

## **What's New – Updated March 24, 2017**

### **March 24, 2017**

#### **Global Common Specifications**

- SD-1040 rev 09MR17, Fanuc Robot Specification
  - Initial Release

### **March 6, 2017**

#### **Global Common Specifications**

- SD-000 rev 28FE17, Machinery and Equipment Specifications
- SD-007 rev 27FE17, Approved Components List
  - Updated electrical components
- SD-1032 rev 21FE17, Programmable Logic Controller Application Specification
- SD-1033 rev 23FE17, RFID Application Specification
- SD-1041 rev 31JA17, CNC Lathe Program Structure Specification
  - Initial Release
- SD-1042 rev 31JA17, CNC Mill Program Structure Specification
  - Initial Release

#### **Toolkits, Templates, and Forms**

- PLC\_HMI\_Template\_Files\_rev\_2017\_02\_21.zip
  - \* Includes a *What's New - Logic Specification SD-1032 and PLC Files* document

### **August 22, 2016**

#### **Global Common Specifications**

- SD-000 rev 22AU16, Machinery and Equipment Specifications
- SD-003 rev 22AU16, General Drawing and Manuals Specification
  - Corrected Multiple Formatting errors from 01MY16 revision
- SD-1035 Obsolete, PLC Type Traceability Considerations Guideline
  - Obsolete, Rockwell MicroLogix PLC's no longer permitted for traceability applications.

### **June 5, 2016**

#### **Toolkits, Templates, and Forms**

- Standardized Work Instruction
  - Updated Forms

### **May 2, 2016**

#### **Global Common Specifications**

- SD-000 rev 01MY16, Machinery and Equipment Specifications
- SD-002 rev 31MR16, Manufacturing Equipment Statistical Qualification Requirements
  - QCL (Quality Control Level) capability requirements revised
- SD-003 rev 01MY16, General Drawing and Manuals Specification
  - Added Indonesia site code
  - Added Title Block naming clarification
  - Updated Controls Drawings Standards

#### **ME Folders/CAD Drawings Online**

- ME Folders Online process guidelines, rev 15FE16
  - Format clarification for Title Block hyphen between Folder Type and Drawing Number.

### **January 13, 2016**

#### **Global Common Specifications**

- SD-000 rev 13JA16, Machinery and Equipment Specifications
- SD-1034 rev 13JA16, Machine Control Traceability Interface
  - Rewrite of Previous SD-1034, Machine Control Interface Guideline into specification.

### **December 15, 2015**

#### **Global Common Specifications**

- SD-007 rev 10DE15, Approved Components List
  - Corrected Updated Fluid Power formatting error and missing information. 10DE15 Changes are highlighted in green. 12OC15 Changes are highlighted in yellow.

#### **ME Folders/CAD Drawings Online**

- ME Folders Online process guidelines, rev 09DE15
  - Format clarification for Title Block

### **October 26, 2015**

#### **Global Common Specifications**

- SD-000 rev 15OC15, Machinery and Equipment Specifications
- SD-003 rev 15OC15, General Drawing and Manuals Specification
  - Added Site Code requirement to Drawing Name prefix
  - Added Wuhu site code
- SD-007 rev 12OC15, Approved Components List
  - Updated Fluid Power and Electrical Sections
  - Added 3nine Mist Separators for Saginaw to Mechanical Section
- SD-010 rev 15OC15, Standard Equipment Specification
  - Added 3nine Mist Separators for Saginaw Equipment
  - Update Site Codes
  - Added Site Code requirement to Drawing Name prefix
- GM 1720 rev 5 07JA15, General Motors Global Lubrication Standard LS-1
  - Added to Nexteer Data Exchange site with permission to distribute from General Motors.
- GM 1721 rev 6 01JA11, General Motors Maintenance Lubricant Standard LS-2
  - Added to Nexteer Data Exchange site with permission to distribute from General Motors.

#### **ME Folders/CAD Drawings Online**

- ME Folders Online process guidelines, rev 26OC15

### **July 23, 2015**

#### **Global Common Specifications**

- SD-000 rev 23JL15, Machinery and Equipment Specifications
- SD-002 rev 01JL15, Manufacturing Equipment Statistical Qualification Requirements
  - Added CMM Reference Publication
- SD-004 rev 15JN15, Electrical Specification for Industrial Machinery

- Added Ethernet Cabling requirements

### **Toolkits, Templates, and Forms**

- PLC and HMI Screen Templates, revised 22JN15
  - Updated Templates
  - Combined PLC and HMI Screen Template Files into one ZIP file.

