

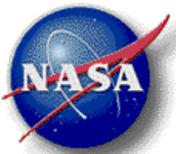
TOWN HALL MEETING

RECERT Program: PVS



POINTS OF INTEREST

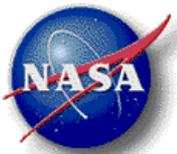
- CMS Database – Continuation of LQMS
- About RECERT
- Communication
- Responsibilities
- Tagging
- Certification Request Form
- Testing/Maintenance
- Training



CONFIGURATION MANAGEMENT SYSTEM

<https://lqmstest.gsfc.nasa.gov>

- Lab Owner/Manager
 - Enters lab information
 - Can add PVS to lab
 - Will be notified of required actions for maintenance (future)
- PVS Group
 - Can add PVS to lab
 - Will maintain certification status of PVS
 - Will upload all relevant information of PVS to lab record



CMS DATABASE CONT.

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Goddard Space Flight Center

Lab Quality Management System

Login: rpatel4
Access: PVS Engineer

HOME LABS PERSONNEL REPORTS PVS STANDARD COMPONENT FILES PVS STANDARD FILES PVS REPORTS

PVS Detail

[Edit system](#)

System Information

System Number: GB-PRS-LAD-001
Status: Certified
Certification Date: 02/05/2013
Recertification Date: 02/05/2033
MAWP: 150
Fluid Media: GN2
RAC: 5
MEOP: 120
Alt System Number: S-111
Note:

Lab Information

Lab Owner: Lui, Ben
Responsible Org Code: 585
Lab Name/Description: Greg Lab
Building number: 23
Room: 435



[click to enlarge](#)

Number	Description	Manufacturer	Model/Serial #	Size	Rating	Certification Status	ISI Date
PR-1	Pressure Regulator	Tescom	B64-38946729823	3/8" NPT	3500	Tested	02/05/2023
RV-1	Relief Valve	REGO	PRV-29246	1/4" NPT	150	Tested	02/05/2018

[Add component](#) +

Supplemental Documents

N/A [Add document](#) +

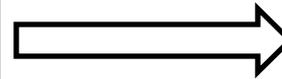
Images

N/A [Add image](#) +

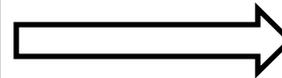
[Delete PVS](#)

NASA Official: Melanie Scofield
Curator: Greg Wood
Last modified: 08/24/2012

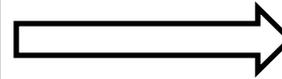
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System Level Information



Component Level Information



Additional Documentation



CMS DATABASE CONT.

- Fields are manual entry
- Will be modified by the RECERT team based on information provided by Owner of PVS
- RECERT issued system number to be used as unique identifier when questions regarding PVS are brought to the RECERT team

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Edit System Information

System Number:
Required. Enter a tracking number given to the specific PVS assembly in text characters.

Status:
Select a current operational status of PVS.

Certification Date:
Select a date of initial certification of the PVS as performed by the PVS operations group.

Recertification Date:
Select a expected due date for recertification of the PVS.

MAWP:
Enter a Maximum Allowable Working Pressure of PVS in the integer value.

Fluid Media:
Enter a type of gas/liquid used in PVS in the integer value.

RAC:
Enter a Risk Assessment Code of PVS in the integer range of the numbers 1-7.

MEOP:
Enter a Maximum Expected Operating Pressure of PVS in the integer value.

Alt System Number:
Enter an alternative tracking number given to the specific PVS assembly in text characters.

System Image Currently: pvs/img/Code_660_001.jpg Clear
Change:

Note:
Enter an additional information as needed.



CMS DATABASE CONT.

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Add New Component

Component Number:
Enter a tracking number given to a specific component within the PVS assembly in text characters.

Description:
Describe a type of component in the PVS assembly.

Manufacturer:
Name a company maker of the component.

Model/Serial Number:
Enter a manufacturer given designation for the component in text characters.

Component Size:
Enter a Inlet/outlet size of the component in text characters.

MAWP Rating:
Enter Maximum Allowable Working Pressure of the component in integer value

Flow Coefficient (Cv)/Flow Rate (SCFM):
Enter a flow capacity of the component in text characters.

