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John C. Stennis Space Center

REQUIREMENTS FOR NUMBERING AND MOUNTING LOCATOR PLATES TO SSC COMPONENTS AND PRESSURE VESSELS

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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.
B-2	05.06.2019	R. Carol Wolfram 8.1620	Corrected font and locator plate dimensions in Figures 1-2 to reflect requirements provided in the document content.

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C	07.08.2020	S. Le Ext. 3816	Five-year review. Modified SSTD title on cover and header, deleting “Mechanical” and changing “Pressurized Vessels and Tanks” to “Pressure Vessels.” Updated directorate titles on cover sheet and in header, re Responsible Office, as necessary. Updated references and acronyms. 1.0: Added “numbers” to locator. 2.0-a: Deleted “mechanical” from “newly installed components.” 5.0-a: Added “The locator number on a component shall indicate the designated system fluid in which the component is installed under normal operations.” 4.0-c: Added PDLM responsibility. 5.0-b: Added “Component locator numbers can be requested through DDMS; Central Engineering Files (CEF) shall assign pressure vessel locator numbers.” 6.0-a: Added “distinctive” and “DDMS.” 6.0.b-2: Changed “with a one-digit” to “followed by a single.” 6.0-c: Added suffix methodology for: Barges, Cooper Bessemer generators, Nordberg diesel engines; and instrumentation for A-1 and A-2 Test Stands. 7.1.b-1: Replaced “One (1) letter indicates the type of tank or vessel” with “The letter ‘V’ indicates vessel...” 7.2-a: Replaced “SACOM” with “CEF.”
D	03.12.2021	Thomas Meredith Ext. 3907	Acronyms updated. 6.0-c: Added bulleted information for “Low Pressure Portable Sample Panels” and “HPGF Tube Trailers.”
E	07.07.2025	Son Le Ext. 3816	Five-year review. Updated references and acronyms. 5.1.3-a and -b. “Plate” changed to “label”. Section 7.2-b: Deleted “At a minimum, the Pressure Vessel ID Number Database shall track all inspections, re-certifications, EMI packages, or technical procedure packages that were generated for each pressure vessel.” Table 1, <i>Mechanical Component Identification Letter Codes</i> : Deleted “*Verify codes per latest version of SSTD-8070-0001-CONFIG.” (Note: Mechanical Component Identification Letter Codes table was eliminated from SSTD-8070-0001-CONFIG, Rev. F.)

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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 numbers 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 SSTD 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 and pressure vessels.

This SSTD further applies to:

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

NOTE: This SSTD 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 SSTD.

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*

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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.
- c. The Product Data Lifecycle Management (PDLM) Manager, and ultimately EA01, shall be responsible for Design and Data Management System (DDMS) activity as it relates to the automated generation of Component Locator Numbers as described herein.

5.0 LOCATOR PLATES

- a. Locator plates (applicable to aluminum plates, phenolic plates, and adhesive labels) display component locator numbers that identify components by type of component, general area on site, specific location, and system fluid. The locator number on a component shall indicate the designated system fluid in which the component is installed under normal operations.
- b. Component locator numbers can be requested through DDMS; Central Engineering Files (CEF) shall assign pressure vessel locator numbers.