### **April 27, 2015**

### **Toolkits, Templates, and Forms**

- MEAutoCADTlktN300 rev 16AP15, AutoCAD Toolkit for version 2015

### **ME Folders/CAD Drawings Online**

- ME Folders Online process guidelines, rev 21AP15

### **March 24, 2015**

### **Global Common Specifications**

- SD-000 rev 16MR15, Machinery and Equipment Specifications
- SD-003 rev 16MR15, General Drawing and Manual Specification
  - Added Chongqing and Liuzhou sites sections 2.2.1 – 2.2.3
  - Updated AutoCAD format to 2012 section 3.2.1
  - Updated NX file format to NX7.5 or NX9.0 section 3.3.2

### **Product Design**

- Added a new category called “Product Design”
  - Added NX9.0 PD Supplier Toolkit

### **February 10, 2015**

### **ME Folders/CAD Drawings Online**

- X3012 Request for Folder Form revised 09FE15
- X3386 ME Folder Request for Change Form revised 09FE15

### **Global Common Specifications**

- SD-000 rev 09FE15, Machinery and Equipment Specifications
- SL 1.0 rev 01MR12, Nexteer Automotive Sound Level Specification

### **Dec 5, 2014**

### **Global Common Specifications**

- SD-017 rev 02DE14, Design-In Ergonomics

### **Previous version of Specifications (reference only)**

- SD-017 rev 06NO09, Design-In Ergonomics

### **July 31, 2014**

### **Global Common Specifications**

- SD-000 rev 14JL14, Machinery and Equipment Specifications
- SD-004 rev 14JL14, Electrical Specification for Industrial Machinery

- SD-1020 rev 14JL14, Human Machine Interface Application Specification
- SD-1032 rev 14JL14, Programmable Logic Controller Application Specification

### **Toolkits, Templates, and Forms**

- HMI Templates, revised 14JL14
- PLC Templates, revised 14JL14

### **Previous version of Specifications (reference only)**

**Note:** Updates to the complete list; updated to each previous version.

## **June 30, 2014**

### **Global Common Specifications**

- SD-000 rev 30JN14
- SD-007 rev 06JN14
- SD-013 rev 01JN14
- SD-014 rev 01JN14
- SD-1033 rev 20DE13
- SD-1034 rev 21MR14
- SD-1039 rev 31MR13 – Traceability Systems Bill Of Process

## **March 4, 2014**

### **Global Common Specifications**

- SD-000 rev 04MR14
- SD-001 rev 01NO13
- SD-002 rev 03JA14
- SD-010 rev 01NO13
- SD-011 rev 18DE13
- SD-1038 rev 31MR13 – Specification for the Application of Automatic Operator-Interface Safety Doors

### **Toolkits, Templates, and Forms**

- Risk Assessment Toolkit rev 24JA14

### **May 21, 2013**

#### **Global Common Specifications**

- SD-1036 rev 09JA13 – ESD Environmental Requirements for Electronic Assembly at Nexteer
- SD-1037 rev 09JA13 – ESD Requirements for Electronic Assembly Equipment and Part Handling in an EPA

### **January 4, 2013**

#### **Toolkits, Templates, and Forms**

**Note:** Note added that AutoCAD toolkits are specifically designed for AutoCAD 2008 and 2012 only.

### **December 4, 2012**

#### **Global Common Specifications**

- SD-000 rev 27NO12 – Machinery and Equipment Specifications
- SD-002 rev 27NO12 – Manufacturing Equipment Statistical Qualifications Requirements

### **October 24, 2012**

#### **Global Common Specifications**

- SD-000 rev 15OC12 – Machinery and Equipment Specifications
- SD-001 rev 15OC12 – General Manufacturing Equipment Specification
- SD-007 rev 15OC12 – Approved Components List
- SD-1035 rev 21AU12 – PLC Type Traceability Considerations Guideline

#### **ME Folders/CAD Drawings Online (TC Eng formally iMAN)**

- ME Folders Online process guidelines, rev 07 30 12

#### **Toolkits, Templates, and Forms**

- SD-1020 Allen Bradley FTView v6.0 rev 31AU12 - HMI Screens Application Files/Templates (referenced in SD-1020)
- SD-1032 Allen Bradley Logic Template rev 15OC12 - PLC Logic Template Files (referenced in SD-1032)

### **May 23, 2012**

#### **ME Folders/CAD Drawings Online (TC Eng formally iMAN)**

- DS3012 Request for Folder Form 11JA10.xls
- DS3386 ME Folder Request for Change, rev 22FE12

## May 17, 2012

### **Global Common Specifications**

- SD-017 rev 06NO09 – Design-In Ergonomics
- SD-1020 rev 02DE11 – Human Machine Interface Application Specification
- SD-1033 rev 30NO11 – RFID Part Tracking Guideline.

