

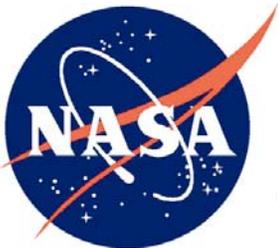
GSFC GPM CMO

June 5, 2009

RELEASED

Global Precipitation Measurement (GPM)

Pressure Transducer Deliverable Items List and Schedule (DILS)



National Aeronautics and
Space Administration

Goddard Space Flight Center
Greenbelt, Maryland

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Global Precipitation Measurement

iii

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CHANGE HISTORY LOG

Sheet: 1 of 1

REV LEVEL	DESCRIPTION OF CHANGE	APPROVED BY	DATE APPROVED
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TABLE OF CONTENTS

1.0 Introduction..... 1
1.1 Proprietary Data 1
1.2 Applicable Documents..... 1
2.0 Deliverables 2
2.1 Hardware Deliverables..... 2
2.2 Documentation Deliverables..... 3
Appendix A: Abbreviations and Acronyms..... 6

LIST OF TABLES

Table 1 Hardware Deliverable 2
Table 2 Documentation Deliverables..... 3

1.0 INTRODUCTION

This document is the Global Precipitation Measurement (GPM) Pressure Transducer Deliverable Items List and Schedule (DILS). This document provides specific information on the hardware and documentation deliverables for the pressure transducers.

1.1 PROPRIETARY DATA

Some of the content of documents may be of a proprietary nature to the document preparing/sending Party. In the event data is deemed to be proprietary, and for which protection is to be maintained, the sending Party shall mark the document with a notice to indicate that the data therein is proprietary and shall be used and disclosed by the receiving Party and its related entities (e.g., vendors and subvendors) only for the purposes of fulfilling the receiving Party's responsibilities under the Global Precipitation Measurement Project, and that the identified and marked technical data shall not be disclosed or retransferred to any other entity without prior written permission of the document preparer.

1.2 APPLICABLE DOCUMENTS

GPM-PROP-SOW-0020 Global Precipitation Measurement Project Pressure Transducer
Statement of Work

GPM-PROP-SPEC-0027 Performance Specification for Propulsion Subsystem Pressure
Transducers

2.0 DELIVERABLES

This section provides a tabular listing of hardware and documentation deliverables, including the following information:

Description: This provides the Title of the deliverable item.

Reference: This provides the reference to the pertinent document calling out the deliverable

Category:

A = Approval – Documents in this category require approval from the National Aeronautics and Space Administration (NASA)/Goddard Space Flight Center (GSFC) Contracting Officer (CO). In general, documents shall be provided in vendor format as long as required content, as specified in the Global Precipitation Measurement Project Pressure Transducer Statement of Work (GPM-PROP-SOW-0020), is addressed.

R = Review – Documents in this category do not require formal NASA/GSFC CO approval. They must be received within a specified time period and are subject to evaluation. The NASA/GSFC CO reserves the time-limited right of disapproval for each submission. The time-limited period is two weeks from receipt of documents.

I = Information – Documents in this category are informal and are for information only.

Quantity: This provides the required number of copies for the deliverable. All data is required to be submitted **electronically**. The number in the quantity column refers to the number of hard copies required.

Delivery Date: This provides the fixed or relative date or time that the deliverable is required.

2.1 HARDWARE DELIVERABLES

Table 1 Hardware Deliverable

Item #	Description	Reference	Quantity	Delivery Date
1	Pressure Transducer – Flight Unit Type 1: 0-400 psia (2.76 MPa) FSO	SOW Sect. 1.2	1	Ten (10) months after start of contract
2	Pressure Transducer – Flight Unit Type 2: 0-200 psia (1.38 MPa) FSO	SOW Sect. 1.2	1	With item #1
3	Pressure Transducer – Spare Type 1: 0-400 psia (2.76 MPa) FSO	SOW Sect. 1.2	1	With item #1
4	Pressure Transducer – Spare Type 2: 0-200 psia (1.38 MPa) FSO	SOW Sect. 1.2	1	With item #1

Item #	Description	Reference	Quantity	Delivery Date
5	Mating Connector – Flight Unit	SOW Sect. 1.2	4	With item #1
6	Mating Connector – Spare	SOW Sect. 1.2	4	With item #1

2.2 DOCUMENTATION DELIVERABLES

Table 2 Documentation Deliverables

Item #	Description	Reference	Category	Quantity	Delivery Date
1	Verification Matrix	SOW Sect. 1.2	A	1	Fifteen (15) calendar days before DCR
2	Monthly Reports	SOW Sect. 2.1	I	1 per month	First of every month
3	Design Conformance Review (DCR)	SOW Sect. 2.3.1	R	1	Three (3) months after Award of Contract
4	Design Conformance Review Report	SOW Sect. 2.3.1	R	1	Ten (10) calendar days after completion of DCR
5	Pre-Environmental Review (PER)	SOW Sect. 2.3.2	R	1	Five (5) calendar days before start of environmental test program
6	Flight Unit Pre-Ship Review (PSR)	SOW Sect. 2.3.3	R	1	Five (5) calendar days prior to delivery of each Flight Unit
7	Interface Control Document (ICD)	SOW Sect. 3.2.1	R	1	Fifteen (15) calendar days before DCR
8	Drawing Package (Include STEP/CAD file)	SOW Sect. 3.2.2	A	1	Fifteen (15) calendar days before DCR
9	Design Conformance Review Presentation Package	SOW Sect. 3.2.3	I	1	Fifteen (15) calendar days before DCR
10	Mechanical/Structural Analysis	SOW Sect. 2.3.1	R	1	Fifteen (15) calendar days before DCR
11	Thermal Analysis	SOW Sect. 2.3.1	R	1	Fifteen (15) calendar days before DCR
12	Flight Unit Data Delivery Package (including calibration curves)	SOW Sect. 3.2.4	A	1	With each delivered Flight Unit
13	Verification Test Plan	SOW Sect. 3.2.5	A	1	Fifteen (15) calendar days before DCR
14	Verification Test Procedures	SOW Sect. 3.2.6	R	1	Thirty (30) calendar days before start of testing and as changes occur

