 |
|  | 92       | V   | Q    |                                 | 01-Sep-11 |
|  | 93       | M   | Q    | Cancelled                       | 23-Mar-15 |
|  | 94       | L   | E    | Not Recommended for New Designs | 01-Oct-11 |
|  | 95       | D   | N    | Cancelled                       | 20-Mar-15 |
|  | 96       | R   | Q    |                                 | 01-Oct-11 |
|  | 97       | P   | Q    |                                 | 01-Dec-11 |
|  | 98       | R   | E    |                                 | 01-Oct-11 |
|  | 99       | Y   | E,Q  |                                 | 05-Feb-24 |
|  | 100      | P   | E    | Not Recommended for New Designs | 27-Oct-21 |
|  | 101      | G   | Q    | Not Recommended for New Designs | 01-Aug-11 |
|  | 102      | L   | E    | Active                          | 05-Jan-23 |
|  | 103      | H   | E    |                                 | 08-Jan-24 |
|  | 104      | T   | Q    |                                 | 01-Nov-11 |
|  | 105      | K   | N,E  |                                 | 01-May-13 |
|  | 106      | L   | Q    |                                 | 12-Jul-23 |
|  | 107      | E   | Q    | Not Recommended for New Designs | 01-Oct-11 |
|  | 108      | H   | Q    |                                 | 01-May-11 |
|  | 109      | M   | -    |                                 | 01-Oct-11 |
|  | 110      | AE  | Q    |                                 | 05-Oct-16 |
|  | 111      | D   | Q    | Not Recommended for New Designs | 01-Sep-11 |
|  | 112      | H   | E    |                                 | 01-Sep-11 |
|  | 113      | R   | Q    |                                 | 19-Sep-19 |
|  | 115      | D   | E    |                                 | 01-Oct-11 |
|  | 116      | AE  | Q    |                                 | 16-Feb-24 |

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|  | SPEC_NO | REV | CODE | STATUS                          | REV_DATE  |
|--|---------|-----|------|---------------------------------|-----------|
|  | 117     | D   | Q    |                                 | 01-May-11 |
|  | 118     | M   | Q    |                                 | 21-Dec-17 |
|  | 119     | P   | Q    |                                 | 03-Mar-20 |
|  | 120     | N   | E    | Not Recommended for New Designs | 01-Sep-11 |
|  | 122     | E   | -    |                                 | 01-May-78 |
|  | 123     | AC  | N    |                                 | 02-May-16 |
|  | 126     | B   | -    |                                 | 01-Oct-83 |
|  | 128     | F   | Q    | Not Recommended for New Designs | 21-Dec-17 |
|  | 137     | P   | -    | Cancelled                       | 20-Mar-15 |
|  | 144     | --  | -    | Cancelled                       |           |
|  | 162     | --  | -    | Cancelled                       |           |
|  | 222     | A   | E    | Cancelled                       | 20-Mar-15 |
|  | 230     | E   | E, P |                                 | 11-Jul-22 |
|  | 231     | C   | -    | Cancelled                       | 20-Mar-15 |
|  | 238     | P   | -    | Not Recommended for New Designs | 01-May-11 |
|  | 239     | --  | -    | Cancelled                       |           |
|  | 240     | J   | N    | Not Recommended for New Designs | 01-Sep-11 |
|  | 250     | B   | -    | Cancelled                       | 20-Mar-15 |
|  | 251     | E   | -    |                                 | 01-Aug-11 |
|  | 252     | F   | E    |                                 | 01-Sep-11 |
|  | 253     | J   | Q    | Not Recommended for New Designs | 01-Aug-11 |
|  | 254     | G   | Q    | Not Recommended for New Designs | 01-Apr-11 |
|  | 255     | T   | E    |                                 | 16-Feb-24 |
|  | 256     | W   | E, Q | Not Recommended for New Designs | 06-Jul-22 |
|  | 257     | M   | E, Q |                                 | 06-Jul-22 |
|  | 258     | A   | Q    | Cancelled                       | 20-Mar-15 |
|  | 259     | P   | E    | Active                          | 31-Oct-23 |
|  | 261     | G   | Q, P | Not Recommended for New Designs | 01-Feb-13 |
|  | 262     | G   | E, P |                                 | 06-Jul-22 |
|  | 263     | L   | E, Q | Not Recommended for New Designs | 01-Apr-11 |
|  | 264     | N   | E    |                                 | 21-Apr-22 |
|  | 265     | G   | Q, P |                                 | 01-Dec-11 |
|  | 266     | U   | E, P |                                 | 11-Jul-22 |
|  | 268     | J   | E    | Not Recommended for New Designs | 01-Sep-11 |
|  | 269     | G   | N, Q | Not Recommended for New Designs | 01-Dec-11 |
|  | 270     | P   | E    | Not Recommended for New Designs | 01-Sep-11 |
|  | 271     | J   | -    |                                 | 01-Sep-11 |
|  | 272     | D   | E, P | Not Recommended for New Designs | 06-Oct-22 |
|  | 273     | V   | E, P |                                 | 01-Sep-11 |
|  | 274     | --  | -    | Cancelled                       |           |
|  | 275     | T   | E    |                                 | 01-Oct-11 |
|  | 276     | J   | E    | Not Recommended for New Designs | 01-Sep-11 |
|  | 277     | G   | E, P | Not Recommended for New Designs | 01-Aug-11 |
|  | 279     | U   | E    |                                 | 21-Apr-22 |
|  | 280     | D   | E, Q | Not Recommended for New Designs | 01-Oct-11 |
|  | 281     | K   | E, P |                                 | 01-Apr-12 |
|  | 282     | D   | E    | Not Recommended for New Designs | 01-Apr-11 |
|  | 283     | J   | E, P |                                 | 01-Dec-11 |
|  | 284     | N   | E, P |                                 | 11-Jul-22 |
|  | 285     | --  | -    | Cancelled                       |           |
|  | 286     | M   | E    |                                 | 01-Feb-12 |
|  | 287     | H   | E, P |                                 | 01-Aug-11 |
|  | 288     | D   | N, Q | Not Recommended for New Designs | 01-Oct-11 |
|  | 289     | E   | E    |                                 | 01-Jan-12 |
|  | 290     | F   | E    |                                 | 26-May-22 |
|  | 291     | F   | E, P |                                 | 01-Oct-11 |
|  | 293     | G   | E    |                                 | 01-Oct-11 |
|  | 294     | B   | -    | Cancelled                       | 01-Apr-12 |
|  | 295     | H   | E    |                                 | 01-Nov-11 |
|  | 296     | E   | N    | Not Recommended for New Designs | 01-Oct-11 |
|  | 297     | B   | -    | Cancelled                       | 01-Apr-12 |
|  | 298     | E   | N    | Not Recommended for New Designs | 01-Dec-11 |
|  | 299     | K   | E    | Not Recommended for New Designs | 01-Oct-11 |
|  | 300     | BV  | -    | Active                          | 26-Jun-24 |
|  | 301     | BB  | -    |                                 | 06-Feb-24 |
|  | 302     | A   | -    |                                 | 01-Jul-12 |
|  | 303     | E   | -    |                                 | 01-May-14 |
|  | 304     | D   | -    | Not Recommended for New Designs | 24-Aug-23 |
|  | 305     | C   | -    |                                 | 24-Aug-23 |
|  | 307     | B   | -    |                                 | 13-Jul-23 |
|  | 308     | D   | -    |                                 | 13-Jul-23 |
|  | 309     | C   | -    |                                 | 24-Aug-23 |
|  | 310     | BN  | -    |                                 | 08-Apr-24 |
|  | 311     | T   | -    |                                 | 03-Aug-23 |
|  | 312     | C   | -    | Not Recommended for New Designs | 01-Jul-12 |
|  | 315     | Y   | -    | Not Recommended for New Designs | 03-Aug-23 |
|  | 316     | L   | -    |                                 | 25-Aug-23 |
|  | 317     | B   | -    |                                 | 25-Aug-23 |
|  | 318     | G   | -    |                                 | 25-Aug-23 |
|  | 320     | F   | -    |                                 | 20-May-24 |
|  | 321     | M   | -    |                                 | 09-Sep-24 |
|  | 322     | G   | -    |                                 | 18-Dec-23 |
|  | 323     | C   | -    |                                 | 05-Apr-24 |
|  | 324     | B   | -    |                                 | 05-Apr-24 |
|  | 325     | B   | -    |                                 | 01-Apr-24 |
|  | 326     | F   | -    |                                 | 20-May-24 |



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Revision Date 01/2025

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| SPEC_NO | REV | CODE | STATUS                          | REV_DATE  |
|---------|-----|------|---------------------------------|-----------|
| 327     | K   | -    |                                 | 30-Sep-24 |
| 328     | H   | -    |                                 | 06-Nov-23 |
| 329     | B   | -    |                                 | 20-May-24 |
| 330     | D   | -    |                                 | 20-May-24 |
| 331     | J   | -    |                                 | 09-Sep-24 |
| 332     | F   | -    |                                 | 01-Oct-12 |
| * 333   | R   | -    |                                 | 13-Dec-24 |
| 335     | B   | -    |                                 | 01-Oct-12 |
| 339     | C   | -    |                                 | 31-Jul-17 |
| 340     | C   | -    | Not Recommended for New Designs | 01-Feb-13 |
| 341     | K   | -    |                                 | 09-Sep-24 |
| 343     | V   | -    |                                 | 19-Aug-24 |
| 344     | B   | -    |                                 | 01-Oct-12 |
| 345     | E   | -    |                                 | 01-Dec-12 |
| 346     | C   | -    |                                 | 20-May-24 |
| 349     | A   | -    |                                 | 01-Oct-12 |
| 350     | AD  | -    |                                 | 08-Jan-24 |
| 351     | F   | -    |                                 | 01-Jul-12 |
| 353     | A   | -    |                                 | 01-Jul-12 |
| 354     | P   | -    |                                 | 01-Apr-13 |
| 355     | AC  | -    |                                 | 01-Dec-12 |
| 357     | AG  | -    |                                 | 01-Dec-20 |
| 358     | A   | -    |                                 | 01-Jul-12 |
| 359     | B   | -    |                                 | 01-Jul-12 |
| 360     | Y   | -    |                                 | 23-Jun-21 |
| 361     | D   | -    |                                 | 01-Oct-12 |
| 362     | P   | -    |                                 | 01-Nov-12 |
| 363     | E   | -    |                                 | 01-Oct-12 |
| 364     | G   | -    |                                 | 01-Oct-12 |
| 365     | A   | -    |                                 | 01-Dec-12 |
| 366     | --  | -    | Cancelled                       |           |
| 367     | U   | -    |                                 | 18-Nov-19 |
| 368     | C   | -    | Not Recommended for New Designs | 01-Jul-12 |
| 369     | --  | -    | Cancelled                       |           |
| 370     | AA  | -    |                                 | 23-Oct-19 |
| 371     | D   | -    | Cancelled                       | 23-Mar-15 |
| 372     | C   | P    |                                 | 31-Jul-17 |
| 373     | G   | -    |                                 | 01-Dec-12 |
| 381     | Y   | -    |                                 | 19-Jun-15 |
| 382     | C   | -    |                                 | 01-Jul-12 |
| 383     | B   | -    |                                 | 01-Dec-12 |
| 384     | B   | -    |                                 | 01-Jul-11 |
| 385     | AE  | N,Q  | Not Recommended for New Designs | 01-Jul-14 |
| 386     | D   | -    |                                 | 01-Dec-12 |
| 387     | A   | -    |                                 | 01-Jul-12 |
| 388     | E   | -    |                                 | 01-Jul-12 |
| 389     | D   | -    |                                 | 01-Nov-12 |
| 390     | H   | -    |                                 | 01-Jan-13 |
| 391     | H   | -    |                                 | 01-Nov-12 |
| 392     | F   | -    |                                 | 01-Nov-12 |
| 393     | G   | -    |                                 | 05-Aug-14 |
| 394     | E   | -    |                                 | 01-Nov-12 |
| 395     | F   | -    |                                 | 01-Nov-12 |
| 396     | F   | -    |                                 | 10-Jul-18 |
| 397     | J   | -    | Not Recommended for New Designs | 01-Jul-12 |
| 401     | H   | Q    |                                 | 01-Sep-11 |
| 404     | AA  | N    |                                 | 16-Feb-16 |
| 405     | J   | N    | Not Recommended for New Designs | 01-Sep-11 |
| 406     | F   | N    | Cancelled                       | 20-Mar-15 |
| 407     | AG  | N    |                                 | 13-Jan-14 |
| 408     | C   | -    |                                 | 01-May-78 |
| 409     | AA  | N    |                                 | 01-Jun-11 |
| 410     | G   | E    | Not Recommended for New Designs | 05-Jan-23 |
| 411     | P   | N    |                                 | 01-Sep-11 |
| 412     | H   | N    | Not Recommended for New Designs | 01-Dec-11 |
| 413     | F   | -    | Not Recommended for New Designs | 01-May-11 |
| 414     | N   | N    |                                 | 01-Dec-12 |
| 415     | B   | -    |                                 | 01-Aug-74 |
| 416     | N   | N    | Not Recommended for New Designs | 15-May-17 |
| 417     | E   | N    | Not Recommended for New Designs | 01-May-11 |
| 418     | H   | N    |                                 | 01-May-11 |
| 420     | E   | N    | Not Recommended for New Designs | 01-May-11 |
| 421     | R   | N    |                                 | 31-Aug-16 |
| 422     | V   | N    |                                 | 31-Aug-16 |
| 424     | H   | N    | Not Recommended for New Designs | 01-May-11 |
| 425     | H   | Q    | Not Recommended for New Designs | 01-Aug-11 |
| 426     | E   | N    | Not Recommended for New Designs | 01-May-11 |
| 427     | G   | N    | Not Recommended for New Designs | 01-Sep-11 |
| 428     | B   | N    | Cancelled                       | 20-Mar-15 |
| 429     | E   | N    | Cancelled                       | 20-Mar-15 |
| 430     | --  | -    | Cancelled                       |           |
| 433     | AA  | N    | Not Recommended for New Designs | 01-Sep-11 |
| 434     | F   | N    | Cancelled                       | 20-Mar-15 |
| 439     | D   | N    | Not Recommended for New Designs | 01-May-11 |
| 441     | D   | N    | Not Recommended for New Designs | 01-May-11 |
| 442     | G   | N    | Not Recommended for New Designs | 01-Aug-11 |

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|  | SPEC_NO | REV | CODE  | STATUS                          | REV_DATE  |
|--|---------|-----|-------|---------------------------------|-----------|
|  | 444     | H   | N     |                                 | 25-May-17 |
|  | 445     | H   | N     |                                 | 01-Sep-11 |
|  | 446     | D   | N     | Not Recommended for New Designs | 01-May-11 |
|  | 447     | B   | -     |                                 | 01-Aug-11 |
|  | 448     | L   | N     |                                 | 19-Nov-19 |
|  | 449     | K   | N     |                                 | 27-Mar-19 |
|  | 450     | H   | N     |                                 | 01-Mar-13 |
|  | 451     | AC  | N     |                                 | 19-Nov-19 |
|  | 452     | L   | N     |                                 | 01-May-11 |
|  | 453     | C   | -     |                                 | 01-Sep-11 |
|  | 454     | T   | N     |                                 | 01-Dec-11 |
|  | 455     | U   | N     |                                 | 01-Nov-14 |
|  | 456     | U   | N     |                                 | 18-Nov-14 |
|  | 457     | M   | N     |                                 | 01-Oct-11 |
|  | 458     | --  | -     | Cancelled                       |           |
|  | 459     | N   | N     |                                 | 07-Jun-21 |
|  | 460     | R   | E     | Active                          | 05-Jan-23 |
|  | 461     | C   | -     |                                 | 01-Aug-11 |
|  | 462     | C   | -     |                                 | 01-Aug-11 |
|  | 463     | C   | -     |                                 | 01-Aug-11 |
|  | 464     | G   | N     |                                 | 01-Dec-11 |
|  | 465     | N   | N     |                                 | 23-Dec-19 |
|  | * 466   | J   | N     |                                 | 09-Dec-24 |
|  | 467     | H   | N     |                                 | 01-Dec-12 |
|  | 468     | D   | N     | Not Recommended for New Designs | 01-May-11 |
|  | 469     | B   | N     | Not Recommended for New Designs | 01-May-11 |
|  | 472     | B   | Q     | Cancelled                       | 20-Mar-15 |
|  | 474     | U   | N     |                                 | 05-Nov-21 |
|  | 475     | F   | N     |                                 | 28-Feb-18 |
|  | 476     | E   | -     |                                 | 01-Aug-11 |
|  | 477     | P   | N     |                                 | 19-Nov-19 |
|  | 478     | H   | N     |                                 | 23-Jan-20 |
|  | 479     | E   | N     |                                 | 30-Nov-22 |
|  | 482     | H   | -     |                                 | 01-Nov-11 |
|  | 483     | C   | N     |                                 | 01-Sep-11 |
|  | 484     | L   | N     |                                 | 23-May-24 |
|  | 485     | D   | N     | Not Recommended for New Designs | 01-Sep-96 |
|  | 486     | G   | N     | Not Recommended for New Designs | 01-Jan-11 |
|  | 487     | G   | N     | Not Recommended for New Designs | 01-Nov-11 |
|  | 488     | L   | N     | Not Recommended for New Designs | 01-Sep-11 |
|  | 489     | D   | N     | Not Recommended for New Designs | 01-Nov-11 |
|  | 490     | --  | -     | Cancelled                       |           |
|  | 491     | --  | -     | Cancelled                       |           |
|  | 492     | C   | -     |                                 | 01-Aug-11 |
|  | 493     | H   | N     |                                 | 01-Jul-10 |
|  | 494     | --  | -     | Cancelled                       |           |
|  | 497     | A   | N     | Not Recommended for New Designs | 01-Dec-80 |
|  | 498     | H   | N     | Not Recommended for New Designs | 01-May-11 |
|  | 499     | M   | N     |                                 | 01-Sep-10 |
|  | 500     | --  | -     | Cancelled                       |           |
|  | 501     | --  | -     | Cancelled                       |           |
|  | 521     | N   | -     |                                 | 01-Oct-11 |
|  | 522     | M   | -     |                                 | 01-Sep-11 |
|  | 523     | F   | -     | Cancelled                       | 20-Mar-15 |
|  | 524     | E   | Q     | Cancelled                       | 20-Mar-15 |
|  | 525     | --  | -     | Cancelled                       |           |
|  | 526     | --  | -     | Cancelled                       |           |
|  | 527     | D   | -     | Cancelled                       | 20-Mar-15 |
|  | 528     | --  | -     | Cancelled                       |           |
|  | 529     | G   | -     | Cancelled                       | 23-Mar-15 |
|  | 530     | D   | -     |                                 | 01-Nov-11 |
|  | 535     | --  | -     | Cancelled                       |           |
|  | 536     | --  | -     | Cancelled                       |           |
|  | 537     | E   | N     |                                 | 01-Nov-10 |
|  | 538     | --  | -     | Cancelled                       |           |
|  | 539     | A   | -     | Cancelled                       | 20-Mar-15 |
|  | 540     | B   | Q     | Cancelled                       | 20-Mar-15 |
|  | 541     | K   | N     | Not Recommended for New Designs | 01-Dec-11 |
|  | 542     | --  | -     | Cancelled                       |           |
|  | 543     | K   | N,E   | Not Recommended for New Designs | 01-Sep-11 |
|  | 544     | M   | N     | Active                          | 05-Jan-23 |
|  | 545     | T   | E,N,P |                                 | 30-Jun-15 |
|  | 546     | C   | N     | Cancelled                       | 20-Mar-15 |
|  | 547     | H   | N     |                                 | 01-May-11 |
|  | 548     | J   | N     |                                 | 01-Jul-10 |
|  | 549     | P   | N     |                                 | 27-Jan-16 |
|  | 550     | W   | N     |                                 | 05-Nov-21 |
|  | 552     | L   | N     |                                 | 01-Jul-10 |
|  | 553     | J   | N,E   |                                 | 01-Oct-11 |
|  | 554     | E   | N     | Cancelled                       | 01-Mar-94 |
|  | 555     | G   | N     |                                 | 01-May-11 |
|  | 556     | T   | N     |                                 | 12-Jun-15 |
|  | 557     | F   | -     | Cancelled                       |           |
|  | 559     | F   | -     | Cancelled                       | 01-Jan-94 |
|  | 561     | N   | N     |                                 | 17-May-18 |
|  | 562     | F   | N     |                                 | 01-May-11 |

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|---------|-----|------|---------------------------------|-----------|
| 564     | A   | E    | Cancelled                       | 20-Mar-15 |
| 565     | A   | E    | Cancelled                       | 20-Mar-15 |
| 566     | H   | N    | Cancelled                       | 23-Mar-15 |
| 567     | T   | N    |                                 | 08-Feb-22 |
| 568     | U   | -    |                                 | 01-Aug-11 |
| 569     | R   | N    |                                 | 22-Sep-17 |
| 577     | E   | Q    |                                 | 01-Sep-11 |
| 578     | G   | Q    | Not Recommended for New Designs | 01-Sep-11 |
| 580     | K   | -    |                                 | 01-Aug-11 |
| 581     | G   | -    |                                 | 01-Jan-12 |
| 582     | G   | Q    | Cancelled                       | 23-Mar-15 |
| 583     | E   | -    |                                 | 01-Oct-11 |
| 585     | R   | N    | Cancelled                       | 23-Mar-15 |
| 586     | AE  | N    | Not Recommended for New Designs | 08-Dec-20 |
| 587     | F   | N    |                                 | 01-Nov-11 |
| 589     | --  | -    | Cancelled                       |           |
| 591     | L   | N    |                                 | 25-Jul-22 |
| 592     | L   | N    | Not Recommended for New Designs | 01-Nov-11 |
| 593     | G   | N    | Not Recommended for New Designs | 01-May-11 |
| 595     | V   | N    |                                 | 17-May-18 |
| 596     | M   | N    |                                 | 17-Dec-18 |
| 597     | AA  | N    |                                 | 31-Jan-22 |
| 599     | --  | -    | Cancelled                       |           |
| 603     | R   | N    |                                 | 01-Sep-11 |
| 604     | J   | N    |                                 | 01-May-11 |
| 605     | F   | -    | Cancelled                       | 01-Dec-94 |
| 606     | H   | N    | Not Recommended for New Designs | 01-May-11 |
| 609     | G   | -    |                                 | 01-Sep-11 |
| 611     | AG  | E    |                                 | 26-Sep-17 |
| 614     | E   | N    | Cancelled                       | 20-Mar-15 |
| 615     | AJ  | E    | Active                          | 19-Apr-24 |
| 616     | K   | -    |                                 | 01-Sep-11 |
| 617     | N   | N    | Not Recommended for New Designs | 01-Nov-10 |
| 618     | E   | N    |                                 | 01-May-11 |
| 619     | B   | Q    | Cancelled                       | 20-Mar-15 |
| 621     | --  | -    | Cancelled                       |           |
| 625     | L   | E    | Not Recommended for New Designs | 01-May-11 |
| 626     | C   | -    |                                 | 01-Aug-11 |
| 627     | B   | N    | Cancelled                       | 20-Mar-15 |
| 628     | J   | N    |                                 | 01-Aug-11 |
| 629     | D   | N    | Cancelled                       | 20-Mar-15 |
| 633     | B   | N    | Cancelled                       | 20-Mar-15 |
| 634     | --  | -    | Cancelled                       |           |
| 635     | N   | E    | Not Recommended for New Designs | 01-May-11 |
| 636     | --  | -    | Cancelled                       |           |
| 637     | D   | N    | Not Recommended for New Designs | 01-Sep-11 |
| 638     | B   | N    | Cancelled                       | 20-Mar-15 |
| 641     | E   | -    |                                 | 01-Sep-11 |
| 642     | D   | -    |                                 | 01-Oct-11 |
| 645     | E   | N    |                                 | 24-Aug-16 |
| 646     | --  | -    | Cancelled                       |           |
| 647     | K   | I    |                                 | 01-Oct-11 |
| 649     | V   | I    | Not Recommended for New Designs | 01-Oct-11 |
| 651     | E   | -    | Cancelled                       | 20-Mar-15 |
| 652     | M   | -    | Not Recommended for New Designs | 01-Oct-11 |
| 653     | H   | -    | Not Recommended for New Designs | 01-Aug-11 |
| 654     | F   | -    | Cancelled                       | 20-Mar-15 |
| 655     | V   | I    |                                 | 01-Oct-11 |
| 656     | U   | I    |                                 | 01-Aug-11 |
| 657     | H   | I    | Not Recommended for New Designs | 01-Sep-11 |
| 658     | AH  | I    |                                 | 12-May-17 |
| 659     | L   | I    | Cancelled                       | 20-Mar-15 |
| 661     | F   | -    | Not Recommended for New Designs | 01-Oct-11 |
| 662     | F   | -    | Not Recommended for New Designs | 01-Aug-11 |
| 663     | AK  | I    | Not Recommended for New Designs | 01-Oct-11 |
| 664     | K   | I    | Cancelled                       | 20-Mar-15 |
| 673     | G   | -    | Not Recommended for New Designs | 01-May-11 |
| 686     | V   | I    | Not Recommended for New Designs | 01-May-11 |
| 687     | N   | -    |                                 | 01-Oct-11 |
| 689     | M   | I    | Not Recommended for New Designs | 01-Sep-11 |
| 691     | A   | -    | Cancelled                       | 20-Mar-15 |
| 692     | F   | -    |                                 | 01-Sep-11 |
| 694     | R   | N    |                                 | 01-May-13 |
| 698     | J   | -    | Not Recommended for New Designs | 01-May-11 |
| 699     | C   | -    | Cancelled                       | 08-Dec-94 |
| 701     | D   | -    |                                 | 01-Aug-11 |
| 703     | --  | -    | Cancelled                       |           |
| 704     | D   | -    |                                 | 01-Nov-11 |
| 706     | G   | -    |                                 | 01-May-11 |
| 707     | C   | -    |                                 | 01-Aug-11 |
| 708     | F   | -    | Not Recommended for New Designs | 01-Nov-11 |
| 713     | D   | -    |                                 | 01-Jan-12 |
| 714     | --  | -    | Cancelled                       |           |
| 715     | F   | -    | Not Recommended for New Designs | 01-May-11 |
| 716     | F   | -    | Not Recommended for New Designs | 01-Feb-12 |
| 717     | F   | -    |                                 | 01-Aug-11 |

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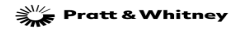
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|---------|-----|------|---------------------------------|-----------|
| 718     | G   | -    | Not Recommended for New Designs | 01-Dec-11 |
| 719     | D   | Q    | Not Recommended for New Designs | 01-May-11 |
| 723     | P   | -    |                                 | 01-Jan-12 |
| 724     | H   | -    | Not Recommended for New Designs | 01-May-11 |
| 725     | R   | -    |                                 | 01-Jan-12 |
| 733     | Y   | I    |                                 | 25-Aug-15 |
| 734     | E   | -    |                                 | 01-Sep-11 |
| 735     | --  | -    | Cancelled                       |           |
| 736     | --  | -    | Cancelled                       |           |
| 737     | --  | -    | Cancelled                       |           |
| 738     | --  | -    | Cancelled                       |           |
| 739     | --  | -    | Cancelled                       |           |
| 740     | --  | -    | Cancelled                       |           |
| 741     | F   | -    | Not Recommended for New Designs | 01-May-11 |
| 742     | E   | -    | Not Recommended for New Designs | 01-Sep-11 |
| 743     | C   | N    | Cancelled                       | 20-Mar-15 |
| 744     | J   | N    |                                 | 01-Mar-11 |
| 749     | G   | -    |                                 | 01-Aug-11 |
| 765     | E   | -    | Not Recommended for New Designs | 01-Sep-11 |
| 767     | J   | -    | Not Recommended for New Designs | 01-Nov-11 |
| 768     | L   | I    |                                 | 01-May-11 |
| 770     | K   | E    | Not Recommended for New Designs | 01-Oct-11 |
| 771     | H   | I    | Not Recommended for New Designs | 01-Sep-11 |
| 772     | E   | -    | Not Recommended for New Designs | 01-Nov-11 |
| 773     | D   | -    | Not Recommended for New Designs | 01-Sep-11 |
| 776     | C   | -    |                                 | 01-Jan-12 |
| 777     | G   | N    | Not Recommended for New Designs | 01-May-11 |
| 778     | D   | -    |                                 | 01-Sep-11 |
| 779     | E   | -    | Cancelled                       | 20-Mar-15 |
| 788     | D   | -    | Cancelled                       | 20-Mar-15 |
| 789     | F   | -    | Cancelled                       | 20-Mar-15 |
| 790     | E   | -    | Not Recommended for New Designs | 01-May-11 |
| 791     | E   | N    | Not Recommended for New Designs | 01-May-11 |
| 792     | D   | -    |                                 | 01-Apr-11 |
| 793     | L   | I    |                                 | 01-Jan-12 |
| 795     | K   | N    |                                 | 02-May-16 |
| 796     | --  | -    | Cancelled                       |           |
| 797     | --  | -    | Cancelled                       |           |
| 798     | C   | -    | Cancelled                       | 13-Dec-94 |
| 802     | D   | Q    |                                 | 01-Sep-11 |
| 803     | --  | -    | Cancelled                       |           |
| 804     | D   | -    | Not Recommended for New Designs | 01-Aug-11 |
| 809     | G   | N    |                                 | 01-Sep-11 |
| 810     | F   | Q    | Cancelled                       | 20-Mar-15 |
| 817     | G   | I    | Not Recommended for New Designs | 01-Sep-11 |
| 830     | BY  | -    |                                 | 22-Mar-17 |
| 840     | --  | -    | Cancelled                       |           |
| 892     | --  | -    | Cancelled                       |           |
| 896     | D   | -    |                                 | 01-Sep-11 |
| 927     | --  | -    | Cancelled                       |           |
| 953     | --  | -    | Cancelled                       |           |
| 956     | --  | -    | Cancelled                       |           |
| 996     | G   | -    |                                 | 01-Oct-11 |
| 998     | C   | -    | Cancelled                       | 20-Mar-15 |
| 1003    | U   | I    |                                 | 01-Jun-13 |
| 1004    | J   | -    |                                 | 01-Dec-11 |
| 1005    | V   | I    | Not Recommended for New Designs | 01-Sep-11 |
| 1007    | AE  | I    | Not Recommended for New Designs | 01-Oct-11 |
| 1009    | L   | -    |                                 | 01-Oct-11 |
| 1010    | Y   | I    |                                 | 01-Aug-11 |
| 1012    | D   | -    |                                 | 01-Aug-11 |
| 1013    | Y   | I    | Not Recommended for New Designs | 01-Sep-11 |
| 1014    | J   | -    |                                 | 01-Sep-11 |
| 1015    | E   | -    |                                 | 01-Sep-11 |
| 1016    | AB  | I    |                                 | 01-Oct-11 |
| 1019    | E   | I    | Cancelled                       | 20-Mar-15 |
| 1021    | H   | I    | Not Recommended for New Designs | 01-Dec-98 |
| 1022    | P   | I    |                                 | 01-Sep-11 |
| 1024    | F   | I    | Cancelled                       | 20-Mar-15 |
| 1025    | J   | -    | Not Recommended for New Designs | 01-Oct-11 |
| 1026    | J   | -    | Not Recommended for New Designs | 01-May-11 |
| 1027    | R   | I    | Not Recommended for New Designs | 01-Oct-11 |
| 1029    | N   | I    | Not Recommended for New Designs | 01-Oct-11 |
| 1035    | J   | -    |                                 | 01-Aug-11 |
| 1036    | C   | -    |                                 | 01-Sep-11 |
| 1037    | F   | -    | Not Recommended for New Designs | 30-Jun-16 |
| 1038    | P   | -    | Not Recommended for New Designs | 30-Jun-16 |
| 1039    | E   | -    | Not Recommended for New Designs | 30-Jun-16 |
| 1042    | N   | -    | Not Recommended for New Designs | 01-Oct-11 |
| 1043    | F   | -    |                                 | 01-Aug-11 |
| 1045    | G   | E    | Cancelled                       | 20-Mar-15 |
| 1049    | E   | I    | Cancelled                       | 20-Mar-15 |
| 1052    | D   | -    | Cancelled                       | 23-Mar-15 |
| 1055    | D   | -    |                                 | 01-Aug-11 |
| 1056    | R   | I    |                                 | 05-Apr-24 |
| 1057    | P   | I    | Not Recommended for New Designs | 01-Apr-11 |
| 1058    | E   | -    | Cancelled                       | 20-Mar-15 |

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**PWA Specifications "Not Recommended for New Designs" - Highlighted in Green**

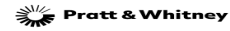
\* Revised Since Previous Edition of 10/17/2024