### **Toolkits, Templates, and Forms**

- X2518 DPL Template rev 14MY12 - Drawing Parts List Template and Associated Training
- SD-1020 Allen Bradley FTView v5.1 - HMI Screens Application Files/Templates (referenced in SD-1020)
- SD-1020 Allen Bradley FTView v6.0 - HMI Screens Application Files/Templates (referenced in SD-1020)
- SD-1032 Allen Bradley Logic Template rev 26AP12 - PLC Logic Template Files (referenced in SD-1032)

## August 5, 2011

### **Toolkits, Templates, and Forms**

- DS3012 Request for Folder Form 11JA10.xls

## January 25, 2011

**Nexteer Border Requirements – Important / Please read** attached Policy Letter dated January 25, 2011.

### **Global Common Specifications**

- SD-000 rev 17DE10 – Specification references updated
- SD-007 rev 17DE10 – See attached SD-007 rev 17DE10 Changes.pdf
- SD-012 rev 17DE10 – Formally DA-2006, Design-In Health & Safety Specification, section 3 (Risk Assessment) updated. For additional impact on of risk assessment changes, reference attached SD-011 Safety Circuit Specification changes.
- SD-1032 rev 17DE10 – Programmable Logic Controller Application Specification. **SD-000 requires compliance to this specification.**
- SD-1033 rev AU10 – RFID Part Tracking Guideline. **This document applies when referenced in the Manufacturing Equipment Specification (T-Spec).**
- SD-1034 rev 17DE10 – Traceability Interface Guideline. **This document applies when referenced in the Manufacturing Equipment Specification (T-Spec).**

### **Toolkits, Templates, and Forms**

- MEAutoCADTiktN110 rev 28AP10
- DPL Template DS2518 rev 01MR10
- Risk Assessment Toolkit rev 04JA11

**December 17, 2009**

### **Global Common Specifications**

**Note:** All Nexteer Automotive Specifications are Global Common ("GC" removed)

- SD-000 rev 06NO09 – Specification references updated
- SD-001 rev 06NO09 – Sections 2.4, 3.19, 5.4 and Appendix A (10) updated
- SD-002 rev 06NO09
- SD-003 rev 06NO09 – Sections 2.1.3 and 6.2.3 updated
- SD-004 rev 06NO09
- SD-005 rev 06NO09
- SD-007 rev 06NO09 – Added SMC ISO valves, Festo 63mm bore cylinders and Rockwell PanelView Plus Compact HMI's
- SD-010 rev 06NO09 – Sections 4.4, 5.7 and Appendix A (11) updated
- SD-011 rev 06NO09 – see attached SD-011 rev 06NO09 Changes.pdf
- SD-012 rev 06NO09 – formally DA-2006, Design-In Health & Safety Specification, section 3 updated
- SD-013 rev 06NO09 – formally DA-2002, Hydraulic Fluid Power Rules – Addendum
- SD-014 rev 06NO09 – formally DA-2003, Pneumatic Fluid Power Rules – Addendum
- SD-015 rev 06NO09 – formally Delphi Lean Equipment Design
- SD-016 rev 06NO09 – formally DA-2005, Lean Equipment Controls Design
- SD-017 rev 06NO09 – formally Delphi Design-In Ergonomics Guidelines
- SD-1020 rev 06NO09
- SD-1022 rev 06NO09
- SD-1032 rev 06NO09

### **ME Folders/CAD Drawings Online (TC Eng formally iMAN)**

- ME Folders Online process guidelines, rev 16OC09
- Tooling Drawing Example, rev 09DE09
- Controls Drawing Example, rev 16DE09
- DS3386 ME Folder Request for Change, rev 09DE09

### **Toolkits, Templates, and Forms**

- MEAutoCADTlktN101, rev 16DE09
- DPL Template DS2518, rev 09DE09

### **Previous Version Specifications (reference only)**

**Note:** The previous version of each specification will be available here.

## **August 11, 2009**

### **Toolkits, Templates, and Forms**

- ME Folders Online Process Guideline, rev 10AU09

## **June 24, 2009**

- SD-000-GC rev 08JN09 – see attached SD-000-GC rev 31JN09 Changes.pdf
- SD-001-GC rev 31MY09 – see attached SD-001-GC rev 31JN09 Changes.pdf
- SD-003-GC rev 31MY09 – see attached SD-003-GC rev 31JN09 Changes.pdf
- SD-004-GC rev 31MY09 – see attached SD-004-GC rev 31JN09 Changes.pdf
- SD-005 rev 08JN09 – Criteria for linearity study and measurement system for Kappa study.
- SD-007-GC rev 31MY09 – see attached SD-007-GC rev 31JN09 Changes.pdf
- SD-010-GC rev 31MY09 – see attached SD-010-GC rev 31JN09 Changes.pdf

## **February 6, 2009**

- SD-000 Rev 02FE09 – SD-002 & SD-005 revision dates updated.
- SD-002 Rev 02FE09 – Document all characteristics **not** verified at machine qualification.
- SD-005 Rev 10DE08 – Linearity Study Requirements added.