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

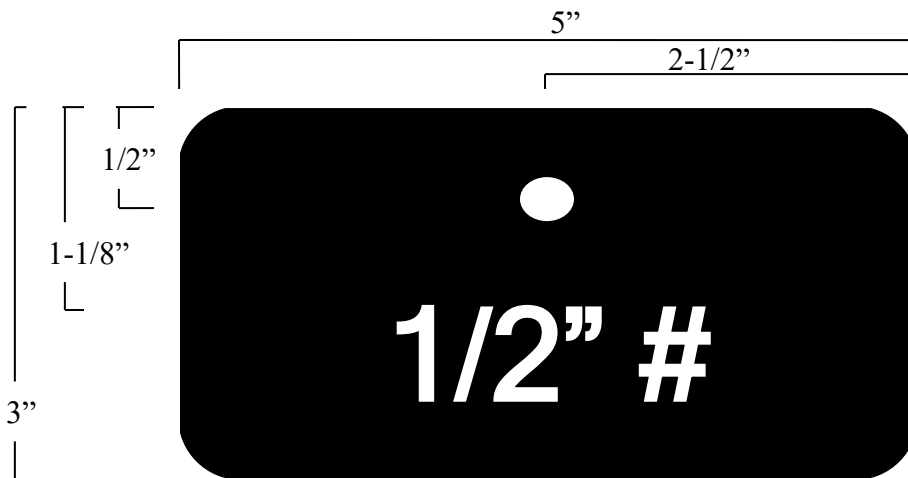
- a. The plate shall have a .032 inch nominal thickness, black color, and dull finish.
- b. The locator number shall be printed with film positive to produce aluminum letters with a black background.
- c. All sharp edges shall be removed.
- d. All corners shall be rounded at a radius of 1/32 inch to 1/8 inch.

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- e. Lettering shall be upper case, condensed, sans-serif, and ½ inch high.
- f. Letters shall be centered horizontally.
- g. Letters shall be 1-1/8 inch from the top of the plate.
- h. If the plate is to be attached with a bracket, a 3/8-inch hole for the bracket screw shall be placed ½ inch from the top and centered.
- i. Plate dimensions shall be as shown in Figure 1, with a tolerance of +/- 1/16 inch.

Figure 1
Photofoil Locator Plate with Hole for Bracket Attachment



5.1.2 Laminated Phenolic (Plastic) Plate Specifications

- a. Locator plates shall be laminated phenolic (plastic) consisting of three (3) layers, black-white-black, such that engraving letters and numbers are white on a black background.
- b. Plates shall be 1/16 inch thick.
- c. Plates shall not exceed three (3) inch width by five (5) inch length. Plate size may be smaller to accommodate small components.

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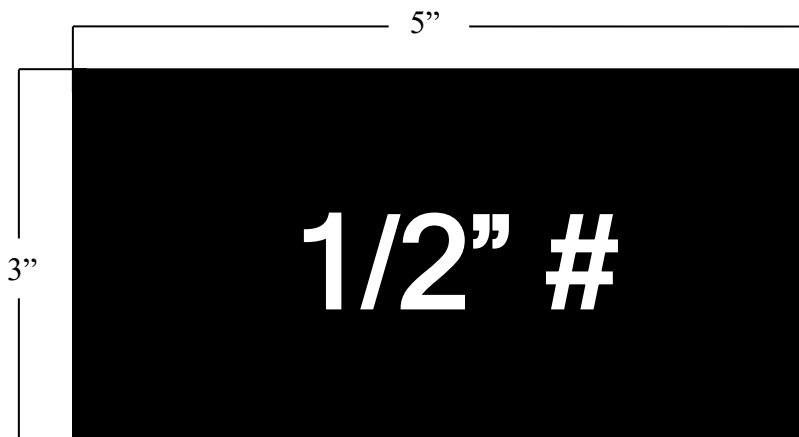
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- d. Letters shall be upper case, condensed, sans-serif, and ½ inch high.
- e. The locator number shall be centered vertically and horizontally on the plate, as shown in Figure 2.

5.1.3 Vinyl Label Specifications

- a. Label shall not exceed three (3) inch width by five (5) inch length. Label size may be smaller to accommodate small components.
- b. Letters shall be upper case, condensed, sans-serif, and ½ inch high.
- c. The locator number shall be centered vertically and horizontally on the label, as shown in Figure 2.

**Figure 2
Plastic and Vinyl Locator Plates**



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5.2 Mounting Specifications

Locator plates should be mounted adjacent to the component in an easily visible position where the identified component cannot be confused with another nearby component. Locator plates may be mounted directly on the component when it is impractical to mount on an adjacent location. Locator plates may be mounted according to the adhesive, bracket, or wire methods.