+ Added Since Previous Edition of 10/17/2024

Revision Date 01/2025

Updated Quarterly - January, April, July, October

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|  | SPEC_NO | REV | CODE  | STATUS                          | REV_DATE  |
|--|---------|-----|-------|---------------------------------|-----------|
|  | 1060    | J   | -     |                                 | 01-Sep-11 |
|  | 1062    | F   | -     |                                 | 01-Sep-11 |
|  | 1064    | E   | -     | Not Recommended for New Designs | 01-Sep-11 |
|  | 1065    | P   | -     |                                 | 03-Sep-20 |
|  | 1066    | C   | -     |                                 | 01-Aug-11 |
|  | 1069    | E   | -     |                                 | 01-Oct-11 |
|  | 1070    | H   | -     |                                 | 01-Sep-11 |
|  | 1072    | E   | -     |                                 | 01-Oct-11 |
|  | 1073    | N   | -     | Not Recommended for New Designs | 01-Oct-11 |
|  | 1074    | U   | E     |                                 | 01-Nov-21 |
|  | 1075    | D   | -     |                                 | 01-Jan-12 |
|  | 1077    | F   | I     | Not Recommended for New Designs | 01-Oct-11 |
|  | 1078    | D   | -     | Not Recommended for New Designs | 01-Sep-11 |
|  | 1079    | E   | N     | Not Recommended for New Designs | 01-May-11 |
|  | 1084    | E   | -     |                                 | 01-Oct-11 |
|  | 1085    | K   | I     |                                 | 01-Feb-12 |
|  | 1087    | D   | -     |                                 | 01-Aug-11 |
|  | 1088    | D   | N     | Not Recommended for New Designs | 01-Sep-11 |
|  | 1089    | D   | -     |                                 | 01-May-11 |
|  | 1090    | J   | N     | Not Recommended for New Designs | 28-Feb-22 |
|  | 1091    | G   | -     |                                 | 01-May-11 |
|  | 1092    | B   | -     |                                 | 01-Aug-11 |
|  | 1095    | J   | E     |                                 | 01-Oct-11 |
|  | 1096    | F   | E     | Not Recommended for New Designs | 01-May-11 |
|  | 1100    | P   | E     |                                 | 01-Dec-23 |
|  | 1101    | C   | E     | Not Recommended for New Designs | 01-May-11 |
|  | 1102    | G   | E     | Not Recommended for New Designs | 01-Oct-11 |
|  | 1103    | C   | -     | Cancelled                       | 23-Mar-15 |
|  | 1104    | D   | -     | Cancelled                       | 23-Mar-15 |
|  | 1105    | D   | -     | Cancelled                       | 23-Mar-15 |
|  | 1106    | M   | E,P   |                                 | 09-Jun-15 |
|  | 1107    | G   | I     | Not Recommended for New Designs | 01-Oct-11 |
|  | 1109    | C   | -     | Cancelled                       | 01-Apr-12 |
|  | 1110    | B   | -     | Cancelled                       | 01-Apr-12 |
|  | 1111    | B   | -     | Cancelled                       | 01-Apr-12 |
|  | 1112    | J   | I,P   |                                 | 01-Sep-11 |
|  | 1113    | J   | I,P   |                                 | 01-May-11 |
|  | 1114    | D   | -     |                                 | 01-Aug-11 |
|  | 1115    | H   | E,P   |                                 | 13-Oct-23 |
|  | 1116    | B   | E     | Development                     | 01-Sep-11 |
|  | 1117    | B   | I,E,P |                                 | 01-May-11 |
|  | 1120    | B   | -     | Cancelled                       | 01-Apr-12 |
|  | 1121    | B   | -     | Cancelled                       | 01-Apr-12 |
|  | 1122    | B   | -     | Cancelled                       | 01-Apr-12 |
|  | 1123    | C   | -     | Cancelled                       | 01-Apr-12 |
|  | 1125    | D   | E,P   |                                 | 19-Sep-18 |
|  | 1126    | --  | -     | Cancelled                       |           |
|  | 1127    | E   | -     | Not Recommended for New Designs | 01-Oct-11 |
|  | 1128    | D   | -     | Not Recommended for New Designs | 01-Dec-11 |
|  | 1129    | B   | -     |                                 | 01-Aug-11 |
|  | 1130    | C   | -     | Not Recommended for New Designs | 01-Oct-11 |
|  | 1161    | F   | -     | Not Recommended for New Designs | 01-Oct-11 |
|  | 1162    | E   | -     |                                 | 01-Oct-11 |
|  | 1163    | J   | -     | Not Recommended for New Designs | 30-Jun-16 |
|  | 1164    | F   | -     | Not Recommended for New Designs | 01-Oct-11 |
|  | 1165    | E   | -     | Not Recommended for New Designs | 30-Jun-16 |
|  | 1166    | B   | -     | Cancelled                       | 01-Apr-12 |
|  | 1167    | H   | -     | Not Recommended for New Designs | 01-Oct-11 |
|  | 1168    | E   | -     | Not Recommended for New Designs | 01-Sep-11 |
|  | 1169    | B   | -     | Cancelled                       | 01-Apr-12 |
|  | 1170    | P   | N     |                                 | 01-May-11 |
|  | 1172    | B   | -     | Not Recommended for New Designs | 01-May-11 |
|  | 1174    | D   | -     |                                 | 01-Oct-11 |
|  | 1175    | D   | -     |                                 | 01-Oct-11 |
|  | 1176    | D   | E     |                                 | 01-Nov-11 |
|  | 1177    | C   | E     |                                 | 01-Nov-11 |
|  | 1179    | C   | -     | Not Recommended for New Designs | 01-Dec-11 |
|  | 1180    | F   | Q     |                                 | 01-May-11 |
|  | 1181    | D   | Q     | Not Recommended for New Designs | 01-May-11 |
|  | 1182    | H   | E     | Not Recommended for New Designs | 01-Sep-11 |
|  | 1183    | D   | -     | Not Recommended for New Designs | 01-Sep-11 |
|  | 1184    | B   | -     | Cancelled                       | 01-Apr-12 |
|  | 1185    | N   | N     |                                 | 01-Oct-14 |
|  | 1186    | E   | N,P   |                                 | 01-Dec-14 |
|  | 1188    | G   | E,I   |                                 | 12-Mar-24 |
|  | 1191    | L   | -     | Not Recommended for New Designs | 01-Sep-11 |
|  | 1192    | K   | -     | Not Recommended for New Designs | 01-Sep-11 |
|  | 1193    | K   | I     | Active                          | 28-Mar-23 |
|  | 1194    | G   | -     | Not Recommended for New Designs | 01-Oct-11 |
|  | 1195    | B   | -     | Not Recommended for New Designs | 01-May-11 |
|  | 1196    | C   | -     |                                 | 01-Oct-11 |
|  | 1197    | D   | -     | Not Recommended for New Designs | 01-May-11 |
|  | 1198    | H   | -     |                                 | 17-Aug-16 |
|  | 1199    | F   | -     |                                 | 01-Dec-11 |
|  | 1200    | --  | -     | Cancelled                       |           |
|  | 1201    | L   | E     | Active                          | 05-Jan-23 |

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PWA

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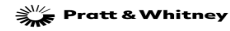
\* Revised Since Previous Edition of 10/17/2024

+ Added Since Previous Edition of 10/17/2024

Revision Date 01/2025

Updated Quarterly - January, April, July, October

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| SPEC_NO | REV | CODE | STATUS                          | REV_DATE  |
|---------|-----|------|---------------------------------|-----------|
| 1202    | AK  | I    |                                 | 01-Feb-13 |
| 1204    | E   | -    |                                 | 01-Sep-11 |
| 1209    | Y   | I    | Not Recommended for New Designs | 01-Mar-11 |
| 1210    | P   | I    |                                 | 01-Aug-11 |
| 1212    | L   | I    | Not Recommended for New Designs | 01-Mar-11 |
| 1213    | H   | E    | Not Recommended for New Designs | 01-May-11 |
| 1214    | T   | I    | Not Recommended for New Designs | 01-Mar-11 |
| 1215    | T   | I    |                                 | 10-Sep-24 |
| 1216    | T   | I    | Not Recommended for New Designs | 18-Nov-19 |
| 1217    | H   | I    |                                 | 01-May-11 |
| 1219    | F   | -    | Cancelled                       | 01-Apr-12 |
| 1220    | N   | I    |                                 | 19-Nov-19 |
| 1221    | A   | I,E  |                                 | 01-Mar-11 |
| 1222    | D   | -    |                                 | 01-Sep-11 |
| 1223    | J   | -    |                                 | 01-Nov-13 |
| 1224    | K   | I    |                                 | 01-Mar-11 |
| 1225    | K   | I    |                                 | 01-Mar-11 |
| 1227    | P   | I,E  |                                 | 19-Nov-19 |
| 1228    | K   | I    |                                 | 01-Mar-11 |
| 1229    | B   | -    | Cancelled                       | 01-Apr-12 |
| 1231    | J   | -    |                                 | 01-Oct-11 |
| 1232    | G   | I    |                                 | 01-Oct-11 |
| 1233    | G   | -    |                                 | 01-Sep-11 |
| 1234    | B   | -    | Cancelled                       | 01-Apr-12 |
| 1235    | A   | I    | Development                     | 27-Jun-22 |
| 1236    | A   | E,I  |                                 | 29-Apr-24 |
| 1238    | A   | E,I  | Development                     | 20-Sep-18 |
| 1240    | D   | -    | Cancelled                       | 23-Mar-15 |
| 1241    | E   | -    |                                 | 06-Oct-23 |
| 1242    | C   | -    | Cancelled                       | 01-Oct-96 |
| 1250    | C   | -    | Cancelled                       | 01-Apr-12 |
| 1251    | A   | -    | Cancelled                       | 01-Apr-12 |
| 1260    | R   | -    |                                 | 01-Oct-11 |
| 1262    | V   | E    |                                 | 01-Oct-11 |
| 1264    | R   | E    | Not Recommended for New Designs | 01-Oct-11 |
| 1265    | R   | E    |                                 | 01-Sep-11 |
| 1266    | B   | -    | Cancelled                       | 01-Apr-12 |
| 1267    | H   | E    |                                 | 01-Nov-10 |
| 1269    | C   | E    |                                 | 27-Aug-15 |
| 1270    | J   | I,P  |                                 | 01-Jan-12 |
| 1271    | K   | I,P  |                                 | 01-Oct-11 |
| 1272    | N   | E    |                                 | 01-Oct-11 |
| 1273    | L   | E    |                                 | 01-Oct-11 |
| 1274    | K   | -    |                                 | 01-Oct-11 |
| 1275    | C   | -    | Cancelled                       | 01-Apr-12 |
| 1276    | F   | E    | Not Recommended for New Designs | 01-Oct-11 |
| 1277    | C   | -    | Cancelled                       | 01-Apr-12 |
| 1279    | D   | N    |                                 | 01-Oct-11 |
| 1281    | A   | -    |                                 | 01-Oct-11 |
| 1282    | A   | -    |                                 | 01-Aug-11 |
| 1292    | --  | -    | Development                     | 05-May-17 |
| 1300    | A   | I    |                                 | 01-Feb-12 |
| 1302    | G   | Q    | Not Recommended for New Designs | 01-Dec-11 |
| 1303    | D   | Q    | Not Recommended for New Designs | 01-Feb-12 |
| 1304    | K   | Q    |                                 | 01-May-11 |
| 1306    | H   | Q    | Not Recommended for New Designs | 01-May-11 |
| 1307    | G   | Q    | Not Recommended for New Designs | 01-May-11 |
| 1310    | H   | Q    |                                 | 12-Dec-19 |
| 1311    | AD  | N    |                                 | 19-Dec-22 |
| 1312    | N   | N    | Not Recommended for New Designs | 01-Dec-14 |
| 1313    | E   | Q    |                                 | 01-May-11 |
| 1314    | V   | N    | Not Recommended for New Designs | 01-Dec-14 |
| 1315    | G   | Q    |                                 | 01-May-11 |
| 1316    | H   | Q    | Not Recommended for New Designs | 01-May-11 |
| 1317    | H   | Q    | Not Recommended for New Designs | 01-May-11 |
| 1318    | J   | Q    |                                 | 01-May-11 |
| 1319    | G   | Q    |                                 | 01-May-11 |
| 1320    | N   | N    |                                 | 01-Dec-14 |
| 1321    | R   | N    | Not Recommended for New Designs | 01-Dec-14 |
| 1322    | M   | N    | Not Recommended for New Designs | 01-Dec-14 |
| 1323    | K   | Q    | Not Recommended for New Designs | 01-May-11 |
| 1324    | K   | N    |                                 | 01-Nov-10 |
| 1325    | U   | N    | Cancelled                       | 31-Aug-17 |
| 1326    | --  | -    | Cancelled                       |           |
| 1327    | G   | N    | Not Recommended for New Designs | 01-May-11 |
| 1328    | H   | Q    | Not Recommended for New Designs | 01-May-11 |
| 1329    | --  | -    | Cancelled                       |           |
| 1330    | E   | N    |                                 | 01-May-11 |
| 1331    | D   | Q    |                                 | 01-Sep-11 |
| 1333    | T   | N    |                                 | 24-Oct-18 |
| 1334    | M   | N    |                                 | 03-Sep-21 |
| 1335    | N   | N    |                                 | 01-Aug-14 |
| 1337    | AD  | N    |                                 | 01-Sep-14 |
| 1338    | R   | N    | Not Recommended for New Designs | 24-Oct-18 |
| 1339    | H   | N    | Not Recommended for New Designs | 23-Feb-15 |
| 1340    | F   | -    | Not Recommended for New Designs | 01-Sep-11 |

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| SPEC_NO | REV | CODE  | STATUS                          | REV_DATE  |
|---------|-----|-------|---------------------------------|-----------|
| 1341    | J   | N     | Not Recommended for New Designs | 23-Feb-15 |
| 1342    | M   | N     | Not Recommended for New Designs | 23-Feb-15 |
| 1346    | N   | N     | Not Recommended for New Designs | 24-Oct-18 |
| 1347    | E   | Q     |                                 | 01-May-11 |
| 1348    | T   | N     | Not Recommended for New Designs | 19-Dec-18 |
| 1349    | U   | N     |                                 | 13-Jun-23 |
| 1351    | K   | I     | Not Recommended for New Designs | 01-Sep-11 |
| 1352    | V   | N     |                                 | 24-Oct-18 |
| 1353    | K   | -     |                                 | 01-Dec-11 |
| 1354    | --  | -     | Cancelled                       |           |
| 1355    | J   | -     |                                 | 01-May-11 |
| 1356    | T   | -     |                                 | 01-May-11 |
| 1358    | H   | N     | Not Recommended for New Designs | 23-Feb-15 |
| 1359    | F   | N     |                                 | 01-May-11 |
| 1360    | F   | N     | Not Recommended for New Designs | 01-Sep-11 |
| 1361    | F   | I     | Not Recommended for New Designs | 01-Sep-11 |
| 1362    | D   | Q     | Not Recommended for New Designs | 01-May-11 |
| 1364    | E   | Q     | Not Recommended for New Designs | 01-Dec-14 |
| 1365    | V   | N     |                                 | 19-Dec-18 |
| 1367    | D   | Q     | Not Recommended for New Designs | 01-Sep-11 |
| 1368    | E   | I     | Not Recommended for New Designs | 01-Sep-11 |
| 1369    | K   | N     |                                 | 01-Sep-14 |
| 1370    | H   | I     |                                 | 01-Oct-11 |
| 1372    | E   | I     |                                 | 01-Oct-11 |
| 1373    | J   | N     | Not Recommended for New Designs | 30-Mar-15 |
| 1374    | C   | Q     |                                 | 01-May-11 |
| 1375    | V   | N     |                                 | 19-Oct-19 |
| 1376    | M   | N     |                                 | 19-Dec-18 |
| 1377    | C   | -     |                                 | 01-Jun-11 |
| 1378    | N   | N     |                                 | 12-Aug-15 |
| 1379    | N   | N     | Not Recommended for New Designs | 30-Mar-15 |
| 1380    | E   | Q     | Not Recommended for New Designs | 01-Jun-11 |
| 1381    | D   | N     |                                 | 10-Mar-15 |
| 1382    | J   | N     | Not Recommended for New Designs | 30-Mar-15 |
| 1383    | E   | N     |                                 | 01-Jun-11 |
| 1384    | C   | N     |                                 | 10-Mar-15 |
| 1385    | F   | N     | Not Recommended for New Designs | 19-Dec-18 |
| 1386    | T   | N     |                                 | 19-Dec-18 |
| 1387    | D   | N     | Not Recommended for New Designs | 01-Jun-11 |
| 1388    | E   | N     | Not Recommended for New Designs | 30-Mar-15 |
| 1389    | E   | N,P   | Not Recommended for New Designs | 01-Jun-11 |
| 1390    | E   | E     | Not Recommended for New Designs | 01-Sep-11 |
| 1392    | T   | I,E   |                                 | 12-Feb-24 |
| 1393    | H   | N     |                                 | 07-Dec-15 |
| 1394    | F   | I,E   | Not Recommended for New Designs | 01-Sep-11 |
| 1395    | H   | I,E   | Not Recommended for New Designs | 01-Sep-11 |
| 1397    | D   | N     |                                 | 01-Dec-11 |
| 1398    | C   | N     |                                 | 15-Apr-16 |
| 1404    | C   | I,E,P |                                 | 01-Sep-11 |
| 1405    | A   | I,E   | Development                     | 01-Nov-10 |
| 1419    | H   | I     | Not Recommended for New Designs | 01-Aug-11 |
| 1422    | AH  | I,E,P |                                 | 01-May-12 |
| 1426    | N   | I,P   |                                 | 01-Oct-11 |
| 1427    | A   | -     |                                 | 01-Aug-11 |
| 1428    | A   | I,E   |                                 | 01-Aug-11 |
| 1429    | C   | I,E   |                                 | 17-Apr-18 |
| 1430    | A   | I,E   |                                 | 01-Dec-10 |
| 1431    | B   | I,E   |                                 | 01-Sep-11 |
| 1432    | B   | I,P   |                                 | 17-Aug-16 |
| 1433    | A   | I     |                                 | 01-Aug-11 |
| 1434    | A   | -     |                                 | 01-Apr-11 |
| 1435    | A   | I     |                                 | 01-May-10 |
| 1436    | B   | I     |                                 | 01-Aug-11 |
| 1437    | C   | I,P   |                                 | 01-Aug-11 |
| 1438    | A   | -     |                                 | 01-Aug-11 |
| 1439    | A   | I,E   |                                 | 01-Aug-11 |
| 1440    | B   | I,E   |                                 | 01-Oct-11 |
| 1441    | A   | -     | Cancelled                       | 01-Apr-12 |
| 1442    | A   | -     | Cancelled                       | 01-Apr-12 |
| 1443    | A   | -     | Cancelled                       | 01-Apr-12 |
| 1444    | C   | -     | Cancelled                       | 01-Apr-12 |
| 1447    | L   | I     |                                 | 01-Oct-11 |
| 1448    | F   | I     |                                 | 01-Jan-12 |
| 1449    | F   | I     |                                 | 01-Sep-11 |
| 1451    | W   | I     | Not Recommended for New Designs | 01-Apr-11 |
| 1455    | Y   | I     |                                 | 01-Oct-11 |
| 1456    | T   | I     | Not Recommended for New Designs | 01-Aug-11 |
| 1462    | B   | -     | Cancelled                       | 01-Apr-12 |
| 1464    | D   | -     | Not Recommended for New Designs | 01-Oct-11 |
| 1467    | F   | I,E   | Not Recommended for New Designs | 01-Apr-11 |
| 1468    | E   | -     | Not Recommended for New Designs | 01-Oct-11 |
| 1469    | P   | I     |                                 | 01-Jan-15 |
| 1470    | C   | -     | Cancelled                       | 01-Apr-12 |
| 1471    | M   | I     |                                 | 01-Oct-11 |
| 1472    | F   | I,P   | Not Recommended for New Designs | 01-Oct-11 |
| 1473    | C   | -     | Cancelled                       | 01-Jan-05 |

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|  | SPEC_NO | REV | CODE  | STATUS                          | REV_DATE  |
|--|---------|-----|-------|---------------------------------|-----------|
|  | 1474    | E   | -     |                                 | 01-Feb-12 |
|  | 1475    | D   | -     |                                 | 01-Oct-11 |
|  | 1476    | D   | I     | Not Recommended for New Designs | 01-Sep-11 |
|  | 1477    | E   | I     |                                 | 01-Oct-11 |
|  | 1478    | D   | -     |                                 | 01-Aug-11 |
|  | 1479    | A   | -     |                                 | 01-Aug-11 |
|  | 1480    | AB  | I,E   |                                 | 01-Oct-11 |
|  | 1482    | E   | -     | Cancelled                       | 01-Apr-12 |
|  | 1483    | F   | I,P   |                                 | 01-Jul-12 |
|  | 1484    | AB  | I,E   |                                 | 06-Oct-22 |
|  | 1485    | J   | I     | Not Recommended for New Designs | 01-Aug-11 |
|  | 1487    | L   | I,E   |                                 | 01-Oct-11 |
|  | 1488    | B   | -     | Cancelled                       | 01-Apr-12 |
|  | 1489    | F   | I     | Not Recommended for New Designs | 01-Nov-11 |
|  | 1490    | H   | -     | Cancelled                       | 23-Mar-15 |
|  | 1491    | F   | -     | Cancelled                       | 01-Apr-12 |
|  | 1492    | D   | -     | Cancelled                       | 01-Apr-12 |
|  | 1493    | F   | -     | Cancelled                       | 23-Mar-15 |
|  | 1495    | H   | I,E   |                                 | 10-Oct-19 |
|  | 1496    | E   | I,E,P | Not Recommended for New Designs | 01-Oct-11 |
|  | 1497    | B   | I     | Development                     | 01-Dec-11 |
|  | 1498    | A   | I     |                                 | 01-Apr-11 |
|  | 1499    | A   | I,E   |                                 | 01-Apr-11 |
|  | 2430    | D   | Q     |                                 | 24-Jan-18 |
|  | 6000    | D   | -     | Cancelled                       | 20-Mar-15 |
|  | 6005    | D   | -     | Cancelled                       | 20-Mar-15 |
|  | 6009    | D   | -     | Cancelled                       | 20-Mar-15 |
|  | 6015    | C   | -     | Cancelled                       | 20-Mar-15 |
|  | 6020    | D   | -     | Cancelled                       | 20-Mar-15 |
|  | 6021    | E   | N,Q   | Cancelled                       | 20-Mar-15 |
|  | 6031    | E   | -     | Cancelled                       | 20-Mar-15 |
|  | 6032    | D   | -     | Cancelled                       | 20-Mar-15 |
|  | 6033    | E   | -     | Cancelled                       | 20-Mar-15 |
|  | 6051    | D   | N     | Cancelled                       | 20-Mar-15 |
|  | 6058    | D   | N     | Cancelled                       | 20-Mar-15 |
|  | 6059    | F   | N     | Cancelled                       | 20-Mar-15 |
|  | 6060    | B   | N     | Cancelled                       | 20-Mar-15 |
|  | 6061    | D   | -     | Cancelled                       | 20-Mar-15 |
|  | 6062    | C   | N     | Cancelled                       | 20-Mar-15 |
|  | 6063    | C   | N     | Cancelled                       | 20-Mar-15 |
|  | 6064    | D   | -     | Cancelled                       | 20-Mar-15 |
|  | 6066    | --  | -     | Cancelled                       |           |
|  | 6069    | B   | -     | Cancelled                       | 20-Mar-15 |
|  | 36000   | Y   | N     |                                 | 13-May-15 |
|  | 36001   | H   | N     | Not Recommended for New Designs | 01-Sep-11 |
|  | * 36002 | J   | N     | Not Recommended for New Designs | 20-Nov-24 |
|  | 36003   | T   | N     |                                 | 11-Jan-18 |
|  | 36004   | F   | N     | Not Recommended for New Designs | 01-Sep-11 |
|  | 36007   | J   | N     | Not Recommended for New Designs | 01-Aug-11 |
|  | 36008   | G   | N     | Not Recommended for New Designs | 01-Aug-11 |
|  | 36009   | E   | N     | Not Recommended for New Designs | 01-Aug-11 |
|  | 36010   | F   | N     | Not Recommended for New Designs | 01-Jun-11 |
|  | 36011   | F   | N     | Not Recommended for New Designs | 01-Aug-11 |
|  | 36013   | K   | N     |                                 | 09-Apr-24 |
|  | 36014   | J   | N     |                                 | 01-Apr-11 |
|  | 36015   | J   | N     |                                 | 01-Aug-11 |
|  | 36016   | J   | N     |                                 | 01-Aug-11 |
|  | 36017   | J   | N     |                                 | 01-Jun-11 |
|  | 36019   | G   | N     | Not Recommended for New Designs | 01-Aug-11 |
|  | 36020   | G   | N     | Not Recommended for New Designs | 01-Apr-11 |
|  | 36022   | G   | N     |                                 | 01-Jan-12 |
|  | 36023   | D   | N     | Not Recommended for New Designs | 01-Sep-11 |
|  | 36024   | B   | -     |                                 | 01-Aug-11 |
|  | 36025   | G   | N     | Not Recommended for New Designs | 01-Sep-11 |
|  | 36026   | F   | N     |                                 | 01-Aug-11 |
|  | 36027   | L   | N     |                                 | 29-Aug-16 |
|  | 36028   | H   | N     | Not Recommended for New Designs | 23-Sep-16 |
|  | 36029   | M   | N     |                                 | 16-Sep-16 |
|  | 36030   | H   | N     | Not Recommended for New Designs | 23-Sep-16 |
|  | 36031   | H   | N     | Not Recommended for New Designs | 01-Aug-11 |
|  | 36032   | G   | N     | Not Recommended for New Designs | 01-Sep-11 |
|  | 36033   | F   | N     | Not Recommended for New Designs | 01-Oct-11 |
|  | 36035   | K   | N     | Not Recommended for New Designs | 01-Sep-11 |
|  | 36036   | E   | N     | Not Recommended for New Designs | 01-Aug-11 |
|  | 36038   | G   | N     |                                 | 23-Jun-16 |
|  | 36040   | B   | N     |                                 | 01-Apr-11 |
|  | 36043   | F   | -     |                                 | 01-Aug-11 |
|  | 36045   | F   | N     | Not Recommended for New Designs | 01-Sep-11 |
|  | 36047   | K   | N     | Not Recommended for New Designs | 01-Dec-11 |
|  | 36048   | G   | N     |                                 | 01-Aug-11 |
|  | * 36050 | H   | N     | Not Recommended for New Designs | 09-Dec-24 |
|  | 36052   | E   | N     |                                 | 16-Sep-16 |
|  | 36053   | J   | N     |                                 | 16-Oct-23 |
|  | 36054   | F   | N     |                                 | 01-Jul-10 |
|  | 36055   | D   | -     |                                 | 01-Oct-11 |
|  | 36056   | D   | -     |                                 | 01-Sep-11 |



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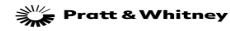
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|---------|-----|------|---------------------------------|-----------|
| 36057   | G   | N    | Not Recommended for New Designs | 16-Sep-16 |
| 36058   | C   | N    | Not Recommended for New Designs | 01-Apr-11 |
| 36059   | --  | -    | Cancelled                       |           |
| 36060   | C   | N    | Not Recommended for New Designs | 01-Aug-11 |
| 36061   | E   | N    |                                 | 07-Apr-17 |
| 36062   | --  | -    | Cancelled                       |           |
| 36063   | D   | N    | Not Recommended for New Designs | 01-Oct-11 |
| 36064   | C   | N    | Not Recommended for New Designs | 01-Sep-11 |
| 36065   | --  | -    | Cancelled                       |           |
| 36066   | C   | N    | Not Recommended for New Designs | 01-Sep-11 |
| 36067   | F   | N    |                                 | 18-Dec-15 |
| 36071   | C   | N    |                                 | 01-Sep-11 |
| 36072   | E   | N    | Not Recommended for New Designs | 01-Aug-11 |
| 36074   | D   | Q    | Not Recommended for New Designs | 01-Sep-11 |
| 36075   | C   | N    | Not Recommended for New Designs | 01-Sep-11 |
| 36076   | C   | Q    | Not Recommended for New Designs | 01-Nov-11 |
| 36081   | D   | Q    | Not Recommended for New Designs | 01-Nov-11 |
| 36084   | C   | N    | Not Recommended for New Designs | 01-Oct-11 |
| 36085   | W   | E,N  |                                 | 06-Dec-21 |
| 36086   | G   | N    |                                 | 16-Feb-16 |
| 36087   | M   | N    |                                 | 01-Jul-14 |
| 36090   | B   | -    |                                 | 01-Sep-11 |
| 36092   | D   | N    | Not Recommended for New Designs | 20-Sep-16 |
| 36093   | D   | N    | Not Recommended for New Designs | 01-Oct-11 |
| 36095   | J   | E    |                                 | 01-Sep-11 |
| 36096   | F   | E    |                                 | 01-Oct-11 |
| 36097   | H   | N    |                                 | 01-Jul-14 |
| 36098   | C   | N    | Not Recommended for New Designs | 23-Sep-16 |
| 36099   | G   | N    |                                 | 01-Oct-11 |
| 36100   | J   | N    |                                 | 07-Dec-15 |
| 36101   | D   | Q,P  |                                 | 01-Dec-11 |
| 36102   | C   | N    | Not Recommended for New Designs | 01-Jun-11 |
| 36103   | D   | N    |                                 | 20-Sep-16 |
| 36104   | L   | E,P  |                                 | 11-Oct-23 |
| 36105   | C   | N    |                                 | 20-Sep-16 |
| 36106   | B   | N    |                                 | 01-May-14 |
| 36107   | B   | -    | Not Recommended for New Designs | 01-Oct-11 |
| 36108   | D   | E    |                                 | 11-Oct-23 |
| 36109   | B   | N    | Cancelled                       | 23-Mar-15 |
| 36110   | A   | -    |                                 | 01-Sep-11 |
| 36111   | C   | N    |                                 | 20-Sep-16 |
| 36112   | F   | N    |                                 | 20-Sep-16 |
| 36113   | --  | N    |                                 | 03-Jul-14 |
| 36114   | C   | N    |                                 | 20-Sep-16 |
| 36116   | F   | N    |                                 | 20-Sep-16 |
| 36117   | K   | N    |                                 | 20-Sep-16 |
| 36118   | H   | N    |                                 | 20-Sep-16 |
| 36119   | E   | N    |                                 | 20-Sep-16 |
| 36120   | D   | E    | Not Recommended for New Designs | 01-Oct-11 |
| 36121   | D   | E    | Not Recommended for New Designs | 01-Oct-11 |
| 36123   | A   | E    |                                 | 01-Sep-11 |
| 36127   | A   | N    |                                 | 01-Jun-11 |
| 36129   | A   | N    |                                 | 01-Jun-11 |
| 36130   | C   | I    |                                 | 01-Jun-11 |
| 36133   | A   | -    |                                 | 01-Oct-11 |
| 36134   | C   | I    | Cancelled                       | 23-Mar-15 |
| 36136   | B   | N    |                                 | 20-Sep-16 |
| 36137   | A   | E    |                                 | 01-May-14 |
| 36138   | --  | N    |                                 | 01-Feb-11 |
| 36139   | A   | Q    |                                 | 30-Oct-15 |
| 36140   | H   | E,I  |                                 | 09-Apr-18 |
| 36141   | --  | E    |                                 | 01-Jul-13 |
| 36142   | F   | -    | Cancelled                       | 23-Mar-15 |
| * 36145 | C   | N    |                                 | 21-Nov-24 |
| 36148   | C   | I,E  |                                 | 12-Mar-24 |
| 36150   | H   | -    | Not Recommended for New Designs | 01-Jun-11 |
| 36151   | F   | E    |                                 | 01-Sep-11 |
| 36152   | --  | -    | Cancelled                       |           |
| 36153   | --  | E    |                                 | 12-Jul-19 |
| 36156   | B   | -    | Cancelled                       | 01-Apr-12 |
| 36157   | E   | -    |                                 | 01-Jan-12 |
| 36158   | C   | -    | Cancelled                       | 23-Mar-15 |
| 36159   | D   | -    | Cancelled                       | 23-Mar-15 |
| 36160   | E   | I,E  |                                 | 01-Oct-11 |
| 36163   | A   | -    |                                 | 01-Aug-11 |
| 36170   | C   | -    |                                 | 01-Jun-11 |
| 36176   | --  | N    |                                 | 01-Nov-10 |
| 36177   | B   | E    |                                 | 01-Sep-11 |
| 36180   | H   | Q    | Cancelled                       | 23-Mar-15 |
| 36192   | --  | E    |                                 | 05-Apr-24 |
| 36195   | A   | -    | Cancelled                       | 01-Apr-12 |
| 36198   | F   | Q    |                                 | 06-Jan-16 |
| 36200   | C   | N    | Not Recommended for New Designs | 01-Jun-11 |
| 36201   | A   | N    |                                 | 01-Aug-11 |
| 36202   | A   | E    |                                 | 01-Jan-12 |
| 36203   | --  | N    |                                 | 01-Mar-13 |

