## Standards Manager Web Standards List PFI-Pipe Fabrication Institute

| Id | Number | Title  | Year | Organization | Page |
|----|--------|--|------|--------------|------|
| 1  | ES-7   | Minimum Length and Spacing for Welded Nozzles  | 2021 | PFI          |      |
| 2  | ES-16  | Access Holes, Bosses and Plugs for Radiographic Inspection of Pipe Welds   | 2021 | PFI          |      |
| 3  | ES-22  | Recommended Practice for Color Coding of Piping Materials  | 2021 | PFI          |      |
| 4  | ES-26  | Welded Load Bearing Attachments to Pressure Retaining Piping Materials   | 2021 | PFI          |      |
| 5  | TB-10  | Guidelines for Calculating Factored Weld Diameter Inches for Project Reporting   | 2021 | PFI          |      |
| 6  | TB-11  | Cleaning of Rust on Stainless Steel  | 2021 | PFI          |      |
| 7  | TB-7   | Guidelines for Fabrication and Installation of Stainless Steel High Purity Distribution Systems  | 2020 | PFI          |      |
| 8  | ES-11  | Permanent Marking on Piping Materials  | 2020 | PFI          |      |
| 9  | ES-3   | Fabricating Tolerances   | 2020 | PFI          |      |
| 10 | ES-5   | Cleaning of Fabricated Piping  | 2020 | PFI          |      |
| 11 | ES-31  | Standard for Protection of Ends of Fabricated Piping Assemblies  | 2020 | PFI          |      |
| 12 | ES-34  | Temporary Painting/Coating of Fabricated Piping  | 2020 | PFI          |      |
| 13 | ES-41  | Standard for Material Control And Traceability of Piping Components  | 2020 | PFI          |      |
| 14 | ES-42  | Standard for Positive Material Identification of Piping Components using Portable X-ray Emission Type Test Equipment                                     | 2020 | PFI          |      |
| 15 | ES-43  | Standard for Protection of Austenitic Stainless Steel and Nickel Alloy Materials   | 2020 | PFI          |      |
| 16 | ES-37  | Standard for Loading and Shipping of Piping Assemblies   | 2020 | PFI          |      |
| 17 | ES-48  | Random Examination   | 2020 | PFI          |      |
| 18 | ES-50  | Internal Oxidation for Piping Welds  | 2020 | PFI          |      |
| 19 | TB-1   | Pressure-Temperature Ratings of Seamless Pipe Used in Power Plant Piping Systems   | 2019 | PFI          |      |
| 20 | TB-3   | Guidelines Clarifying Relationships and Design Engineering Responsibilities between Purchasers' Engineers and Pipe Fabricator or Pipe Fabricator Erector | 2019 | PFI          |      |
| 21 | TB-5   | Minimum Information Required for the Bidding of Pipe Fabrication   | 2019 | PFI          |      |
| 22 | ES-49  | Guidelines for Installation of Integrally Reinforced Branch Connection Fittings  | 2019 | PFI          |      |
| 23 | ES-39  | Fabricated Tolerances for Grooved Piping Systems   | 2019 | PFI          |      |
| 24 | ES-44  | Drafting Practices Standard  | 2019 | PFI          |      |
| 25 | ES-32  | Tool Calibration   | 2019 | PFI          |      |
| 26 | ES-2   | Method of Dimensioning Piping Assemblies   | 2019 | PFI          |      |
| 27 | ES-20  | Wall Thickness Measurement by Ultrasonic Examination   | 2019 | PFI          |      |
| 28 | ES-27  | "Visual Examination" the Purpose, Meaning and Limitation of the Term   | 2019 | PFI          |      |
| 29 | ES-29  | Internal Abrasive Blast Cleaning of Ferritic Piping  | 2019 | PFI          |      |
| 30 | TB-8   | Recommended Practice for the Fabrication of Polyvinylidene Fluoride (PVDF) Piping  | 2019 | PFI          |      |
| 31 | ES-47  | Welding of Internally Clad Piping  | 2019 | PFI          |      |
| 32 | ES-24  | Pipe Bending Methods, Tolerances, Process and Material Requirements  | 2018 | PFI          |      |
| 33 | ES-21  | Internal Machining and Fit-Up of GTAW Root Pass Circumferential Butt Welds   | 2018 | PFI          |      |
| 34 | ES-4   | Hydrostatic Testing of Fabricated Piping   | 2018 | PFI          |      |
| 35 | ES-45  | Recommended Practice for Local Post-Weld Heat Treatment  | 2018 | PFI          |      |
| 36 | ES-40  | Method of Dimensioning Grooved Piping Assemblies   | 2017 | PFI          |      |

| 38<br>39<br>40 | ES-36<br>ES-22 | Branch Reinforcement Work Sheets   |      |     |   |
|----------------|----------------|--|------|-----|---|