5.2.1 Adhesive Method

- a. Plates may be installed with Room Temperature Vulcanizing (RTV) -102 or equivalent in areas where the surface temperature does not exceed the range of -75° F to 300° F.
- b. RTV compounds are not liquid oxygen (LOX) compatible.
- c. RTV compounds shall not be used in LOX or gaseous oxygen (GOX) areas.
- d. Care should be exercised to prevent adhesive materials from encroaching LOX or GOX wetting surfaces or flange crevices.

5.2.2 Bracket Method

Plates may be installed onto brackets which are mounted on or near the component. If a bracket is used, a 3/8 inch hole is centered horizontally on the plate to accommodate the screw that attaches the plate to the bracket. (See Figure 1.)

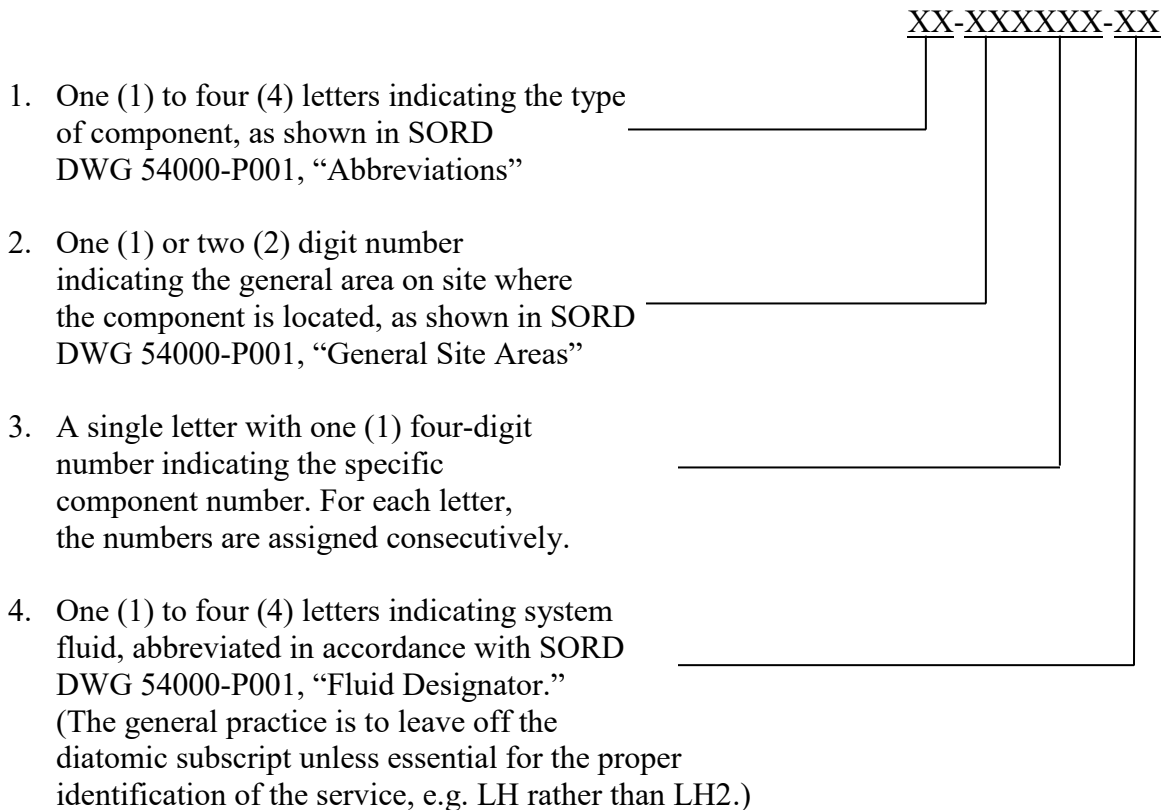
5.2.3 Wire Method

Plates may be attached by wire on or near the component. If wire is used, a 1/16 inch hole is placed in each corner of the plate, and the plate is attached by stainless steel wire.