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|---------|-----|------|---------------------------------|-----------|
| 36204   | B   | N    |                                 | 23-Feb-24 |
| 36206   | F   | E,Q  |                                 | 21-Aug-23 |
| 36207   | A   | E    |                                 | 01-Jan-12 |
| 36209   | --  | N    |                                 | 01-Feb-11 |
| 36210   | E   | N    |                                 | 19-Apr-24 |
| 36211   | G   | N    | Not Recommended for New Designs | 19-Apr-24 |
| 36212   | B   | N    |                                 | 19-Apr-24 |
| 36220   | E   | E    | Not Recommended for New Designs | 01-Nov-11 |
| 36221   | E   | N    |                                 | 01-Nov-11 |
| 36222   | C   | N    |                                 | 01-Jul-13 |
| 36230   | B   | N    |                                 | 01-Aug-11 |
| 36240   | M   | N    |                                 | 18-Jul-22 |
| 36241   | C   | N    | Cancelled                       | 23-Mar-15 |
| 36242   | C   | E    | Cancelled                       | 23-Mar-15 |
| 36243   | C   | E    | Cancelled                       | 23-Mar-15 |
| 36244   | --  | -    |                                 | 24-May-24 |
| 36245   | C   | N    |                                 | 01-Feb-12 |
| 36246   | E   | N    |                                 | 12-Sep-16 |
| 36247   | C   | -    |                                 | 01-Sep-11 |
| 36250   | B   | E    | Not Recommended for New Designs | 01-Aug-11 |
| 36252   | C   | Q    |                                 | 01-Aug-10 |
| 36253   | --  | E,P  |                                 | 01-Jun-10 |
| 36254   | C   | E    |                                 | 11-Apr-22 |
| 36255   | C   | E,P  |                                 | 11-Oct-23 |
| 36256   | A   | I,E  |                                 | 12-Feb-24 |
| 36258   | B   | E    |                                 | 09-Mar-17 |
| 36259   | B   | N    |                                 | 09-Mar-17 |
| 36260   | C   | Q    |                                 | 01-Apr-11 |
| 36261   | B   | E    |                                 | 01-Sep-11 |
| 36262   | --  | I,E  |                                 | 12-Feb-24 |
| 36265   | B   | E    |                                 | 01-Jan-12 |
| 36268   | B   | E    |                                 | 09-Mar-17 |
| 36269   | B   | N    |                                 | 09-Mar-17 |
| 36270   | B   | E    |                                 | 01-Aug-11 |
| 36271   | --  | E,P  |                                 | 09-May-16 |
| 36275   | C   | E    |                                 | 01-Sep-11 |
| 36276   | --  | N    | Development                     | 25-Jul-16 |
| 36278   | --  | I,E  |                                 | 12-Feb-24 |
| 36280   | F   | I    |                                 | 01-Jun-14 |
| 36281   | D   | I    |                                 | 01-Apr-11 |
| 36282   | --  | E    |                                 | 01-May-11 |
| 36284   | --  | I,E  |                                 | 12-Feb-24 |
| 36285   | B   | N    |                                 | 07-Dec-15 |
| 36286   | A   | -    | Development                     | 01-Sep-11 |
| 36288   | B   | N    |                                 | 23-Aug-16 |
| 36289   | A   | E,P  |                                 | 26-May-17 |
| 36290   | C   | E,P  |                                 | 01-Dec-11 |
| 36291   | C   | E,P  |                                 | 01-Dec-11 |
| 36294   | B   | N    |                                 | 01-Aug-14 |
| 36295   | C   | E    |                                 | 03-Nov-17 |
| 36296   | --  | N    |                                 | 15-Jul-15 |
| 36298   | A   | I    |                                 | 28-Jun-17 |
| 36299   | A   | I    |                                 | 29-Mar-14 |
| 36301   | D   | E    |                                 | 01-Jan-12 |
| 36302   | D   | E,P  |                                 | 01-May-14 |
| 36303   | B   | E,P  |                                 | 01-Oct-11 |
| 36304   | C   | E,P  |                                 | 01-Sep-11 |
| 36305   | C   | E,P  | Not Recommended for New Designs | 06-Oct-22 |
| 36306   | F   | E,P  | Not Recommended for New Designs | 06-Oct-22 |
| 36307   | C   | E,P  | Cancelled                       | 06-Oct-22 |
| 36309   | F   | E,P  | Not Recommended for New Designs | 06-Oct-22 |
| 36310   | A   | E    | Development                     | 28-Jun-17 |
| 36311   | C   | E    |                                 | 16-Sep-22 |
| 36313   | B   | -    |                                 | 01-Aug-11 |
| 36314   | B   | I    |                                 | 01-Dec-11 |
| 36318   | A   | N    |                                 | 20-Sep-16 |
| 36319   | A   | N    |                                 | 01-Dec-11 |
| 36321   | D   | I,E  | Not Recommended for New Designs | 01-Jan-12 |
| 36322   | E   | E    |                                 | 08-Nov-22 |
| 36323   | E   | E    | Not Recommended for New Designs | 08-Nov-22 |
| 36325   | B   | N,P  |                                 | 01-Aug-11 |
| 36326   | C   | N,P  |                                 | 16-Jun-15 |
| 36327   | B   | N,P  |                                 | 01-Aug-11 |
| 36328   | B   | N,P  |                                 | 01-Aug-11 |
| 36330   | F   | E,P  |                                 | 11-Apr-16 |
| 36331   | F   | N    |                                 | 07-Dec-15 |
| 36332   | E   | N    |                                 | 01-Jul-14 |
| 36333   | D   | N    |                                 | 01-Sep-14 |
| 36334   | B   | N    |                                 | 01-Jul-14 |
| 36335   | B   | E,P  |                                 | 16-Nov-17 |
| 36336   | A   | N,P  |                                 | 01-Dec-11 |
| 36338   | --  | -    | Development                     | 25-Jul-16 |
| 36339   | G   | N    |                                 | 31-May-16 |
| 36340   | C   | -    | Cancelled                       | 01-Apr-12 |
| 36341   | D   | N    |                                 | 01-Sep-12 |
| 36344   | --  | N    |                                 | 01-Jul-14 |
| 36345   | B   | N    |                                 | 07-Dec-15 |

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|  | SPEC_NO | REV | CODE | STATUS                          | REV_DATE  |
|--|---------|-----|------|---------------------------------|-----------|
|  | 36346   | B   | N    |                                 | 07-Dec-15 |
|  | 36347   | B   | N    |                                 | 07-Dec-15 |
|  | 36348   | B   | N    |                                 | 07-Dec-15 |
|  | 36349   | E   | N,P  | Not Recommended for New Designs | 01-Oct-11 |
|  | 36350   | D   | N,P  | Not Recommended for New Designs | 01-Jun-11 |
|  | 36351   | E   | -    |                                 | 17-Nov-15 |
|  | 36352   | E   | -    |                                 | 01-Oct-11 |
|  | 36353   | F   | N    |                                 | 01-Aug-14 |
|  | 36354   | K   | N    |                                 | 25-Nov-20 |
|  | 36355   | B   | N    | Not Recommended for New Designs | 01-Oct-11 |
|  | 36356   | H   | N    | Not Recommended for New Designs | 01-Oct-11 |
|  | 36357   | C   | -    | Cancelled                       | 01-Apr-12 |
|  | 36358   | C   | N    | Not Recommended for New Designs | 20-Sep-16 |
|  | 36359   | C   | -    | Cancelled                       | 01-Apr-12 |
|  | 36360   | C   | -    | Cancelled                       | 01-Apr-12 |
|  | 36361   | P   | N    |                                 | 07-Nov-18 |
|  | 36362   | B   | -    | Cancelled                       | 01-Apr-12 |
|  | 36363   | B   | E    |                                 | 01-Sep-11 |
|  | 36364   | E   | N    |                                 | 20-Sep-16 |
|  | 36365   | B   | -    | Cancelled                       | 01-Apr-12 |
|  | 36366   | B   | -    | Cancelled                       | 01-Apr-12 |
|  | 36367   | C   | -    | Not Recommended for New Designs | 01-Oct-11 |
|  | 36368   | E   | N    | Not Recommended for New Designs | 01-Jan-12 |
|  | 36369   | C   | E    |                                 | 01-Oct-11 |
|  | 36370   | C   | Q    | Not Recommended for New Designs | 01-Jun-11 |
|  | 36371   | G   | -    |                                 | 01-Oct-11 |
|  | 36372   | J   | N    |                                 | 01-Dec-11 |
|  | 36373   | D   | N    |                                 | 01-Jan-12 |
|  | 36374   | D   | -    |                                 | 10-Oct-19 |
|  | 36375   | C   | N    |                                 | 10-Sep-21 |
|  | 36376   | C   | N    |                                 | 01-Jun-11 |
|  | 36377   | C   | -    |                                 | 01-Aug-11 |
|  | 36380   | A   | -    | Development                     | 01-Jun-11 |
|  | 36381   | E   | N    |                                 | 13-Jun-19 |
|  | 36382   | --  | N    |                                 | 01-Dec-10 |
|  | 36383   | A   | C    |                                 | 30-Nov-18 |
|  | 36384   | A   | N    |                                 | 08-Sep-23 |
|  | 36385   | C   | N    |                                 | 01-Sep-11 |
|  | 36386   | A   | E,P  |                                 | 01-Dec-11 |
|  | 36387   | --  | N    |                                 | 01-Jul-14 |
|  | 36388   | B   | N    |                                 | 25-Mar-22 |
|  | 36390   | D   | N,P  |                                 | 16-Jun-15 |
|  | 36391   | A   | N    |                                 | 11-Jan-17 |
|  | 36392   | D   | E    |                                 | 23-Jan-20 |
|  | 36393   | D   | E    | Not Recommended for New Designs | 23-Jan-20 |
|  | 36395   | F   | E    |                                 | 01-Oct-10 |
|  | 36400   | C   | N    | Not Recommended for New Designs | 01-Aug-11 |
|  | 36401   | D   | -    | Cancelled                       | 24-Aug-16 |
|  | 36402   | F   | N    |                                 | 31-Aug-16 |
|  | 36403   | D   | N    | Not Recommended for New Designs | 01-Sep-11 |
|  | 36404   | D   | N    | Not Recommended for New Designs | 01-Sep-11 |
|  | 36405   | E   | N    | Not Recommended for New Designs | 01-Sep-11 |
|  | 36406   | F   | N    | Not Recommended for New Designs | 01-Sep-11 |
|  | 36407   | L   | N    |                                 | 28-Jan-16 |
|  | 36408   | F   | N    | Not Recommended for New Designs | 01-Jun-11 |
|  | 36409   | D   | N    |                                 | 01-Sep-11 |
|  | 36410   | D   | N    | Not Recommended for New Designs | 01-Sep-11 |
|  | 36411   | H   | N    |                                 | 23-Oct-18 |
|  | 36412   | C   | N    |                                 | 01-Sep-11 |
|  | 36413   | D   | N    |                                 | 01-Dec-12 |
|  | 36414   | F   | N    |                                 | 01-Apr-13 |
|  | 36415   | A   | N    |                                 | 01-Dec-11 |
|  | 36416   | B   | N    |                                 | 01-Aug-11 |
|  | 36417   | C   | N    | Not Recommended for New Designs | 01-Sep-11 |
|  | 36418   | P   | N    |                                 | 12-Jul-19 |
|  | 36419   | M   | N    |                                 | 01-Dec-12 |
|  | 36420   | C   | N    | Not Recommended for New Designs | 01-Aug-11 |
|  | 36421   | G   | N    |                                 | 01-Oct-11 |
|  | 36422   | L   | N    |                                 | 07-Jun-21 |
|  | 36423   | B   | -    |                                 | 01-Aug-11 |
|  | 36424   | F   | N    | Not Recommended for New Designs | 26-Oct-17 |
|  | 36425   | K   | N    |                                 | 28-Jan-16 |
|  | 36426   | G   | N    |                                 | 30-Nov-22 |
|  | 36427   | E   | N    |                                 | 18-Jun-24 |
|  | 36428   | A   | N    |                                 | 01-Oct-11 |
|  | 36429   | B   | N    |                                 | 01-Oct-11 |
|  | 36430   | B   | N    |                                 | 01-Oct-11 |
|  | 36431   | H   | N    |                                 | 01-Oct-11 |
|  | 36432   | C   | N    | Not Recommended for New Designs | 01-Jun-11 |
|  | 36433   | J   | N    | Not Recommended for New Designs | 01-Oct-11 |
|  | 36434   | G   | N    |                                 | 01-Oct-11 |
|  | 36435   | H   | N    |                                 | 05-Nov-15 |
|  | 36436   | E   | N    |                                 | 31-Aug-16 |
|  | 36437   | D   | N    |                                 | 07-Jun-21 |
|  | 36438   | D   | N    |                                 | 01-Dec-12 |
|  | 36440   | C   | N    | Not Recommended for New Designs | 04-Nov-16 |

**P&W Production & Development Specifications - (PWA)**

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\* Revised Since Previous Edition of 10/17/2024

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Revision Date 01/2025

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| SPEC_NO | REV | CODE | STATUS                          | REV_DATE  |
|---------|-----|------|---------------------------------|-----------|
| 36441   | A   | N    |                                 | 01-Jun-11 |
| 36442   | C   | N    |                                 | 06-Oct-16 |
| 36443   | K   | N    |                                 | 24-Sep-21 |
| 36444   | C   | N    |                                 | 01-Jun-11 |
| 36445   | H   | E    |                                 | 07-Apr-20 |
| 36446   | D   | N    |                                 | 01-Dec-12 |
| 36447   | F   | N    |                                 | 13-Jul-16 |
| 36448   | B   | N    |                                 | 01-Jun-11 |
| 36450   | L   | -    |                                 | 01-Oct-11 |
| 36451   | D   | N    |                                 | 01-Jun-11 |
| 36452   | D   | E,N  | Not Recommended for New Designs | 01-Sep-11 |
| 36453   | L   | N    |                                 | 01-Oct-11 |
| 36454   | D   | N    |                                 | 01-Oct-11 |
| 36455   | E   | N    |                                 | 10-Sep-15 |
| 36456   | F   | N    |                                 | 12-Dec-19 |
| 36457   | C   | N    |                                 | 01-Sep-11 |
| 36458   | C   | N    |                                 | 01-Jun-11 |
| 36459   | F   | N    |                                 | 01-Nov-11 |
| 36460   | F   | N    |                                 | 10-Sep-15 |
| 36461   | E   | N    |                                 | 01-Jul-12 |
| 36462   | D   | N    |                                 | 06-Oct-16 |
| 36463   | G   | N    |                                 | 10-Jun-16 |
| 36464   | C   | N    |                                 | 01-Jun-11 |
| 36465   | D   | N    |                                 | 23-May-17 |
| 36466   | G   | N    |                                 | 07-Sep-18 |
| 36467   | A   | N,P  |                                 | 01-Feb-12 |
| 36468   | B   | N    |                                 | 01-Jun-11 |
| 36474   | B   | N    |                                 | 24-Oct-18 |
| 36475   | B   | N    |                                 | 01-Oct-11 |
| 36476   | A   | N    |                                 | 01-Oct-11 |
| 36477   | C   | N    |                                 | 10-Sep-15 |
| 36478   | C   | N    |                                 | 10-Sep-15 |
| 36479   | A   | N    |                                 | 01-Oct-11 |
| 36480   | C   | N    |                                 | 16-Jul-21 |
| 36481   | C   | N    |                                 | 19-May-15 |
| 36482   | F   | N    |                                 | 10-Sep-15 |
| 36483   | B   | N    |                                 | 01-Sep-11 |
| 36484   | C   | N    |                                 | 01-Sep-11 |
| 36485   | A   | N    |                                 | 01-Aug-11 |
| 36486   | B   | N    |                                 | 01-May-14 |
| 36487   | C   | N    |                                 | 10-Sep-15 |
| 36489   | A   | Q    | Not Recommended for New Designs | 05-Aug-15 |
| 36490   | F   | N    |                                 | 01-May-14 |
| 36491   | C   | N    |                                 | 01-Oct-11 |
| 36493   | C   | N    |                                 | 01-Oct-11 |
| 36497   | B   | E    |                                 | 01-Jun-13 |
| 36498   | A   | E    |                                 | 01-Jul-10 |
| 36499   | A   | E    |                                 | 01-Jul-10 |
| 36500   | C   | N    |                                 | 29-Oct-15 |
| 36501   | C   | N    | Not Recommended for New Designs | 01-Jun-11 |
| 36502   | C   | N    | Not Recommended for New Designs | 01-Jun-11 |
| 36503   | B   | N    | Not Recommended for New Designs | 01-Jun-11 |
| 36504   | B   | N    | Not Recommended for New Designs | 01-Jun-11 |
| 36505   | C   | N    | Not Recommended for New Designs | 01-Jun-11 |
| 36506   | B   | N    | Not Recommended for New Designs | 01-Jun-11 |
| 36507   | D   | N    |                                 | 01-Sep-11 |
| 36508   | C   | -    |                                 | 01-Aug-11 |
| 36509   | G   | N    | Not Recommended for New Designs | 01-Dec-11 |
| 36510   | K   | N    |                                 | 29-Sep-17 |
| 36511   | C   | N    | Active                          | 12-Jan-23 |
| 36512   | B   | N    | Not Recommended for New Designs | 01-Apr-11 |
| 36513   | C   | -    |                                 | 01-Aug-11 |
| 36514   | F   | N    |                                 | 18-May-17 |
| 36515   | H   | N    |                                 | 15-Jan-24 |
| 36516   | L   | N    |                                 | 01-Nov-14 |
| 36518   | E   | -    |                                 | 09-Sep-24 |
| 36519   | E   | N    |                                 | 01-Sep-13 |
| 36520   | B   | N    |                                 | 01-Oct-11 |
| 36521   | C   | N,P  |                                 | 13-Aug-20 |
| 36522   | B   | E    |                                 | 13-May-15 |
| 36523   | B   | N    |                                 | 15-Apr-24 |
| 36525   | --  | N    | Not Recommended for New Designs | 01-Oct-11 |
| 36526   | --  | E    |                                 | 12-Apr-18 |
| 36530   | A   | E    |                                 | 01-Apr-11 |
| 36538   | B   | N    |                                 | 07-Jun-23 |
| 36541   | --  | N,P  |                                 | 13-Aug-20 |
| 36545   | T   | N    |                                 | 27-Jun-18 |
| 36546   | B   | E,Q  |                                 | 01-Sep-11 |
| 36549   | --  | N    |                                 | 19-Apr-17 |
| 36550   | C   | E,Q  |                                 | 01-Oct-11 |
| 36555   | A   | N    |                                 | 01-Jan-12 |
| 36561   | A   | -    | Cancelled                       | 01-Nov-07 |
| 36564   | --  | N    |                                 | 01-Sep-11 |
| 36568   | D   | N    |                                 | 17-Jan-14 |
| 36569   | B   | N    |                                 | 01-May-14 |
| 36579   | A   | N    |                                 | 19-Apr-24 |

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|  | SPEC_NO | REV | CODE  | STATUS                          | REV_DATE  |
|--|---------|-----|-------|---------------------------------|-----------|
|  | 36580   | A   | -     | Cancelled                       | 04-Aug-16 |
|  | 36595   | B   | N     |                                 | 01-Nov-10 |
|  | 36599   | C   | -     |                                 | 01-Aug-11 |
|  | 36600   | F   | C     |                                 | 01-Mar-01 |
|  | 36603   | K   | N     |                                 | 19-Jun-23 |
|  | 36604   | F   | N     |                                 | 19-Mar-21 |
|  | 36610   | U   | E,Q,C |                                 | 05-Apr-23 |
|  | 36611   | A   | N     |                                 | 01-Aug-11 |
|  | 36612   | A   | N     |                                 | 01-Aug-11 |
|  | 36614   | A   | E,C   |                                 | 01-Aug-11 |
|  | 36615   | H   | E,Q,C |                                 | 14-May-21 |
|  | 36617   | --  | C     | Development                     | 01-Aug-14 |
|  | 36618   | --  | C     | Development                     | 01-Aug-14 |
|  | 36619   | G   | E,Q,C |                                 | 16-Oct-20 |
|  | 36623   | A   | E,C   |                                 | 01-Sep-11 |
|  | 36627   | E   | E,Q,C |                                 | 20-Jul-22 |
|  | 36629   | B   | E,Q,C |                                 | 16-Oct-20 |
|  | 36630   | A   | C     | Development                     | 01-Aug-11 |
|  | 36631   | A   | C     | Development                     | 01-Aug-11 |
|  | 36632   | A   | C     | Development                     | 01-Aug-11 |
|  | 36633   | A   | C     | Development                     | 01-Aug-11 |
|  | 36634   | --  |       |                                 | 23-Sep-24 |
|  | 36640   | D   | C     |                                 | 29-Mar-14 |
|  | 36641   | --  | N     | Development                     | 01-Jul-14 |
|  | 36650   | N   | E,Q,C |                                 | 04-May-22 |
|  | 36653   | A   | C     | Development                     | 01-Aug-11 |
|  | 36655   | J   | E,Q,C |                                 | 14-May-21 |
|  | 36658   | A   | C     | Development                     | 01-Aug-11 |
|  | 36660   | D   | E,Q,C |                                 | 31-Jan-22 |
|  | 36661   | A   | C     | Development                     | 01-Aug-11 |
|  | 36662   | A   | C     | Development                     | 01-Aug-11 |
|  | 36663   | A   | C     | Development                     | 01-Aug-11 |
|  | 36667   | C   | E,Q,C | Development                     | 17-Apr-20 |
|  | 36670   | E   | E,Q,C |                                 | 27-Oct-21 |
|  | 36673   | A   | C     | Development                     | 01-Aug-11 |
|  | 36675   | A   | C     | Development                     | 01-Aug-11 |
|  | 36678   | A   | C     | Development                     | 01-Aug-11 |
|  | * 36680 | B   | C     |                                 | 17-Oct-24 |
|  | 36683   | B   | Q     | Cancelled                       | 23-Mar-15 |
|  | * 36687 | A   | C     |                                 | 11-Oct-24 |
|  | 36691   | --  | C     | Development                     | 01-May-02 |
|  | 36692   | --  | C     | Development                     | 01-May-02 |
|  | 36693   | --  | C     | Development                     | 01-May-02 |
|  | 36700   | F   | -     |                                 | 01-Jul-12 |
|  | 36701   | D   | -     | Not Recommended for New Designs | 01-Aug-11 |
|  | 36702   | A   | Q     |                                 | 01-Aug-11 |
|  | 36704   | C   | N     |                                 | 01-Dec-11 |
|  | 36705   | E   | N     | Cancelled                       | 23-Mar-15 |
|  | 36706   | B   | N     |                                 | 16-Sep-16 |
|  | 36707   | C   | N     | Not Recommended for New Designs | 01-Dec-11 |
|  | 36708   | B   | N     |                                 | 01-Aug-11 |
|  | 36709   | C   | N     |                                 | 01-Oct-11 |
|  | 36710   | B   | N     |                                 | 11-Dec-18 |
|  | 36711   | B   | N     |                                 | 01-Apr-11 |
|  | 36712   | B   | N     | Cancelled                       | 23-Mar-15 |
|  | 36713   | --  | N     |                                 | 01-Oct-14 |
|  | 36714   | A   | N     |                                 | 19-Nov-19 |
|  | 36717   | --  | N     |                                 | 01-Dec-11 |
|  | * 36718 | L   | C     |                                 | 19-Dec-24 |
|  | 36719   | A   | N     |                                 | 19-Feb-24 |
|  | 36720   | A   | N     |                                 | 19-Feb-24 |
|  | 36721   | A   | N     |                                 | 19-Feb-24 |
|  | 36722   | A   | N     |                                 | 20-Dec-23 |
|  | 36723   | B   | N     | Active                          | 25-Oct-23 |
|  | 36739   | D   | N     |                                 | 07-Dec-15 |
|  | 36745   | C   | N     | Not Recommended for New Designs | 01-Aug-11 |
|  | 36746   | C   | N     |                                 | 01-Sep-14 |
|  | 36747   | B   | N     | Not Recommended for New Designs | 01-Aug-11 |
|  | 36749   | C   | -     | Cancelled                       | 01-Apr-12 |
|  | 36750   | C   | N     | Not Recommended for New Designs | 01-Aug-11 |
|  | 36751   | K   | N     |                                 | 18-Feb-16 |
|  | 36752   | D   | N     |                                 | 20-Oct-15 |
|  | 36753   | E   | N     |                                 | 01-Oct-13 |
|  | 36754   | C   | -     | Cancelled                       | 01-Apr-12 |
|  | 36755   | E   | N     |                                 | 01-Sep-11 |
|  | 36756   | E   | N     | Active                          | 11-Jan-23 |
|  | 36757   | D   | N     |                                 | 01-Sep-11 |
|  | 36758   | B   | N     | Not Recommended for New Designs | 01-Sep-11 |
|  | 36759   | E   | N     |                                 | 28-Nov-23 |
|  | 36760   | D   | N     |                                 | 01-Dec-11 |
|  | 36761   | A   | N     |                                 | 01-Sep-10 |
|  | 36762   | --  | N     |                                 | 01-Nov-10 |
|  | 36763   | --  | -     |                                 | 08-May-17 |
|  | 36764   | --  | -     |                                 | 08-May-17 |
|  | 36766   | A   | N     |                                 | 26-Jun-23 |
|  | 36767   | A   | N     |                                 | 19-Nov-15 |

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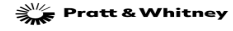
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|---------|-----|-------|---------------------------------|-------------|
| 36768   | A   | N     |                                 | 19-Feb-24   |
| 36779   | A   | N     |                                 | 19-Feb-24   |
| 36799   | A   | N     |                                 | 19-Feb-24   |
| 36800   | AF  | E,Q,C |                                 | 07-Aug-23   |
| 36801   | E   | C     |                                 | 01-Apr-12   |
| 36803   | B   | -     |                                 | 01-Aug-11   |
| 36804   | D   | C     |                                 | 01-Apr-12   |
| 36806   | D   | N     |                                 | 30-Jul-15   |
| 36807   | D   | C     |                                 | 01-Apr-12   |
| 36808   | A   | C     |                                 | 01-Aug-11   |
| 36809   | A   | N     |                                 | 16-Nov-22   |
| 36814   | --  | N     | Development                     | 03-Feb-23   |
| 36819   | --  | E     | Development                     | 01-Jul-14   |
| 36820   | D   | E     |                                 | 01-Oct-11   |
| 36821   | E   | E     | Not Recommended for New Designs | 30-Sep-2024 |
| 36824   | B   | C     |                                 | 01-Sep-11   |
| 36830   | D   | E     |                                 | 04-Jun-20   |
| 36831   | --  | E     |                                 | 31-Jul-19   |
| 36840   | F   | E,P   |                                 | 01-Dec-11   |
| 36841   | D   | E     |                                 | 01-Feb-13   |
| 36842   | C   | E,P   |                                 | 01-Sep-11   |
| 36848   | B   | -     | Cancelled                       | 01-Apr-12   |
| 36849   | A   | Q     |                                 | 01-Jan-12   |
| 36850   | B   | -     | Cancelled                       | 01-Apr-12   |
| 36859   | B   | E     |                                 | 01-Feb-13   |
| 36860   | U   | E,Q,C |                                 | 21-May-24   |
| 36900   | J   | C     |                                 | 01-Mar-01   |
| 36901   | F   | -     |                                 | 01-Oct-11   |
| 36903   | --  | -     |                                 | 21-Jul-22   |
| 36904   | A   | E     |                                 | 01-Dec-11   |
| 36905   | E   | E     |                                 | 23-Jul-24   |
| 36906   | G   | Q     | Not Recommended for New Designs | 01-Oct-11   |
| 36907   | A   | E     |                                 | 01-Sep-11   |
| 36909   | B   | E     | Cancelled                       | 23-Mar-15   |
| 36910   | J   | E,Q,C |                                 | 14-May-21   |
| 36913   | E   | N     |                                 | 21-Feb-19   |
| 36915   | C   | Q     |                                 | 29-Sep-17   |
| 36916   | A   | -     |                                 | 01-Oct-11   |
| 36917   | A   | E     |                                 | 01-Oct-11   |
| 36920   | C   | E     |                                 | 01-Oct-11   |
| 36921   | E   | E,Q   |                                 | 07-Aug-23   |
| 36925   | A   | -     | Development                     | 01-Sep-11   |
| 36926   | B   | E     |                                 | 29-Jun-22   |
| 36927   | A   | E     |                                 | 15-Sep-16   |
| 36930   | G   | Q     |                                 | 03-Jul-24   |
| 36932   | L   | P     |                                 | 01-Jan-12   |
| 36933   | C   | Q,P   |                                 | 01-Dec-11   |
| 36935   | E   | N     |                                 | 21-Feb-19   |
| 36937   | J   | N     |                                 | 21-Feb-19   |
| 36946   | A   | N     |                                 | 01-Dec-11   |
| 36947   | H   | N     |                                 | 21-Feb-19   |
| 36948   | G   | N     |                                 | 07-Dec-15   |
| 36949   | B   | -     | Not Recommended for New Designs | 01-Sep-11   |
| 36950   | N   | E,Q   |                                 | 06-Oct-16   |
| 36951   | D   | Q     |                                 | 01-Oct-11   |
| 36952   | L   | E,P   | Not Recommended for New Designs | 01-Oct-11   |
| 36953   | E   | N,Q   |                                 | 01-Apr-11   |
| 36954   | C   | -     | Cancelled                       | 01-Apr-12   |
| 36955   | F   | E     |                                 | 01-Oct-11   |
| 36956   | B   | -     | Cancelled                       | 01-Apr-12   |
| 36958   | C   | -     | Cancelled                       | 01-Apr-12   |
| 36959   | F   | E,P   | Not Recommended for New Designs | 01-Oct-11   |
| 36960   | B   | Q     |                                 | 01-Apr-11   |
| 36961   | C   | N     | Not Recommended for New Designs | 01-Oct-11   |
| 36962   | B   | -     |                                 | 13-Sep-16   |
| 36963   | F   | E     |                                 | 07-Nov-22   |
| 36964   | C   | -     | Cancelled                       | 23-Mar-15   |
| 36965   | G   | Q     |                                 | 14-Dec-15   |
| 36968   | D   | E     |                                 | 19-Apr-21   |
| 36970   | B   | Q     |                                 | 01-Jan-12   |
| 36971   | B   | E     | Cancelled                       | 23-Mar-15   |
| 36972   | B   | E     |                                 | 01-Sep-11   |
| 36974   | C   | E,P   |                                 | 29-Apr-24   |
| 36975   | A   | N,Q   |                                 | 01-Sep-11   |
| 36976   | --  | -     |                                 | 17-Sep-18   |
| 36980   | A   | E     |                                 | 02-May-19   |
| 36990   | M   | E,Q,C |                                 | 08-Apr-22   |
| 36995   | B   | E,I   |                                 | 29-Jun-22   |
| 36997   | D   | E,Q,C | Development                     | 05-Apr-23   |
| 36999   | G   | E     | Active                          | 21-Mar-23   |
| 79000   | --  | I     |                                 | 31-Jul-19   |
| 79050   | A   | -     |                                 | 24-Jun-16   |
| 79059   | F   | E     |                                 | 02-Feb-21   |
| 79063   | --  | E     | Active                          | 07-Feb-23   |
| 79066   | --  | -     |                                 | 21-Mar-19   |
| 79070   | --  | -     |                                 | 29-Jul-15   |
| 79071   | --  | -     |                                 | 09-Sep-16   |

