



National Aeronautics and
Space Administration

John C. Stennis Space Center
Stennis Space Center, MS
39529-6000

SSTD-8070-0107-IDCODES Rev. B-1
FEBRUARY 2016

COMPLIANCE IS MANDATORY

John C. Stennis Space Center REQUIREMENTS FOR NUMBERING AND MOUNTING LOCATOR PLATES TO SSC MECHANICAL COMPONENTS AND PRESSURIZED VESSELS AND TANKS

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Stennis Standard	SSTD-8070-0107-IDCODES B-1
	<i>Number</i> <i>Rev.</i>
	Effective Date: February 12, 2016
	Review Date: June 30, 2020
Page 2 of 16	
Responsible Office: NASA SSC Center Operations Directorate	
SUBJECT: REQUIREMENTS FOR NUMBERING AND MOUNTING LOCATOR PLATES TO SSC MECHANICAL COMPONENTS AND PRESSURIZED VESSELS AND TANKS	

Document History Log

Change/ Revision	Change Date	Originator/ Phone	Description
Basic	04.14.2010	D. Dike/ ext. 2803	Initial release, supersedes SSC STD 97-005. Added 5.0d: Locator number on a component shall indicate the designated system fluid in which the component is installed under normal operations.
A	9.30.2013	D. Dike/ ext. 2803	Incorporates and supersedes SSTD-8070-0111-IDCODES, <i>Requirements for Numbering of SSC Locations, Mechanical Components, and Pressurized Vessels and Tanks</i> , and SSC-97-004, <i>Mechanical Component Modification and Identification Marking</i> . SSC CEF Archive Note: <i>This standard also supersedes SSC Contract NAS13-100, Appendix B, Standards and Specifications Plan (368-75-005).</i>
B	6.30.2015	S. Le Ext. 3816	Updated cover sheet to reflect approval by PMD, and concurrence by E&TD and SMA. Updated references and acronyms. 5.0 Locator Plates and 5.1 Locator Plates Specifications: Defined locator plates to include adhesive labels. Added 5.1.3 Vinyl Label Specifications for adhesive labels. 5.2 Mounting Specifications: Updated mounting specifications. 5.9 Number Format, Table 1 Mechanical Component identification Letter Codes: Changed “H” designation from “GH-Flow Meter” to “Flow Meter”; and “T” designation from “Flow Meter” to “Not Assigned”. Replaced “FOSC” with “NASA or its designee” in all references throughout document.
B-1	02.12.2016	R. Carol Wolfram 8-1164	Administrative change. Replaced “NASA or its designee” with “SACOM” throughout document.

Stennis Standard	SSTD-8070-0107-IDCODES B-1
	<i>Number</i> <i>Rev.</i>
	Effective Date: February 12, 2016
	Review Date: June 30, 2020
Page 3 of 16	
Responsible Office: NASA SSC Center Operations Directorate	
SUBJECT: REQUIREMENTS FOR NUMBERING AND MOUNTING LOCATOR PLATES TO SSC MECHANICAL COMPONENTS AND PRESSURIZED VESSELS AND TANKS	

Table of Contents

1.0	PURPOSE	4
2.0	APPLICABILITY.....	4
3.0	REFERENCES.....	4
4.0	RESPONSIBILITIES	5
5.0	LOCATOR PLATES.....	5
5.1	Locator Plates Specifications	5
5.1.1	Photosensitive Anodized Aluminum (Photofoil) Plate Specifications	5
5.1.2	Laminated Phenolic (Plastic) Plate Specifications	6
5.1.3	Vinyl Label Specifications.....	7
5.2	Mounting Specifications	8
5.2.1	Adhesive Method	8
5.2.2	Bracket Method.....	8
5.2.3	Wire Method	8
6.0	COMPONENT LOCATOR NUMBERS.....	8
6.1	Numbers For Replacement Plates.....	10
6.2	Numbers For New Locations	10
7.0	ID NUMBERS FOR SSC TANKS AND VESSELS	10
7.1	General Number Assignment.....	10
7.2	Pressure Vessel ID Number Database	11
8.0	PIPING COMPONENTS	11
8.1	Hand-operated Pressure Control Valves (PCVs).....	11
8.2	Hand Valves, Check Valves, Motor Valves, Filters and Filter Elements, Automatic PCVs, Flow Control Valves, Solenoid Valves, Expansion Joints, and Screens.....	12
8.3	Relief Valves.....	12
8.4	Convolute Flexible Hose Assemblies	13
9.0	SCD NUMBERS.....	13
9.1	Effect of Change Requests (CR) on SCD Numbers	13
9.2	SCD Number Format	14
10.0	RECORDS AND FORMS.....	15
11.0	ACRONYMS AND ABBREVIATIONS.....	15