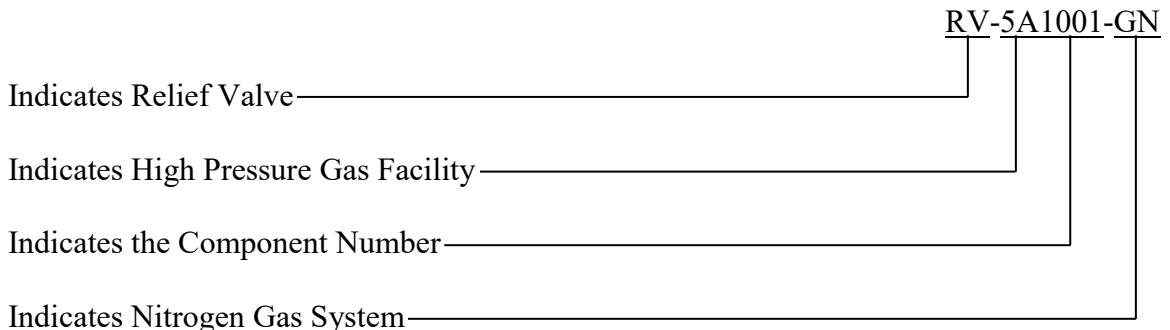
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6.0 COMPONENT LOCATOR NUMBERS

- a. All component locations within a system shall be assigned a distinctive Component Locator Number by DDMS.
- b. The Component Locator Number is assigned as follows:



EXAMPLE:



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- c. Component Locator Numbers of the following systems shall require additional suffix identifiers:
- LH (liquid hydrogen) barges
“-1”, “-2”, to indicate the barge number
 - LOX (liquid oxygen) barges
“-1”, “-2”, to indicate the barge number
 - Low Pressure Portable Sample Panels
“-1”, “-2”, to indicate the panel serial number
 - High Pressure Gas Facility (HPGF) Tube Trailers (ID: 91-1 through 91-4)
“-1”, “-2”, to indicate the tube trailer ID number
 - Cooper Bessemer generators at Building 4400
“-C1”, “-C2”, to indicate the Cooper Bessemer generator number
 - Nordberg Diesel engines at Building 4400
“-N1”, “-N2”, to indicate the Nordberg engine number
 - A1 and A2 Test Stand instrumentation that are in the similar locations on each test stand
“-A1” to indicate the A-1 Test Stand
“-A2” to indicate the A-2 Test Stand

NOTE: Each of the above groups of systems have similar schematic drawings where corresponding component locator numbers are also identical. In DDMS, a serialized part can only be associated to one (1) unique Locator Number. Therefore, in DDMS, a suffix is added to the end of the standard locator number, e.g., RV-6A1357-LO-2 to indicate relief valve RV-6A1357-LO on LOX Barge No. 2 and RV-6A1357-LO-5 to indicate the corresponding component at the identical system schematic location on LOX Barge No. 5.

- The appropriate locator number requiring the suffix identifier shall be obtained by request to the PDLM team (ssc-ddms@nasa.gov).
- Work authorization documents (WADs), drawings, and component labels do not have to include the suffix.

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6.1 Numbers For Replacement Plates

For replacement of worn-out or otherwise destroyed component locator plates, the existing component locator numbers shall be used.