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|  | SPEC_NO | REV | CODE | STATUS      | REV_DATE  |
|--|---------|-----|------|-------------|-----------|
|  | 79079   | B   | -    |             | 04-Dec-23 |
|  | 79101   | --  | E    |             | 15-Jan-21 |
|  | 79103   | --  | Q    |             | 31-Oct-18 |
|  | 79107   | --  | N    | Active      | 07-Mar-23 |
|  | 79112   | A   | Q    |             | 29-Jul-15 |
|  | 79113   | --  | Q    |             | 01-Oct-11 |
|  | 79151   | A   | N    | Development | 01-Sep-11 |
|  | 79168   | B   | -    | Cancelled   | 01-Apr-12 |
|  | 79183   | A   | E    |             | 28-May-15 |
|  | 79184   | --  | E    |             | 18-Dec-15 |
|  | 79197   | F   | E    | Active      | 07-Mar-23 |
|  | 79200   | F   | I    |             | 01-Sep-11 |
|  | 79201   | B   | I    |             | 07-Feb-17 |
|  | 79202   | --  | E    | Development | 18-Jul-17 |
|  | 79205   | --  | E, I | Development | 22-Aug-18 |
|  | 79210   | C   | N    | Cancelled   | 23-Mar-15 |
|  | 79216   | D   | E    |             | 01-Dec-23 |
|  | 79220   | B   | I    |             | 01-Aug-11 |
|  | 79226   | --  | E    | Development | 01-Nov-14 |
|  | 79230   | --  | I    |             | 01-Oct-12 |
|  | 79240   | A   | N    | Development | 01-Jan-12 |
|  | 79255   | --  | I    |             | 01-Jan-11 |
|  | 79256   | A   | E    |             | 05-Apr-24 |
|  | 79260   | --  | I    |             | 01-Mar-13 |
|  | 79261   | --  | -    |             | 01-Oct-14 |
|  | 79301   | A   | E    |             | 01-Jan-13 |
|  | 79302   | B   | E    |             | 01-Jan-13 |
|  | 79304   | C   | -    |             | 01-Oct-12 |
|  | 79305   | B   | -    |             | 01-Oct-12 |
|  | 79306   | B   | -    |             | 01-Feb-13 |
|  | 79307   | A   | -    |             | 01-Oct-12 |
|  | 79308   | A   | -    |             | 01-Jul-12 |
|  | 79309   | A   | -    |             | 01-Jul-12 |
|  | 79310   | C   | -    |             | 08-Apr-24 |
|  | 79311   | C   | -    |             | 01-Jan-13 |
|  | 79312   | D   | -    |             | 30-Sep-24 |
|  | 79313   | B   | -    |             | 01-Jan-13 |
|  | * 79315 | C   | -    |             | 10-Dec-24 |
|  | 79316   | B   | -    |             | 01-Jul-12 |
|  | 79317   | --  | -    |             | 01-May-11 |
|  | 79318   | A   | -    |             | 18-Mar-19 |
|  | 79321   | E   | -    |             | 09-Sep-24 |
|  | 79325   | --  | -    |             | 01-Dec-11 |
|  | 79326   | A   | -    |             | 21-Jul-16 |
|  | 79332   | C   | -    |             | 01-Jun-10 |
|  | 79333   | C   | -    |             | 15-Mar-24 |
|  | 79340   | --  | -    |             | 03-Feb-16 |
|  | 79341   | G   | -    |             | 09-Sep-24 |
|  | 79342   | B   | -    |             | 01-Oct-21 |
|  | 79345   | F   | -    |             | 29-Oct-21 |
|  | 79346   | B   | -    |             | 07-May-24 |
|  | 79347   | A   | -    |             | 11-Dec-19 |
|  | 79348   | --  | -    |             | 15-Sep-16 |
|  | 79349   | B   | -    |             | 21-Jun-19 |
|  | 79350   | B   | -    |             | 13-Jul-23 |
|  | 79352   | --  | -    |             | 18-Oct-18 |
|  | 79354   | A   | -    |             | 29-Oct-21 |
|  | 79356   | A   | -    |             | 06-Nov-23 |
|  | 79357   | B   | -    |             | 20-May-21 |
|  | 79358   | A   | -    |             | 29-Oct-21 |
|  | 79360   | F   | -    |             | 23-Jun-21 |
|  | 79361   | --  | -    |             | 10-May-23 |
|  | * 79362 | C   | -    |             | 15-Nov-24 |
|  | 79364   | --  | -    |             | 26-Sep-22 |
|  | 79365   | --  | -    | Active      | 26-Jan-23 |
|  | 79366   | --  | -    |             | 22-Jan-24 |
|  | 79368   | --  | -    | Active      | 17-Mar-23 |
|  | 79385   | C   | N,Q  |             | 06-Nov-23 |
|  | 79418   | A   | N    |             | 01-Dec-12 |
|  | 79433   | --  | -    | Development | 12-Jul-23 |
|  | 79460   | --  | -    | Active      | 27-Feb-23 |
|  | 79465   | C   | N    |             | 12-Dec-19 |
|  | 79473   | --  | -    |             | 01-Oct-21 |
|  | 79547   | A   | I    |             | 01-Sep-11 |
|  | 79555   | A   | I    |             | 01-Jun-11 |
|  | 79575   | A   | -    |             | 01-Jun-11 |
|  | 79580   | --  | E,I  |             | 17-Oct-18 |
|  | 79583   | B   | I    |             | 01-Jul-12 |
|  | 79659   | A   | E    |             | 19-Dec-22 |
|  | 79687   | --  | E    |             | 26-Mar-24 |
|  | * 79706 | C   | N    |             | 16-Dec-24 |
|  | 79800   | B   | N    |             | 01-Dec-12 |
|  | 79802   | A   | N    |             | 01-Jun-11 |
|  | 79803   | A   | N    |             | 07-Jun-21 |
|  | 79804   | --  | N    |             | 01-Jul-12 |
|  | 79805   | --  | E    |             | 04-Mar-14 |

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PWA

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|  | SPEC_NO | REV | CODE | STATUS                          | REV_DATE  |
|--|---------|-----|------|---------------------------------|-----------|
|  | 79809   | A   | N    |                                 | 28-Mar-17 |
|  | 79810   | B   | N    |                                 | 23-Jun-20 |
|  | * 79811 | A   | N    |                                 | 01-Oct-24 |
|  | 79818   | A   | N    |                                 | 12-Apr-21 |
|  | 79819   | --  | N    |                                 | 12-Dec-19 |
|  | 79822   | B   | E    |                                 | 23-Mar-17 |
|  | 79825   | --  | E    |                                 | 01-Jul-13 |
|  | 79830   | --  | E    | Active                          | 28-Feb-23 |
|  | 79837   | A   | N    |                                 | 01-Dec-12 |
|  | 79842   | --  | N    |                                 | 01-Dec-11 |
|  | 79843   | --  | -    |                                 | 16-Nov-17 |
|  | 79844   | A   | N    |                                 | 01-Jan-15 |
|  | 79850   | --  | N    |                                 | 05-Dec-22 |
|  | 79851   | --  | N    |                                 | 19-Jul-24 |
|  | 79852   | --  | N    |                                 | 19-Jul-24 |
|  | 79853   | --  | N    |                                 | 19-Jul-24 |
|  | 79878   | --  | N,P  |                                 | 01-Feb-14 |
|  | 79900   | C   | -    | Not Recommended for New Designs | 01-Mar-05 |
|  | 79901   | B   | -    | Not Recommended for New Designs | 01-Mar-05 |
|  | 79902   | A   | -    | Not Recommended for New Designs | 01-Mar-05 |
|  | 79903   | A   | -    | Not Recommended for New Designs | 01-Mar-05 |
|  | 79904   | A   | -    | Not Recommended for New Designs | 01-Mar-05 |
|  | 79905   | B   | -    | Not Recommended for New Designs | 01-Mar-05 |
|  | 79906   | --  | -    | Not Recommended for New Designs | 01-Dec-04 |
|  | 79907   | A   | -    | Not Recommended for New Designs | 01-Mar-05 |
|  | 79908   | A   | -    | Not Recommended for New Designs | 01-Mar-05 |
|  | 79909   | A   | -    | Not Recommended for New Designs | 01-Mar-05 |
|  | 79910   | A   | -    | Not Recommended for New Designs | 01-Mar-05 |
|  | 79911   | D   | -    | Not Recommended for New Designs | 01-Feb-08 |
|  | 79912   | B   | -    | Not Recommended for New Designs | 01-Feb-08 |
|  | 79913   | A   | -    | Not Recommended for New Designs | 01-Mar-05 |
|  | 79914   | A   | -    | Not Recommended for New Designs | 01-Mar-05 |
|  | 79915   | A   | -    | Not Recommended for New Designs | 01-Mar-05 |
|  | 79916   | --  | -    | Not Recommended for New Designs | 01-Feb-05 |
|  | 79917   | --  | -    | Not Recommended for New Designs | 01-Jan-06 |
|  | 79918   | --  | -    | Not Recommended for New Designs | 01-Jan-06 |
|  | 79919   | --  | -    | Not Recommended for New Designs | 01-Mar-06 |
|  | 79920   | --  | -    | Not Recommended for New Designs | 01-Jun-06 |
|  | 79921   | --  | -    | Not Recommended for New Designs | 01-Jun-06 |
|  | 79951   | A   | -    | Cancelled                       | 23-Mar-15 |

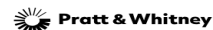
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**P&W Specification Supplements (PWA-S)**  
**Which Modify & are an Integral Part of**  
**Aerospace Material Specifications (AMS) Requirements**

Reference specification PWA-360 Section A4.2.2 Modifications to specified documents.

In certain instances, the PW Engineering Department modifies requirements cited in industry or government documents specified on engineering drawings (e.g., AMS - Aerospace Material Specifications) by issuing a PWA Spec Supplement. Normally, the spec supplement appears on both the engineering drawing and the P&W Purchase Order. However, where a spec supplement has been issued but does not appear on the engineering drawing, interpret the drawing as invoking the supplement: for example; the other requirement "AMS 4928 TI ALLOY" shall be interpreted as equivalent to "AMS 4928 & PWA-S-4928 TI ALLOY". A listing of issued PWA Spec Supplements is as listed below.

Some drawings may refer to other PWA-S, not noted below; these requirements are now incorporated in the basic AMS or have been cancelled.

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| PWA-S Spec. Rev. | Spec. Code |
|------------------|------------|
| 2400G            | Q          |
| 2404B            | Q          |
| 2406F            | Q          |
| 2410D            | Q          |
| 2411--           | -          |
| 2412B            | Q          |
| 2416D            | Q          |
| 2417C            | -          |
| 2424F            | Q          |
| 2426B Cancelled  | -          |
| 2430C            | Q          |
| 2433A            | E          |
| 2444A            | -          |
| 2470D            | Q          |
| 2471C            | Q          |
| 2474--           | -          |
| 2475A Cancelled  | -          |
| 2477--           | -          |
| 2515B Cancelled  | -          |
| 2546--           | -          |
| 2664U            | E,Q        |
| 2666B Cancelled  | -          |
| 2675N            | E,Q        |
| 3021--           | -          |
| 3110B            | -          |
| 3117--           | -          |
| 3270--           | -          |
| 4116B            | -          |
| 4117C Cancelled  | -          |
| 4120C Cancelled  | -          |
| 4150B            | -          |
| 4161B            | -          |
| 4427J            | -          |
| 4778C Cancelled  | -          |
| 4900C Cancelled  | -          |
| 4914A            | -          |
| 4928T            | -          |
| 4951A Cancelled  | -          |
| 5390B            | -          |
| 5442A            | I          |
| 5508C Cancelled  | -          |
| 5556A            | -          |
| 5557A            | -          |
| 5562A Cancelled  | -          |
| 5568A            | -          |
| 5581A            | -          |
| 5589A Cancelled  | -          |
| 5596D Cancelled  | -          |
| 5616J            | I          |
| 5617A            | -          |
| 5660H            | I          |
| 5662N            | I          |
| 5663K            | I          |
| 5666--           | -          |
| 5668A Cancelled  | -          |

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| <b>PWA-S Spec. Rev.</b> | <b>Spec. Code</b> |
|-------------------------|-------------------|
| 5719A                   | I                 |
| 5732J                   | I                 |
| 5733E                   | I                 |
| 5735E                   | -                 |
| 5758A Cancelled         | -                 |
| 5772B Cancelled         | -                 |
| 5867--                  | -                 |
| 6304K                   | I                 |
| 6305A                   | I                 |
| 6308C                   | -                 |
| 6414B                   | I                 |
| 6415E                   | I                 |
| 6532A                   | I                 |
| 6945A                   | N                 |
| 7223A                   | -                 |
| 7228A Cancelled         | -                 |
| 7229A Cancelled         | -                 |
| 7233C Cancelled         | -                 |
| 7310--                  | -                 |
| 7454A Cancelled         | -                 |
| 7459A Cancelled         | -                 |
| 7464A Cancelled         | -                 |
| 7470C                   | -                 |
| 7471E                   | -                 |
| 7473D                   | -                 |
| 7474A Cancelled         | -                 |
| 7477C                   | -                 |
| 7478C                   | -                 |
| 7479A Cancelled         | -                 |
| 7875A                   | Q                 |
| 7879A                   | Q                 |

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## PWPS Power Systems Specifications (Industrial Gas Turbine)

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|  | Spec Revision | Spec. Code |
|--|---------------|------------|
|  | 2001A         | N          |
|  | 2002--        | -          |
|  | 2003--        | -          |
|  | 2004--        | P          |
|  | 2005--        | P          |
|  | 2006A         | -          |
|  | 2007--        | -          |
|  | 2008--        | -          |
|  | 2009--        | -          |
|  | 2010--        | -          |
|  | 2011A         | -          |
|  | 2012A         | N          |
|  | 2013--        | N          |
|  | 2014--        | N          |
|  | 2015A         | N          |
|  | 2016A         | N          |
|  | 2017A         | N          |

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## APU SPECIFICATIONS



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 Revision Date 01/2025

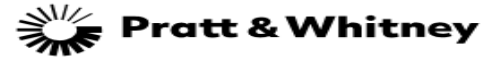
### APU Spec Code

CRS = Component Requirements Specification  
 CTP = Component Acceptance Test Procedure  
 D = Design Standard  
 ETP = Engine Acceptance Test Procedure  
 MCL = Materials Control Lab Document  
 MP = Materials & Processes Specification  
 PPS = Purchase Performance Specification  
 QS = Quality Specification  
 SSL = System Software and Logic Documents

*APU Specifications Inactive for New Designs (In Italics) - Highlighted in Green*

|  | LEGACY SPEC NO       | REV      | EFFECTVE SPEC NO         | REV       | CODE     | STATUS    | SUPERCEDING SPEC NO     |
|--|----------------------|----------|--------------------------|-----------|----------|-----------|-------------------------|
|  | 1802                 | AF       | APU-1802                 | --        | D        |           |                         |
|  | 2407                 | T        | APU-2407                 | --        | D        |           |                         |
|  | 2408                 | AB       | APU-2408                 | --        | D        |           |                         |
|  | 3501                 | N        | APU-3501                 | --        | MP       |           |                         |
|  |                      |          | APU-82003                | --        | D        |           |                         |
|  |                      |          | APU-82004                | --        | D        |           |                         |
|  |                      |          | APU-82010                | --        | PPS      |           |                         |
|  |                      |          | APU-82011                | --        | CTP      |           |                         |
|  |                      |          | APU-82013                | --        | PPS      |           |                         |
|  | 0338205010TS-1       | A        | 0338205010TS-1           | B         | D        |           |                         |
|  | 83104PG              | E        | APU-83104PG              | --        | MP       |           |                         |
|  | 83114JR              | J        | APU-83114JR              | --        | MP       |           |                         |
|  | CEP100               | A        | APU-CEP100               | --        | D        |           |                         |
|  | CMS4000              | C        | APU-CMS4000              | --        | MP       |           |                         |
|  | CMS4000ADD           | G        | APU-CMS4000ADD           | --        | MP       |           |                         |
|  | CP16.01-01           | E        | APU-CP16.01-01           | --        | QS       |           |                         |
|  | CP17.50-05           | K        | APU-CP17.50-05           | --        | D        |           |                         |
|  | CP17.50-10           | C        | APU-CP17.50-10           | --        | D        | Cancelled | Contact Pratt & Whitney |
|  | CPS1000              | --       | APU-CPS1000              | --        | MP       |           |                         |
|  | CPS1000-01           | --       | APU-CPS1000-01           | --        | MP       |           |                         |
|  | CPS1020              | A        | APU-CPS1020              | --        | MP       |           |                         |
|  | CPS1020-01           | A        | APU-CPS1020-01           | --        | MP       |           |                         |
|  | CPS1020-01ADD        | C        | APU-CPS1020-01ADD        | --        | MP       |           |                         |
|  | CPS1020ADD           | C        | APU-CPS1020ADD           | --        | MP       |           |                         |
|  | CPS11000             | A        | APU-CPS11000             | --        | MP       |           |                         |
|  | CPS14002             | --       | APU-CPS14002             | --        | CRS      |           |                         |
|  | <i>CQ13.01-03-09</i> | <i>A</i> | <i>APU-CQ13.01-03-09</i> | <i>--</i> | <i>D</i> |           |                         |
|  | <i>DM03</i>          | <i>E</i> | <i>APU-DM03</i>          | <i>--</i> | <i>D</i> |           |                         |

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|----------------|----------|------------------|-----|----------|------------|-------------------------|
| <i>DM04</i>    | <i>E</i> | <i>APU-DM04</i>  | --  | <i>D</i> |            |                         |
| DS2214         | A        | APU-DS2214       | --  | CRS      |            |                         |
| DS2399         | C        | APU-DS2399       | --  | PPS      |            |                         |
| DS2952         | A        | APU-DS2952       | --  | PPS      |            |                         |
| DS2953         | C        | APU-DS2953       | --  | PPS      |            |                         |
| DS2954         | A        | APU-DS2954       | --  | CRS      |            |                         |
| ED742731       | P        | APU-ED742731     | --  | D        |            |                         |
| ED742731ADD    | A        | APU-ED742731ADD  | --  | D        |            |                         |
| EN10.04        | AF       | APU-EN10.04      | --  | D        |            |                         |
| EN10.04-01     | AE       | APU-EN10.04-01   | --  | D        |            |                         |
| EN10.04-04     | Y        | APU-EN10.04-04   | --  | D        |            |                         |
| EN10.05        | P        | APU-EN10.05      | --  | D        |            |                         |
| EN10.11-01     | AE       | APU-EN10.11-01   | --  | D        |            |                         |
| EN10.11-02     | P        | APU-EN10.11-02   | --  | D        |            |                         |
| EN10.11-03     | D        | APU-EN10.11-03   | --  | D        | Cancelled  | Contact Pratt & Whitney |
| EN10.11-04     | C        | APU-EN10.11-04   | --  | D        | Cancelled  | Contact Pratt & Whitney |
| EN10.11-05     | D        | APU-EN10.11-05   | --  | D        |            |                         |
| EN10.12-06     | L        | APU-EN10.12-06   | --  | D        |            |                         |
| EN10.16-05     | R        | APU-EN10.16-05   | --  | D        |            |                         |
| EN10.16-08     | M        | APU-EN10.16-08   | --  | D        | Superseded | APU-EN10.16-11          |
| EN10.16-11     | AU       | APU-EN10.16-11   | --  | D        |            |                         |
| EN10.16-13     | AK       | APU-EN10.16-13   | --  | D        |            |                         |
| EN10.24-06     | AG       | APU-EN10.24-06   | --  | D        |            |                         |
| EN10.24-08     | W        | APU-EN10.24-08   | --  | D        |            |                         |
| EN10.24-11     | F        | APU-EN10.24-11   | --  | D        |            |                         |
| EN10.24-12     | N        | APU-EN10.24-12   | --  | D        |            |                         |
| EN10.24-23     | B        | APU-EN10.24-23   | --  | D        |            |                         |
| EN10.32-01     | AA       | APU-EN10.32-01   | --  | D        |            |                         |

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|--------------------|----------|------------------------|-----------|----------|-----------|-------------------------|
| EN10.32-03         | AC       | APU-EN10.32-03         | --        | D        |           |                         |
| EN10.32-08         | G        | APU-EN10.32-08         | --        | D        |           |                         |
| EN10.32-09         | D        | APU-EN10.32-09         | --        | D        | Cancelled | Contact Pratt & Whitney |
| EN10.32-11         | L        | APU-EN10.32-11         | --        | D        | Cancelled | Contact Pratt & Whitney |
| EN10.32-30         | N        | APU-EN10.32-30         | --        | D        |           |                         |
| EN10.32-40         | A        | APU-EN10.32-40         | --        | D        |           |                         |
| EN10.35            | D        | APU-EN10.35            | --        | D        |           |                         |
| EN10.55-12         | J        | APU-EN10.55-12         | --        | D        | Cancelled | Contact Pratt & Whitney |
| EN20.01            | --       | APU-EN20.01            | --        | D        |           |                         |
| EN20.04            | CF       | APU-EN20.04            | --        | D        |           |                         |
| EN20.05-03         | J        | APU-EN20.05-03         | --        | D        |           |                         |
| EN20.07            | H        | APU-EN20.07            | --        | D        |           |                         |
| EN20.07-01         | F        | APU-EN20.07-01         | --        | D        |           |                         |
| EN20.07-04         | B        | APU-EN20.07-04         | --        | D        |           |                         |
| EN20.09            | E        | APU-EN20.09            | --        | D        |           |                         |
| EN25.40-03         | R        | APU-EN25.40-03         | --        | D        |           |                         |
| <i>EN25.40-03A</i> | <i>D</i> | <i>APU-EN25.40-03A</i> | <i>--</i> | <i>D</i> |           |                         |
| EN25.40-04         | W        | APU-EN25.40-04         | --        | D        |           |                         |
| EN25.40-05         | W        | APU-EN25.40-05         | --        | D        |           |                         |
| EN25.40-06         | L        | APU-EN25.40-06         | --        | D        |           |                         |
| <i>EN25.40-07</i>  | <i>A</i> | <i>APU-EN25.40-07</i>  | <i>--</i> | <i>D</i> |           |                         |
| <i>EN25.40-08</i>  | <i>C</i> | <i>APU-EN25.40-08</i>  | <i>--</i> | <i>D</i> |           |                         |
| EN25.40-10         | P        | APU-EN25.40-10         | --        | D        |           |                         |
| ES1081             | B        | APU-ES1081             | --        | QS       |           |                         |
| ES1223             | E        | APU-ES1223             | --        | PPS      |           |                         |
| ES1460             | H        | APU-ES1460             | A         | CTP      |           |                         |
| ES1697             | V        | APU-ES1697             | --        | CTP      |           |                         |
| ES6-63             | --       | APU-ES6-63             | --        | D        |           |                         |

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|--|----------------|----------|-------------------|-----------|----------|--------|---------------------|
|  | ES9-1110       | E        | APU-ES9-1110      | --        | QS       |        |                     |
|  | <i>ES9-21</i>  | <i>U</i> | <i>APU-ES9-21</i> | <i>--</i> | <i>D</i> |        |                     |
|  | ES9-228        | NC       | APU-ES9-228       | --        | MP       |        |                     |
|  | ES9-27         | C        | APU-ES9-27        | --        | QS       |        |                     |
|  | ES9-4          | P        | APU-ES9-4         | --        | D        |        |                     |
|  | ES9-41         | --       | APU-ES9-41        | --        | D        |        |                     |
|  | ES9-42         | B        | APU-ES9-42        | --        | D        |        |                     |
|  | ES9-45         | L        | APU-ES9-45        | --        | MP       |        |                     |
|  | ES9-47         | --       | APU-ES9-47        | --        | D        |        |                     |
|  | ES9-56         | C        | APU-ES9-56        | --        | MP       |        |                     |
|  | ES9-56-1       | A        | APU-ES9-56-1      | --        | MP       |        |                     |
|  | ES9-56-2       | A        | APU-ES9-56-2      | --        | MP       |        |                     |
|  | ES9-58         | F        | APU-ES9-58        | --        | MP       |        |                     |
|  | ES9-58-1       | D        | APU-ES9-58-1      | --        | MP       |        |                     |
|  | ES9-58-2       | C        | APU-ES9-58-2      | --        | MP       |        |                     |
|  | ES9-6          | J        | APU-ES9-6         | A         | D        |        |                     |
|  | ESR0004        | M        | APU-ESR0004       | --        | QS       |        |                     |
|  | ESR0005        | G        | APU-ESR0005       | --        | MP       |        |                     |
|  | ESR0006        | --       | APU-ESR0006       | --        | QS       |        |                     |
|  | ESR0032        | B        | APU-ESR0032       | --        | D        |        |                     |
|  | ESR0036        | C        | APU-ESR0036       | --        | PPS      |        |                     |
|  | ESR0038        | D        | APU-ESR0038       | --        | PPS      |        |                     |
|  | ESR0048        | G        | APU-ESR0048       | --        | PPS      |        |                     |
|  | ESR0055        | B        | APU-ESR0055       | --        | PPS      |        |                     |
|  | ESR0094        | H        | APU-ESR0094       | --        | CTP      |        |                     |
|  | ESR0097        | D        | APU-ESR0097       | --        | QS       |        |                     |
|  | ESR0140        | --       | APU-ESR0140       | --        | MP       |        |                     |
|  | ESR0141        | --       | APU-ESR0141       | --        | MP       |        |                     |

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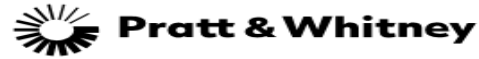
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|  | LEGACY SPEC NO | REV | EFFECTVE SPEC NO | REV | CODE | STATUS | SUPERCEDING SPEC NO |
|--|----------------|-----|------------------|-----|------|--------|---------------------|
|  | ESR0142        | --  | APU-ESR0142      | --  | MP   |        |                     |
|  | ESR0144        | C   | APU-ESR0144      | --  | MP   |        |                     |
|  | ESR0151        | H   | APU-ESR0151      | --  | MCL  |        |                     |
|  | ESR0153        | B   | APU-ESR0153      | --  | MP   |        |                     |
|  | ESR0157        | U   | APU-ESR0157      | --  | MP   |        |                     |
|  | ESR0160        | A   | APU-ESR0160      | --  | MP   |        |                     |
|  | ESR0161        | C   | APU-ESR0161      | --  | D    |        |                     |
|  | ESR0163        | D   | APU-ESR0163      | --  | MP   |        |                     |
|  | ESR0164        | A   | APU-ESR0164      | --  | MP   |        |                     |
|  | ESR0183        | J   | APU-ESR0183      | --  | PPS  |        |                     |
|  | ESR0200        | --  | APU-ESR0200      | --  | MP   |        |                     |
|  | ESR0251        | --  | APU-ESR0251      | --  | D    |        |                     |
|  | ESR0267        | B   | APU-ESR0267      | --  | CRS  |        |                     |
|  | ESR0304        | D   | APU-ESR0304      | --  | D    |        |                     |
|  | ESR0306        | D   | APU-ESR0306      | --  | CRS  |        |                     |
|  | ESR0317        | A   | APU-ESR0317      | --  | CRS  |        |                     |
|  | ESR0345        | B   | APU-ESR0345      | --  | CRS  |        |                     |
|  | ESR0356        | D   | APU-ESR0356      | --  | PPS  |        |                     |
|  | ESR0393        | A   | ESR0393          | A   | SSL  |        |                     |
|  | ESR0397        | C   | ESR0397          | C   | SSL  |        |                     |
|  | ESR0430        | A   | APU-ESR0430      | --  | PPS  |        |                     |
|  | ESR0448        | --  | APU-ESR0448      | --  | CRS  |        |                     |
|  | ESR0458        | C   | APU-ESR0458      | --  | PPS  |        |                     |
|  | ESR0481        | A   | APU-ESR0481      | --  | MP   |        |                     |
|  | ESR0486        | E   | APU-ESR0486      | --  | D    |        |                     |
|  | ESR0494        | B   | APU-ESR0494      | --  | PPS  |        |                     |
|  | ESR0502        | B   | APU-ESR0502      | --  | CRS  |        |                     |
|  | ESR0507        | D   | APU-ESR0507      | --  | PPS  |        |                     |



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|--|----------------|-----|------------------|-----|------|--------|---------------------|
|  | ESR0521        | --  | APU-ESR0521      | --  | PPS  |        |                     |
|  | ESR0559        | C   | APU-ESR0559      | A   | MP   |        |                     |
|  | ESR0560        | D   | APU-ESR0560      | --  | MP   |        |                     |
|  | ESR0611        | J   | APU-ESR0611      | --  | CRS  |        |                     |
|  | ESR0631        | C   | APU-ESR0631      | --  | MP   |        |                     |
|  | ESR0650        | --  | APU-ESR0650      | --  | MP   |        |                     |
|  | ESR0679        | B   | APU-ESR0679      | --  | PPS  |        |                     |
|  | ESR0692        | --  | APU-ESR0692      | --  | PPS  |        |                     |
|  | ESR0693        | --  | APU-ESR0693      | --  | CRS  |        |                     |
|  | ESR0694        | --  | APU-ESR0694      | --  | PPS  |        |                     |
|  | ESR0708        | AR  | APU-ESR0708      | --  | CTP  |        |                     |
|  | ESR0725        | B   | APU-ESR0725      | --  | D    |        |                     |
|  | ESR0734        | --  | APU-ESR0734      | --  | MP   |        |                     |
|  | ESR0736        | --  | APU-ESR0736      | --  | D    |        |                     |
|  | ESR0773        | C   | APU-ESR0773      | --  | PPS  |        |                     |
|  | ESR0775        | A   | APU-ESR0775      | --  | PPS  |        |                     |
|  | ESR0780        | A   | APU-ESR0780      | --  | D    |        |                     |
|  | ESR0788        | D   | APU-ESR0788      | --  | QS   |        |                     |
|  | ESR0847        | --  | APU-ESR0847      | --  | PPS  |        |                     |
|  | ESR0857        | NC  | APU-ESR0857      | --  | PPS  |        |                     |
|  | ESR0870        | B   | APU-ESR0870      | --  | PPS  |        |                     |
|  | ESR0871        | C   | APU-ESR0871      | --  | PPS  |        |                     |
|  | ESR0872        | A   | APU-ESR0872      | --  | PPS  |        |                     |
|  | ESR0873        | --  | APU-ESR0873      | --  | PPS  |        |                     |
|  | ESR0874        | --  | APU-ESR0874      | --  | PPS  |        |                     |
|  | ESR0875        | --  | APU-ESR0875      | --  | PPS  |        |                     |
|  | ESR0876        | --  | APU-ESR0876      | --  | PPS  |        |                     |
|  | ESR0877        | B   | APU-ESR0877      | --  | PPS  |        |                     |

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|--|----------------|-----|------------------|-----|------|--------|---------------------|
|  | ESR0879        | A   | APU-ESR0879      | --  | D    |        |                     |
|  | ESR0881        | A   | APU-ESR0881      | --  | PPS  |        |                     |
|  | ESR0883        | A   | APU-ESR0883      | --  | D    |        |                     |
|  | ESR0884        | A   | APU-ESR0884      | --  | CRS  |        |                     |
|  | ESR0889        | B   | APU-ESR0889      | --  | CRS  |        |                     |
|  | ESR0904        | --  | APU-ESR0904      | --  | D    |        |                     |
|  | ESR0906        | --  | APU-ESR0906      | --  | PPS  |        |                     |
|  | ESR0908        | --  | APU-ESR0908      | --  | PPS  |        |                     |
|  | ESR0909        | D   | APU-ESR0909      | --  | CTP  |        |                     |
|  | ESR0911        | F   | APU-ESR0911      | A   | CTP  |        |                     |
|  | ESR0916        | A   | APU-ESR0916      | --  | PPS  |        |                     |
|  | ESR0917        | A   | APU-ESR0917      | --  | PPS  |        |                     |
|  | ESR0918        | NC  | APU-ESR0918      | --  | CTP  |        |                     |
|  | ESR0919        | B   | APU-ESR0919      | --  | CTP  |        |                     |
|  | ESR0920        | F   | ESR0920          | F   | SSL  |        |                     |
|  | ESR0929        | C   | APU-ESR0929      | A   | CTP  |        |                     |
|  | ESR0936        | NC  | APU-ESR0936      | --  | CTP  |        |                     |
|  | ESR0937        | NC  | APU-ESR0937      | --  | CTP  |        |                     |
|  | ESR0941        | C   | APU-ESR0941      | --  | MP   |        |                     |
|  | ESR0943        | NC  | ESR0943          | NC  | SSL  |        |                     |
|  | ESR0948        | A   | APU-ESR0948      | --  | CRS  |        |                     |
|  | ESR0954        | A   | APU-ESR0954      | --  | D    |        |                     |
|  | ESR0957        | B   | APU-ESR0957      | B   | PPS  |        |                     |
|  | ESR0960        | --  | APU-ESR0960      | --  | CRS  |        |                     |
|  | ESR0963        | --  | APU-ESR0963      | --  | PPS  |        |                     |
|  | ESR0964        | B   | APU-ESR0964      | --  | CTP  |        |                     |
|  | ESR0973        | A   | ESR0973          | B   | CTP  |        |                     |
|  | ESR0974        | F   | ESR0974          | G   | CTP  |        |                     |

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|--|----------------|-----|------------------|-----|------|------------|---------------------|
|  | ESR0985        | A   | APU-ESR0985      | --  | CTP  |            |                     |
|  | ESR0995        | A   | APU-ESR0995      | --  | CRS  |            |                     |
|  | ESR1009        | J   | APU-ESR1009      | --  | MP   |            |                     |
|  | ESR1010        | B   | APU-ESR1010      | --  | CTP  |            |                     |
|  | ESR1015        | B   | ESR1015          | B   | SSL  |            |                     |
|  | ESR1019        | NC  | APU-ESR1019      | --  | D    |            |                     |
|  | ESR1020        | A   | APU-ESR1020      | --  | D    |            |                     |
|  | * ESR1022      | D   | APU-ESR1022      | A   | CTP  |            |                     |
|  | ESR1022        | D   | ESR1022          | E   | CTP  | Superseded | APU-ESR1022         |
|  | ESR1023        | A   | ESR1023          | B   | CTP  |            |                     |
|  | ESR1024        | C   | APU-ESR1024      | --  | D    |            |                     |
|  | ESR1029        | B   | APU-ESR1029      | --  | CTP  |            |                     |
|  | ESR1049        | --  | APU-ESR1049      | --  | MP   |            |                     |
|  | ESR1050        | A   | APU-ESR1050      | --  | CTP  |            |                     |
|  | ESR1052        | A   | APU-ESR1052      | --  | PPS  |            |                     |
|  | ESR1054        | A   | APU-ESR1054      | A   | CTP  |            |                     |
|  | ESR1058        | B   | APU-ESR1058      | --  | MP   |            |                     |
|  | ESR1069        | NC  | APU-ESR1069      | --  | CTP  |            |                     |
|  | ESR1072        | D   | APU-ESR1072      | --  | MP   |            |                     |
|  | ESR1078        | H   | APU-ESR1078      | --  | PPS  |            |                     |
|  | ESR1104        | A   | APU-ESR1104      | --  | PPS  |            |                     |
|  | ESR1105        | A   | APU-ESR1105      | --  | MP   |            |                     |
|  | ESR1106        | NC  | APU-ESR1106      | --  | D    |            |                     |
|  | ESR1113        | D   | ESR1113          | D   | SSL  |            |                     |
|  | ESR1114        | NC  | APU-ESR1114      | --  | D    |            |                     |
|  | ESR1122        | C   | APU-ESR1122      | --  | CTP  |            |                     |
|  | ESR1123        | B   | APU-ESR1123      | --  | CTP  |            |                     |
|  | ESR1124        | B   | APU-ESR1124      | A   | CTP  |            |                     |

