Section 6

APL QUALITY MANAGEMENT SYSTEM REQUIREMENTS

6.1 DESCRIPTION

This section provides minimum Department quality management system (QMS) requirements for vendors of traffic control products listed on the Department's Acceptable Quality System List (AQSL). Listing on the AQSL is mandatory before a product can be evaluated and listed on the Department's Approved Product List (APL). These requirements pertain to the acceptance and periodic re-acceptance of the quality system. Re-acceptance of the quality system is part of an on-going surveillance program. Re-acceptance is mandatory for vendors to continue listing of their quality system on the AQSL and their traffic control products on the APL. For definitions, refer to ***Section 2***.

6.2 ACCEPTANCE OF QUALITY MANAGEMENT SYSTEM

6.2.1 Quality Manual

The QMS shall comply with clauses 4.3, 4.4 and 7.5.1 of ISO (International Organization for Standardization) 9001:2015 for the ISO 9001:2015 elements stipulated within this specification and include a Quality Manual containing scope of the QMS, policies and procedures (or references to procedures) required within this specification.

6.2.2 Control of Documented Information

The QMS shall comply with clauses 7.5.2 and 7.5.3 of ISO 9001:2015, include a procedure for Control of Documented Information and retain documented information as evidence of implementation.

6.2.3 Management Review

The QMS shall comply with clause 9.3 of ISO 9001:2015, include a policy for Management Review and retain documented information as evidence of implementation.

6.2.4 Competence and Awareness

The QMS shall comply with clauses 7.2 and 7.3 of ISO 9001:2015, include a policy for Competence and Awareness and retain documented information as evidence of implementation.

6.2.5 Operational Planning and Control

The QMS shall comply with clause 8.1 of ISO 9001:2015, include a policy for Operational Planning and Control and retain documented information as evidence of implementation.

6.2.6 Requirements for Products and Services

The QMS shall comply with clause 8.2 of ISO 9001:2015, include a policy for Requirements for Products and Services and retain documented information as evidence of implementation.

6.2.7 Design and Development of Products and Services

The QMS shall comply with clause 8.3 of ISO 9001:2015, include a policy for Design and Development of Products and Services and retain documented information as evidence of implementation.

6.2.8 Control of Externally Provided Processes, Products and Services

The QMS shall comply with clause 8.4 of ISO 9001:2015, include a policy for Control of Externally Provided Processes, Products and Services and retain documented information as evidence of implementation.

6.2.9 Production and Service Provision

The QMS shall comply with clause 8.5 of ISO 9001:2015, include a policy for Production and Service Provision and retain documented information as evidence of implementation.

6.2.10 Monitoring and Measuring Resources

The QMS shall comply with clause 7.1.5 of ISO 9001:2015, include a policy for Monitoring and Measuring Resources and retain documented information as evidence of implementation.

6.2.11 Internal Audit

The QMS shall comply with clause 9.2 of ISO 9001:2015, include a procedure for Internal Audit and retain documented information as evidence of implementation.

6.2.12 Release of Products and Services

The QMS shall comply with clause 8.6 of ISO 9001:2015, include a policy for Release of Products and Services and retain documented information as evidence of implementation.

6.2.13 Control of Nonconforming Outputs

The QMS shall comply with clause 8.7 of ISO 9001:2015, include a procedure for Control of Nonconforming Outputs and retain documented information as evidence of implementation.

6.2.14 Nonconformity and Corrective Action

The QMS shall comply with clause 10.2 of ISO 9001:2015, include a procedure for Nonconformity and Corrective Action and retain documented information as evidence of implementation.

6.2.15 Actions to Address Risks and Opportunities

The QMS shall comply with clause 6.1 of ISO 9001:2015, include a procedure for Actions to Address Risks and Opportunities and retain documented information as evidence of implementation.

6.2.16 ISO Certification

A current ISO 9001 registration certificate shall be provided for companies with a QMS registered through the ISO.