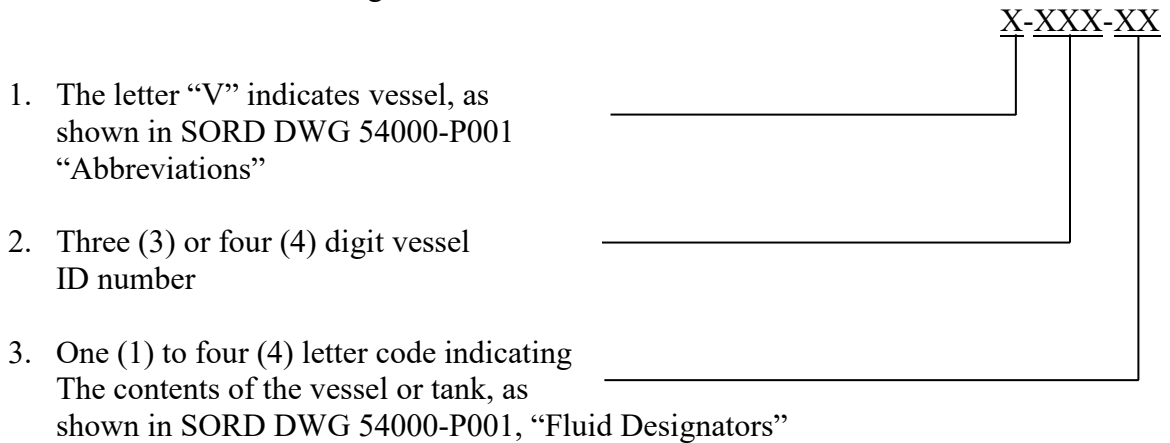
6.2 Numbers For New Locations

For new locations, component locator numbers shall be obtained from DDMS.

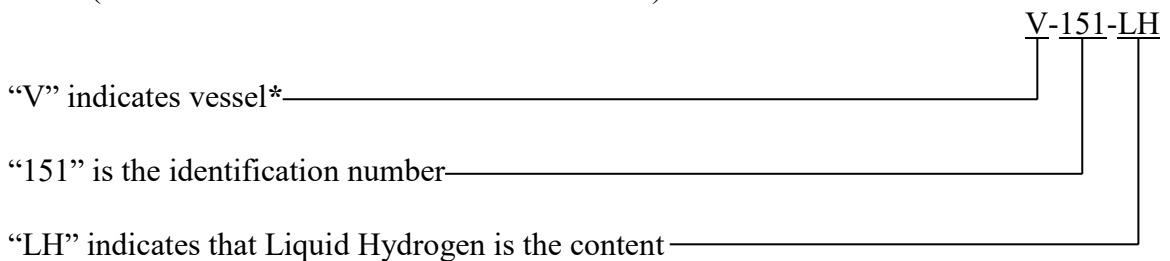
7.0 ID NUMBERS FOR SSC PRESSURE VESSELS

7.1 General Number Assignment

- a. All SSC vessels and tanks shall have an ID number assigned by CEF.
- b. The ID number shall be assigned as follows:



EXAMPLE: (Where V-151-LH is the current ID number)



***NOTE:** Unless indicated by later revision of SORD DWG 54000-P001, “V” code is also used to designate pressure vessels and tanks.

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7.2 Pressure Vessel ID Number Database

CEF shall maintain a log of all Pressure Vessel ID numbers.

8.0 PIPING COMPONENTS

Components included in this scope are hand valves, pressure control valves, check valves, motor valves, filters and filter elements, flow control valves, solenoid valves, relief valves, convoluted flexible hose assemblies, expansion joints, and screen.

Components are categorized as SORDized (those supported by the Site-wide Operational and Repair Documentation) and non-SORDized (those not supported by the Site-wide Operational and Repair Documentation but supported by manufacturer's specifications).