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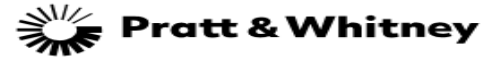
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|  | LEGACY SPEC NO | REV | EFFECTVE SPEC NO | REV | CODE | STATUS     | SUPERCEDING SPEC NO     |
|--|----------------|-----|------------------|-----|------|------------|-------------------------|
|  | ESR1126        | A   | APU-ESR1126      | --  | D    |            |                         |
|  | ESR1132        | NC  | APU-ESR1132      | --  | D    |            |                         |
|  | ESR1151        | B   | APU-ESR1151      | --  | CTP  |            |                         |
|  | ESR1153        | NC  | APU-ESR1153      | --  | D    |            |                         |
|  | ESR1163        | A   | APU-ESR1163      | --  | CRS  |            |                         |
|  | ESR1164        | H   | ESR1164          | H   | SSL  |            |                         |
|  | ESR1168        | NC  | APU-ESR1168      | --  | D    |            |                         |
|  | ESR1169        | NC  | APU-ESR1169      | --  | D    |            |                         |
|  | ESR1183        | A   | APU-ESR1183      | --  | CTP  |            |                         |
|  | ESR1184        | A   | APU-ESR1184      | --  | PPS  |            |                         |
|  | ESR1185        | --  | APU-ESR1185      | --  | PPS  |            |                         |
|  | ESR1187        | A   | APU-ESR1187      | --  | MP   |            |                         |
|  | ESR1217        | A   | ESR1217          | A   | SSL  |            |                         |
|  | ESR1222        | A   | ESR1222          | A   | SSL  |            |                         |
|  | ESR1254        | NC  | APU-ESR1254      | --  | MP   |            |                         |
|  | ESR1295        | C   | ESR1295          | C   | SSL  |            |                         |
|  | ESR1296        | A   | APU-ESR1296      | --  | PPS  |            |                         |
|  | ESR1302        | E   | ESR1302          | E   | SSL  |            |                         |
|  | ESR1350        | NC  | APU-ESR1350      | --  | D    |            |                         |
|  | ESR1356        | --  | APU-ESR1356      | --  | CRS  |            |                         |
|  | ESR1364        | A   | APU-ESR1364      | --  | PPS  |            |                         |
|  | ESR1384        | B   | ESR1384          | B   | SSL  |            |                         |
|  | ESR1386        | C   | APU-ESR1386      | A   | D    |            |                         |
|  | ESR1393        | B   | APU-ESR1393      | --  | CTP  | Superseded | Contact Pratt & Whitney |
|  | ESR1396        | NC  | APU-ESR1396      | --  | CTP  |            |                         |
|  | ESR1399        | B   | APU-ESR1399      | --  | PPS  |            |                         |
|  | ESR1406        | B   | APU-ESR1406      | --  | PPS  |            |                         |
|  | ESR1431        | --  | APU-ESR1431      | --  | CRS  |            |                         |

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|--|----------------|-----|------------------|-----|------|-----------|---------------------|
|  | ESR1441        | NC  | APU-ESR1441      | --  | PPS  |           |                     |
|  | ESR1442        | A   | APU-ESR1442      | --  | CTP  |           |                     |
|  | ESR1460        | A   | APU-ESR1460      | --  | PPS  |           |                     |
|  | ESR1471        | F   | APU-ESR1471      | --  | CTP  |           |                     |
|  | ESR1532        | --  | APU-ESR1532      | --  | PPS  |           |                     |
|  | ESR1589        | --  | APU-ESR1589      | --  | QS   |           |                     |
|  | ESR1644        | B   | APU-ESR1644      | --  | QS   |           |                     |
|  | ESR1662        | --  | APU-ESR1662      | --  | MP   |           |                     |
|  | ESR1709        | B   | APU-ESR1709      | --  | CTP  |           |                     |
|  | ESR1710        | NC  | APU-ESR1710      | A   | CTP  |           |                     |
|  | ESR1737        | A   | APU-ESR1737      | --  | CRS  |           |                     |
|  | ESR1739        | D   | APU-ESR1739      | E   | SSL  |           |                     |
|  | ESR1740        | NC  | ESR1740          | NC  | SSL  |           |                     |
|  | ESR1761        | NC  | APU-ESR1761      | --  | D    |           |                     |
|  | ESR1766        | NC  | APU-ESR1766      | --  | MP   |           |                     |
|  | ESR1782        | A   | APU-ESR1782      | --  | PPS  |           |                     |
|  | ESR1788        | NC  | APU-ESR1788      | --  | MP   |           |                     |
|  | ESR1791        | NC  | APU-ESR1791      | --  | MP   |           |                     |
|  | ESR1795        | C   | APU-ESR1795      | --  | MP   |           |                     |
|  | ESR1829        | --  | APU-ESR1829      | --  | D    |           |                     |
|  | ESR1933        | NC  | APU-ESR1933      | --  | D    |           |                     |
|  | HS10724        | B   | APU-HS10724      | --  | MP   |           |                     |
|  | HS1082         | C   | APU-HS1082       | --  | D    |           |                     |
|  | HS1122         | --  | APU-HS1122       | --  | QS   |           |                     |
|  | HS12000        | F   | APU-HS12000      | --  | D    |           |                     |
|  | HS1211         | --  | APU-HS1211       | --  | QS   |           |                     |
|  | HS12220        | B   | APU-HS12220      | --  | MP   |           |                     |
|  | HS12220ADD     | B   | APU-HS12220ADD   | --  | MP   | Cancelled |                     |

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|--|----------------|-----|------------------|-----|------|------------|---------------------|
|  | HS1265         | BB  | APU-HS1265       | --  | MP   |            |                     |
|  | HS1265ADD      | AR  | APU-HS1265ADD    | --  | MP   |            |                     |
|  | HS12674        | E   | APU-HS12674      | --  | MP   |            |                     |
|  | HS12674ADD     | C   | APU-HS12674ADD   | --  | MP   |            |                     |
|  | HS12719        | C   | APU-HS12719      | --  | QS   |            |                     |
|  | HS12719ADD     | B   | APU-HS12719ADD   | --  | QS   |            |                     |
|  | HS13472        | A   | APU-HS13472      | --  | QS   |            |                     |
|  | HS13506        | A   | APU-HS13506      | --  | MP   |            |                     |
|  | HS13506ADD     | A   | APU-HS13506ADD   | --  | MP   | Cancelled  |                     |
|  | HS13576        | A   | APU-HS13576      | --  | MP   |            |                     |
|  | HS13576ADD     | A   | APU-HS13576ADD   | --  | MP   |            |                     |
|  | HS1360         | E   | APU-HS1360       | --  | D    | Superseded | APU-HS12000         |
|  | HS140          | F   | APU-HS140        | --  | MP   |            |                     |
|  | HS140ADD       | A   | APU-HS140ADD     | --  | MP   |            |                     |
|  | HS1436         | D   | APU-HS1436       | --  | D    |            |                     |
|  | HS14589        | A   | APU-HS14589      | --  | MP   |            |                     |
|  | HS14589ADD     | B   | APU-HS14589ADD   | --  | MP   |            |                     |
|  | HS14612        | A   | APU-HS14612      | --  | MP   |            |                     |
|  | HS14612ADD     | A   | APU-HS14612ADD   | --  | MP   |            |                     |
|  | HS14722        | D   | APU-HS14722      | --  | MP   | Superseded | PWA328              |
|  | HS14722ADD     | A   | APU-HS14722ADD   | --  | MP   | Cancelled  |                     |
|  | HS14834        | G   | APU-HS14834      | --  | MP   |            |                     |
|  | HS14834ADD     | H   | APU-HS14834ADD   | --  | MP   |            |                     |
|  | HS15000        | M   | APU-HS15000      | --  | D    |            |                     |
|  | HS15314        | F   | APU-HS15314      | --  | D    |            |                     |
|  | HS15314ADD     | --  | APU-HS15314ADD   | --  | D    |            |                     |
|  | HS1550         | J   | APU-HS1550       | --  | D    |            |                     |
|  | HS16151        | A   | APU-HS16151      | --  | MP   |            |                     |

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|--|----------------|-----|------------------|-----|------|------------|--|
|  | HS16151ADD     | B   | APU-HS16151ADD   | --  | MP   |            |  |
|  | HS17459        | D   | APU-HS17459      | --  | MP   |            |  |
|  | HS17459ADD     | B   | APU-HS17459ADD   | --  | MP   |            |  |
|  | HS178          | H   | APU-HS178        | --  | MP   |            |  |
|  | HS191          | V   | APU-HS191        | --  | MP   |            |  |
|  | HS191ADD       | T   | APU-HS191ADD     | --  | MP   |            |  |
|  | HS2053         | H   | APU-HS2053       | --  | D    |            |  |
|  | HS2062         | H   | APU-HS2062       | --  | MP   |            |  |
|  | HS2073         | C   | APU-HS2073       | --  | MP   |            |  |
|  | HS2087         | B   | APU-HS2087       | --  | MP   |            |  |
|  | HS2212         | G   | APU-HS2212       | --  | D    |            |  |
|  | HS240          | D   | APU-HS240        | --  | MP   |            |  |
|  | HS246          | M   | APU-HS246        | --  | MP   |            |  |
|  | HS248          | U   | APU-HS248        | --  | MP   |            |  |
|  | HS248ADD       | F   | APU-HS248ADD     | --  | MP   |            |  |
|  | HS291          | F   | APU-HS291        | --  | MP   |            |  |
|  | HS31           | R   | APU-HS31         | --  | QS   |            |  |
|  | HS3150         | F   | APU-HS3150       | --  | D    |            |  |
|  | HS3197         | L   | APU-HS3197       | --  | MP   |            |  |
|  | HS3197ADD      | H   | APU-HS3197ADD    | --  | MP   |            |  |
|  | HS332          | E   | APU-HS332        | --  | MP   |            |  |
|  | HS333          | AK  | APU-HS333        | --  | D    |            |  |
|  | HS334          | P   | APU-HS334        | --  | MP   | Superseded | APU-CPS1000-01, See APU-HS334 for Superseded Designation to Applicable Designation Cross-reference |
|  | HS392          | N   | APU-HS392        | --  | MP   |            |  |
|  | HS424          | AD  | APU-HS424        | --  | MP   |            |  |
|  | HS43           | M   | APU-HS43         | --  | MP   |            |  |

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|--|----------------|-----|------------------|-----|------|------------|---------------------|
|  | HS43ADD        | D   | APU-HS43ADD      | --  | MP   |            |                     |
|  | HS44           | E   | APU-HS44         | --  | MP   |            |                     |
|  | HS4444         | B   | APU-HS4444       | --  | D    | Superseded | APU-HS12000         |
|  | HS447          | U   | APU-HS447        | --  | QS   |            |                     |
|  | HS447ADD       | G   | APU-HS447ADD     | --  | QS   |            |                     |
|  | HS4508         | C   | APU-HS4508       | --  | D    |            |                     |
|  | HS453          | C   | APU-HS453        | --  | MP   |            |                     |
|  | HS454          | H   | APU-HS454        | --  | MP   |            |                     |
|  | HS457          | A   | APU-HS457        | --  | MP   | Superseded | APU-HS43            |
|  | HS461          | L   | APU-HS461        | --  | MP   |            |                     |
|  | HS48           | G   | APU-HS48         | --  | MP   |            |                     |
|  | HS4845         | F   | APU-HS4845       | --  | QS   |            |                     |
|  | HS4845ADD      | G   | APU-HS4845ADD    | --  | QS   |            |                     |
|  | HS4883         | B   | APU-HS4883       | --  | MP   |            |                     |
|  | HS5036         | J   | APU-HS5036       | --  | MP   |            |                     |
|  | HS5036ADD      | E   | APU-HS5036ADD    | --  | MP   |            |                     |
|  | HS522          | D   | APU-HS522        | --  | MP   |            |                     |
|  | HS523          | C   | APU-HS523        | --  | MP   |            |                     |
|  | HS5263         | P   | APU-HS5263       | --  | PPS  |            |                     |
|  | HS5598         | B   | APU-HS5598       | --  | MP   |            |                     |
|  | HS5623         | E   | APU-HS5623       | --  | MP   |            |                     |
|  | HS5803         | B   | APU-HS5803       | --  | MP   |            |                     |
|  | HS67           | N   | APU-HS67         | --  | MP   |            |                     |



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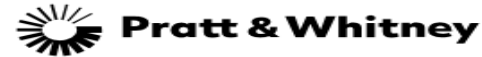
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|------------------|----------|----------------------|-----------|----------|--------|---------------------|
| HS6996           | E        | APU-HS6996           | --        | MP       |        |                     |
| HS6996ADD        | B        | APU-HS6996ADD        | --        | MP       |        |                     |
| HS7014           | A        | APU-HS7014           | --        | MP       |        |                     |
| HS7434           | G        | APU-HS7434           | --        | MP       |        |                     |
| HS7434ADD        | L        | APU-HS7434ADD        | --        | MP       |        |                     |
| HS750            | E        | APU-HS750            | --        | MP       |        |                     |
| HS760            | C        | APU-HS760            | --        | MP       |        |                     |
| HS7725           | B        | APU-HS7725           | --        | MCL      |        |                     |
| HS7725ADD        | A        | APU-HS7725ADD        | --        | MCL      |        |                     |
| HS841            | G        | APU-HS841            | --        | QS       |        |                     |
| HS851            | B        | APU-HS851            | --        | MCL      |        |                     |
| HS9138           | E        | APU-HS9138           | --        | D        |        |                     |
| HS915            | B        | APU-HS915            | --        | MP       |        |                     |
| HS915ADD         | --       | APU-HS915ADD         | --        | MP       |        |                     |
| HS923            | AA       | APU-HS923            | --        | MP       |        |                     |
| HS923ADD         | F        | APU-HS923ADD         | --        | MP       |        |                     |
| HS93             | K        | APU-HS93             | --        | QS       |        |                     |
| HSC0001          | A        | APU-HSC0001          | --        | D        |        |                     |
| HSC16022         | --       | APU-HSC16022         | --        | CRS      |        |                     |
| HSC16199         | D        | APU-HSC16199         | --        | D        |        |                     |
| <i>JDM10.06</i>  | <i>F</i> | <i>APU-JDM10.06</i>  | <i>--</i> | <i>D</i> |        |                     |
| MS02.40-01       | D        | APU-MS02.40-01       | --        | MP       |        |                     |
| MS02.40-01ADD    | --       | APU-MS02.40-01ADD    | --        | MP       |        |                     |
| MS02.43          | AF       | APU-MS02.43          | --        | MP       |        |                     |
| MS02.43_ADDENDUM | --       | APU-MS02.43_ADDENDUM | --        | MP       |        |                     |
| MS02.43-01       | --       | APU-MS02.43-01       | --        | MP       |        |                     |

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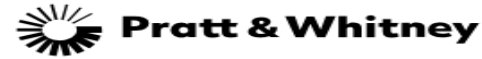
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|-------------------|----------|-----------------------|-----------|-----------|------------|---------------------|
| MS02.44           | B        | APU-MS02.44           | --        | MP        |            |                     |
| MS02.59           | D        | APU-MS02.59           | --        | MP        |            |                     |
| MS02.65           | --       | APU-MS02.65           | --        | MP        |            |                     |
| MS06.04           | U        | APU-MS06.04           | --        | MP        |            |                     |
| MS06.B            | N        | APU-MS06.B            | --        | MP        |            |                     |
| MS10.25           | M        | APU-MS10.25           | --        | MP        |            |                     |
| MS10.25_ADDENDUM  | --       | APU-MS10.25_ADDENDUM  | --        | MP        | Cancelled  |                     |
| MS11.18-01        | H        | APU-MS11.18-01        | --        | MP        |            |                     |
| <i>MS18.02</i>    | <i>B</i> | <i>APU-MS18.02</i>    | <i>--</i> | <i>MP</i> |            |                     |
| MS20.01           | AW       | APU-MS20.01           | --        | MP        | Superseded | APU-CPS11000        |
| MS20.04           | D        | APU-MS20.04           | --        | MP        |            |                     |
| MS21.07           | G        | APU-MS21.07           | --        | MP        |            |                     |
| MS23.06-02        | G        | APU-MS23.06-02        | --        | MP        |            |                     |
| MS23.06-03        | B        | APU-MS23.06-03        | --        | MP        |            |                     |
| MS28.01           | V        | APU-MS28.01           | --        | MP        |            |                     |
| MS28.02           | F        | APU-MS28.02           | --        | MP        |            |                     |
| MS28.04           | H        | APU-MS28.04           | --        | MP        |            |                     |
| MS28.05           | C        | APU-MS28.05           | --        | MP        |            |                     |
| MS28.07           | A        | APU-MS28.07           | --        | MP        |            |                     |
| MS28.08           | --       | APU-MS28.08           | --        | MP        |            |                     |
| MS28.10           | --       | APU-MS28.10           | --        | MP        |            |                     |
| <i>MS29.01-01</i> | <i>F</i> | <i>APU-MS29.01-01</i> | <i>--</i> | <i>MP</i> |            |                     |
| MS29.01-02        | N        | APU-MS29.01-02        | --        | MP        |            |                     |
| MS29.01-03        | N        | APU-MS29.01-03        | --        | MP        |            |                     |
| MS29.01-05        | F        | APU-MS29.01-05        | --        | MP        |            |                     |
| MS29.01-06        | B        | APU-MS29.01-06        | --        | MP        | Superseded | APU-MS29.01-08      |

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|  | LEGACY SPEC NO | REV | EFFECTVE SPEC NO  | REV | CODE | STATUS     | SUPERCEDING SPEC NO |
|--|----------------|-----|-------------------|-----|------|------------|---------------------|
|  | MS29.01-07     | --  | APU-MS29.01-07    | --  | MP   |            |                     |
|  | MS29.01-08     | J   | APU-MS29.01-08    | --  | MP   |            |                     |
|  | MS29.01-11     | A   | APU-MS29.01-11    | --  | MP   |            |                     |
|  | MS29.01-12     | A   | APU-MS29.01-12    | --  | MP   |            |                     |
|  | MS29.01-13     | A   | APU-MS29.01-13    | --  | MP   |            |                     |
|  | MS29.02        | F   | APU-MS29.02       | --  | MP   |            |                     |
|  | MS29.03        | B   | APU-MS29.03       | --  | MP   |            |                     |
|  | MS29.04        | J   | APU-MS29.04       | --  | MP   |            |                     |
|  | MS29.05-01     | G   | APU-MS29.05-01    | --  | MP   |            |                     |
|  | MS29.05-02     | G   | APU-MS29.05-02    | --  | MP   |            |                     |
|  | MS29.05-03     | A   | APU-MS29.05-03    | --  | MP   |            |                     |
|  | MS34.00-01     | U   | APU-MS34.00-01    | --  | MP   | Superseded | APU-MS34.00-02      |
|  | MS34.00-02     | A   | APU-MS34.00-02    | --  | MP   |            |                     |
|  | MS34.28-05     | J   | APU-MS34.28-05    | --  | MP   |            |                     |
|  | MS34.28-05ADD  | --  | APU-MS34.28-05ADD | --  | MP   |            |                     |
|  | MS34.28-15     | G   | APU-MS34.28-15    | --  | MP   |            |                     |
|  | MS34.28-20     | B   | APU-MS34.28-20    | --  | MP   |            |                     |
|  | MS34.28-30     | D   | APU-MS34.28-30    | --  | MP   |            |                     |
|  | MS34.28-55     | B   | APU-MS34.28-55    | --  | MP   |            |                     |
|  | MS34.28-55ADD  | --  | APU-MS34.28-55ADD | --  | MP   |            |                     |
|  | MS34.28-56     | A   | APU-MS34.28-56    | --  | MP   |            |                     |
|  | MS34.28-57     | --  | APU-MS34.28-57    | --  | MP   |            |                     |
|  | MS34.28-59     | B   | APU-MS34.28-59    | --  | MP   |            |                     |
|  | MS34.28-59ADD  | --  | APU-MS34.28-59ADD | --  | MP   | Cancelled  |                     |
|  | MS34.28-60     | B   | APU-MS34.28-60    | --  | MP   |            |                     |
|  | MS34.28-60ADD  | A   | APU-MS34.28-60ADD | --  | MP   |            |                     |
|  | MS34.28-64     | --  | APU-MS34.28-64    | --  | MP   |            |                     |
|  | MS34.28-66     | A   | APU-MS34.28-66    | --  | MP   |            |                     |

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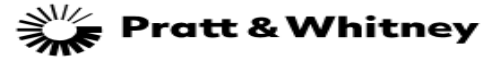
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|---------------------|-----|-------------------------|-----|------|------------|---------------------|
| MS34.28-66ADD       | --  | APU-MS34.28-66ADD       | --  | MP   |            |                     |
| MS34.28-74          | --  | APU-MS34.28-74          | --  | MP   |            |                     |
| MS34.30-10          | L   | APU-MS34.30-10          | --  | MP   |            |                     |
| MS34.30-10ADD       | B   | APU-MS34.30-10ADD       | --  | MP   |            |                     |
| MS34.30-19          | H   | APU-MS34.30-19          | --  | MP   |            |                     |
| MS34.30-19_ADDENDUM | --  | APU-MS34.30-19_ADDENDUM | --  | MP   |            |                     |
| MS34.30-20          | G   | APU-MS34.30-20          | --  | MP   |            |                     |
| MS34.31-05          | M   | APU-MS34.31-05          | --  | MP   |            |                     |
| MS34.31-05ADD       | --  | APU-MS34.31-05ADD       | --  | MP   |            |                     |
| MS34.31-07          | H   | APU-MS34.31-07          | --  | MP   | Superseded | APU-MS34.31-05      |
| MS34.32-02          | Y   | APU-MS34.32-02          | --  | MP   |            |                     |
| MS34.32-02ADD       | B   | APU-MS34.32-02ADD       | --  | MP   |            |                     |
| MS34.32-04          | G   | APU-MS34.32-04          | --  | MP   |            |                     |
| MS34.33             | B   | APU-MS34.33             | --  | MP   |            |                     |
| MS34.40-06          | M   | APU-MS34.40-06          | --  | MP   |            |                     |
| MS34.40-06ADD       | --  | APU-MS34.40-06ADD       | --  | MP   |            |                     |
| MS34.40-12          | C   | APU-MS34.40-12          | --  | MP   |            |                     |
| MS34.40-19          | B   | APU-MS34.40-19          | --  | MP   |            |                     |
| MS34.40-21          | C   | APU-MS34.40-21          | --  | MP   |            |                     |
| MS34.40-25          | D   | APU-MS34.40-25          | --  | MP   |            |                     |
| MS34.40-28          | A   | APU-MS34.40-28          | --  | MP   |            |                     |
| MS34.40-29          | C   | APU-MS34.40-29          | --  | MP   |            |                     |
| MS34.40-30          | B   | APU-MS34.40-30          | --  | MP   |            |                     |
| MS34.40-31          | D   | APU-MS34.40-31          | --  | MP   |            |                     |
| MS34.40-33          | F   | APU-MS34.40-33          | --  | MP   |            |                     |
| MS34.40-33ADD       | --  | APU-MS34.40-33ADD       | --  | MP   |            |                     |

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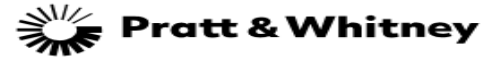
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|-------------------|-----------|-----------------------|-----------|-----------|------------|---|
| MS34.50-01        | AB        | APU-MS34.50-01        | --        | MP        | Superseded | APU-CMS4000 & APU-CMS4000ADD, See APU-MS34.50-01 for Superseded Designation to Applicable Designation Cross-reference |
| MS34.50-04        | F         | APU-MS34.50-04        | --        | MP        | Superseded | APU-CMS4000 & APU-CMS4000ADD, Applicable Designation is CMS4000 TYPE VII  |
| MS34.50-05        | D         | APU-MS34.50-05        | --        | MP        | Superseded | APU-CMS4000 & APU-CMS4000ADD, Applicable Designation is CMS4000 TYPE V  |
| MS34.50-06        | E         | APU-MS34.50-06        | --        | MP        | Superseded | APU-CMS4000 & APU-CMS4000ADD, Applicable Designation is CMS4000 TYPE VIII   |
| MS34.50-07        | C         | APU-MS34.50-07        | --        | MP        | Superseded | APU-CMS4000 & APU-CMS4000ADD, Applicable Designation is CMS4000 TYPE II   |
| <i>MS34.52-01</i> | <i>AB</i> | <i>APU-MS34.52-01</i> | <i>--</i> | <i>MP</i> |            |   |
| MS34.52-02        | T         | APU-MS34.52-02        | --        | MP        |            |   |
| MS34.52-03        | R         | APU-MS34.52-03        | --        | MP        |            |   |
| MS34.52-04        | E         | APU-MS34.52-04        | --        | MP        |            |   |
| MS34.52-05        | F         | APU-MS34.52-05        | --        | MP        | Cancelled  | Contact Pratt & Whitney   |
| MS34.52-06        | H         | APU-MS34.52-06        | --        | MP        |            |   |
| MS34.52-09        | B         | APU-MS34.52-09        | --        | MP        |            |   |
| MS34.52-12        | --        | APU-MS34.52-12        | --        | MP        |            |   |
| MS35.07           | D         | APU-MS35.07           | --        | MP        |            |   |
| MS35.11           | B         | APU-MS35.11           | --        | MP        |            |   |
| MS35.12           | C         | APU-MS35.12           | --        | MP        |            |   |
| MS37.09-01        | AE        | APU-MS37.09-01        | --        | MP        |            |   |
| MS37.14           | AD        | APU-MS37.14           | --        | MP        |            |   |
| MS37.15           | AD        | APU-MS37.15           | --        | MP        |            |   |
| MS37.15ADD        | --        | APU-MS37.15ADD        | --        | MP        |            |   |
| MS37.30           | B         | APU-MS37.30           | --        | MP        |            |   |

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|--|----------------|-----|-------------------|-----|------|------------|---------------------|
|  | MS37.30ADD     | --  | APU-MS37.30ADD    | --  | MP   |            |                     |
|  | MS37.33        | --  | APU-MS37.33       | --  | MP   |            |                     |
|  | MS38.01-04     | G   | APU-MS38.01-04    | --  | MP   | Superseded | APU-MS34.28-55      |
|  | MS38.01-05     | E   | APU-MS38.01-05    | --  | MP   |            |                     |
|  | MS38.01-05ADD  | --  | APU-MS38.01-05ADD | --  | MP   |            |                     |
|  | MS40.16        | H   | APU-MS40.16       | --  | MP   |            |                     |
|  | MS40.16ADD     | --  | APU-MS40.16ADD    | --  | MP   |            |                     |
|  | MS45.01        | E   | APU-MS45.01       | --  | MP   |            |                     |
|  | MS45.01ADD     | --  | APU-MS45.01ADD    | --  | MP   |            |                     |
|  | MS45.09        | A   | APU-MS45.09       | --  | MP   |            |                     |
|  | PN02.01        | CC  | APU-PN02.01       | --  | D    |            |                     |
|  | PN02.01-02     | D   | APU-PN02.01-02    | --  | D    |            |                     |
|  | PN02.01-03     | A   | APU-PN02.01-03    | --  | D    |            |                     |
|  | PN02.01-04     | --  | APU-PN02.01-04    | --  | D    |            |                     |
|  | PN02.01-05     | --  | APU-PN02.01-05    | --  | QS   |            |                     |
|  | PN02.02        | E   | APU-PN02.02       | --  | D    |            |                     |
|  | PN02.03        | K   | APU-PN02.03       | --  | MCL  |            |                     |
|  | PN02.04        | --  | APU-PN02.04       | --  | D    |            |                     |
|  | PN02.05        | --  | APU-PN02.05       | --  | D    |            |                     |
|  | PN02.07        | K   | APU-PN02.07       | --  | QS   |            |                     |
|  | PN02.13        | A   | APU-PN02.13       | --  | D    |            |                     |

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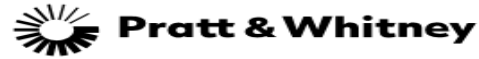
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| LEGACY SPEC NO    | REV      | EFFECTVE SPEC NO      | REV       | CODE      | STATUS    | SUPERCEDING SPEC NO     |
|-------------------|----------|-----------------------|-----------|-----------|-----------|-------------------------|
| PN02.14           | --       | APU-PN02.14           | --        | MCL       |           |                         |
| PN03.01           | B        | APU-PN03.01           | --        | D         |           |                         |
| PN03.03           | A        | APU-PN03.03           | --        | D         |           |                         |
| PN04.01-03        | A        | APU-PN04.01-03        | --        | MP        |           |                         |
| PN04.02-04        | B        | APU-PN04.02-04        | --        | QS        |           |                         |
| PN04.03           | --       | APU-PN04.03           | --        | D         |           |                         |
| PN04.05-01        | --       | APU-PN04.05-01        | --        | MP        |           |                         |
| PN05.15           | BJ       | APU-PN05.15           | --        | MP        |           |                         |
| PN05.16-01        | B        | APU-PN05.16-01        | --        | MP        | Cancelled | Contact Pratt & Whitney |
| PN05.17           | H        | APU-PN05.17           | --        | MP        |           |                         |
| PN05.19           | C        | APU-PN05.19           | --        | MP        |           |                         |
| <i>PN05.23</i>    | <i>S</i> | <i>APU-PN05.23</i>    | <i>--</i> | <i>MP</i> |           |                         |
| <i>PN05.26</i>    | <i>J</i> | <i>APU-PN05.26</i>    | <i>--</i> | <i>MP</i> |           |                         |
| <i>PN05.27</i>    | <i>B</i> | <i>APU-PN05.27</i>    | <i>--</i> | <i>MP</i> |           |                         |
| PN05.29           | AD       | APU-PN05.29           | --        | MP        |           |                         |
| <i>PN05.29-08</i> | <i>D</i> | <i>APU-PN05.29-08</i> | <i>--</i> | <i>MP</i> |           |                         |
| PN05.32           | E        | APU-PN05.32           | --        | MP        |           |                         |
| PN05.33           | C        | APU-PN05.33           | --        | MP        |           |                         |
| PN05.41           | W        | APU-PN05.41           | --        | MP        |           |                         |
| PN05.41-03        | R        | APU-PN05.41-03        | --        | MP        |           |                         |
| PN05.41-05        | C        | APU-PN05.41-05        | --        | MP        |           |                         |
| PN05.48           | B        | APU-PN05.48           | --        | MP        |           |                         |
| PN07.40           | G        | APU-PN07.40           | --        | MP        |           |                         |
| PN07.41           | M        | APU-PN07.41           | --        | MP        |           |                         |
| PN09.0000-N       | F        | APU-PN09.0000-N       | --        | MP        |           |                         |
| PN09.0000-SR-5    | C        | APU-PN09.0000-SR-5    | --        | MP        |           |                         |
| PN09.0000-SR-6    | B        | APU-PN09.0000-SR-6    | --        | MP        |           |                         |
| PN09.17-4-PH      | V        | APU-PN09.17-4-PH      | --        | MP        |           |                         |

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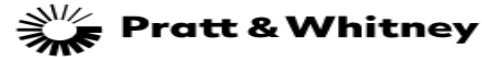
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|--|-----------------|-----|---------------------|-----|------|------------|--|
|  | PN09.17-7-PH    | C   | APU-PN09.17-7-PH    | --  | MP   |            |  |
|  | PN09.2802-A-1   | C   | APU-PN09.2802-A-1   | --  | MP   |            |  |
|  | PN09.410-HD     | C   | APU-PN09.410-HD     | --  | MP   |            |  |
|  | PN09.4140-HD    | J   | APU-PN09.4140-HD    | --  | MP   |            |  |
|  | PN09.4340-HD    | E   | APU-PN09.4340-HD    | --  | MP   |            |  |
|  | PN09.440-HFD    | D   | APU-PN09.440-HFD    | --  | MP   |            |  |
|  | PN09.52100-HDF  | G   | APU-PN09.52100-HDF  | --  | MP   |            |  |
|  | PN09.52100-HF   | D   | APU-PN09.52100-HF   | --  | MP   |            |  |
|  | PN09.52100-MF   | J   | APU-PN09.52100-MF   | --  | MP   |            |  |
|  | PN09.6419-H2D   | G   | APU-PN09.6419-H2D   | --  | MP   |            |  |
|  | PN09.6470-CN    | E   | APU-PN09.6470-CN    | --  | MP   |            |  |
|  | PN09.9310-CHDF  | B   | APU-PN09.9310-CHDF  | --  | MP   | Superseded | APU-PN099310-CHDF, See APU-PN09.9310-CHDF for Superseded Designation to Applicable Designation Cross-reference |
|  | PN09.9315-CA    | F   | APU-PN09.9315-CA    | --  | MP   |            |  |
|  | PN09.9315-CHF   | AA  | APU-PN09.9315-CHF   | --  | MP   |            |  |
|  | PN09.9315-CMF   | P   | APU-PN09.9315-CMF   | --  | MP   |            |  |
|  | PN09.CP10V-H2D2 | B   | APU-PN09.CP10V-H2D2 | --  | MP   | Superseded | APU-PN09.CP10V-H3D2  |
|  | PN09.CP10V-H3D2 | G   | APU-PN09.CP10V-H3D2 | --  | MP   |            |  |
|  | PN09.CRES-CN    | D   | APU-PN09.CRES-CN    | --  | MP   |            |  |
|  | PN09.HWDS-AC-1  | B   | APU-PN09.HWDS-AC-1  | --  | MP   |            |  |
|  | PN09.HWDS-CN    | K   | APU-PN09.HWDS-CN    | --  | MP   |            |  |
|  | PN09.HWDS-H2D-1 | F   | APU-PN09.HWDS-H2D-1 | --  | MP   |            |  |