|                | EG 22          | Branch Itemicrounds ( circumstates)  | 2016 | PFI | 0 |
| 40             | ES-22          | Recommended Practice for Color Coding of Piping Materials  | 2016 | PFI | 0 |
|                | ES-35          | Nonsymmetrical Bevels and Joint Configurations for Butt Welds  | 2016 | PFI |   |
| 41             | ES-24          | Pipe Bending Methods, Tolerances, Process and Material Requirements  | 2015 | PFI | 0 |
| 42             | ES-4           | Hydrostatic Testing of Fabricated Piping   | 2013 | PFI | 0 |
| 43             | ES-5           | Cleaning of Fabricated Piping  | 2013 | PFI | 0 |
| 44             | ES-7           | Minimum Length and Spacing for Welded Nozzles  | 2013 | PFI | 0 |
| 45             | ES-2           | Method of Dimensioning Piping Assemblies   | 2013 | PFI | 0 |
| 46             | ES-16          | Access Holes, Bosses and Plugs for Radiographic Inspection of Pipe Welds   | 2013 | PFI | 0 |
| 47             | ES-20          | Wall Thickness Measurement by Ultrasonic Examination   | 2013 | PFI | 0 |
| 48             | ES-22          | Recommended Practice for Color Coding of Piping Materials  | 2013 | PFI | 0 |
| 49             | ES-24          | Pipe Bending Methods, Tolerances, Process and Material Requirements  | 2013 | PFI | 0 |
| 50             | ES-26          | Welded Load Bearing Attachments to Pressure Retaining Piping Materials   | 2013 | PFI | 0 |
| 51             | ES-32          | Tool Calibration   | 2013 | PFI | 0 |
| 52             | ES-44          | Drafting Practices Standard  | 2013 | PFI | 0 |
| 53             | ES-45          | Recommended Practice for Local Post-Weld Heat Treatment  | 2013 | PFI | 0 |
| 54             | ES-47          | Welding Of Internally Clad Piping  | 2013 | PFI | 0 |
| 55             | ES-48          | Random Examination   | 2013 | PFI | 0 |
| 56             | ES-49          | Guidelines For Installation Of Integrally Reinforced Branch Connection Fittings  | 2013 | PFI | 0 |
| 57             | TB-1           | Pressure-Temperature Ratings of Seamless Pipe Used in Power Plant Piping Systems   | 2013 | PFI | 0 |
| 58             | TB-3           | Guidelines Clarifying Relationships and Design Engineering Responsibilities between Purchasers' Engineers and Pipe Fabricator or Pipe Fabricator Erector | 2013 | PFI | 0 |
| 59             | TB-5           | Minimum Information Required for the Bidding of Pipe Fabrication   | 2013 | PFI | 0 |
| 60             | TB-8           | Recommended Practice for the Fabrication of Polyvinylidene Fluoride (PVDF) Piping  | 2013 | PFI | 0 |
| 61             | ES-36          | Branch Reinforcement Work Sheets   | 2013 | PFI | 0 |
| 62             | ES-43          | Standard For Protection Of Austenitic Stainless Steel and Nickel Alloy Materials   | 2013 | PFI | 0 |
| 63             | ES-1           | Internal Machining and Solid Machined Backing Rings for Circumferential Butt Welds   | 2010 | PFI | 0 |
| 64             | ES-40          | Method of Dimensioning Grooved Piping Assemblies   | 2010 | PFI | 0 |
| 65             | ES-27          | "Visual Examination" the Purpose, Meaning and Limitation of the Term   | 2010 | PFI | 0 |
| 66             | ES-21          | Internal Machining and Fit-Up of GTAW Root Pass Circumferential Butt Welds   | 2010 | PFI | 0 |
| 67             | ES-3           | Fabricating Tolerances   | 2009 | PFI | 0 |
| 68             | ES-29          | Internal Abrasive Blast Cleaning of Ferritic Piping  | 2006 | PFI | 0 |
| 69             | TB-9           | Customary Fitting, Forging, Plate and Bar Materials used with Pipe   | 2006 | PFI |   |
| 70             | ES-42          | Standard For Positive Material Identification Of Piping Components Using Portable X-ray Emission Type Test Equipment                                     | 2005 | PFI | 0 |
| 71             | ES-31          | Standard For Protection Of Ends Of Fabricated Piping Assemblies  | 2004 | PFI | 0 |
| 72             | TB-7           | Guidelines for Fabrication and Installation of Stainless Steel High Purity Distribution Systems  | 2004 | PFI | 0 |
| 73             | ES-35          | Nonsymmetrical Bevels And Joint Configurations For Butt welds  | 2003 | PFI | 0 |
