1. **Revision Log**

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| Revision Log | | | | | |
| Revision Level | Revision Date | Section | Description | | Revised By |
| REL | 06/28/2016 | ---- | Initial Release | | Jim Becker |
| A | 9/19/2019 |  | Mass update, complete re-write to standard | | NT |
| B | 12/1/23 | Header | Replaced GHSP logo with newer version | | BB |
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| Approval: | | CN: RS, FS | | MX: JH | |
| US: JA | | Other (as req’d): DRW | |

1. **Purpose:** 
   1. To define the global standard for the use of Barcode Reading and Printing Equipment within GHSP manufacturing facilities.
2. **Scope:** 
   1. This global standard applies to all GHSP manufacturing facilities.
3. **Definitions:**
   1. DPM – Direct Part Marking
      1. The process to permanently mark parts with product information including, but not limited to, serial numbers, part numbers, date codes, and barcodes.
   2. AIM – Association for Automatic Identification and Mobility
      1. An industry trade group that developed and standardized bar codes, automatic identification, and data capture.
4. **References:**
   1. ISO/IEC 15415 = Information Technology – Automatic Identification and Data Capture Techniques – Bar Code Symbol Print Quality Test Specification – Two Dimensional Symbols
   2. ISO/IEC TR 29158 (AIM DPM-1-2006) = Information Technology – Automatic Identification and Data Capture Techniques – Direct Part Mark (DPM) Quality Guideline
   3. CP-WI-MFG-X301 Global Standard Production Equipment Safety, Ergonomic, and Delivery Checklist
   4. CP-WI-MFG-X309-Global Standard Laser Application and Safety
5. **Method:**
   1. **Barcode Label Printer Selection**
      1. Preferred Brands

*Selection outside the preferred brand requires approval by the Advanced Process Engineer and Global Standards Team*

* Zebra
  1. **Barcode Reader Selection**
     1. Preferred Brands

*Selection outside the preferred brand requires approval by the Advanced Process Engineer and Global Standards Team*

* + - * Handheld:
        + Zebra
        + Cognex
        + Honeywell
      * Fixed:
        + Keyence
        + Cognex
  1. **Requirements**
     1. Product Label Contents (including both Barcode and Human Readable) and Label Stock shall be defined in the assembly’s Manufacturing Bill of Materials.
     2. Barcode grading must be certified or verified in the Lab and only monitored or confirmed on the Assembly line.
     3. Default camera settings, aligned with ISO/ANSI standards, used for barcode grading cannot be modified.

1. **Records:** N/A