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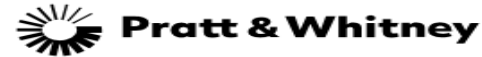
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|  | PN09.HWDS-H3D              | F                | APU-PN09.HWDS-H3D              | --               | MP               |            |  |
|  | PN09.IRON-HD               | C                | APU-PN09.IRON-HD               | --               | MP               |            |  |
|  | PN09.IRON-ND-1             | F                | APU-PN09.IRON-ND-1             | --               | MP               |            |  |
|  | PN09.PREFACE               | BR               | APU-PN09.PREFACE               | --               | MP               |            |  |
|  | PN099310-CHDF              | J                | APU-PN099310-CHDF              | --               | MP               |            |  |
|  | PN12.02                    | D                | APU-PN12.02                    | --               | MP               |            |  |
|  | PN12.03                    | J                | APU-PN12.03                    | --               | MP               |            |  |
|  | PN12.03SUPI                | A                | APU-PN12.03SUPI                | --               | MP               |            |  |
|  | PN12.03SUPII               | --               | APU-PN12.03SUPII               | --               | MP               |            |  |
|  | PN12.03SUPIII              | --               | APU-PN12.03SUPIII              | --               | MP               |            |  |
|  | PN12.03SUPIV               | B                | APU-PN12.03SUPIV               | --               | MP               |            |  |
|  | PN13.02                    | K                | APU-PN13.02                    | --               | MP               |            |  |
|  | PN13.04                    | AF               | APU-PN13.04                    | --               | MCL              |            |  |
|  | PN13.05-06                 | U                | APU-PN13.05-06                 | --               | MP               |            |  |
|  | PN13.06                    | N                | APU-PN13.06                    | --               | MP               |            |  |
|  | <b><i>PN13.08</i></b>      | <b><i>A</i></b>  | <b><i>APU-PN13.08</i></b>      | <b><i>--</i></b> | <b><i>MP</i></b> |            |  |
|  | PN13.12-03                 | F                | APU-PN13.12-03                 | --               | MP               |            |  |
|  | PN13.17                    | K                | APU-PN13.17                    | --               | MCL              |            |  |
|  | PN14.05-01                 | H                | APU-PN14.05-01                 | --               | MP               |            |  |
|  | <b><i>PN14.05-01S1</i></b> | <b><i>--</i></b> | <b><i>APU-PN14.05-01S1</i></b> | <b><i>--</i></b> | <b><i>MP</i></b> |            | <b><i>Contact Pratt &amp; Whitney</i></b>  |
|  | PN14.05A                   | R                | APU-PN14.05A                   | --               | MP               | Superseded | APU-PN14.05-01   |
|  | PN14.06-01                 | AA               | APU-PN14.06-01                 | --               | MP               | Superseded | APU-CPS1000, See APU-PN14.06-01 for Superseded Designation to Applicable Designation Cross-reference |
|  | PN14.06-02                 | --               | APU-PN14.06-02                 | --               | MP               |            |  |
|  | PN14.06-03                 | B                | APU-PN14.06-03                 | --               | MP               |            |  |

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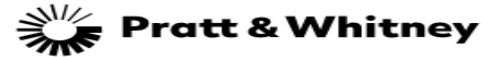
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|  | LEGACY SPEC NO    | REV      | EFFECTVE SPEC NO      | REV | CODE      | STATUS     | SUPERCEDING SPEC NO |
|--|-------------------|----------|-----------------------|-----|-----------|------------|---------------------|
|  | <i>PN14.08-01</i> | <i>B</i> | <i>APU-PN14.08-01</i> | --  | <i>MP</i> |            |                     |
|  | PN14.08-02        | B        | APU-PN14.08-02        | --  | MP        |            |                     |
|  | PN14.10           | AB       | APU-PN14.10           | --  | MP        |            |                     |
|  | PN14.10-01        | C        | APU-PN14.10-01        | --  | MP        | Superseded | APU-PN14.10         |
|  | PN14.12           | AH       | APU-PN14.12           | --  | MP        |            |                     |
|  | PN14.13           | --       | APU-PN14.13           | --  | MP        |            |                     |
|  | PN14.16-03        | AA       | APU-PN14.16-03        | --  | MP        |            |                     |
|  | PN14.16-04        | F        | APU-PN14.16-04        | --  | MP        |            |                     |
|  | PN14.30           | L        | APU-PN14.30           | --  | MP        |            |                     |
|  | PN14.40           | G        | APU-PN14.40           | --  | MP        |            |                     |
|  | PN14.50           | BA       | APU-PN14.50           | --  | MP        |            |                     |
|  | PN14.50-03        | P        | APU-PN14.50-03        | --  | MP        |            |                     |
|  | PN14.52           | H        | APU-PN14.52           | --  | MP        |            |                     |
|  | PN14.52-02        | A        | APU-PN14.52-02        | --  | MP        |            |                     |
|  | PN14.55           | --       | APU-PN14.55           | --  | MP        |            |                     |
|  | PN14.58           | K        | APU-PN14.58           | --  | MP        |            |                     |
|  | PN14.59           | F        | APU-PN14.59           | --  | MP        |            |                     |
|  | PN15.01           | AV       | APU-PN15.01           | --  | MP        |            |                     |
|  | PN15.01-03        | C        | APU-PN15.01-03        | --  | MP        |            |                     |
|  | PN15.10           | D        | APU-PN15.10           | --  | MCL       |            |                     |
|  | PN15.12           | W        | APU-PN15.12           | --  | MP        |            |                     |
|  | PN15.32           | R        | APU-PN15.32           | --  | MP        |            |                     |
|  | PN15.34           | B        | APU-PN15.34           | --  | MP        |            |                     |
|  | PN15.40           | V        | APU-PN15.40           | --  | MP        |            |                     |
|  | PN15.40-01        | A        | APU-PN15.40-01        | --  | MP        |            |                     |
|  | PN15.40-02        | --       | APU-PN15.40-02        | --  | MP        |            |                     |
|  | PN15.40-03        | --       | APU-PN15.40-03        | --  | MP        |            |                     |
|  | PN15.43           | P        | APU-PN15.43           | --  | MCL       |            |                     |

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|-----------------------|----------|---------------------------|-----------|-----------|------------|------------------------------------|
| PN15.47               | L        | APU-PN15.47               | --        | MP        |            |                                    |
| <i>PN15.52-01</i>     | <i>B</i> | <i>APU-PN15.52-01</i>     | <i>--</i> | <i>D</i>  |            | <i>Contact Pratt &amp; Whitney</i> |
| PN15.55               | Y        | APU-PN15.55               | --        | MP        |            |                                    |
| PN15.66               | F        | APU-PN15.66               | --        | MP        |            |                                    |
| PN15.67               | E        | APU-PN15.67               | --        | MCL       |            |                                    |
| PN15.71               | A        | APU-PN15.71               | --        | MP        |            |                                    |
| PN16.01               | AL       | APU-PN16.01               | --        | QS        |            |                                    |
| PN16.01-01            | C        | APU-PN16.01-01            | --        | QS        |            |                                    |
| PN16.03               | AV       | APU-PN16.03               | --        | QS        |            |                                    |
| PN16.03-01            | D        | APU-PN16.03-01            | --        | QS        |            |                                    |
| <i>PN16.03-02</i>     | <i>B</i> | <i>APU-PN16.03-02</i>     | <i>--</i> | <i>QS</i> |            | <i>Contact Pratt &amp; Whitney</i> |
| <i>PN16.03-02SUP1</i> | <i>B</i> | <i>APU-PN16.03-02SUP1</i> | <i>--</i> | <i>QS</i> |            | <i>Contact Pratt &amp; Whitney</i> |
| PN16.03-04            | B        | APU-PN16.03-04            | --        | QS        |            |                                    |
| PN16.03-07            | A        | APU-PN16.03-07            | --        | QS        |            |                                    |
| PN16.04               | AM       | APU-PN16.04               | --        | QS        |            |                                    |
| PN16.05               | AJ       | APU-PN16.05               | --        | QS        |            |                                    |
| <i>PN16.05SUP1</i>    | <i>A</i> | <i>APU-PN16.05SUP1</i>    | <i>--</i> | <i>QS</i> |            | <i>Contact Pratt &amp; Whitney</i> |
| PN16.06               | Y        | APU-PN16.06               | --        | QS        |            |                                    |
| PN16.06-03            | D        | APU-PN16.06-03            | --        | QS        |            |                                    |
| PN16.16               | --       | APU-PN16.16               | --        | MCL       |            |                                    |
| PN16.17               | G        | APU-PN16.17               | --        | MCL       |            |                                    |
| PN16.19               | C        | APU-PN16.19               | --        | MCL       |            |                                    |
| PN16.21               | A        | APU-PN16.21               | --        | D         |            |                                    |
| PN17.09-01            | V        | APU-PN17.09-01            | --        | MP        |            |                                    |
| PN17.10-06            | B        | APU-PN17.10-06            | --        | MP        |            |                                    |
| PN17.10-13            | D        | APU-PN17.10-13            | --        | MP        | Superseded | APU-PN17.10-15                     |
| PN17.10-14            | H        | APU-PN17.10-14            | --        | MP        |            |                                    |

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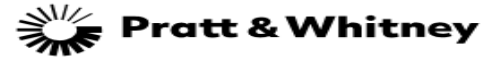
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|--|----------------|-----|------------------|-----|------|------------|---------------------|
|  | PN17.10-15     | F   | APU-PN17.10-15   | --  | MP   |            |                     |
|  | PN17.10-17     | D   | APU-PN17.10-17   | --  | MP   |            |                     |
|  | PN17.10-26     | D   | APU-PN17.10-26   | --  | MP   |            |                     |
|  | PN17.10-29     | D   | APU-PN17.10-29   | --  | MP   |            |                     |
|  | PN17.10-31     | E   | APU-PN17.10-31   | --  | MP   |            |                     |
|  | PN17.10-34     | B   | APU-PN17.10-34   | --  | MP   |            |                     |
|  | PN17.10-39     | A   | APU-PN17.10-39   | --  | MP   |            |                     |
|  | PN17.10-42     | C   | APU-PN17.10-42   | --  | MP   |            |                     |
|  | PN17.10-43     | C   | APU-PN17.10-43   | --  | MP   |            |                     |
|  | PN17.10-45     | A   | APU-PN17.10-45   | --  | MP   |            |                     |
|  | PN17.10-46     | A   | APU-PN17.10-46   | --  | MP   |            |                     |
|  | PN17.10-49     | A   | APU-PN17.10-49   | --  | MP   |            |                     |
|  | PN17.24        | F   | APU-PN17.24      | --  | PPS  |            |                     |
|  | PN17.26-04     | F   | APU-PN17.26-04   | --  | MP   |            |                     |
|  | PN17.26-09     | A   | APU-PN17.26-09   | --  | MP   |            |                     |
|  | PN17.26-10     | AA  | APU-PN17.26-10   | --  | PPS  |            |                     |
|  | PN17.27-13     | C   | APU-PN17.27-13   | --  | MP   |            |                     |
|  | PN17.28-05     | B   | APU-PN17.28-05   | --  | MP   | Superseded | APU-PN17.10-49      |
|  | PN17.31        | W   | APU-PN17.31      | --  | PPS  |            |                     |
|  | PN17.33        | Y   | APU-PN17.33      | --  | D    |            |                     |
|  | PN17.33-01     | C   | APU-PN17.33-01   | --  | D    |            |                     |
|  | PN17.36        | AM  | APU-PN17.36      | --  | D    |            |                     |
|  | PN17.36-03     | --  | APU-PN17.36-03   | --  | D    |            |                     |
|  | PN17.42        | T   | APU-PN17.42      | --  | D    |            |                     |
|  | PN17.43        | D   | APU-PN17.43      | --  | D    |            |                     |
|  | PN17.50        | DN  | APU-PN17.50      | A   | D    |            |                     |
|  | PN17.50-01     | L   | APU-PN17.50-01   | --  | D    |            |                     |
|  | PN17.51        | G   | APU-PN17.51      | --  | PPS  |            |                     |

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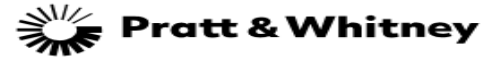
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|--|----------------|-----|------------------|-----|------|------------|---------------------|
|  | PN17.53        | M   | APU-PN17.53      | --  | PPS  |            |                     |
|  | PN17.70-01     | AG  | APU-PN17.70-01   | --  | D    |            |                     |
|  | PN17.70-02     | F   | APU-PN17.70-02   | --  | D    |            |                     |
|  | PN17.70-03     | H   | APU-PN17.70-03   | --  | D    |            |                     |
|  | PN17.70-06     | C   | APU-PN17.70-06   | --  | D    |            |                     |
|  | PN17.70-07     | C   | APU-PN17.70-07   | --  | D    |            |                     |
|  | PN18.03        | L   | APU-PN18.03      | --  | D    |            |                     |
|  | PN18.06        | --  | APU-PN18.06      | --  | D    |            |                     |
|  | PN19.54        | --  | APU-PN19.54      | --  | PPS  |            |                     |
|  | PN19.59        | --  | APU-PN19.59      | --  | MP   |            |                     |
|  | PN23.01        | A   | APU-PN23.01      | --  | D    |            |                     |
|  | PN26.03        | F   | APU-PN26.03      | --  | MP   |            |                     |
|  | PN26.03-01     | K   | APU-PN26.03-01   | --  | MP   |            |                     |
|  | PN26.04        | U   | APU-PN26.04      | --  | PPS  | Superseded | APU-PN26.05-01      |
|  | PN26.04-01     | G   | APU-PN26.04-01   | --  | PPS  | Superseded | APU-PN26.05-01      |
|  | PN26.05        | L   | APU-PN26.05      | --  | PPS  | Superseded | APU-PN26.05-01      |
|  | PN26.05-01     | AF  | APU-PN26.05-01   | --  | PPS  |            |                     |
|  | PN26.06        | --  | APU-PN26.06      | --  | PPS  |            |                     |
|  | PN26.07        | J   | APU-PN26.07      | --  | PPS  |            |                     |
|  | PN26.09        | M   | APU-PN26.09      | --  | PPS  | Superseded | APU-PN26.05-01      |
|  | PN26.09-01     | C   | APU-PN26.09-01   | --  | PPS  | Superseded | APU-PN26.05-01      |
|  | PN26.10        | B   | APU-PN26.10      | --  | PPS  |            |                     |
|  | PN26.11        | E   | APU-PN26.11      | --  | PPS  |            |                     |
|  | PN26.12        | K   | APU-PN26.12      | --  | PPS  | Superseded | APU-PN26.05-01      |
|  | PN26.13        | C   | APU-PN26.13      | --  | PPS  |            |                     |
|  | PN29.03        | D   | APU-PN29.03      | --  | D    |            |                     |
|  | PN29.07        | A   | APU-PN29.07      | --  | MP   |            |                     |
|  | PN29.08        | A   | APU-PN29.08      | --  | MP   |            |                     |

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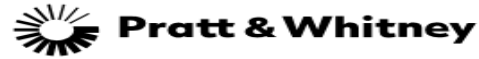
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|------------------|----------|----------------------|-----------|-----------|--------|---------------------|
| PN29.12          | --       | APU-PN29.12          | --        | D         |        |                     |
| PN29.13          | A        | APU-PN29.13          | --        | MCL       |        |                     |
| PN30.01          | F        | APU-PN30.01          | --        | PPS       |        |                     |
| PN30.03          | A        | APU-PN30.03          | --        | MP        |        |                     |
| PN43.01          | B        | APU-PN43.01          | --        | MP        |        |                     |
| PS30.01          | L        | APU-PS30.01          | --        | MP        |        |                     |
| QC13.01-03       | V        | APU-QC13.01-03       | --        | MCL       |        |                     |
| QC13.02          | L        | APU-QC13.02          | --        | MCL       |        |                     |
| SP1236           | 4        | APU-SP1236           | --        | MCL       |        |                     |
| ST2100           | C        | APU-ST2100           | --        | D         |        |                     |
| ST2307           | C        | APU-ST2307           | --        | D         |        |                     |
| <i>SVHS14130</i> | <i>D</i> | <i>APU-SVHS14130</i> | <i>--</i> | <i>MP</i> |        |                     |
| <i>SVHS15460</i> | <i>C</i> | <i>APU-SVHS15460</i> | <i>--</i> | <i>MP</i> |        |                     |
| <i>SVHS3717</i>  | <i>F</i> | <i>APU-SVHS3717</i>  | <i>--</i> | <i>D</i>  |        |                     |
| TRR3154          | NC       | APU-TRR3154          | --        | CRS       |        |                     |
| TS2491           | D        | APU-TS2491           | --        | CTP       |        |                     |
| TS5030           | D        | APU-TS5030           | --        | CTP       |        |                     |
| TS5372           | C        | APU-TS5372           | --        | CTP       |        |                     |
| TS5515           | C        | APU-TS5515           | --        | CTP       |        |                     |
| PN29.03          | D        | APU-PN29.03          | --        | D         |        |                     |
| PN29.07          | A        | APU-PN29.07          | --        | MP        |        |                     |
| PN29.08          | A        | APU-PN29.08          | --        | MP        |        |                     |
| PN29.12          | --       | APU-PN29.12          | --        | D         |        |                     |
| PN29.13          | A        | APU-PN29.13          | --        | MCL       |        |                     |
| PN30.01          | F        | APU-PN30.01          | --        | PPS       |        |                     |
| PN30.03          | A        | APU-PN30.03          | --        | MP        |        |                     |
| PN43.01          | B        | APU-PN43.01          | --        | MP        |        |                     |
| PS30.01          | L        | APU-PS30.01          | --        | MP        |        |                     |

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|------------------|----------|----------------------|-----------|-----------|--------|---------------------|
| QC13.01-03       | V        | APU-QC13.01-03       | --        | MCL       |        |                     |
| QC13.02          | L        | APU-QC13.02          | --        | MCL       |        |                     |
| SP1236           | 4        | APU-SP1236           | --        | MCL       |        |                     |
| ST2100           | C        | APU-ST2100           | --        | D         |        |                     |
| ST2307           | C        | APU-ST2307           | --        | D         |        |                     |
| <i>SVHS14130</i> | <i>D</i> | <i>APU-SVHS14130</i> | <i>--</i> | <i>MP</i> |        |                     |
| <i>SVHS15460</i> | <i>C</i> | <i>APU-SVHS15460</i> | <i>--</i> | <i>MP</i> |        |                     |
| <i>SVHS3717</i>  | <i>F</i> | <i>APU-SVHS3717</i>  | <i>--</i> | <i>D</i>  |        |                     |
| TRR3154          | NC       | APU-TRR3154          | --        | CRS       |        |                     |
| TS2491           | D        | APU-TS2491           | --        | CTP       |        |                     |
| TS5030           | D        | APU-TS5030           | --        | CTP       |        |                     |
| TS5372           | C        | APU-TS5372           | --        | CTP       |        |                     |
| TS5515           | C        | APU-TS5515           | --        | CTP       |        |                     |

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Updated Quarterly - January, April, July, October

This document does not contain any export regulated technical data.

Quality Requirements Engineering Specifications Standards

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| <u>APU CH53-K Composites</u> |  |
|------------------------------|--|
| APU VIS-1                    |  |

| <u>Bond Inspection Standards</u> |                         |
|----------------------------------|-------------------------|
| BIS-1K                           |                         |
| BIS-3A                           |                         |
| BIS-4E                           | Redacted                |
| BIS-6C                           | Cancelled - Use VIS-114 |
| BIS-7C                           | Cancelled - Use VIS-114 |
| BIS-9C                           |                         |
| BIS-10B                          |                         |
| BIS-11C                          |                         |
| BIS-12A                          |                         |
| BIS-13B                          |                         |
| BIS-14B                          |                         |
| BIS-16                           |                         |
| BIS-17A                          |                         |

| <u>Composite Inspection Standard</u> |              |
|--------------------------------------|--------------|
| CIS-1F                               | New Standard |

| <u>Contamination Detection Standards</u> |                                  |
|--|----------------------------------|
| CDS-1B                                   |                                  |
| CDS-2D                                   | Cancelled - Use VIS-322 & VIS-23 |
| CDS-3D                                   |                                  |
| CDS-4A                                   |                                  |

| <u>Crystallographic Verification Standards</u> |                        |
|--|------------------------|
| CVS-1A   | Cancelled - Use CVS-12 |
| CVS-2F   | Cancelled - Use CVS-12 |
| CVS-4E   |                        |
| CVS-6P   | Cancelled - Use CVS-12 |
| CVS-8E   | Cancelled - Use CVS-12 |
| CVS-9B   | Cancelled - Use CVS-12 |
| CVS-10A  |                        |
| CVS-11A  |                        |
| CVS-12T  |                        |
| CVS-13B  | Cancelled - Use CVS-12 |
| CVS-14   | New                    |
| CVS-15B  |                        |

| <u>Dimensional Control Standards</u> |  |
|--------------------------------------|--|
| Preface B                            |  |
| 1 Master P                           |  |
| 1-1M                                 |  |
| DCS-1-1.1D                           |  |
| DCS-1.1.2C                           |  |
| DCS-1.13F                            |  |
| DCS-1-1.4D                           |  |
| DCS-1-1.5D                           |  |
| DCS-1-1.6D                           |  |
| DCS-1-1.7E                           |  |
| DCS-1-3G                             |  |
| DCS-1-4C                             |  |
| DCS-1-5D                             |  |
| DCS-1-6B                             |  |
| DCS-1-7E                             |  |
| DCS-1-8D                             |  |
| DCS-1-9B                             |  |
| DCS-1-10D                            |  |
| DCS-1-11C                            |  |
| DCS-1-12C                            |  |
| DCS-1-13B                            |  |
| DCS-1-14D                            |  |
| DCS-1-15C                            |  |
| DCS-1-16C                            |  |
| DCS-1-17C                            |  |
| DCS-1-18C                            |  |



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| <u>APU CH53-K Composites</u> |                                     |
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| APU VIS-1                    |                                     |
| DCS-1-19B                    |                                     |
| DCS-1-20B                    |                                     |
| DCS-1-21B                    |                                     |
| DCS-1-22B                    |                                     |
| DCS-1-23B                    |                                     |
| DCS-1-24D                    |                                     |
| DCS-1-25E                    |                                     |
| DCS-1-26B                    |                                     |
| DCS-1-27D                    |                                     |
| DCS-1-28C                    |                                     |
| DCS-1-29D                    |                                     |
| DCS-1-30B                    |                                     |
| DCS-1-31E                    |                                     |
| DCS-1-32D                    |                                     |
| DCS-1-33D                    |                                     |
| DCS-1-33D                    |                                     |
| DCS-1-34D                    |                                     |
| DCS-1-35D                    |                                     |
| DCS-1-36F                    |                                     |
| DCS-1-37C                    |                                     |
| DCS-1-38D                    |                                     |
| DCS-1-39G                    |                                     |
| DCS-1-40C                    |                                     |
| DCS-1-41D                    |                                     |
| DCS-1-42C                    |                                     |
| DCS-1-43C                    |                                     |
| DCS-1-44C                    |                                     |
| DCS-1-45B                    |                                     |
| DCS-1-46B                    |                                     |
| DCS-1-47C                    |                                     |
| DCS-1-48C                    |                                     |
| DCS-1-49D                    |                                     |
| DCS-1-50C                    |                                     |
| DCS-1-51D                    |                                     |
| DCS-1-52D                    |                                     |
| DCS-1-53C                    |                                     |
| DCS-1-54B                    |                                     |
| DCS-1-55E                    |                                     |
| DCS-1-56E                    |                                     |
| DCS-1-57K                    |                                     |
| DCS-1-58T                    |                                     |
| DCS-1-59H                    |                                     |
| DCS-1-60J                    |                                     |
| DCS-1-61E                    |                                     |
| DCS-1-62G                    |                                     |
| DCS-1-63G                    |                                     |
| DCS-1-64H                    |                                     |
| DCS-1-65H                    |                                     |
| DCS-1-66H                    |                                     |
| DCS-1-67G                    |                                     |
| DCS-1-68F                    |                                     |
| DCS-1-69F                    |                                     |
| DCS-1-70D                    |                                     |
| DCS-1-71D                    |                                     |
| DCS-1-72B                    |                                     |
| DCS-1-73E                    |                                     |
| DCS-1-74B                    |                                     |
| DCS-1-75A                    |                                     |
| DCS-1-76Y                    |                                     |
| DCS-1-100E                   |                                     |
| DCS-1-101E                   |                                     |
| DCS-1-102E                   |                                     |
| DCS-1-103D                   |                                     |
| DCS-1-104D                   |                                     |
| DCS-1-105D                   |                                     |
| DCS-1-106F                   |                                     |
| DCS-1-150D                   | Obsoleted - No further requirements |
| DCS-1-151B                   | Obsoleted - No further requirements |
| DCS-1-152A                   | Obsoleted - No further requirements |

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|------------------------------|-------------------------------------|
| APU VIS-1                    |                                     |
| DSC-197                      | New                                 |
| DCS-1-200D                   |                                     |
| DCS-1-201A                   |                                     |
| DCS-1-202B                   |                                     |
| DCS-1-203B                   |                                     |
| DCS-1-204A                   |                                     |
| DCS-1-205D                   |                                     |
| DCS-1-206A                   |                                     |
| DCS-1-207A                   |                                     |
| DCS-1-208B                   |                                     |
| DCS-1-209D                   |                                     |
| DCS-1-210A                   |                                     |
| DCS-1-211H                   |                                     |
| DCS-1-212F                   |                                     |
| DCS-1-213C                   |                                     |
| DCS-1-214B                   |                                     |
| DCS-1-215K                   |                                     |
| DCS-1-216T                   |                                     |
| DCS-1-217L                   |                                     |
| DCS-1-218C                   |                                     |
| DCS-1-219M                   |                                     |
| DCS-1-220D                   | Obsoleted - Use DCS-1-219           |
| DCS-1-250A                   |                                     |
| DCS-1-251B                   |                                     |
| DCS-1-260B                   | Obsoleted - No further requirements |
| DCS-1-261B                   | Obsoleted - No further requirements |
| DCS-2A                       | Cancelled - No longer required      |
| DCS-3L                       |                                     |
| DCS-4A                       | Obsoleted - Use DCS-1               |
| DCS-5A                       | Obsoleted - Use QEP 7.2.33          |
| DCS-6                        | Obsoleted - Use PW-QA-6080          |
| DCS-7 Master D               |                                     |
| DCS-7-1A                     |                                     |
| DCS-7-2A                     |                                     |
| DCS-7-3A                     |                                     |
| DCS-7-4A                     |                                     |
| DCS-7-5A                     |                                     |
| DCS-7-6A                     |                                     |
| DCS-7-7A                     |                                     |
| DCS-7-8A                     |                                     |
| DCS-7-9A                     |                                     |
| DCS-7-10A                    |                                     |
| DCS-7-11B                    |                                     |
| DCS-7-12A                    |                                     |
| DCS-7-12.1A                  |                                     |
| DCS-7-12.2A                  |                                     |
| DCS-7-13A                    |                                     |
| DCS-7-14A                    |                                     |
| DCS-7-15A                    |                                     |
| DCS-7-16A                    |                                     |
| DCS-7-17A                    |                                     |
| DCS-7-18A                    |                                     |
| DCS-7-19A                    |                                     |
| DCS-7-20A                    |                                     |
| DCS-7-30A                    |                                     |
| DCS-7-40A                    |                                     |
| DCS-7-48A                    |                                     |
| DCS-7-49A                    |                                     |
| DCS-7-50A                    |                                     |
| DCS-7-51A                    |                                     |
| DCS-7-52A                    |                                     |
| DCS-7-53A                    |                                     |
| DCS-7-54A                    |                                     |
| DCS-7-55A                    |                                     |
| DCS-7-55.1A                  |                                     |
| DCS-7-56A                    |                                     |
| DCS-7-57A                    |                                     |
| DCS-7-57.1A                  |                                     |
| DCS-7-57.2A                  |                                     |

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| APU VIS-1                    |  |
| DCS-7.58A                    |  |
| DCS-7.59A                    |  |
| DCS-7.60A                    |  |
| DCS-7.61A                    |  |
| DCS-7.62A                    |  |
| DCS-7.63A                    |  |
| DCS-7.64A                    |  |
| DCS-7.65A                    |  |
| DCS-7.70A                    |  |
| DCS-7.80A                    |  |
| DCS-8 Master L               |  |
| DCS-8-1E                     |  |
| DCS-8-2B                     | Cancelled - Use DCM 8-2                          |
| DCS-8-3L                     |  |
| DCS-8-4B                     |  |
| DCS-8-5B                     |  |
| DCS-8-6B                     |  |
| DCS-8-7C                     |  |
| DCS-8-8A                     |  |
| DCS-8-9D                     | Cancelled - Use DCM-8                            |
| DCS-8-10A                    |  |
| DCS-8-11A                    |  |
| DCS-8-12C                    |  |
| DCS-8-13A                    |  |
| DCS-8-14A                    | Obsoleted  |
| DCS-8-15B                    |  |
| DCS-8-17C                    |  |
| DCS-8-18B                    |  |
| DCS-8-19C                    |  |
| DCS-8-20A                    |  |
| DCS-8-21A                    |  |
| DCS-8-22A                    |  |
| DCS-8-23A                    |  |
| DCS-8-25A                    |  |
| DCS-8-26A                    |  |
| DCS-8-27B                    |  |
| DCS-8-28A                    |  |
| DCS-8-29A                    |  |
| DCS-8-30A                    |  |
| DCS-8-31A                    |  |
| DCS-8-32A                    |  |
| DCS-8-33A                    |  |
| DCS-8-34A                    |  |
| DCS-8-35A                    | Cancelled - No further requirements              |
| DCS-8-36A                    | Cancelled-Functional Test requirments-F404 parts |
| DCS-8-37A                    |  |
| DCS-8-38A                    |  |
| DCS-8-39A                    |  |
| DCS-9B                       | Obsoleted - No longer required                   |
| DCS-10M                      |  |
| DCS-12D                      |  |
| DCS-13D                      |  |
| DCS-14F                      | Cancelled - Use ASQR-01                          |
| DCS-15A                      | Obsoleted  |
| DCS-16A                      | Cancelled - Use HIM-1                            |
| DCS-17 Master D              | Cancelled - Use HIM-1                            |
| DCS-17-1                     | Cancelled - Use HIM-1                            |
| DCS-17-2                     | Cancelled - Use HIM-1                            |
| DCS-17-3A                    | Cancelled - Use HIM-1                            |
| DCS-17-4                     | Cancelled - Use HIM-1                            |
| DCS-17-5                     | Cancelled - Use HIM-1                            |
| DCS-17-6                     | Cancelled - Use HIM-1                            |
| DCS17-7A                     | Cancelled - Use HIM-1                            |
| DCS17-9                      |  |
| DCS-18-C                     |  |
| DCS-20-G                     |  |
| DCS-22A                      | Obsoleted  |
| DCS-23W                      |  |
| DCS-24                       | Obsoleted  |

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|------------------------------|--|
| APU VIS-1                    |  |
| DCS-25A                      | Obsoleted                                      |
| DCS-27B                      | Obsoleted - No longer required                 |
| DCS-28A                      | Obsoleted                                      |
| DCS-29E                      |  |
| DCS-30A                      | Cancelled - Use PWA 360                        |
| DCS-31C                      |  |
| DCS-33A                      | Obsoleted                                      |
| DCS-34E                      |  |
| DCS-35C                      |  |
| DCS-36A                      | Obsoleted                                      |
| DCS-37H                      |  |
| DCS-38C                      |  |
| DCS-39B                      |  |
| DCS-40C                      |  |
| DCS-41F                      |  |
| DCS-42D                      |  |
| DCS-43C                      |  |
| DCS-44H                      |  |
| DCS-46A                      |  |
| DCS-47B                      | Cancelled                                      |
| DCS-48H                      |  |
| DCS-49A                      | Obsoleted                                      |
| DCS-50B                      |  |
| DCS-51F                      |  |
| DCS-52E                      |  |
| DCS-53C                      |  |
| DCS-54D                      |  |
| DCS-56G                      |  |
| DCS-57D                      |  |
| DCS-58D                      | Cancelled - Use PWA 350                        |
| DCS-59C                      | Cancelled                                      |
| DCS-60E                      |  |
| DCS-60 Appendix AU           |  |
| DCS-61B                      |  |
| DCS-63B                      | Obsoleted - No longer required                 |
| DCS-64B                      | Cancelled - Use DCM 2                          |
| DCS-65B                      | Cancelled                                      |
| DCS-68D                      |  |
| DCS-68B Appendix             | Redacted                                       |
| DCS-71D                      |  |
| DCS-72D                      |  |
| DCS-75C                      | Cancelled                                      |
| DCS-76B                      |  |
| DCS-77C                      | Cancelled                                      |
| DCS-78A                      | Obsoleted - No further requirements            |
| DCS-79B                      | Cancelled                                      |
| DCS-80                       | Cancelled - Use PWA 355                        |
| DCS-83                       | Obsoleted - No further requirements            |
| DCS-85A                      | Cancelled-No longer required due to ECR system |
| DCS-85B Appendix             |  |
| DCS-86B                      | Cancelled                                      |
| DCS-88A                      | Cancelled - Use ASQR-01                        |
| DCS-89B                      | Cancelled                                      |
| DCS-90A                      | Cancelled                                      |
| DCS-91A                      | Cancelled                                      |
| DCS-92J                      |  |
| DCS-94A                      | Cancelled - Use PWA-310                        |
| DCS-95D                      |  |
| DCS-98B                      | Cancelled                                      |
| DCS-99A                      | Cancelled - Use PWA-357                        |
| DCS-101B                     |  |
| DCS-104B                     | Cancelled - Use VIS-454                        |
| DCS-105A                     | Cancelled - Use ASQ                            |
| DCS-106B                     |  |
| DCS-107A                     |  |
| DCS-108A                     | Obsoleted - No longer required                 |
| DCS-109B                     |  |
| DCS-109 App. C               |  |
| DCS-110B                     | Cancelled - Use DCM-5                          |