Low temp/High temp (degrees F):
Enter a temperature limits of the component in text characters.

Certification Status:
Select a current operational status of the component.

In-Service Inspection Date:
Select an In-Service Inspection date of the component.

In-Service Inspection Type:
Select the type of In-Service Inspection.

Component File:

- Component level information can be filled out by the Owner of the PVS
- In-Service Inspection information will only be accessible to the RECERT team
- Can add as many components as needed



CMS DATABASE CONT.

- Additional documentation can be added by anyone
- Typical examples include (but are not limited to) drawings, calculations, catalogs, manuals, operating procedures, test reports

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searchbutton

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Add New Supplemental

Document Number:
Enter a file name of additional documents specific to the PVS.

Description:
Describe a type of document supporting the PVS.

Revision:
Enter a file edition version used for documentation control purposes in text value.

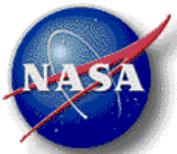
Status:
Select a current status of the document.

Title:
Describe a name of the file.

File:

NASA Official: Melonie Scofield
Curator: Greg Wood
Last modified: 08/24/2012

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CMS DATABASE CONT.



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Add New Image

Title

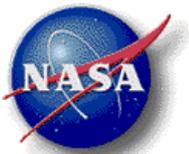
Description

Image



- NASA Official: Melonie Scofield
- Curator: Greg Wood
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PVS Reports

PVS SUMMARY

- I. [PVS Systems by Status](#)
- II. [Total of Systems by Building](#)
- III. [Total of Systems by Lab Owner](#)
- IV. [150 psig System MAWP Summary](#)

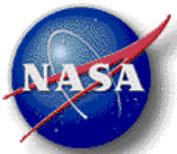
RECERTIFICATION AND ISI NOTIFICATIONS

- I. [30/60 Days notice of Recertification Date](#)
- II. [30/60 Days notice of ISI Date](#)



- NASA Official: Melonie Scofield
- Curator: Greg Wood
- Last modified: 08/24/2012

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CMS DATABASE CONT.

- PVS phase of database is expected to go live in March, 2013
- Lab Owners/Managers must first gain access thru NAMS/IDMAX
- Lab record must be created first prior to adding a PVS to the lab
- All systems under GSFC will be entered in this database

