Naming & Tagging Convention

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1. PURPOSE

This document outlines the required criteria for system/component naming and tagging of PVS within the GSFC RECERT Program.

2. SCOPE

The scope of this document is for system level and component level naming and tagging conventions of PVS only. All facilities that fall under the cognizance of the GSFC RECERT Program are subject to the requirements of this document. The naming scheme shall use the codes for each string as outlined in the below tables, unless explicit direction is given in this document to create new codes.
Each location has the flexibility to create specific codes that are unique to their site, at the approval of the RECERT Manager, should they require it. However, all centers must adhere to the number of strings in the naming scheme as outlined below, and the purpose of each string. Also, the number of characters within each string should be followed across all centers as outlined below.

3. SYSTEM LEVEL NAMING CONVENTION

3.1 Site Location (1st String)

2 characters; will follow normal center abbreviation as determined

Code	Site Description
GB	Goddard Space Flight Center - Greenbelt
WF	Wallops Flight Facility
CS	Columbia Scientific Balloon Facility
WS	White Sands Complex
PF	Poker Flats Research Range
NE	Near Earth Network Systems
OF	Offsite/Other Locations

Table 1: Facility Codes

3.2 System Function or Purpose (2nd String)

3 characters only; to describe the overall system on a basic function level, should try to be independent of pressure, temperature, and fluid state

Table 2 contains a few examples of system functions/purposes used, but the naming convention is not limited to this list alone; engineering judgment should be used for proper allocation of systems and the need for generation of new codes

Code	Description
HAR	House Air Receivers
HPP	High Pressure Panel
LBO	Liquid Boil-Off
LPP	Low Pressure Panel
PLC	Propellant Loading Cart
PLD	Portable Liquid Dispersion
PRS	Pressure Regulated System
VAC	Vacuum Chamber

Table 2: System Function Codes

3.3 Fluid Description (3rd String)

3 characters; can be a direct acronym of the specific gas used in that system, i.e. GN2, GHe, LN2, etc…

Alternatively, a logical code that defines the fluid category with pressure and temperature may be used for this string; a description of this code is outlined below, 1st character identifies the pressure class, 2nd character identifies the state of fluid, 3rd character identifies fluid category (fluid category to be selected in increasing order of hazard)

Pressure Class (1st character)		Fluid State (2nd character)		Fluid Category (3rd character)	
Code	**Description**	**Code**	**Description**	**Code**	**Description**
A	Atmospheric Pressure	A	Ambient Temperature	D	Inert
H	>150 psig	C	Cryogenic	F	Flammable/Combustible
L	14.7 < P ≤ 150 psig	E	Elevated Temperature	M	Lethal
V	< 14.7 psig	L	Liquid		

Table 3: Fluid Description Codes

3.4 Facility Based Sequential Counter (4th String)

3 characters (can grow in future if needed); number based on total number of systems of that specific system type; future systems of the same type will receive the next available sequential number

3.5 Example

GB-PRS-LAD-013
Translation:

- Location (1st string) = Goddard Space Flight Center
- Function (2nd string) = Pressure Regulated System
- Fluid (3rd string) = Inert gas/liquid at ≤ 150 psig and ambient temperature
- Counter (4th string) = It is the 13th of that kind of system at that site

4. COMPONENT LEVEL NAMING CONVENTION

4.1 Component Type (1st String)

2 characters only; to describe the function of the component; can add more codes as needed from the basic list in Table 4.

Code	Component Description
FH	Flexible Hose
LG	Level Gauge
PG	Pressure Gauge
PR	Pressure Regulator
RD	Rupture Disk
RV	Relief Valve
SW	Pressure Switch

Table 4: Component Description Codes

4.2 Sequential Counter (2nd String)

2 characters only; number based on total number of components of that specific type

4.3 Example

RV-02
Translation:

- Type (1st string) = Relief Valve
- Counter (2nd string) = 2nd component of that kind on that system

5. SYSTEM LEVEL TAGGING

5.1 Front of Tag

A PVS shall be tagged with the following relevant information from Table 5. The tag should always be attached to the system in a readily visible location for interested parties to review. Each row in this tag cannot exceed 16 characters including spaces.

System Number (as per section 3)	
Code Number	
Building Number	Room Number
System MAWP Rating	
Certification Expiration Date	
Optional	

Table 5: System Tag Minimum Content

GB-PRS-LAD-013
Code - 540
BD - 7 RM - 142
MAWP – 150 psig
Exp - 04/01/2022

Figure 1: Example System Tag

5.2 Back of Tag

An appropriate sticker that is compatible with clean room environments shall be placed on the back side of the permanent tag. The sticker shall contain the following information.

"Any modifications, alterations, or repairs **void** the certification of this system. Call (301) 286-5181 for GB Facility or (757) 824-1714 for WF Facility"

6. COMPONENT LEVEL TAGGING

6.1 Front of Tag

A certifiable component shall be tagged with the following relevant information from Table 6. The tag should always be attached to the appropriate component in a readily visible location for interested parties to review. Each row in this tag cannot exceed 16 characters including spaces.

System Number (as per section 3)	
Component Number (as per section 4)	
Building Number	Room Number
MAWP Rating	
Code Number	

Table 6: Component Tag Minimum Content

GB-PRS-LAD-013	
RV-02	
BD - 7	RM - 142
MAWP – 150 psig	
Code - 540	

Figure 2: Example Component Tag

6.2 Back of Tag

An appropriate sticker that is compatible with clean room environments shall be placed on the back side of the permanent tag. The sticker shall contain the following information.

NASA / GSFC / PVS	
Greenbelt Facility	Wallops Flight Facility
(301) 286-5181	(757) 824-1714
Inspect Date –	

Figure 3: Back of Component Tag Sticker

Where the inspection date is based on the components In-Service Inspection schedule and is hand written with permanent ink/marker. The sticker shall be replaced after each inspection of the component to indicate the next date for inspection.

7. COLOR CODING OF TAGS

The permanent tags on the PVS and components shall be color coded accordingly to visually indicate current status.

Green System Tag	PVS is certified and ready for use only as is
Red System Tag	PVS is not certified and should be decommissioned or dismantled
Blue System Tag	PVS is in the process of being certified and is okay to use only as is
Purple System Tag	PVS is temporary and can be used for a duration of 90 days or less only
Black System Tag	Not a PVS and is excluded from the RECERT program; available upon request only
Silver Component Tag	Component is certified for use; used for tracking purposes for In-Service Inspection

Table 7: Tag Color Coding Definition