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| APU VIS-1                    |                                |
| DCS-111-1A                   | Obsoleted - No longer required |
| DCS-111-2A                   | Obsoleted - No longer required |
| DCS-111-3A                   | Obsoleted - No longer required |
| DCS-111-4A                   | Obsoleted - No longer required |
| DCS-111-5A                   | Obsoleted - No longer required |
| DCS-111-6A                   | Obsoleted - No longer required |
| DCS-111-7A                   | Obsoleted - No longer required |
| DCS-111-8A                   | Obsoleted - No longer required |
| DCS-111-9A                   | Obsoleted - No longer required |
| DCS-111-10A                  | Obsoleted - No longer required |
| DCS-111-12A                  | Obsoleted - No longer required |
| DCS-111-13A                  | Obsoleted - No longer required |
| DCS-111-14A                  | Obsoleted - No longer required |
| DCS-111-15A                  | Obsoleted - No longer required |
| DCS-111-16A                  | Obsoleted - No longer required |
| DCS-111-17A                  | Obsoleted - No longer required |
| DCS-111-18A                  | Obsoleted - No longer required |
| DCS-111-19A                  | Obsoleted - No longer required |
| DCS-111-20C                  | Obsoleted - No longer required |
| DCS-111-21A                  | Obsoleted - No longer required |
| DCS-111-25A                  | Obsoleted - No longer required |
| DCS-111-28A                  | Obsoleted - No longer required |
| DCS-111-29A                  | Obsoleted - No longer required |
| DCS-111-31A                  | Obsoleted - No longer required |
| DCS-119B                     |                                |
| DCS-120B                     |                                |
| DCS-120A Appendix            |                                |
| DCS-121A                     |                                |
| DCS-123C                     |                                |
| DCS-123C Appendix            |                                |
| DCS-124A                     | Cancelled                      |
| DCS-125D                     |                                |
| DCS-126B                     |                                |
| DCS-127A                     |                                |
| DCS-129A                     |                                |
| DCS-130A                     |                                |
| DCS-131C                     |                                |
| DCS-132A                     |                                |
| DCS-133B                     |                                |
| DCS-135B                     | Obsoleted - No longer required |
| DCS-139A                     | Obsoleted - No longer required |
| DCS-140A                     |                                |
| DCS-141B                     |                                |
| DCS-142A                     |                                |
| DCS-145B                     |                                |
| DCS-145 Appendix A           |                                |
| DCS-146B                     |                                |
| DCS-148B                     |                                |
| DCS-149H                     |                                |
| DCS-150B                     |                                |
| DCS-151A                     |                                |
| DCS-152C                     |                                |
| DCS-153D                     |                                |
| DCS-154C                     |                                |
| DCS-155C                     |                                |
| DCS-156D                     |                                |
| DCS-157A                     |                                |
| DCS-158A                     |                                |
| DCS-159A                     | Cancelled                      |
| DCS-161C                     |                                |
| DCS-162A                     |                                |
| DCS-163E                     |                                |
| DCS-164A                     | Cancelled                      |
| DCS-165E                     |                                |
| DCS-166A                     |                                |
| DCS-167A                     |                                |
| DCS-168A                     |                                |
| DCS-169B                     |                                |
| DCS-170A                     |                                |

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| APU VIS-1                    |                 |
| DCS-171A                     |                 |
| DCS-172B                     |                 |
| DCS-173F                     | Redacted        |
| DCS-174F                     |                 |
| DCS-174 App. JU              |                 |
| DCS-175C                     |                 |
| DCS-176C                     |                 |
| DCS-177A                     |                 |
| DCS-178G                     |                 |
| DCS-179B                     |                 |
| DCS-181A                     |                 |
| DCS-182A                     |                 |
| DCS-183A                     |                 |
| DCS-184B                     |                 |
| DCS-186C                     |                 |
| DCS-187C                     |                 |
| DCS-189A                     | Cancelled       |
| DCS-190A                     |                 |
| DCS-191A                     |                 |
| DCS-193A                     |                 |
| DCS-194C                     |                 |
| DCS-195A                     |                 |
| DCS-196A                     |                 |
| DCS-199                      | New             |
| DCS-197B                     |                 |
| DCS-198A                     |                 |
| DCS-200A                     | New             |
| DCS-203A                     |                 |
| DCS-205E                     |                 |
| DCS-206                      | New             |
| DCS-212                      | Initial Release |
| DCS-213                      | New             |
| DCS-214                      | New             |
| DCS-216                      | Initial Release |
| DCS-217                      | Initial Release |
| DCS-218                      | Initial Release |
| DCS-220                      | Initial Release |
| DCS-221                      |                 |
| DCS-300A                     | Cancelled       |
| DCS-302A                     | Obsoleted       |
| DCS-303G                     | Cancelled       |
| DCS-304E                     |                 |

| <u>Eddy Current Standards</u> |                                |
|-------------------------------|--------------------------------|
| ECS-Master-C                  |                                |
| ECS-1D                        |                                |
| ECS-2B                        |                                |
| ECS-3A                        | Cancelled                      |
| ECS-4C                        |                                |
| ECS-5C                        |                                |
| ECS-6C                        |                                |
| ECS-7C                        |                                |
| ECS-8C                        |                                |
| ECS-9D                        |                                |
| ECS-10F                       |                                |
| ECS-11C                       |                                |
| ECS-12B                       |                                |
| ECS-15C                       |                                |
| ECS-16B                       |                                |
| ECS-18G                       |                                |
| ECS-20B                       | Obsoleted - No longer required |
| ECS-21A                       | Obsoleted - No longer required |
| ECS-22D                       | Obsoleted - No longer required |
| ECS-23A                       | Obsoleted - No longer required |
| ECS-24A                       | Obsoleted - No longer required |
| ECS-25A                       | Obsoleted - No longer required |
| ECS-26A                       | Obsoleted - No longer required |
| ECS-27A                       | Obsoleted - No longer required |

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| APU VIS-1                    |                                |
| ECS-28B                      | Obsoleted - No longer required |
| ECS-29C                      | Obsoleted - No longer required |
| ECS-30B                      | Obsoleted - No longer required |
| ECS-31A                      | Obsoleted - No longer required |
| ECS-32A                      | Obsoleted - No longer required |
| ECS-33C                      |                                |
| ECS-34A                      | Obsoleted - No longer required |
| ECS-35G                      |                                |
| ECS-36A                      | Cancelled                      |
| ECS-37B                      | Obsoleted - No longer required |
| ECS-38B                      | Obsoleted - No longer required |
| ECS-42B                      | Cancelled                      |
| ECS-43A                      |                                |
| ECS-44E                      |                                |
| ECS-45J                      |                                |
| ECS-46D                      |                                |
| ECS-47C                      |                                |
| ECS-48C                      |                                |
| ECS-49D                      |                                |
| ECS-50F                      |                                |
| ECS-51A                      |                                |
| ECS-52C                      |                                |
| ECS-53A                      |                                |
| ECS-54A                      |                                |
| ECS-55A                      |                                |
| ECS-56 New                   |                                |
| ECS-300A                     |                                |
| ECS-301E                     |                                |

| <u>Etch Inspection Standards</u> |                                    |
|----------------------------------|------------------------------------|
| EIS-Master-N                     |                                    |
| EIS-1D                           |                                    |
| EIS-2K                           |                                    |
| EIS-3A                           | Obsoleted-No longer required       |
| EIS-4A                           | Obsoleted-No longer required       |
| EIS-5B                           |                                    |
| EIS-6B                           |                                    |
| EIS-7A                           | Obsoleted-No longer required       |
| EIS-9                            | Obsoleted-Use GSS-16               |
| EIS-10B                          | Obsoleted-Use GSS-17               |
| EIS-12                           | Cancelled                          |
| EIS-13W                          |                                    |
| EIS-14C                          | Cancelled                          |
| EIS-15P                          |                                    |
| EIS-17F                          |                                    |
| EIS-19G                          |                                    |
| EIS-20A                          |                                    |
| EIS-21C                          | Redacted                           |
| EIS-100A                         | Cancelled                          |
| EIS-300A                         | Cancelled                          |
| EIS-302                          | Obsoleted-Use GSS-303              |
| EIS-370                          | Cancelled-Use Rolls-Royce QAS Z.16 |
| EIS-371A                         | Obsoleted-No further requirements  |

| <u>Fracture Critical Parts Standards</u> |  |
|--|--|
| FCPS-1G                                  |  |
| FCPS-2H                                  |  |
| FCPS-3B                                  |  |

| <u>Fluorescent Penetrant Standards</u> |                                   |
|--|-----------------------------------|
| FPS-Master-W                           |                                   |
| FPS-1A                                 | Obsoleted-No further requirements |
| FPS-2B                                 | Obsoleted-No further requirements |
| FPS-3B                                 | Obsoleted-No further requirements |
| FPS-4                                  | Obsoleted                         |
| FPS-5N                                 | Obsoleted-No further requirements |
| FPS-6                                  | Obsoleted-Use FPS-37              |

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| <u>APU CH53-K Composites</u> |                                      |
|------------------------------|--------------------------------------|
| APU VIS-1                    |                                      |
| FPS-7A                       | Obsoleted-F100 PW-229 Diffuser Cases |
| FPS-8                        | Obsoleted                            |
| FPS-9A                       | Cancelled-Use FPS-37                 |
| FPS-10D                      |                                      |
| FPS-12D                      |                                      |
| FPS-14F                      | Cancelled                            |
| FPS-15                       | Cancelled                            |
| FPS-16E                      | Cancelled-Use FPS-38 Code C          |
| FPS-17L                      | Cancelled                            |
| FPS-18N                      |                                      |
| FPS-19C                      | Cancelled-Use FPS-38                 |
| FPS-20D                      |                                      |
| FPS-21                       | Obsoleted                            |
| FPS-22C                      |                                      |
| FPS-23                       | Obsoleted                            |
| FPS-24G                      |                                      |
| FPS-25C                      |                                      |
| FPS-26D                      |                                      |
| FPS-27B                      | Cancelled                            |
| FPS-28B                      | Cancelled                            |
| FPS-30H                      |                                      |
| FPS-31D                      |                                      |
| FPS-32C                      |                                      |
| FPS-33E                      |                                      |
| FPS-34D                      |                                      |
| FPS-35A                      | Cancelled                            |
| FPS-36C                      | Cancelled                            |
| FPS-37V                      |                                      |
| FPS-38R                      | Redacted                             |
| FPS-39C                      | Cancelled                            |
| FPS-40D                      | Cancelled-Use FPS-38 Code A          |
| FPS-41K                      | Redacted                             |
| FPS-42A                      | Cancelled                            |
| FPS-43A                      | Cancelled                            |
| FPS-44A                      |                                      |
| FPS-45A                      | Cancelled                            |
| FPS-46P                      | Redacted                             |
| FPS-47R                      | Redacted                             |
| FPS-49M                      |                                      |
| FPS-51A                      | Obsoleted-No further requirements    |
| FPS-52A                      |                                      |
| FPS-53A                      |                                      |
| FPS-54B                      |                                      |
| FPS-55A                      | Obsoleted-Use FPS-38                 |
| FPS-56A                      | Cancelled-Use FPS-24                 |
| FPS-58B                      | Cancelled-No further requirements    |
| FPS-59B                      |                                      |
| FPS-61H                      |                                      |
| FPS-62D                      | Cancelled-Use FPS-38 Code B          |
| FPS-63A                      | Cancelled-No further requirements    |
| FPS-64E                      |                                      |
| FPS-65D                      |                                      |
| FPS-67D                      |                                      |
| FPS-68C                      |                                      |
| FPS-69B                      |                                      |
| FPS-71J                      |                                      |
| FPS-72G                      | Cancelled-Use FPS-71                 |
| FPS-73B                      | Cancelled-Use FPVS-16                |
| FPS-74C                      |                                      |
| FPS-75A                      | Obsoleted-No further requirements    |
| FPS-77E                      | Cancelled                            |
| FPS-78A                      |                                      |
| FPS-79E                      |                                      |
| FPS-80D                      |                                      |
| FPS-81C                      | Cancelled-Use FPVS-10                |
| FPS-83D                      | Cancelled-Use FPVS-21 Sec.II         |
| FPS-84C                      |                                      |
| FPS-86A                      | Cancelled-No longer used             |
| FPS-87D                      |                                      |



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| <u>APU CH53-K Composites</u> |                                   |
|------------------------------|-----------------------------------|
| APU VIS-1                    |                                   |
| FPS-88C                      |                                   |
| FPS-89B                      |                                   |
| FPS-90A                      |                                   |
| FPS-91A                      |                                   |
| FPS-92C                      | Cancelled-Use FPS-38              |
| FPS-93B                      | Cancelled-Use FPS-47              |
| FPS-94A                      | Cancelled-Use FPVS-23             |
| FPS-95B                      | Cancelled-Use FPS-46              |
| FPS-96K                      |                                   |
| FPS-97A                      | Cancelled-Use FPS-87              |
| FPS-98B                      |                                   |
| FPS-99A                      | Cancelled-Use FPVS-16             |
| FPS-100J                     |                                   |
| FPS-102E                     |                                   |
| FPS-105D                     |                                   |
| FPS-106B                     |                                   |
| FPS-107B                     |                                   |
| FPS-108B                     |                                   |
| FPS-109                      | New                               |
| FPS-200A                     | Cancelled                         |
| FPS-201B                     | Cancelled                         |
| FPS-300B                     |                                   |
| FPS-301C                     |                                   |
| FPS-302B                     |                                   |
| FPS-304B                     | Cancelled                         |
| FPS-305G                     | Cancelled-Use FPVS-8              |
| FPS-306T                     |                                   |
| FPS-307C                     | Obsoleted-Use FPVS-4              |
| FPS-308D                     |                                   |
| FPS-309M                     | Cancelled-Use FPVS-4              |
| FPS-310B                     |                                   |
| FPS-312E                     | Cancelled-Use FPS-306             |
| FPS-313A                     | Cancelled                         |
| FPS-370A                     | Obsoleted-No further requirements |
| FPS-371A                     | Obsoleted-No further requirements |
| FPS-372A                     | Obsoleted-No further requirements |
| FPS-373A                     | Obsoleted-No further requirements |
| FPS-374A                     | Obsoleted-No further requirements |
| FPS-701B                     | Cancelled                         |
| FPS-703A                     | Cancelled                         |
| FPS-704A                     | Cancelled                         |
| FPS-705A                     | Cancelled                         |
| FPS-706A                     | Cancelled                         |
| FPS-707A                     | Obsoleted-No further requirements |
| FPS-708A                     | Obsoleted-No further requirements |
| FPS-709H                     |                                   |
| FPS-A-Vendor A               |                                   |
| FPS INDEX                    | Cancelled-No further requirements |

| <u>Fluorescent Penetrant and/or Visual Inspection Standards</u> |                                  |
|---|----------------------------------|
| FPVS-1H   |                                  |
| FPVS-2U   |                                  |
| FPVS-3A   | Cancelled-Use FPS-98 and VIS-438 |
| FPVS-4D   | Redacted                         |
| FPVS-5A   |                                  |
| FPVS-6E   |                                  |
| FPVS-7A   |                                  |
| FPVS-8A   |                                  |
| FPVS-9D   |                                  |
| FPVS-10P  |                                  |
| FPVS-11E  |                                  |
| FPVS-13G  | Redacted                         |
| FPVS-14B  | Cancelled-Use MTP20 and MTP54    |
| FPVS-15E  |                                  |
| FPVS-16A  |                                  |
| FPVS-17B  | Cancelled-Use MTP73              |
| FPVS-18E  |                                  |
| FPVS-19F  |                                  |

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|------------------------------|----------|
| APU VIS-1                    |          |
| FPVS-20D                     | Redacted |
| FPVS-21B                     | Redacted |
| FPVS-23C                     |          |
| FPVS-24A                     |          |

| <u>Frequency Standards</u> |  |
|----------------------------|--|
| FS-1D                      |  |

| <u>Grain Size Standards</u> |                                   |
|-----------------------------|-----------------------------------|
| GSS-Master-D                |                                   |
| GSS-3C                      |                                   |
| GSS-3D                      |                                   |
| GSS-4A                      | Obsoleted-No further requirements |
| GSS-5                       | Obsoleted-Use GSS-12              |
| GSS-6                       | Obsoleted-Use GSS-8               |
| GSS-7B                      | Obsoleted-No further requirements |
| GSS-8R                      |                                   |
| GSS-11                      | Obsoleted-Use GSS-8               |
| GSS-12H                     |                                   |
| GSS-13A                     | Obsoleted-No further requirements |
| GSS-14B                     | Cancelled                         |
| GSS-15A                     | Obsoleted-No further requirements |
| GSS-16C                     | Redacted                          |
| GSS-17C                     |                                   |
| GSS-18E                     |                                   |
| GSS-19B                     | Cancelled-Use EIS-17              |
| GSS-21C                     |                                   |
| GSS-22B                     |                                   |
| GSS-23A                     |                                   |
| GSS-24B                     |                                   |
| GSS-25H                     | Redacted                          |
| GSS-26B                     |                                   |
| GSS-27B                     |                                   |
| GSS-29A                     | Cancelled-Use GSS-25              |
| GSS-30A                     | Cancelled-Use MTU Spec MTP 118    |
| GSS-31A                     |                                   |
| GSS-33A                     |                                   |
| GSS-34B                     |                                   |
| GSS-35C                     |                                   |
| GSS-36                      |                                   |
| GSS-37                      | Initial Release                   |
| GSS-300C                    | Cancelled                         |
| GSS-301D                    | Redacted                          |
| GSS-302G                    |                                   |
| GSS-303C                    |                                   |
| GSS-304A                    | Cancelled                         |

| <u>Industrial Inspection Standards</u> |           |
|--|-----------|
| IIS-1001A                              | Cancelled |
| IIS-1002A                              | Cancelled |
| IIS-1003A                              | Cancelled |
| IIS-1004A                              | Cancelled |
| IIS-1005A                              | Cancelled |
| IIS-1006B                              | Cancelled |
| IIS-1007A                              | Cancelled |
| IIS-1008A                              | Cancelled |
| IIS-1009A                              | Cancelled |
| IIS-1010A                              | Cancelled |
| IIS-1012A                              | Cancelled |
| IIS-1013A                              | Cancelled |

| <u>Magnetic Particle Standards</u> |                                   |
|------------------------------------|-----------------------------------|
| MPS-Master-F                       |                                   |
| MPS-4J                             |                                   |
| MPS-5                              | Obsoleted-No further requirements |
| MPS-6                              | Cancelled                         |

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| <u>APU CH53-K Composites</u> |                                   |
|------------------------------|-----------------------------------|
| APU VIS-1                    |                                   |
| MPS-7                        | Cancelled                         |
| MPS-8                        | Cancelled                         |
| MPS-9                        | Cancelled                         |
| MPS-10                       | Cancelled                         |
| MPS-11                       | Cancelled                         |
| MPS-12                       | Cancelled                         |
| MPS-13B                      |                                   |
| MPS-15                       | Cancelled                         |
| MPS-16                       | Cancelled                         |
| MPS-17                       | Cancelled                         |
| MPS-18                       | Cancelled                         |
| MPS-19A                      | Obsoleted-No further requirements |
| MPS-20C                      |                                   |
| MPS-24A                      | Obsoleted-Use MPS-115             |
| MPS-25D                      |                                   |
| MPS-27A                      | Obsoleted-Use MPS-115             |
| MPS-29B                      |                                   |
| MPS-31A                      |                                   |
| MPS-33B                      |                                   |
| MPS-34B                      | Obsoleted-No further requirements |
| MPS-35A                      | Obsoleted-Use MPS-115             |
| MPS-37A                      | Obsoleted-Use MPS-115             |
| MPS-38A                      | Obsoleted-Use MPS-115             |
| MPS-43                       | Cancelled                         |
| MPS-44B                      |                                   |
| MPS-47C                      |                                   |
| MPS-48A                      | Obsoleted-Use MPS-47              |
| MPS-50A                      | Obsoleted-Use MPS-115             |
| MPS-51A                      | Obsoleted-Use MPS-115             |
| MPS-52A                      | Obsoleted-Use MPS-115             |
| MPS-56A                      | Obsoleted-Use MPS-115             |
| MPS-62F                      |                                   |
| MPS-64B                      | Obsoleted-No further requirements |
| MPS-65                       | Obsoleted-Use MPS-115             |
| MPS-69                       | Obsoleted                         |
| MPS-70A                      | Obsoleted-Use MPS-115             |
| MPS-71A                      | Obsoleted-Use MPS-115             |
| MPS-72A                      | Obsoleted-Use MPS-115             |
| MPS-73E                      |                                   |
| MPS-74E                      |                                   |
| MPS-75A                      |                                   |
| MPS-77B                      | Obsoleted-No further requirements |
| MPS-81B                      |                                   |
| MPS-83B                      |                                   |
| MPS-84C                      |                                   |
| MPS-85B                      |                                   |
| MPS-88B                      | Obsoleted-Use MPS Master          |
| MPS-92                       | Cancelled                         |
| MPS-93B                      | Cancelled                         |
| MPS-96C                      |                                   |
| MPS-97                       | Obsoleted                         |
| MPS-98                       | Obsoleted                         |
| MPS-99                       | Obsoleted                         |
| MPS-100                      | Cancelled                         |
| MPS-101E                     |                                   |
| MPS-103B                     |                                   |
| MPS-104A                     | Obsoleted-Use MPS-103             |
| MPS-105A                     | Obsoleted-Use MPS-103             |
| MPS-106B                     | Obsoleted-No further requirements |
| MPS-107A                     | Obsoleted-Use MPS-29 and MPS-111  |
| MPS-108B                     | Cancelled-No further requirements |
| MPS-109C                     | Cancelled                         |
| MPS-110                      | Obsoleted                         |
| MPS-111F                     |                                   |
| MPS-112A                     |                                   |
| MPS-113B                     | Obsoleted-No further requirements |
| MPS-114A                     | Obsoleted-No further requirements |
| MPS-115B                     |                                   |
| MPS-116A                     |                                   |

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|------------------------------|-----------------------------------|
| APU VIS-1                    |                                   |
| MPS-117A                     |                                   |
| MPS-118A                     |                                   |
| MPS-119A                     |                                   |
| MPS-200A                     | Cancelled-No further requirements |
| MPS-370A                     | Cancelled-No further requirements |
| MPS-371A                     | Cancelled-No further requirements |
| MPS-372B                     | Cancelled-No further requirements |
| MPS-701A                     | Cancelled                         |
| MPS-A-Vendor A               | Obsoleted-No further requirements |
| MPS-B-Vendor B               | Obsoleted-No further requirements |
| MPS-C-Vendor A               | Obsoleted-No further requirements |
| MPS-D-Vendor A               | Obsoleted-No further requirements |
| MPS-E-Vendor A               | Cancelled-Refer to MPS-M          |
| MPS-F-Vendor A               | Obsoleted-No further requirements |
| MPS-G-Vendor A               | Obsoleted-No further requirements |

| <u>Power Systems Standards</u> |               |
|--------------------------------|---------------|
| PS-FPS-M                       | Initial Issue |
| PS-MPS-M                       | Initial Issue |
| PS-VIS-M                       | Initial Issue |

| <u>Neutron Radiographic Standards</u> |  |
|---------------------------------------|--|
| NRS-1A                                |  |

| <u>Supplemental Acceptance Standards</u> |                       |
|--|-----------------------|
| SAS-1AA                                  |                       |
| SAS-2P                                   |                       |
| SAS-3E                                   | Cancelled-Use VIS-544 |
| SAS-4D                                   | Cancelled             |
| SAS-5G                                   | Cancelled-Use VIS-544 |
| SAS-6G                                   | Cancelled-Use VIS-544 |
| SAS-7A                                   |                       |
| SAS-8A                                   | Cancelled             |
| SAS-9A                                   | Cancelled-Use VIS-352 |
| SAS-10C                                  | Cancelled-Use VIS-544 |
| SAS-12A                                  |                       |
| SAS-13A                                  |                       |
| SAS-14B                                  |                       |
| SAS-15A                                  | Cancelled             |
| SAS-16B                                  |                       |
| SAS-17A                                  |                       |
| SAS-18E                                  |                       |
| SAS-20B                                  | Cancelled             |
| SAS-22B                                  | Cancelled             |
| SAS-23A                                  |                       |
| SAS-25A                                  |                       |
| SAS-27A                                  | Cancelled             |
| SAS-29B                                  |                       |
| SAS-30B                                  |                       |
| SAS-31B                                  |                       |
| SAS-32A                                  | Cancelled             |
| SAS-37A                                  |                       |
| SAS-38B                                  |                       |
| SAS-39B                                  |                       |
| SAS-41A                                  |                       |
| SAS-42A                                  |                       |
| SAS-43A                                  |                       |
| SAS-44B                                  |                       |
| SAS-45A                                  |                       |
| SAS-46A                                  |                       |
| SAS-49C                                  |                       |
| SAS-50B                                  |                       |
| SAS-51B                                  |                       |
| SAS-52A                                  |                       |
| SAS-53A                                  |                       |
| SAS-54C                                  |                       |

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| APU VIS-1                    |  |
| SAS-55A                      |  |
| SAS-56B                      |  |
| SAS-57A                      |  |
| SAS-58B                      |  |
| SAS-62A                      |  |
| SAS-63A                      |  |
| SAS-64B                      |  |

| <u>Surface Finish Standards</u> |                                       |
|---------------------------------|---------------------------------------|
| SFS-Preface A                   |                                       |
| SFS-3A                          | Cancelled                             |
| SFS-5                           | Cancelled                             |
| SFS-11                          | Cancelled                             |
| SFS-18A                         | Cancelled                             |
| SFS-19C                         | Cancelled                             |
| SFS-21A                         | Cancelled                             |
| SFS-22B                         | Cancelled-Use PWA 362-1               |
| SFS-23D                         | Cancelled-Use PWA 362-13              |
| SFS-24A                         | Cancelled-Use PWA 362-2               |
| SFS-25F                         | Cancelled-Use PWA 362-10              |
| SFS-26C                         | Cancelled-Use PWA 362-5               |
| SFS-27C                         | Cancelled-Use PWA 362-3 and PWA 362-4 |
| SFS-28B                         | Cancelled-Use PWA 362-18              |
| SFS-29B                         | Cancelled-Use PWA 362-8               |
| SFS-30B                         | Cancelled-Use PWA 362-8               |
| SFS-31B                         | Obsoleted-No further requirements     |
| SFS-32B                         | Obsoleted-No further requirements     |
| SFS-33A                         | Obsoleted-No further requirements     |
| SFS-34B                         | Obsoleted-No further requirements     |
| SFS-35A                         | Obsoleted-No further requirements     |
| SFS-36B                         | Obsoleted-No further requirements     |
| SFS-37B                         | Obsoleted-No further requirements     |
| SFS-38B                         | Obsoleted-No further requirements     |
| SFS-39C                         | Obsoleted-No further requirements     |
| SFS-45A                         | Cancelled-Use PWA 362-19              |
| SFS-46A                         | Cancelled-Use PWA 362-19              |
| SFS-54A                         | Cancelled                             |
| SFS-57A                         | Cancelled                             |
| SFS-59A                         | Cancelled                             |
| SFS-66D                         | Cancelled-Use PWA 362-15              |
| SFS-67B                         | Cancelled-Use PWA 362-19              |
| SFS-68D                         |                                       |
| SFS-70B                         | Cancelled-Use PWA 362-20              |
| SFS-71D                         |                                       |
| SFS-74A                         | Cancelled                             |
| SFS-75C                         | Cancelled                             |
| SFS-76C                         |                                       |
| SFS-77A                         | Cancelled-Use PWA 362-6               |
| SFS-78B                         | Cancelled-Use PWA 362-1               |
| SFS-79B                         | Cancelled-Use PWA 362-23              |
| SFS-80E                         | Cancelled-Use PWA 362-10              |
| SFS-81C                         |                                       |
| SFS-82C                         | Cancelled                             |
| SFS-83E                         | Cancelled-Use PWA 362                 |
| SFS-84A                         | Cancelled-Use PWA 362-16              |
| SFS-85E                         | Cancelled-Use PWA 362-11              |
| SFS-87E                         | Cancelled-Use PWA 362-9               |
| SFS-88B                         | Cancelled                             |
| SFS-89A                         | Obsoleted-No further requirements     |
| SFS-90A                         | Obsoleted-No further requirements     |
| SFS-91B                         |                                       |
| SFS-92A                         | Cancelled-Use PWA 362-15              |
| SFS-93A                         | Cancelled-Use PWA 362-21              |
| SFS-94D                         | Obsoleted-No further requirements     |
| SFS-95D                         | Obsoleted-No further requirements     |
| SFS-96D                         | Obsoleted-No further requirements     |
| SFS-97B                         | Obsoleted-No further requirements     |
| SFS-98A                         | Cancelled-Use PWA 362-7               |

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|------------------------------|-----------------------------------|
| APU VIS-1                    |                                   |
| SFS-99                       | Obsoleted-No further requirements |
| SFS-100A                     | Cancelled-Use PWA 362-17          |
| SFS-101A                     | Cancelled-Use PWA 362-12          |
| SFS-102A                     | Cancelled-Use PWA 362-14          |
| SFS-103A                     |                                   |

| <u>Sonic Inspection Standards</u> |  |
|-----------------------------------|--|
| SIS-Master-E                      |  |
| SIS-1B                            | Cancelled-Use SIS-MASTER                       |
| SIS-2B                            | Cancelled-Use SIS-MASTER                       |
| SIS-3B                            | Cancelled-Use SIS-MASTER                       |
| SIS-4C                            | Cancelled-Use SIS-MASTER                       |
| SIS-5B                            | Cancelled-Use SIS-MASTER                       |
| SIS-6E                            |  |
| SIS-7B                            | Cancelled-Use SIS-MASTER                       |
| SIS-9A                            | Obsoleted-No further requirements              |
| SIS-10A                           | Obsoleted-No further requirements              |
| SIS-11C                           | Cancelled-Use SIS-26                           |
| SIS-12E                           | Cancelled-Use SIS-322 Code 16                  |
| SIS-13C                           |  |
| SIS-14                            | Obsoleted                                      |
| SIS-15A                           |  |
| SIS-16D                           |  |
| SIS-17B                           |  |
| SIS-18D                           |  |
| SIS-19C                           |  |
| SIS-20A                           |  |
| SIS-21D                           |  |
| SIS-22C                           | Cancelled-Use BIS-1                            |
| SIS-23B                           |  |
| SIS-26C                           |  |
| SIS-27C                           | Obsoleted-No further requirements              |
| SIS-30A                           | Obsoleted-No further requirements              |
| SIS-31A                           | Cancelled-Use SIS-MASTER                       |
| SIS-32B                           |  |
| SIS-33E                           | Cancelled-Use SIS-322 Code 8 & SIS-322 Code 16 |
| SIS-35B                           | Cancelled-Use SIS-322 Code 20                  |
| SIS-39A                           |  |
| SIS-40B                           |  |
| SIS-42D                           |  |
| SIS-43M                           |  |
| SIS-44G                           |  |
| SIS-45E                           |  |
| SIS-47A                           |  |
| SIS-48G                           |  |
| SIS-49C                           |  |
| SIS-50A                           |  |
| SIS-101A                          | Cancelled                                      |
| SIS-302B                          | Redacted                                       |
| SIS-303A                          | Obsoleted-Use SIS-MASTER                       |
| SIS-304C                          |  |
| SIS-305B                          |  |
| SIS-306A                          | Cancelled-See SIS-311                          |
| SIS-307C                          |  |
| SIS-308A                          | Cancelled                                      |
| SIS-309A                          | Cancelled-Use SIS-322 Code 16                  |
| SIS-310A                          | Obsoleted-No further requirements              |
| SIS-311B                          |  |
| SIS-313B                          | Obsoleted-No further requirements              |
| SIS-314A                          | Cancelled-Use SIS-322 Code 32                  |
| SIS-315B                          |  |
| SIS-316B                          | Cancelled-Use SIS-322 Code 16                  |
| SIS-318A                          | Cancelled-Use SIS-322 Code 16                  |
| SIS-322J                          |  |
| SIS-323B                          | Cancelled                                      |
| SIS-325B                          |  |
| SIS-326E                          |  |
| SIS-327G                          |  |