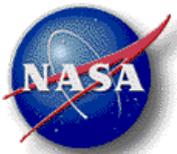


ABOUT RECERT

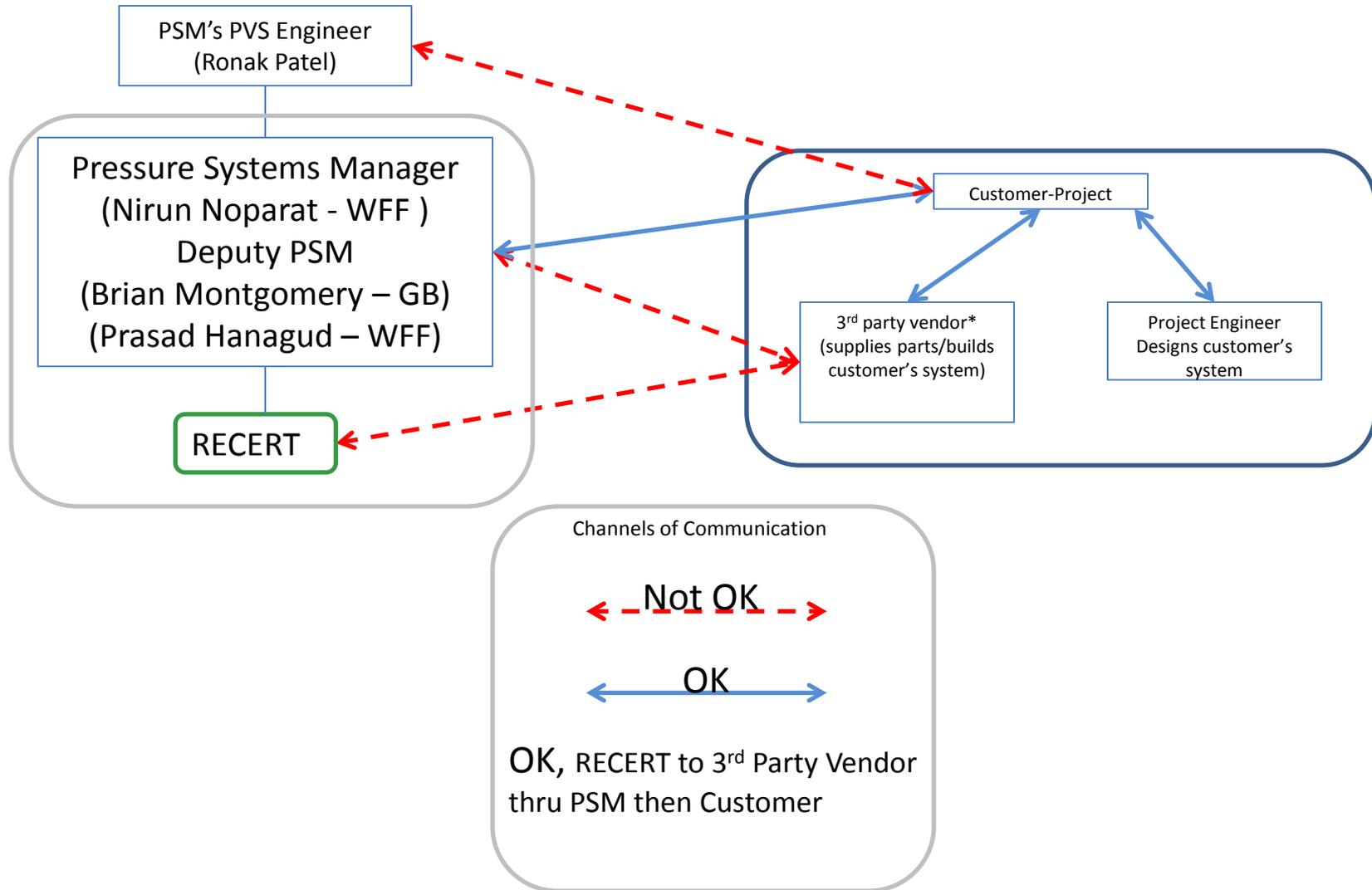
Recertification at NASA-Goddard (Greenbelt and WFF Campuses)

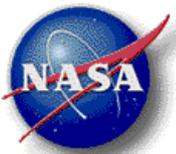
- Is an independent third-party organization that performs the following:
 - Verifies that the design, fabrication, and installation of Lifting Devices/Equipment (LDE) and Pressure Vessels/Systems (PVS) meet NASA requirements.
 - Performs tests and inspections of LDE as mandated by OSHA and NASA.
 - Performs in-service inspections and analysis of PVS as mandated by OSHA, NASA, and other applicable NCS.
 - Serves as the licensing authority for GSFC LDE operators and High Pressure PVS operators as mandated by NASA.
 - Performs Non-Destructive Inspections (NDI) on PVS and LDE
 - Certification and recertification of LDE Operators and Critical Lift Coordinators.

For the purpose of this presentation, Recertification is only pertaining to PVS



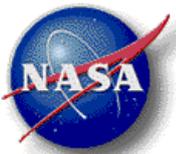
FORMAL COMMUNICATION





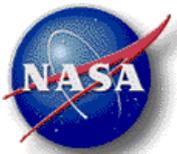
RECERT RESPONSIBILITIES

- Ensure that procedures for design, acquisition, fabrication, inspection, testing, installation, repair, alteration, operation, maintenance, certification, and documentation of PVS comply with NASA Standard and NCS
- Monitors status of PVS inventory on Center
- Maintains Web based CM system (Access through LQMS; will be made available to all Owner/Operators)
- Maintains Website for Owner/Operators reference
- Inspect PVS for any potential discrepancies and track discrepancies to closure.
- License High Pressure Operators
- License PVS (Performs integrity analysis of PVS)
- Reviews design and procurement specifications for compliance (Works with procurement)
- Reviews and provides guidance to alterations and modifications to PVS
- Interfaces with NASA HQ and other Centers on matters pertaining to PVS
- Provides interpretation of standards and regulations relating to PVS