Stennis Standard	SSTD-8070-0107-IDCODES B-1
	<i>Number</i> <i>Rev.</i>
	Effective Date: February 12, 2016
	Review Date: June 30, 2020
Page 4 of 16	
Responsible Office: NASA SSC Center Operations Directorate	
SUBJECT: REQUIREMENTS FOR NUMBERING AND MOUNTING LOCATOR PLATES TO SSC MECHANICAL COMPONENTS AND PRESSURIZED VESSELS AND TANKS	

1.0 PURPOSE

This John C. Stennis Space Center (SSC) standard (SSTD) provides a uniform method of assigning and affixing Specification Control Drawing (SCD) numbers and locator plates to mechanical components site-wide, as well as assigning and affixing identification (ID) numbers to pressure vessels and tanks site-wide.

2.0 APPLICABILITY

This standard applies to all SSC National Aeronautics and Space Administration (NASA) organizations, resident agencies, contractors and sub-contractors involved with assigning, affixing, modifying and maintaining the numbering system for components, pressure vessels, and tanks.

This standard further applies to:

- Newly installed mechanical components and existing mechanical components to which ID numbers have not been assigned;
- Locator plates, which shall be used to identify components and pressure vessels/tanks site-wide; and,
- Component locator or tank vessel ID numbers, which shall be used on Site-wide Operational and Repair Documents (SORD) drawings and related documentation.

NOTE: This standard does not apply to mechanical components with previously assigned ID numbers or to component locator plates that are in good condition but have a material, format, or mounting method different from that described in this standard.

3.0 REFERENCES

All references are assumed to be the latest version unless otherwise indicated.

SORD DWG 54000-P001, *SSC Piping Schematic Legends*
 SPR 1440.1, *SSC Records Management Program Requirements*
 SSTD-8070-0001-CONFIG, *SSC Facilities Engineering Documentation Standard*
 SSTD-8070-0005-CONFIG, *SSC Preparation, Review, Approval and Release of SSC Standards*
 SSTD-8070-0006-CONFIG, *SSC Component Servicing Processes and Documentation*
 SSTD-8070-0108-IDCODES, *Plate, Conduit Identification*

Stennis Standard	SSTD-8070-0107-IDCODES B-1
	<i>Number</i> <i>Rev.</i>
	Effective Date: February 12, 2016
	Review Date: June 30, 2020
Page 5 of 16	
Responsible Office: NASA SSC Center Operations Directorate	
SUBJECT: REQUIREMENTS FOR NUMBERING AND MOUNTING LOCATOR PLATES TO SSC MECHANICAL COMPONENTS AND PRESSURIZED VESSELS AND TANKS	

4.0 RESPONSIBILITIES

- a. Users of this SSTD shall comply with its requirements, ensure use of the correct version of this SSTD and the documents it references, and inform the appropriate organization of needed changes in accordance with SSTD-8070-0005-CONFIG.
- b. Responsibilities for the use and control of this SSTD and for the review and approval of revisions or cancellation of this SSTD shall be as specified in SSTD-8070-0005-CONFIG and the applicable documents referenced therein.

5.0 LOCATOR PLATES

Locator plates (applicable to aluminum plates, phenolic plates and adhesive labels) display component locator numbers that identify critical mechanical components by type of component, general area on site, specific location, and system fluid. Central Engineering Files (CEF) shall assign component locator numbers.

- a. Critical systems requiring locator plates include: 11B, Oxygen; 11C, Hydrogen; 11D, RP-1; 11F, Nitrogen; 11G, Helium; 11H, High Pressure Air; 11J, High Pressure Industrial Water; and 11K, Hydraulic Fluid.
- b. If a component is removed from its system, identification must be maintained for the component and for the component's location within the system.
- c. Locator number on a component shall indicate the designated system fluid in which the component is installed under normal operations.

5.1 Locator Plates Specifications

Locator plates shall be constructed from either photosensitive anodized aluminum (photofoil), laminated phenolic (plastic), or adhesive vinyl.

5.1.1 Photosensitive Anodized Aluminum (Photofoil) Plate Specifications

- a. The plate shall have a .032 inch nominal thickness, black color, and dull finish.
- b. The locator number shall be printed with film positive to produce aluminum letters with a black background.
- c. All sharp edges shall be removed.