Item #	Description	Reference	Category	Quantity	Delivery Date
15	Contamination Control Plan	SOW Sect. 3.2.7	R	1	Fifteen (15) calendar days before DCR
16	Qualification Test Report	SOW Sect. 3.2.8	A	1	Fifteen (15) calendar days before DCR
17	Pressure Transducer Operational Constraints Document	SOW Sect. 3.2.9	R	1	Fifteen (15) calendar days before DCR
18	Quality Assurance Plan/Manual	SOW Sect.5.1.1	A	1	Twenty-eight (28) calendar days after Award of Contract
19	Class I CM Changes	SOW Sect. 5.1.3	A	1	Five (5) calendar days after Contractor CM review
20	Class II CM Changes	SOW Sect. 5.1.3	R	1	Five (5) calendar days after Contractor CM review
21	Failure Reports	SOW Sect. 5.1.4	A	1	Five (5) calendar days after Contractor Failure Review Process determines disposition
22	Failure Mode and Effects Analysis (FMEA)	SOW Sect. 5.2.1	R	1	Fifteen (15) calendar days before DCR
23	Parts Stress Analysis Criteria if different from EEE-INST- 002	SOW Sect. 5.2..2	A	1	Twenty-eight (28) calendar days after Award of Contract
24	Parts Stress Analysis	SOW Sect. 5.2.2	R	1	Ten (10) calendar days before DCR
25	Worst Case Analysis	SOW Sect 5.2..3	R	1	Fifteen (15) calendar days before DCR
26	Limited-Life Items List	SOW Sect. 5.2.4	A	1	Fifteen (15) calendar days before DCR
27	Trended Parameter List	SOW Sect. 5.4..2	R	1	Fifteen (15) calendar days before DCR
28	Test and Trend Analysis Reports	SOW Sect 5.4.2	I	1	Delivered at PSR
29	Demonstration of Failure- Free Operation	SOW Sect. 5.4.3	R	1	Delivered at PSR
30	Documentation of workmanship standards, and compliance with GSFC requirements	SOW 5.5.1	R	1	Thirty (30) calendar days before DCR
31	EEE Parts Identification List	SOW Sect. 5.6.1	A	1	Fifteen (15) calendar days before DCR

Item #	Description	Reference	Category	Quantity	Delivery Date
32	Documentation on Custom Devices	SOW Sect. 5.6.2	A	1	Twenty-eight (28) calendar days after Award of Contract
33	Radiation Test Plans (If Applicable)	SOW Sect. 5.6.3	R	1	Plans submitted thirty (30) calendar days prior to test; Returned with comments within fifteen (15) calendar days
34	Radiation Test Reports (If Applicable)	SOW Sect. 5.6.3	I	1	Ten (10) calendar days after test
35	Recertification Plans for Parts > 5 Yrs (If Applicable)	SOW Sect. 5.6.4	A	1	Fifteen (15) calendar days before DCR
36	Alert/Advisory Disposition and Preparation	SOW Sect. 5.6.5	R	1	Three (3) working days after Contractor disposition
37	Materials and Processes Identification List	SOW Sect. 5.7.1	A	1	Thirty (30) calendar days before DCR
38	As-Built Materials List	SOW Sect. 5.7.1	A	1	Fifteen (15) calendar days prior to PSR
39	Materials Usage Agreement (If Applicable)	SOW Sect. 5.7.2	A	1	Thirty (30) calendar days before DCR
40	Documentation of compliance with fastener integrity requirements	SOW Sect. 5.7.4	R	1	Thirty (30) calendar days before DCR
41	PWB Coupons	SOW Sect. 5.7.5.2	R	1 per PWB	Testing completed prior to population of flight PWBs
42	Materials Procurement Certificate of Compliance	SOW Sect. 5.7.6	R	1	Fifteen (15) calendar days before DCR

APPENDIX A: ABBREVIATIONS AND ACRONYMS

A	Approval
CCB	Configuration Control Board
CDR	Critical Design Review
CM	Configuration Management
CMO	Configuration Management Office
CO	Contracting Officer
COTR	Contracting Officer's Technical Representative
DCR	Design Conformance Review
DILS	Deliverable Items List and Schedule
EEE	Electrical, Electronic, and Electromechanical
GPM	Global Precipitation Measurement
GSE	Ground Support Equipment
GSFC	Goddard Space Flight Center
I	Information
ICD	Interface Control Document
MIP	Mandatory Inspection Point
NASA	National Aeronautics and Space Administration
PDR	Preliminary Design Review
PER	Pre-Environmental Review
PSR	Pre-Shipment Review
QA	Quality Assurance
R	Review
SOW	Statement of Work