8.1 Hand-operated Pressure Control Valves (PCVs)

Transfer identification information to the body of the valve. Information shall include the following:

- a. SORDized
 1. Manufacturer
 2. Manufacturer's part number
 3. Specification Control Number (SORD)
 4. Serial number
 5. Design pressure

- b. Non-SORDized
 1. Manufacturer
 2. Manufacturer's part number and/or model number
 3. Serial number
 4. Corps of Engineers (COE) number (if assigned)
 5. Design pressure

8.2 Hand Valves, Check Valves, Motor Valves, Filters and Filter Elements, Automatic PCVs, Flow Control Valves, Solenoid Valves, Expansion Joints, and Screens

Transfer identification information from handles, operators and other locations (either permanently or temporarily attached) to the body base or other specific areas of the component designated by Engineering or other approved documentation.

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a. SORDized

1. Manufacturer
2. Manufacturer's part number
3. Specification Control Drawing number
4. Serial number
5. Design pressure

b. Non-SORDized

1. Manufacturer
2. Manufacturer's part number and/or model number
3. Serial number
4. COE number (if assigned)
5. Design pressure

NOTE: Due to lack of space on the body base of some components or due to physical configuration of some components, it may be necessary to put identification information on stainless steel tape and attach the tape to the components. The tape shall be attached with stainless steel wire.

8.3 Relief Valves

Identification information on the Relief Valve shall include:

a. SORDized

1. Manufacturer
2. Manufacturer's Part Number
3. Specification Control Drawing number
4. Serial number

b. Non-SORDized

1. Manufacturer
2. Manufacturer's Part Number and/or Model Number
3. Serial Number
4. COE Number (if assigned)
5. Inlet Size x Outlet Size x Orifice Size

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8.4 Convoluted Flexible Hose Assemblies

Identification information on the flange assembly shall include:

- a. SORDized
 1. Manufacturer
 2. Serial Number
 3. Specification Control Drawing Number
 4. Manufacturer's Part Number

- b. Non-SORDized
 1. Manufacturer
 2. Manufacturer's Part Number and/or Model Number
 3. Serial Number
 4. COE Number (if assigned)
 5. Type Number

9.0 SCD NUMBERS

- a. Each mechanical component with an existing SCD shall have a component SCD number assigned by CEF in the format described in this SSTD.
- b. SCD numbers shall not be assigned to a component that has no SCD drawing, as referenced in SSTD-8070-0006-CONFIG and SSTD-8070-0001-CONFIG.

9.1 Effect of Change Requests (CR) on SCD Numbers

- a. Any modification to a mechanical component as a result of a CR shall necessitate changing the specific component assembly number on the SCD (e.g. 54B00-GV56-002 would become 54B00-GV56-003).
- b. All CRs issued against a mechanical component before the component was added to the SORD system shall be incorporated into the basic SORD SCD.
- c. CRs issued after the component is added to the system require revisions to the basic SORD SCD.

9.2 SCD Number Format

- a. The SCD number is an alphanumeric number of 12 digits.