### **November 10, 2008**

- SD-000 Rev 10NO08 – SD-002 revision date updated.
- SD-002 Rev 21OC08 – Cpk indices increased to 1.67, QCI references added and KCC references removed.

### **October 21, 2008**

#### **Toolkits, Templates, and Forms (formally Toolkits and Templates)**

- Excel Drawing Parts List Template, revised 10/09/08  
**Note:** DPL will work on Excel 2000, 2003, and 2007. Auto filtering and sorting is now available on the index page.

### **August 26, 2008**

#### **Toolkits, Templates and Forms (formally Toolkits and Templates)**

- SD-1020 Proface HMI Templates, revised 8/25/08
- SD-1020 Allen Bradley HMI Templates, revised 8/25/08
- SD-1032 Allen Bradley Logic Templates, revised 8/25/08
- Excel Drawing Parts List Template, revised 8/25/08
- DS3012 Request for Folder Form, revised 3/31/04  
**Note:** This form is the request to Steering Reprographics to make drawing folder available
- DS3386 ME Folder Request for Change Form, revised 8/25/08  
**Note:** This form is to be included when submitting Drawing Folder Sheet Updates

### **June 19, 2007**

- Excel Drawing Parts List Template, revised 6/13/07

**Note:** Revised to show the correct revision level in the parts list sheets.

### **May 25, 2007**

- SD-000 Rev 15MY07 – Revised section 3 to add Mexico plants electrical utilities.  
**Note:** SD-000 is now used for all North American sites
- SD-000-POL Rev 08MR07 – Revised revision dates of SD-002, SD-005, DA-2006 and DEG. **SD-004-POL and SD-007-POL** have been deleted. Added SD-007 Global Common Approved Components List.
- SD-000-CHI Rev 15AP07 – Revised revision dates of SD-001, SD-002, SD-005, DA-2006 and DEG. **SD-003-CHI, SD-004-CHI, SD-007-CHI, SD-008-CHI and SD-009-CHI** have been deleted. Added SD-007, Global Common Approved Components List and SD-104 International Electrical Specification for Industrial Machinery Addendum to IEC 60204.
- Excel Drawing Parts List Template, revised 5/22/07  
**Note:** Revised to allow 9 digit equipment number.

### **October 5, 2006**

- SD-000 Rev 15SE06 -- Revised revision dates for SD-001, SD-002, SD-003, SD-005, DA-2004, DA-2006 and DEG. **SD-004 and SD-007 have been deleted.** SD-007-NA, SD-1020, and SD-1022 have been added.
- SD-001 Rev 15SE06 -- Country of destination language requirements, support software issues and fault current detail added.
- SD-002 Rev 02AU06 -- Section 9.1 (True Position) and 10.11 (True Position Calculations) added.
- SD-003 Rev 15SE06 -- Revisions to support: 1) electronic operation & service manuals; 2) AutoCAD versions supported; and 3) machine mounted control components detailed on machine DPL parts list.
- SD-004 is now obsolete and all control requirements are documented in DA-2004 Version 3, April 2004.
- SD-005 Rev 01FE05 -- Reviewed / Updated to reflect current practices.
- SD-007-NA Rev 15SE06 -- This is the new North American Regional "Approved Components List" and replaces SD-007, SD-007-GMT900, SD-007-P12 and SD-007-MEX.
- DA-2004 Version 3, April 2004 – current version of corporate specification adopted by Delphi Steering.
- DA-2006 Version 2.1, September – updated for use globally across Delphi Corp.
- DEG (Design-In Ergonomic Guideline) – Latest revision.

### **February 2, 2006**

- SD-1020, Human Machine Interface Application Specification, revised 12/15/05
- Delphi S HMI Screens Application Files/Templates (referenced in SD-1020), 01/10/06

### **December 15, 2005**

- Excel Drawing Parts List Template, revised 11/28/05  
**Note:** Form 3386 has been revised. Several problems with the template have also been corrected.

### **August 23, 2005**

- Delphi S AutoCAD Toolkit (referenced in SD-003) **Note:** For AutoCAD versions 2000, 2002, 2005  
**Note:** This is the latest version of the AutoCAD Toolkit and is compatible with AutoCAD 2005.
- SD-1022, Label Error Proofing Requirements for New Assembly Systems, 5/23/05

### **January 17, 2005**

- Excel Drawing Parts List Template, revised 12/8/04  
**Note:** All Excel Drawing Parts List, new or revised, submitted to Delphi-S after 2/15/05 shall use the latest version of the template (i.e. 12/8/04) The revision date can be found on the left footer of all sheets, including form 3386).