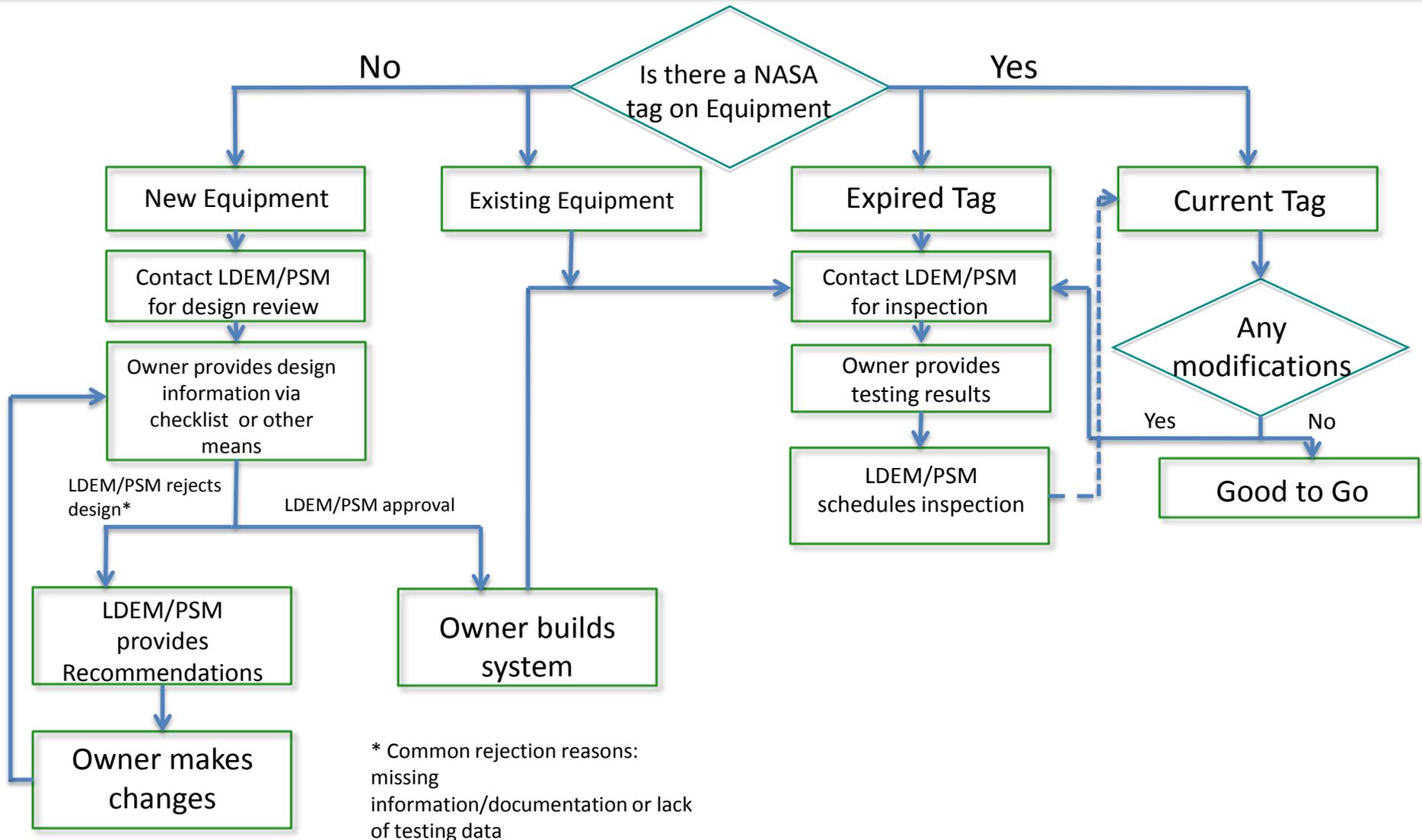


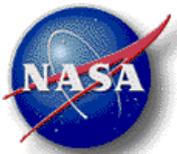
OWNER RESPONSIBILITIES

- Ensures compliance of PVS is in accordance with NASA, GSFC, and National consensus standards.
- Ensures that their systems are certified and are operated per the approved certification
- Ensures components of systems are tested/maintained on a periodic basis
- Provides documentation of systems to RECERT; prior to procurement
- Repairs system when discrepancies are found/identified by RECERT
- Notifies RECERT prior to system repair or modification
- Designates responsible qualified technical representative for each system (Lab Managers)
- Ensures systems are operated by skilled and trained operators
- Develops and documents system's operating procedures
- Performs regular inspections to assess system's condition
- Notifies RECERT when system is Out of Service



TAGGING





TAGGING

NASA Tags

Back of metal tags

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

NASA/GSFC/PVS

Greenbelt Facility (301)286-5181	Wallops Flight Facility (757)824-1714
-------------------------------------	------------------------------------------

Expiration Date- _____

Current



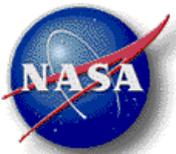
GODDARD SPACE FLIGHT CENTER
 RECERTIFICATION PROGRAM

Certification In-Process

SYSTEM NO.	
Report No.	N/A
CERTIFICATION EXPIRATION DATE	N/A

This System is to be certified in accordance with GPR 8710.3 to the parameters specified in the RECERT CM System.

If there is a problem with, or a question regarding this System, contact RECERT Support at extension: (301) 286-0116

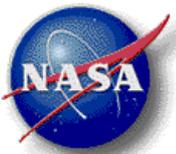


TAGGING: SYSTEM/COMPONENT

- Permanent metal tags to replace existing tags



- Excluded systems will not be tagged unless explicitly requested by owner



CERTIFICATION REQUEST FORM

 PVS Questionnaire: Phase 1

- Questionnaire**
Describe the purpose of the PVS and your intended use:
[Text input field]

- What are the normal operating conditions:
Pressure [Text input field]
Temperature [Text input field]
Flow Rate [Text input field]