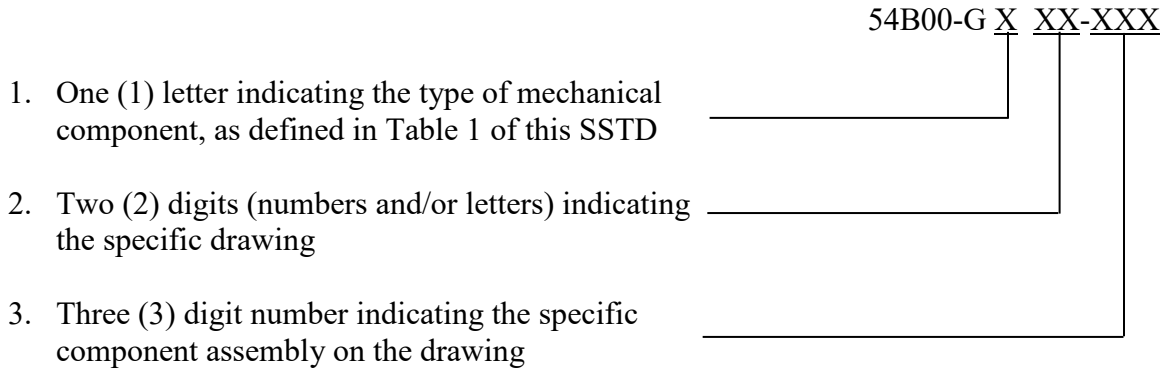
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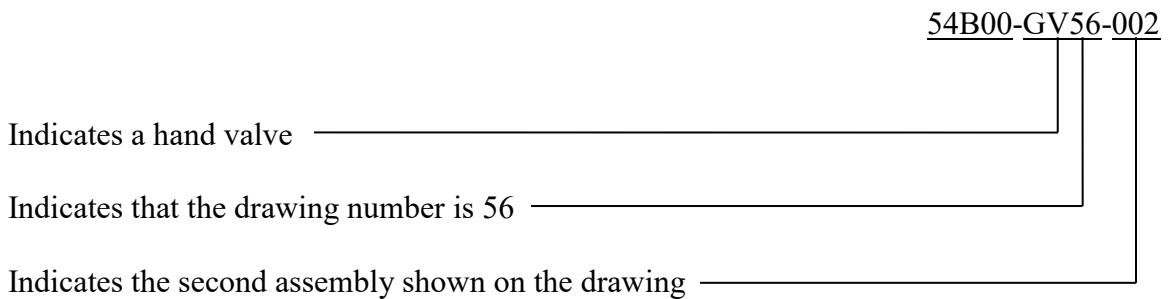
b. The first six (6) digits, derived from the SORD Family Tree drawing, are always 54B00-G.

1. The five (5) defines the major category as SSTD.
2. The four (4) defines the sub-category as Mechanical.
3. The "B" defines the specific category as Component.
4. The double zero (00) defines the location as Site-wide.
5. The "G" defines the drawing type as Design Specification.

c. The remaining six (6) digits are assigned as follows:



EXAMPLE:



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TABLE 1
Mechanical Component Identification Letter Codes

LETTER	COMPONENT TYPE	LETTER	COMPONENT TYPE
A	Control Package	N	Level Control Valve
B	Control Valve	P	Pressure Control Valve
C	Check Valve	Q	Not Assigned
D	Dome Loader	R	Relief Valve
E	Expansion Joint	S	Strainer
F	Flex Hose	T	Not Assigned
G	Gas Filter	U	Not Assigned
H	Flow Meter	V	Hand Valve
J	GJ-Gage (Pressure Indicator)	W	Accumulator (Vessel)
K	Pump	X	Actuator
L	Liquid Filter	Y	Diaphragm
M	Motor Valve	Z	Solenoid Valve

10.0 RECORDS AND FORMS

Records and forms required by the procedures of this SSTD shall be maintained in accordance with SPR 1440.1. All records and forms are assumed to be the latest edition unless otherwise indicated. Forms may be obtained from the SSC Electronic Forms repository or from the NASA SSC Forms Management Officer. Quality Records are identified in the SSC Master Records Index.

11.0 ACRONYMS AND ABBREVIATIONS

CEF	Central Engineering Files
COE	Corps of Engineers
CR	Change Request
°	degrees
DDMS	Data and Design Management System
DWG	Drawing
EMI	Engineering Modification Instruction
F	Fahrenheit
GH	Gaseous Hydrogen
GOX	Gaseous Oxygen
HPGF	High Pressure Gas Facility
ID	Identification Number
LH	Liquid Hydrogen
LOX	Liquid Oxygen

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NASA	National Aeronautics and Space Administration
PCV	Pressure Control Valve
PDLM	Product Data Lifecycle Management
RP	Rocket Propellant
RTV	Room Temperature Vulcanizing
RV	Relief Valve
SCD	Specification Control Drawing
SORD	Site-wide Operational and Repair Documents
SSC	John C. Stennis Space Center
SSTD	John C. Stennis Space Center Standard
SPR	Stennis Procedural Requirements
V	Vessel
WAD	Work Authorization Document

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