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| <u>APU CH53-K Composites</u> |                                   |
|------------------------------|-----------------------------------|
| APU VIS-1                    |                                   |
| SIS-328B                     |                                   |
| SIS-329B                     |                                   |
| SIS-330C                     |                                   |
| SIS-331A                     |                                   |
| SIS-332A                     |                                   |
| SIS-333C                     |                                   |
| SIS-334                      |                                   |
| SIS-337                      |                                   |
| SIS-370A                     | Obsoleted-No further requirements |
| SIS-371A                     | Obsoleted-No further requirements |
| SIS-373C                     |                                   |

| <u>Surface Temper Standards</u> |                                   |
|---------------------------------|-----------------------------------|
| STS-Master-C                    |                                   |
| STS-1A                          | Obsoleted-No further requirements |
| STS-2B                          | Obsoleted-No further requirements |
| STS-3A                          | Obsoleted-No further requirements |
| STS-4B                          | Obsoleted-No further requirements |
| STS-5B                          | Cancelled-Use STS-17 Code A       |
| STS-6A                          | Obsoleted-No further requirements |
| STS-7A                          | Obsoleted-No further requirements |
| STS-8B                          | Cancelled-Use STS-17 Code B       |
| STS-9B                          | Cancelled-Use STS-17 Code E       |
| STS-10A                         | Obsoleted-No further requirements |
| STS-11A                         | Obsoleted-No further requirements |
| STS-12B                         | Cancelled-Use STS-17 Code C       |
| STS-13B                         | Cancelled-Use STS-17 Code D       |
| STS-14A                         |                                   |
| STS-15A                         |                                   |
| STS-16A                         | Obsoleted-No further requirements |
| STS-17B                         |                                   |
| STS-100B                        | Cancelled-No further requirements |
| STS-A Vendor-C                  | Cancelled-Refer to STS-M          |

| <u>Visual Inspection Standards</u> |                                   |
|------------------------------------|-----------------------------------|
| VIS-Master AA                      |                                   |
| VIS-1A                             | Cancelled                         |
| VIS-2A                             | Cancelled                         |
| VIS-3A                             | Cancelled                         |
| VIS-4AJ                            | Redacted                          |
| VIS-5A                             | Obsoleted                         |
| VIS-6A                             | Obsoleted                         |
| VIS-7U                             |                                   |
| VIS-10                             | Cancelled                         |
| VIS-11E                            | Cancelled-Use VIS-21              |
| VIS-12K                            |                                   |
| VIS-14L                            |                                   |
| VIS-15C                            | Cancelled-Use MM-148              |
| VIS-16AC                           | Cancelled-Use VIS-544             |
| VIS-18D                            | Cancelled-Use VIS-23              |
| VIS-19B                            | Obsoleted-Use VIS-53              |
| VIS-20A                            | Obsoleted                         |
| * VIS-21AC                         |                                   |
| VIS-22J                            |                                   |
| VIS-23AE                           |                                   |
| VIS-24B                            | Obsoleted-No further requirements |
| VIS-25A                            | Cancelled-Use PWA-362 (pg.3&4)    |
| VIS-26B                            | Obsoleted-No further requirements |
| VIS-27F                            | Redacted                          |
| VIS-28C                            |                                   |
| VIS-29E                            |                                   |
| VIS-30T                            |                                   |
| VIS-31B                            | Obsoleted                         |
| VIS-32D                            |                                   |
| VIS-33B                            |                                   |
| VIS-34A                            | Obsoleted                         |
| VIS-35A                            | Obsoleted                         |

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| APU VIS-1                    |                                   |
| VIS-36D                      | Obsoleted                         |
| VIS-37P                      | Cancelled-Use VIS-114             |
| VIS-38B                      | Obsoleted                         |
| VIS-39K                      | Redacted                          |
| VIS-40B                      | Obsoleted-No further requirements |
| VIS-41B                      | Obsoleted                         |
| VIS-43B                      |                                   |
| VIS-44C                      |                                   |
| VIS-45H                      |                                   |
| VIS-46M                      | Redacted                          |
| VIS-48                       | Obsoleted                         |
| VIS-49A                      | Obsoleted                         |
| VIS-50G                      |                                   |
| VIS-51                       | Obsoleted                         |
| VIS-52B                      | Obsoleted                         |
| VIS-53H                      |                                   |
| VIS-54                       | Obsoleted                         |
| VIS-55                       | Obsoleted                         |
| VIS-56A                      | Obsoleted                         |
| VIS-57A                      | Obsoleted                         |
| VIS-58H                      |                                   |
| VIS-60B                      | Obsoleted                         |
| VIS-61                       | Obsoleted                         |
| VIS-62C                      |                                   |
| VIS-63A                      |                                   |
| VIS-64B                      | Obsoleted                         |
| VIS-65C                      |                                   |
| VIS-66G                      |                                   |
| VIS-67D                      | Redacted                          |
| VIS-68C                      | Cancelled-Use VIS-109             |
| VIS-70B                      | Obsoleted                         |
| VIS-71A                      | Obsoleted                         |
| VIS-72K                      |                                   |
| VIS-73A                      | Obsoleted                         |
| VIS-74E                      |                                   |
| VIS-75                       | Obsoleted                         |
| VIS-77A                      | Obsoleted                         |
| VIS-79                       | Obsoleted                         |
| VIS-82A                      | Obsoleted                         |
| VIS-83J                      | Cancelled-Use VIS-103             |
| VIS-84C                      | Obsoleted-Use VIS-12              |
| VIS-85B                      |                                   |
| VIS-86A                      | Obsoleted-No further requirements |
| VIS-88B                      |                                   |
| VIS-89B                      |                                   |
| VIS-90A                      |                                   |
| VIS-91L                      | Cancelled-Use VIS-454 Code A      |
| VIS-92A                      | Obsoleted                         |
| VIS-93A                      |                                   |
| VIS-94L                      |                                   |
| VIS-97A                      |                                   |
| VIS-98B                      |                                   |
| VIS-99F                      |                                   |
| VIS-100B                     |                                   |
| VIS-101A                     | Cancelled-Use VIS-454             |
| VIS-103AG                    | Redacted                          |
| VIS-104F                     |                                   |
| VIS-105B                     |                                   |
| VIS-107A                     | Obsoleted-No further requirements |
| VIS-108H                     |                                   |
| VIS-109G                     |                                   |
| VIS-110D                     | Cancelled                         |
| VIS-111C                     | Cancelled                         |
| VIS-112A                     |                                   |
| VIS-113B                     |                                   |
| VIS-114Y                     |                                   |
| VIS-115C                     |                                   |
| VIS-116A                     | Obsoleted-No further requirements |
| VIS-117L                     |                                   |



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| APU VIS-1                    |  |
| VIS-119A                     |  |
| VIS-120D                     |  |
| VIS-121B                     |  |
| VIS-123C                     |  |
| VIS-124A                     | Obsoleted  |
| VIS-125F                     |  |
| VIS-126B                     | Obsoleted-Use VIS-FC-602   |
| VIS-127F                     | Cancelled  |
| VIS-129B                     | Cancelled (Parts for VIS-129 shall be inspected to VIS-226 Code A) |
| VIS-131F                     |  |
| VIS-132C                     |  |
| VIS-134A                     | Cancelled  |
| VIS-135A                     |  |
| VIS-136A                     | Obsoleted-No further requirements                                  |
| VIS-138A                     |  |
| VIS-139D                     |  |
| VIS-140A                     |  |
| VIS-141A                     | Cancelled-Use VIS-109  |
| VIS-143U                     |  |
| VIS-144G                     |  |
| VIS-145A                     |  |
| VIS-146A                     | Obsoleted  |
| VIS-147B                     |  |
| VIS-148A                     | Cancelled  |
| VIS-149A                     |  |
| VIS-150N                     | Redacted   |
| VIS-151D                     |  |
| VIS-152F                     |  |
| VIS-153D                     |  |
| VIS-154E                     |  |
| VIS-155C                     | Redacted   |
| VIS-158B                     |  |
| VIS-159C                     |  |
| VIS-160D                     |  |
| VIS-161C                     |  |
| VIS-163K                     | Redacted   |
| VIS-165E                     |  |
| VIS-166A                     | Obsoleted-No further requirements                                  |
| VIS-167H                     | Redacted   |
| VIS-168A                     | Cancelled-No further requirements                                  |
| VIS-174B                     |  |
| VIS-175C                     |  |
| VIS-176A                     | Obsoleted-No further requirements                                  |
| VIS-177D                     |  |
| VIS-178B                     | Cancelled-Use VIS-369 or VIS-493                                   |
| VIS-179A                     | Cancelled-Use VIS-369  |
| VIS-180A                     |  |
| VIS-181A                     | Cancelled-Use VIS-183  |
| VIS-182H                     |  |
| VIS-183B                     |  |
| VIS-184C                     |  |
| VIS-185A                     | Obsoleted-No further requirements                                  |
| VIS-186E                     |  |
| VIS-187D                     |  |
| VIS-188C                     |  |
| VIS-189A                     |  |
| VIS-190C                     |  |
| VIS-191B                     |  |
| VIS-194A                     | Cancelled  |
| VIS-195C                     | Cancelled  |
| VIS-196B                     | Cancelled  |
| VIS-197H                     |  |
| VIS-198B                     |  |
| VIS-199A                     | Cancelled  |
| VIS-200B                     | Cancelled  |
| VIS-201D                     |  |
| VIS-203C                     |  |
| VIS-204C                     | Cancelled-Use VIS-184  |

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| APU VIS-1                    |   |
| VIS-205A                     | Cancelled-Use VIS-235   |
| VIS-206C                     |   |
| VIS-207A                     | Cancelled   |
| VIS-208A                     |   |
| VIS-209C                     |   |
| VIS-210B                     |   |
| VIS-211C                     | Redacted  |
| VIS-212H                     |   |
| VIS-213G                     |   |
| VIS-214C                     | Cancelled-Use VIS-544   |
| VIS-215B                     | Cancelled-Use VIS-271   |
| VIS-216A                     | Cancelled   |
| VIS-217C                     |   |
| VIS-218A                     |   |
| VIS-219A                     |   |
| VIS-220A                     |   |
| VIS-221B                     |   |
| VIS-223E                     |   |
| VIS-224A                     |   |
| VIS-225C                     |   |
| VIS-226L                     |   |
| VIS-227C                     |   |
| VIS-228B                     |   |
| VIS-229L                     |   |
| VIS-230H                     | Redacted  |
| VIS-231A                     | Cancelled-Use VIS-544   |
| VIS-233B                     | Cancelled-Use FPVS-16   |
| VIS-234D                     |   |
| VIS-235G                     |   |
| VIS-236A                     | Obsoleted-No further requirements   |
| VIS-237A                     |   |
| VIS-238M                     |   |
| VIS-239B                     | Cancelled-Use VIS-105   |
| VIS-243B                     | Cancelled-Use VIS-408   |
| VIS-245A                     |   |
| VIS-246D                     |   |
| VIS-247A                     |   |
| VIS-250A                     |   |
| VIS-251A                     | Cancelled   |
| VIS-252K                     | Redacted  |
| VIS-253F                     | Cancelled-Use VIS-544   |
| VIS-254A                     |   |
| VIS-255A                     |   |
| VIS-256J                     |   |
| VIS-258B                     |   |
| VIS-259C                     |   |
| VIS-260B                     |   |
| VIS-262A                     |   |
| VIS-263C                     | Cancelled-Use VIS-544   |
| VIS-265C                     | Cancelled-Use VIS-485   |
| VIS-266B                     |   |
| VIS-267E                     |   |
| VIS-268D                     |   |
| VIS-269D                     |   |
| VIS-271D                     |   |
| VIS-272A                     |   |
| VIS-273B                     |   |
| VIS-274A                     |   |
| VIS-277B                     | Cancelled-Use VIS-454 Code B  |
| VIS-279A                     | Cancelled-No longer used  |
| VIS-281E                     |   |
| VIS-282E                     | Cancelled-Engines for which VIS-282 is specified shall be inspected to Engineering Requirements |
| VIS-283C                     | Cancelled-Engines for which VIS-283 is specified shall be inspected to Engineering Requirements |
| VIS-284D                     | Cancelled-Engines for which VIS-284 is specified shall be inspected to Engineering Requirements |
| VIS-285D                     | Cancelled-Engines for which VIS-285 is specified shall be inspected to Engineering Requirements |
| VIS-286AA                    |   |

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| APU VIS-1                    |   |
| VIS-287A                     |   |
| VIS-288C                     |   |
| VIS-290F                     |   |
| VIS-291A                     |   |
| VIS-292C                     | Cancelled-Engines for which VIS-292 is specified shall be inspected to Engineering Requirements |
| VIS-293K                     | Redacted  |
| VIS-294A                     | Cancelled   |
| VIS-295A                     |   |
| VIS-296A                     |   |
| VIS-297A                     | Cancelled-Use VIS-258   |
| VIS-298G                     |   |
| VIS-299A                     |   |
| VIS-300C                     |   |
| VIS-301E                     |   |
| VIS-302C                     |   |
| VIS-304C                     |   |
| VIS-305C                     |   |
| VIS-306C                     |   |
| VIS-308C                     |   |
| VIS-309E                     |   |
| VIS-310C                     |   |
| VIS-311J                     |   |
| VIS-313C                     | Cancelled-No further requirements   |
| VIS-315A                     | Obsoleted-No further requirements   |
| VIS-316D                     |   |
| VIS-317C                     | Obsoleted-No further requirements   |
| VIS-318D                     |   |
| VIS-319A                     | Obsoleted-No further requirements   |
| VIS-320                      | Obsoleted   |
| VIS-321C                     |   |
| VIS-322W                     |   |
| VIS-323J                     | Cancelled-Use VIS-322   |
| VIS-325M                     |   |
| VIS-327A                     | Obsoleted- Use PWA-349  |
| VIS-328G                     |   |
| VIS-329D                     | Cancelled-Use VIS-108   |
| VIS-333A                     | Cancelled-Use MCL Manual  |
| VIS-335C                     |   |
| VIS-337D                     |   |
| VIS-341D                     | Cancelled-Use FPVS-4  |
| VIS-343A                     |   |
| VIS-344B                     | Cancelled-Use VIS-229   |
| VIS-347C                     |   |
| VIS-348D                     | Cancelled-Use VIS-518   |
| VIS-349H                     | Cancelled-Use VIS-544   |
| VIS-350E                     |   |
| VIS-351A                     | Obsoleted   |
| VIS-352F                     |   |
| VIS-353C                     | Cancelled-Use FPVS-21 Sec. I & II   |
| VIS-356A                     |   |
| VIS-357B                     |   |
| VIS-359C                     | Cancelled-Use VIS-544   |
| VIS-360A                     |   |
| VIS-361A                     |   |
| VIS-363D                     |   |
| VIS-364A                     |   |
| VIS-365C                     |   |
| VIS-366B                     |   |
| VIS-369T                     |   |
| VIS-370A                     | Cancelled-No further requirements   |
| VIS-371A                     | Cancelled-No further requirements   |
| VIS-372A                     | Cancelled-No further requirements   |
| VIS-373B                     | Cancelled-No further requirements   |
| VIS-374A                     | Cancelled-No further requirements   |
| VIS-375A                     | Cancelled-No further requirements   |
| VIS-376A                     | Cancelled-No further requirements   |
| VIS-377A                     | Cancelled-No further requirements   |
| VIS-378C                     | Cancelled-No further requirements   |

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| APU VIS-1                    |  |
| VIS-379B                     | Cancelled-No further requirements                    |
| VIS-380D                     | Cancelled-No further requirements                    |
| VIS-381C                     | Cancelled-No further requirements                    |
| VIS-382D                     | Cancelled-No further requirements                    |
| VIS-383A                     | Cancelled-No further requirements                    |
| VIS-384C                     | Cancelled-No further requirements                    |
| VIS-385B                     | Cancelled-No further requirements                    |
| VIS-386B                     | Cancelled-No further requirements                    |
| VIS-387B                     | Cancelled-No further requirements                    |
| VIS-388D                     | Cancelled-No further requirements                    |
| VIS-390D                     | Cancelled-No further requirements                    |
| VIS-400C                     |  |
| VIS-401A                     |  |
| VIS-402A                     |  |
| VIS-403D                     |  |
| VIS-404A                     | Cancelled-PW 404 Engine Fabricated Sheet Metal Parts |
| VIS-406A                     |  |
| VIS-407A                     |  |
| VIS-408E                     |  |
| VIS-409B                     |  |
| VIS-410C                     |  |
| VIS-411P                     |  |
| VIS-412D                     |  |
| VIS-413A                     | Cancelled-Use VIS-544                                |
| VIS-414B                     | Cancelled-Use VIS-23                                 |
| VIS-415A                     | Cancelled-Use VIS-109                                |
| VIS-416A                     |  |
| VIS-417A                     | Cancelled-Use VIS-226 Code A Limits                  |
| VIS-418A                     | Cancelled-Use FPVS-21                                |
| VIS-419B                     |  |
| VIS-420J                     | Redacted   |
| VIS-421A                     | Cancelled-Use VIS-103                                |
| VIS-422B                     |  |
| VIS-424A                     | Cancelled-No further requirements                    |
| VIS-425B                     |  |
| VIS-426A                     | Cancelled-Use VIS-4                                  |
| VIS-428A                     |  |
| VIS-429B                     | Cancelled-No further requirements                    |
| VIS-431D                     | Cancelled-Use VIS-544                                |
| VIS-432C                     |  |
| VIS-433B                     | Cancelled  |
| VIS-434A                     |  |
| VIS-435B                     |  |
| VIS-436B                     |  |
| VIS-438A                     |  |
| VIS-439A                     | Cancelled-Use VIS-454 Code A                         |
| VIS-440A                     | Cancelled-Use FPVS-16                                |
| VIS-442A                     |  |
| VIS-443F                     |  |
| VIS-444B                     | Cancelled-Use VIS-163                                |
| VIS-445C                     | Cancelled-Use VIS-286                                |
| VIS-446D                     |  |
| VIS-447B                     | Cancelled-Use VIS-72                                 |
| VIS-448A                     | Cancelled-Use VIS-544                                |
| VIS-449A                     | Cancelled-Use VIS-454 Code B                         |
| VIS-450C                     | Cancelled-No further requirements                    |
| VIS-451A                     | Cancelled-No further requirements                    |
| VIS-452A                     | Cancelled  |
| VIS-453B                     |  |
| VIS-454R                     | Redacted   |
| VIS-455A                     |  |
| VIS-456A                     |  |
| VIS-457B                     |  |
| VIS-458A                     |  |
| VIS-459B                     |  |
| VIS-460A                     | Obsoleted-No further requirements                    |
| VIS-467B                     |  |
| VIS-468A                     | Cancelled-No further requirements                    |
| VIS-469A                     | Cancelled-No further requirements                    |

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| APU VIS-1                    |                                   |
| VIS-470A                     | Cancelled-No further requirements |
| VIS-471A                     | Cancelled-No further requirements |
| VIS-472B                     | Cancelled-No further requirements |
| VIS-473B                     | Cancelled-No further requirements |
| VIS-474C                     |                                   |
| VIS-475E                     |                                   |
| VIS-476C                     |                                   |
| VIS-478A                     | Cancelled-Use VIS-99              |
| VIS-479A                     |                                   |
| VIS-480B                     |                                   |
| VIS-481K                     |                                   |
| VIS-482A                     | Cancelled-No further requirements |
| VIS-483B                     |                                   |
| VIS-484A                     |                                   |
| VIS-485H                     |                                   |
| VIS-486A                     |                                   |
| VIS-488B                     |                                   |
| VIS-489A                     | Cancelled-No further requirements |
| VIS-492A                     | Cancelled-No further requirements |
| VIS-493H                     |                                   |
| VIS-494A                     | Cancelled-Use MTP-40              |
| VIS-495D                     |                                   |
| VIS-496B                     |                                   |
| VIS-497F                     |                                   |
| VIS-500-1B                   | Cancelled-No further requirements |
| VIS-500-2B                   | Cancelled-No further requirements |
| VIS-500-3A                   | Cancelled-No further requirements |
| VIS-500-4A                   | Cancelled-No further requirements |
| VIS-501A                     |                                   |
| VIS-503C                     |                                   |
| VIS-504A                     |                                   |
| VIS-505E                     | Redacted                          |
| VIS-506F                     |                                   |
| VIS-508A                     |                                   |
| VIS-509F                     |                                   |
| VIS-510A                     |                                   |
| VIS-511E                     |                                   |
| VIS-512B                     |                                   |
| VIS-513E                     |                                   |
| VIS-515C                     |                                   |
| VIS-516A                     |                                   |
| VIS-517B                     |                                   |
| VIS-518A                     |                                   |
| VIS-519A                     |                                   |
| VIS-520A                     |                                   |
| VIS-521E                     |                                   |
| VIS-522A                     |                                   |
| VIS-523R                     |                                   |
| VIS-525P                     |                                   |
| VIS-526H                     |                                   |
| VIS-527N                     | Redacted                          |
| VIS-528C                     | Cancelled-Use VIS-544             |
| VIS-529B                     |                                   |
| VIS-530D                     |                                   |
| VIS-531C                     |                                   |
| VIS-532A                     |                                   |
| VIS-533B                     |                                   |
| VIS-534B                     |                                   |
| VIS-535A                     |                                   |
| VIS-536B                     |                                   |
| VIS-537A                     |                                   |
| VIS-538B                     | Redacted                          |
| VIS-541A                     |                                   |
| VIS-542C                     | Cancelled-Use VIS-544             |
| VIS-543L                     |                                   |
| VIS-544T                     |                                   |
| VIS-544T                     | Redacted                          |
| VIS-545F                     |                                   |
| VIS-546H                     | Redacted                          |

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|------------------------------|--------------|
| APU VIS-1                    |              |
| VIS-547E                     |              |
| VIS-548A                     |              |
| VIS-549J                     |              |
| VIS-550B                     |              |
| VIS-552B                     |              |
| VIS-553A                     |              |
| VIS-554D                     |              |
| VIS-555J                     |              |
| VIS-556A                     |              |
| VIS-557B                     |              |
| VIS-558B                     |              |
| VIS-559C                     |              |
| VIS-560C                     |              |
| VIS-561D                     |              |
| VIS-563D                     |              |
| VIS-564A                     |              |
| VIS-565A                     |              |
| VIS-566B                     |              |
| VIS-567A                     |              |
| VIS-568A                     |              |
| VIS-569B                     |              |
| VIS-570M                     |              |
| VIS-571F                     |              |
| VIS-572D                     |              |
| VIS-573K                     |              |
| VIS-574D                     |              |
| VIS-575A                     |              |
| VIS-576R                     |              |
| VIS-578B                     |              |
| VIS-579B                     |              |
| VIS-581A                     |              |
| VIS-583B                     |              |
| VIS-584F                     |              |
| VIS-585B                     |              |
| VIS-586A                     |              |
| VIS-588C                     |              |
| VIS-590A                     |              |
| VIS-591B                     |              |
| VIS-592B                     |              |
| VIS-593D                     |              |
| VIS-594B                     |              |
| VIS-595C                     |              |
| VIS-596A                     |              |
| VIS-597A                     |              |
| VIS-598R                     |              |
| VIS-599B                     |              |
| * VIS-600P                   |              |
| VIS-601J                     |              |
| VIS-602D                     |              |
| VIS-603A                     |              |
| VIS-606A                     |              |
| VIS-607A                     |              |
| VIS-608E                     |              |
| VIS-609A                     |              |
| VIS-610A                     |              |
| VIS-611A                     |              |
| VIS-613D                     |              |
| VIS-614B                     |              |
| VIS-615A                     |              |
| VIS-616H                     |              |
| VIS-617V                     |              |
| VIS-618C                     |              |
| VIS-619J                     |              |
| VIS-620C                     |              |
| VIS-622E                     |              |
| VIS-625                      | Revision N/C |
| VIS-626                      |              |
| VIS-627                      |              |
| VIS-628A                     |              |

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|------------------------------|-----------------|
| APU VIS-1                    |                 |
| VIS-630A                     |                 |
| VIS-631                      |                 |
| VIS-632                      |                 |
| VIS-633B                     |                 |
| VIS-634                      | New             |
| VIS-635                      | New             |
| VIS-637D                     |                 |
| VIS-638B                     |                 |
| VIS-639F                     |                 |
| VIS-640D                     |                 |
| VIS-641B                     |                 |
| VIS-642A                     |                 |
| VIS-643B                     |                 |
| VIS-644E                     |                 |
| VIS-645A                     | New             |
| VIS-646                      | New             |
| VIS-647                      | New             |
| VIS-648B                     |                 |
| VIS-649                      | New             |
| VIS-650                      | New             |
| VIS-651C                     |                 |
| VIS-656                      | New             |
| VIS-657                      | Initial Release |
| VIS-658                      | New             |
| VIS-659B                     |                 |
| VIS-660A                     | New             |
| VIS-662                      | New             |
| VIS-663                      | New             |
| + VIS-664                    | Initial Release |
| VIS-703B                     | Cancelled       |
| VIS-704B                     |                 |
| VIS-705A                     |                 |
| VIS-708                      | New             |
| VIS-710E                     |                 |
| VIS-711                      | New             |

| <u>Radiographic Inspection Standards</u> |                                   |
|--|-----------------------------------|
| XRS-Master-P                             |                                   |
| XRS-B                                    | Cancelled-Use XRS-Master          |
| XRS-2D                                   |                                   |
| XRS-3                                    | Obsoleted                         |
| XRS-4C                                   | Redacted                          |
| XRS-5                                    | Obsoleted                         |
| XRS-6P                                   | Cancelled-Use XRS-99              |
| XRS-7                                    | Obsoleted                         |
| XRS-8                                    | Obsoleted                         |
| XRS-9                                    | Cancelled-Use XRS-Master          |
| XRS-10                                   | Obsoleted-Use XRS-20              |
| XRS-11                                   | Obsoleted-Use PWA-321 or PWA-331  |
| XRS-12B                                  |                                   |
| XRS-13                                   | Obsoleted                         |
| XRS-14                                   | Cancelled-Use XRS-31              |
| XRS-15B                                  |                                   |
| XRS-16A                                  | Obsoleted-Use PWA-321 or PWA-331  |
| XRS-17L                                  | Redacted                          |
| XRS-18E                                  |                                   |
| XRS-19A                                  | Cancelled                         |
| XRS-20H                                  |                                   |
| XRS-21B                                  |                                   |
| XRS-22                                   | Obsoleted                         |
| XRS-23g                                  |                                   |
| XRS-24                                   | Obsoleted-Use XRS-23              |
| XRS-25A                                  | Cancelled                         |
| XRS-26                                   | Cancelled-Use XRS-20              |
| XRS-27D                                  |                                   |
| XRS-28B                                  | Obsoleted-No further requirements |
| XRS-29B                                  | Obsoleted-No further requirements |
| XRS-30                                   | Cancelled-Use XRS-20              |
| XRS-31D                                  |                                   |
| XRS-32P                                  | Redacted                          |

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|------------------------------|--|
| APU VIS-1                    |  |
| XRS-33P                      | Redacted   |
| XRS-34B                      | Obsoleted-No further requirements                  |
| XRS-35D                      | Obsoleted-No further requirements                  |
| XRS-36                       | Cancelled  |
| XRS-37A                      | Obsoleted-No further requirements                  |
| XRS-38A                      | Cancelled  |
| XRS-39                       | Cancelled  |
| XRS-40                       | Cancelled  |
| XRS-41                       | Cancelled-Use XRS-707                              |
| XRS-42B                      |  |
| XRS-43                       | Cancelled-Use XRS-45                               |
| XRS-44E                      | Redacted   |
| XRS-45W                      |  |
| XRS-46A                      | Obsoleted-No further requirements                  |
| XRS-47B                      | Obsoleted-No further requirements                  |
| XRS-48J                      | Cancelled-Use XRS-99                               |
| XRS-49C                      |  |
| XRS-50B                      |  |
| XRS-51D                      |  |
| XRS-52G                      |  |
| XRS-53B                      | Cancelled  |
| XRS-56K                      |  |
| XRS-57D                      |  |
| XRS-58D                      | Obsoleted-No further requirements                  |
| XRS-59B                      |  |
| XRS-61E                      | Obsoleted-No further requirements                  |
| XRS-62A                      | Cancelled  |
| XRS-63C                      | Cancelled  |
| XRS-65B                      |  |
| XRS-67A                      |  |
| XRS-68G                      |  |
| XRS-69C                      |  |
| XRS-71F                      |  |
| XRS-72B                      |  |
| XRS-75A                      | Cancelled  |
| XRS-77B                      |  |
| XRS-78B                      |  |
| XRS-80A                      | Cancelled-No Longer Used                           |
| XRS-81C                      |  |
| XRS-82B                      |  |
| XRS-83H                      | Redacted   |
| XRS-84A                      |  |
| XRS-85A                      |  |
| XRS-87B                      |  |
| XRS-88D                      | Cancelled-Use XRS-45                               |
| XRS-89B                      |  |
| XRS-90B                      |  |
| XRS-91C                      |  |
| XRS-92A                      |  |
| XRS-93A                      |  |
| XRS-94B                      |  |
| XRS-95A                      | Cancelled-See MTU specs MTP 20, MTP 73 and MTP 140 |
| XRS-96A                      |  |
| XRS-97A                      | Cancelled-See MTU spec MTP 21                      |
| XRS-98B                      |  |
| XRS-99A                      |  |
| XRS-100A                     |  |
| XRS-101D                     |  |
| XRS-102                      | Cancelled  |
| XRS-103B                     |  |
| XRS-106B                     |  |
| XRS-107A                     |  |
| XRS-108B                     |  |
| XRS-109A                     |  |
| XRS-111                      | New  |
| XRS-201                      | Cancelled-Parts insp. to this std. inactive        |
| XRS-202A                     | Cancelled-Parts insp. to this std. inactive        |
| XRS-203B                     | Cancelled-Parts insp. to this std. inactive        |
| XRS-204H                     | Cancelled-Parts insp. to this std. inactive        |
| XRS-205F                     | Cancelled-Parts insp. to this std. inactive        |
| XRS-206A                     | Cancelled-Parts insp. to this std. inactive        |
| XRS-207A                     | Cancelled-Parts insp. to this std. inactive        |



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| <u>APU CH53-K Composites</u> |   |
|------------------------------|---|
| APU VIS-1                    |   |
| XRS-208E                     | Cancelled-Parts insp. to this std. inactive |
| XRS-209D                     | Cancelled-Parts insp. to this std. inactive |
| XRS-210A                     | Cancelled-Parts insp. to this std. inactive |
| XRS-211A                     | Cancelled-Parts insp. to this std. inactive |
| XRS-212A                     | Cancelled-Parts insp. to this std. inactive |
| XRS-300D                     |   |
| XRS-301B                     | Cancelled-Use XRS-306                       |
| XRS-302B                     |   |
| XRS-303B                     |   |
| XRS-304A                     | Cancelled-No Further Requirements           |
| XRS-305B                     |   |
| XRS-306D                     |   |
| XRS-307C                     |   |
| XRS-308B                     | Obsoleted-No further requirements           |
| XRS-309A                     | Obsoleted-No further requirements           |
| XRS-310B                     | Cancelled-Use XRS-Master                    |
| XRS-311B                     | Obsoleted-No further requirements           |
| XRS-312A                     | Obsoleted-No further requirements           |
| XRS-313C                     |   |
| XRS-314G                     |   |
| XRS-315G                     |   |
| XRS-316M                     |   |
| XRS-317D                     |   |
| XRS-318D                     |   |
| XRS-319G                     |   |
| XRS-320B                     | Cancelled                                   |
| XRS-321A                     |   |
| XRS-322B                     | Cancelled                                   |
| XRS-323C                     |   |
| XRS-324D                     | Cancelled-Use XRS-96                        |
| XRS-325C                     |   |
| XRS-327A                     |   |
| XRS-328                      | New   |
| XRS-330                      | New   |
| XRS-370E                     | Obsoleted-No further requirements           |
| XRS-701E                     |   |
| XRS-702B                     |   |
| XRS-706A                     |   |
| XRS-707B                     |   |
| XRS-708B                     |   |

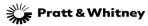
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**Subcontractor Responsibilities (SR)**

|  |                   |                      |
|--|-------------------|----------------------|
|  | SR-001A           | SR-031C<br>Cancelled |
|  | SR-002C Cancelled | SR-032C              |
|  | SR-003B           | SR-034B              |
|  | SR-004 Cancelled  | SR-035               |
|  | SR-005G           | SR-036G              |
|  | SR-006            | SR-037A Cancelled    |
|  | SR-007A           | SR-039A Cancelled    |
|  | SR-008C           | SR-040A Cancelled    |
|  | SR-010            | SR-041B<br>Cancelled |
|  | SR-011C           | SR-043C              |
|  | SR-012B           | SR-044C              |
|  | SR-013B           | SR-045A              |
|  | SR-014D Cancelled | SR-046A              |
|  | SR-015D           | SR-047A Cancelled    |
|  | SR-016A Cancelled | SR-048A Cancelled    |
|  | SR-017A Cancelled | SR-049               |
|  | SR-018E           | SR-050B              |
|  | SR-019A           | SR-051B              |
|  | SR-020A           | SR-052A Cancelled    |
|  | SR-021A           | SR-054F              |
|  | SR-022D Cancelled | SR-055A              |
|  | SR-024A Cancelled | SR-056               |
|  | SR-025C Cancelled | SR-057B              |
|  | SR-026A Cancelled | SR-058A              |
|  | SR-028A Cancelled | SR-059E              |
|  | SR-029C Cancelled | SR-066               |
|  | SR-030D Cancelled | SR-1001P             |

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