Frequency of use [Text input field]
Duration of use [Text input field]

- What are the maximum operating conditions:
Pressure [Text input field]
Temperature [Text input field]
Flow Rate [Text input field]
Frequency of use [Text input field]
Duration of use [Text input field]

- How is the PVS supplied with gas/liquid, and what is that gas/liquid:
[Text input field]

- What are the major system components:
[Text input field]

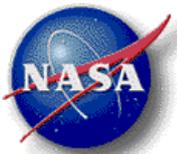
- What is the initial date of construction/use for the PVS:
[Text input field]

- Describe any current issues/problems with the PVS that you are aware of:
[Text input field]

- Are there any plans to dismantle/decommission this PVS in the near future, if so please explain:
[Text input field]

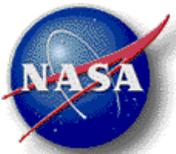
GSFC (Greenbelt, MD) Date Oct. 3, 2012 Revision: 1 Page 2 of 2

- To be used for new systems, or modifications to existing systems
- Initiates communication with RECERT team to work on your PVS
- Can be found on RECERT website, or emailed upon request
- Should be filled out completely to help certify the system faster



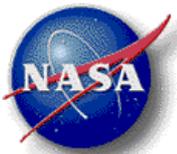
TESTING/MAINTENANCE

- Owner/Operator's are responsible for their own testing/maintenance of PVS
- RECERT will notify when specific maintenance is required
- Options to perform testing/maintenance:
 - Send component/system to on center calibration lab
 - Send component/system to original manufacturer
 - Perform work yourself with approved written procedures
 - Pursue a waiver indicating why testing/maintenance cannot be performed



SATERN TRAINING

- PVS training available through SATERN portal
- 6 courses relevant to PVS:
 - Safety for High Pressure Operators (In process)
 - Compressed Gas Safety
 - Pressure Systems Safety for Flight and Ground
 - Pressure Vessel Systems certification and inspection
 - Ground Based Pressure Vessel Safety
 - Pressure Systems Essentials (Required Course)
- All operators are required to take the training course specified by respective Supervisors and the PSM



QUESTIONS?