6.2.17 Virtual Tour of Manufacturing Facility *(**only required for APL listing of official traffic control signals and devices shown in Section 4**)*

A real-time audio-video presentation of the manufacturing facility (duration: 10-30 minutes) shall be provided. The material shall be formatted for viewing in standard Windows® Media Player software. The audio-video shall be in English and of sufficient quality to allow adequate viewing and understanding of the narrator. The following items shall be shown and described in the audio-video:

(1) All major departments in the manufacturing plant (including, at a minimum: receiving, production, testing/ inspection, quarantine and shipping areas, quality assurance/quality control [QA/QC]); and

(2) Manufacturing and inspection/testing equipment (in use) and associated documents used at workstations for all products to be listed on the APL.

The QMS shall be described in the audio-video with an emphasis on documents accompanying products throughout the production cycle starting at receiving and ending in the shipping departments. Interviews with QA/QC staff, including management, describing qualifications and job-related functions shall be included in the audio-video.

6.3 RE-ACCEPTANCE OF QUALITY MANAGEMENT SYSTEM

6.3.1 Continued Compliance with this Specification

The QMS shall comply with the current requirements listed in this specification.

6.3.2 Complaints Received by Suppliers

All complaints received about APL listed products concerning conformance with the Department's certification or product requirements shall be recorded. Appropriate action shall be taken and documented with respect to (a) complaints received and (b) any deficiencies found in these products that affect compliance with such requirements.

6.3.3 ISO Certification

A current ISO 9001 registration certificate shall be provided for companies with a QMS registered through the ISO.

6.3.4 Changes to Previously Accepted QMS

All records requested in this sub-section shall be provided and be reflective of the previous QMS acceptance/re-acceptance period.

Updates concerning:

(1) Company ownership,
(2) Company management,
(3) Quality manual,
(4) Facilities listed in the last Department quality system evaluation report, and
(5) Original equipment manufacturers/subcontractors.

6.4 DOCUMENT HISTORY

Rev	Description	Authored and Checked	Reviewed	Approved	Approval Date
1.0	New Product Certification Handbook section created from transferring specification A602 from the MSTCSD due to the MSTSCD/SSRBC merger. No content change.	A. Burleson	D. Vollmer R. Meyer J. Morgan T. Tillander	M. Wilson	05/24/2012
2.0	Revised 'Description' section.	A. Burleson	J. Morgan	M. Wilson	06/12/2012
3.0	Revisions of section/sub-section numbers, and removal of unnecessary hyperlinks.	A. Burleson	J. Morgan	M. Wilson	06/13/2012
4.0	Added reference to Section 2 for definitions.	A. Burleson	J. Morgan	M. Wilson	08/14/2012
5.0	Comments from FDOT Legal Office addressed.	J. Morgan A. Burleson	J. Morgan	M. Wilson	01/30/2013
6.0	Removed ISO certification requirement for vendors of permanent mount dynamic message signs.	A. Burleson	J. Morgan	M. Wilson	01/23/2014
7.0	Revision to reflect receipt of materials electronically.	K. Moser	A. Burleson J. Morgan	M. Wilson	08/19/2014
8.0	Updated position title for Mark Wilson in document control panel.	A. Burleson	J. Morgan	M. Wilson	11/19/2014
9.0	Updated to allow use of newly published ISO 9001: 2015 standard. Removed requirement 6.3.5 asking vendors for an APL listing with their review comments.	A. Burleson	J. Morgan E. Birriel	M. Wilson	12/08/2015
10.0	Removed references to ISO 9001:2008 (this version is now obsolete) and switched to terminology adopted in 2015 version (this is now the only current version).	A. Burleson	D. Vollmer M. DeWitt	T. Tillander	07/14/2020
11.0	Added term "management" to "quality management system". Clarified that virtual tour of manufacturing facility was only required for official traffic control signals and devices.	A. Burleson	D. Vollmer M. DeWitt	J. Easterling	07/01/2022