



Work Instruction

DIRECTIVE NO. 540-WI-8072.1.4A
EFFECTIVE DATE: 07/29/2004
EXPIRATION DATE: 07/29/2009

APPROVED BY Signature: Original signed by
NAME: Stanley Y. Chan
TITLE: RECERT Manager

Responsible Office: 540/RECERT

Title: Recertification of Ground-Based Pressure Vessels and Pressurized Systems (PV/S)

PREFACE

P.1 PURPOSE

This Work Instruction describes the step-by-step process to be used by the Recertification Program (RECERT) Support Function personnel for the Recertification of Ground-Based Pressure Vessels and Pressurized Systems (PV/S).

P.2 APPLICABILITY

This Work Instruction is applicable to PV/S Recertification activities at Greenbelt, MD and at the Wallops Flight Facility, VA.

P.3 REFERENCES

P3.1 GPG 8710.3, Certification and Recertification of Ground-Based Pressure Vessels and Pressurized Systems.

P.4 CANCELLATION

540-WI-8072.1.3, Certification of New or Modified Ground-Based Pressure Vessels and Pressurized Systems (PV/S)

P.5 TOOLS, EQUIPMENT, AND MATERIALS

Applicable PV/S certification procedures shall include any special tools, equipment, or materials necessary for certification of PV/S.

P.6 SAFETY PRECAUTIONS AND WARNINGS

Safety, caution and warning notes unique to PV/S certification shall be included in applicable certification procedures.

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P.7 TRAINING

None

P.8 RECORDS

Record Title	Record Custodian	Retention
PV/S Certification and Recertification Records.	RECERT Manager	As defined in GPG 8710.3

P.9 METRICS

None

P.10 DEFINITIONS

None

INSTRUCTIONS

The following STEPS are sequential unless noted otherwise.

ACTION*

- (E) A. Prior to the first Recertification interval, develop a System-specific System ISI Procedure (SISIP) based upon the approved RSCP to include at least the following.
 - 1. System boundary definition.
 - 2. ISI methods and intervals for System components. This may be generic; that is, "all relief valves = CRVT every two years."
 - 3. Delineation of applicable NDT procedures defined in Step A.2, including acceptance criteria.
- (E) B. Obtain RECERT Manager's approval of proposed SISIP.
- (E) C. For subsequent System ISI, review existing SISIP for continued applicability. (If the configuration has changed, or if the System has been modified, follow 540-WI-8072.1.3, Certification of New or Modified Ground-Based Pressure Vessels and Pressurized Systems.
- (I) D. Perform System/Component ISI.
 - 1. If acceptable, proceed to STEP E.
 - 2. If unacceptable, proceed as directed by RECERT Manager.
- (I) E. Apply Recertification Tag(s) containing at least the following information, and release for service or return to Owner/User.
 - 1. System/Component ID.
 - 2. Date tested or inspected.
 - 3. Due date for next Recertification expressed as the last day of the calendar quarter and year (e.g., 3Q/99 = due by September 30, 1999)
- (E) F. Transmit Recertification letter with RECERT Manager's approval to Owner/User and file Recertification Test Reports in RECERT Master Files.
- (CSV) G. Update Certification Status Verification System to reflect System/Component Recertification.
- (I) H. Perform subsequent Recertification in accordance with CSV schedule.

* LEGEND: (E) – Engineering; (I) – Inspection; (CSV) – Certification Status Verification

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RECERT PV/S Tags

Note: Typical GSFC Greenbelt tags are shown. WFF tags are similar but include WFF-specific designation and contact information.


**GODDARD SPACE FLIGHT CENTER
RECERTIFICATION PROGRAM
CERTIFIED**

In accordance with NASA requirements and GPG 8710.3, inservice inspections have been performed by RECERT Support on _____ to pressure system number: _____

The System is certified in accordance with the following applicable procedures.