| 74             | ES-41          | Standard For Material Control And Traceability Of Piping Components  | 2003 | PFI | 0 |
| 75             | ES-30          | Random Ultrasonic Examination of Butt Welds  |      | PFI | 0 |

| 76  | ES-34 | Temporary Painting/Coating Of Fabricated Piping  | 2003 | PFI | 0 |
|-----|-------|--|------|-----|---|
| 77  | ES-37 | Standard for Loading and Shipping of Piping Assemblies   | 2003 | PFI | 0 |
| 78  | ES-39 | Fabricated Tolerances for Grooved Piping Systems   | 2003 | PFI | 0 |
| 79  | ES-11 | Permanent Marking on Piping Materials  | 2003 | PFI | 0 |
| 80  | ES-27 | "Visual Examination" the Purpose, Meaning and Limitation of the Term   | 2003 | PFI | 0 |
| 81  | ES-34 | TEMPORARY PAINTING/COATING OF FABRICATED PIPING  | 2003 | PFI | 0 |
| 82  | ES-37 | Standard for Loading and Shipping of Piping Assemblies   | 2003 | PFI | 0 |
| 83  | ES-42 | STANDARD FOR POSITIVE MATERIAL IDENTIFICATION OF PIPING COMPONENTS USING PORTABLE X-RAY EMISSION TYPE TEST EQUIPMENT                                     | 2002 | PFI | 0 |
| 84  | ES-44 | Drafting Practices Standard  | 2002 | PFI | 0 |
| 85  | ES-45 | Recommended Practice for Local Post-Weld Heat Treatment  | 2002 | PFI | 0 |
| 86  | ES-46 | Bar Coding   | 2002 | PFI | 0 |
| 87  | TB-3  | Guidelines Clarifying Relationships and Design Engineering Responsibilities between Purchasers' Engineers and Pipe Fabricator or Pipe Fabricator Erector | 2002 | PFI | 0 |
| 88  | TB-5  | Minimum Information Required for the Bidding of Pipe Fabrication   | 2002 | PFI | 0 |
| 89  | ES-29 | Internal Abrasive Blast Cleaning of Ferritic Piping  | 2002 | PFI | 0 |
| 90  | ES-22 | Recommended Practice for Color Coding of Piping Materials  | 2002 | PFI | 0 |
| 91  | ES-25 | Random Radiography of Pressure Retaining Girth Butt Welds  | 2002 | PFI | 0 |
| 92  | ES-26 | Welded Load Bearing Attachments to Pressure Retaining Piping Materials   | 2002 | PFI | 0 |
| 93  | ES-5  | Cleaning of Fabricated Piping  | 2002 | PFI | 0 |
| 94  | TB-8  | Recommended Practice for the Fabrication of Polyvinylidene Fluoride (PVDF) Piping  | 2001 | PFI | 0 |
| 95  | ES-36 | Branch Reinforcement Work Sheets   | 1999 | PFI | 0 |
| 96  | ES-35 | Nonsymmetrical Bevels and Joint Configurations for Butt Welds  | 1998 | PFI | 0 |
| 97  | ES-41 | Material Control and Traceability of Piping Components   | 1998 | PFI | 0 |
| 98  | ES-11 | Permanent Marking on Piping Materials  | 1998 | PFI | 0 |
| 99  | ES-21 | Internal Machining and Fit-Up of GTAW Root Pass Circumferential Butt Welds R(2001)   | 1998 | PFI | 0 |
| 100 | ES-20 | Wall Thickness Measurement by Ultrasonic Examination R(2002)   | 1997 | PFI | 0 |
| 101 | TB-7  | Guidelines for Fabrication and Installation of Stainless Steel High Purity Distribution Systems R(2000)  | 1997 | PFI | 0 |
| 102 | ES-43 | Protection of Austenitic Stainless Steel and Nickel Alloy Materials R(2002)  | 1996 | PFI | 0 |
| 103 | ES-39 | Fabricated Tolerances for Grooved Piping Systems R(2003)   | 1994 | PFI | 0 |
| 104 | ES-40 | Method of Dimensioning Grooved Piping Assemblies R(2000)   | 1994 | PFI | 0 |
| 105 | TB-1  | Pressure-Temperature Ratings of Seamless Pipe Used in Power Plant Piping Systems R(1999)   | 1994 | PFI | 0 |
| 106 | ES-7  | Minimum Length and Spacing for Welded Nozzles R(2002)  | 1994 | PFI | 0 |
| 107 | ES-32 | Tool Calibration R(2000)   | 1993 | PFI | 0 |
| 108 | ES-1  | Internal Machining and Solid Machined Backing Rings for Circumferential Butt Welds R(2001)   | 1992 | PFI | 0 |
| 109 | ES-2  | Method of Dimensioning Piping Assemblies R(2000)   | 1992 | PFI | 0 |
| 110 | ES-31 | Standard for Protection of Ends of Fabricated Piping Assemblies R(2000)  | 1992 | PFI | 0 |
| 111 | ES-24 | Pipe Bending Methods, Tolerances, Process and Material Requirements R(2001)  | 1992 | PFI | 0 |
| 112 | ES-30 | Random Ultrasonic Examination of Butt Welds R(1998)  | 1986 | PFI | 0 |
| 113 | ES-4  | Hydrostatic Testing of Fabricated Piping R(2002)   | 1985 | PFI | 0 |
| 114 | ES-16 | Access Holes, Bosses and Plugs for Radiographic Inspection of Pipe Welds R(2001)   | 1985 | PFI | 0 |
| 115 | ES-3  | Fabricating Tolerances R(2000)   | 1981 | PFI | 0 |

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