- _____ NMP-103, External Visual Examination
- _____ NMP-106, Relief Valve Certification
- _____ NMP-105, Pressure Gage Certification
- _____ NMP-107, Relief Valve Lift Test
- _____ NMP-114, Flex Hose Functional Test
- _____ NMP-123, Leak Test

If there is a problem with or a question regarding this vessel, contact RECERT Support at extension: (301) 286-5181.
Report Number: _____ Due Date: _____

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**GODDARD SPACE FLIGHT CENTER
RECERTIFICATION PROGRAM
CERTIFIED**

In accordance with NASA requirements and GPG 8710.3, inservice inspections have been performed by RECERT Support on _____ to pressure system number: _____

The System is certified in accordance with the following applicable procedures.

- _____ NMP-101, Magnetic Particle Test
- _____ NMP-102, Liquid Penetrant Test
- _____ NMP-109, Ultrasonic Thickness Test
- _____ NMP-111, Liquid Penetrant Test
- _____ NMP-113, Magnetic Particle Test

If there is a problem with or a question regarding this vessel, contact RECERT Support at extension: (301) 286-5181.
Report Number: _____ Due Date: _____



**GODDARD SPACE FLIGHT CENTER
RECERTIFICATION PROGRAM
CERTIFIED**

SYSTEM NO: _____

MAC NO: _____

UPV NO: _____

MAWP/MDP: _____ PSI @ _____ ° F

DUE DATE: _____

RECERT SUPPORT: (301) 286-5181

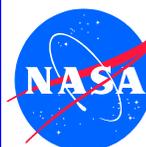
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**GODDARD SPACE FLIGHT CENTER
RECERTIFICATION PROGRAM
CERTIFIED
GAGE CALIBRATION TAG**
I.D. # _____
MAWP: _____ ACCUR: _____
INSPECTION DATE: _____
DUE DATE: _____
REPORT # _____
INSPECTOR: _____
RECERT SUPPORT: (301) 286-5181

**GODDARD SPACE FLIGHT CENTER
RECERTIFICATION PROGRAM
CERTIFIED
RELIEF VALVE INSPECTION TAG**
I.D. # _____
SET PRESSURE: _____
INSPECTION DATE: _____
DUE DATE: _____
REPORT # _____
INSPECTOR: _____
RECERT SUPPORT: (301) 286-5181

**GODDARD SPACE FLIGHT CENTER
RECERTIFICATION PROGRAM
CERTIFIED
GAGE VT INSPECTION TAG**
I.D. # _____
MAWP: _____
INSPECTION DATE: _____
DUE DATE: _____
REPORT # _____
INSPECTOR: _____
RECERT SUPPORT: (301) 286-5181

**GODDARD SPACE FLIGHT CENTER
RECERTIFICATION PROGRAM
CERTIFIED
FLEX HOSE INSPECTION TAG**
I.D. # _____
MAWP: _____
INSPECTION DATE: _____
DUE DATE: _____
REPORT # _____
INSPECTOR: _____
RECERT SUPPORT: (301) 286-5181

**GODDARD SPACE FLIGHT CENTER
RECERTIFICATION PROGRAM
CERTIFIED
FLEX HOSE VT INSPECTION TAG**
I.D. # _____
INSPECTION DATE: _____
DUE DATE: _____
REPORT # _____
INSPECTOR: _____
RECERT SUPPORT: (301) 286-5181

**GODDARD SPACE FLIGHT CENTER
RECERTIFICATION PROGRAM
CERTIFIED
AIR PAD VT INSPECTION TAG**
I.D. # _____
MAWP: _____
INSPECTION DATE: _____
DUE DATE: _____
REPORT # _____
INSPECTOR: _____
RECERT SUPPORT: (301) 286-5181

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CHANGE HISTORY LOG

Revision	Effective Date	Description of Changes
Baseline	02/22/2000	Initial Release
A	07/29/2004	Clarified that this WI is for RECERT Support Function personnel use in P1. Changed GMI 1710.4 to GPG 8710.3 throughout. Added examples of RECERT Tags.

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