

NASA Headquarters  
Washington, DC 20546

HOWI8400 - M017  
REVISION BASELINE  
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# Code M NASA / DoD GPS Coordination Process

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NASA Headquarters		
Code M NASA/DoD GPS Coordination Process	HOWI8400 - M017	Revision: Baseline
	Date: December 16, 1998	Page 1 of 8

**Code M  
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December 1998

Original Approved and signed by

Joseph H. Rothenberg  
Associate Administrator, Office of Space Flight

NASA Headquarters		
Code M NASA/DoD GPS Coordination Process	HOWI8400 - M017	Revision: Baseline
	Date: December 16, 1998	Page 2 of 8

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NASA Headquarters		
Code M NASA/DoD GPS Coordination Process	HOWI8400 - M017	Revision: Baseline
	Date: December 16, 1998	Page 3 of 8

## TABLE OF CONTENTS

<b>PARAGRAPH</b>	<b>PAGE</b>
<b>1.0 PURPOSE</b>	<b>4</b>
<b>2.0 SCOPE</b>	<b>4</b>
<b>3.0 DEFINITIONS</b>	<b>4</b>
<b>4.0 REFERENCES</b>	<b>4</b>
<b>5.0 FLOWCHART</b>	<b>5</b>
<b>6.0 NASA/DoD GPS COORDINATION PROCESS STEPS</b>	<b>6</b>
<b>7.0 RECORDS</b>	<b>8</b>

NASA Headquarters		
Code M NASA/DoD GPS Coordination Process	HOWI8400 - M017	Revision: Baseline
	Date: December 16, 1998	Page 4 of 8

## 1.0 PURPOSE

The purpose of this OWI is to document the process for negotiating an agreement with DoD for NASA access and use of the GPS Precise Positioning Service (PPS).

The Associate Administrator (AA) for the Office of Space Flight (OSF) is responsible for ensuring maintenance of this document. The controlled version of the manual is available on the world wide web (WWW) via the HQ ISO 9000 Document Library for the ISO 9000 QMS at <http://www.hq.nasa.gov>. By definition, any printed version of this OWI is uncontrolled. Any proposed revision to this manual is submitted by the AA for OSF or his designee. The AA for OSF or his designee, authorizes approval of the revision after an internal review by the Document Control Board.

## 2.0 SCOPE

This OWI is for coordinating the NASA and Department of Defense (DoD) Global Positioning System (GPS) agreement and developing annexes to the agreement.

## 3.0 DEFINITIONS

The following terms and acronyms are used in this OWI:

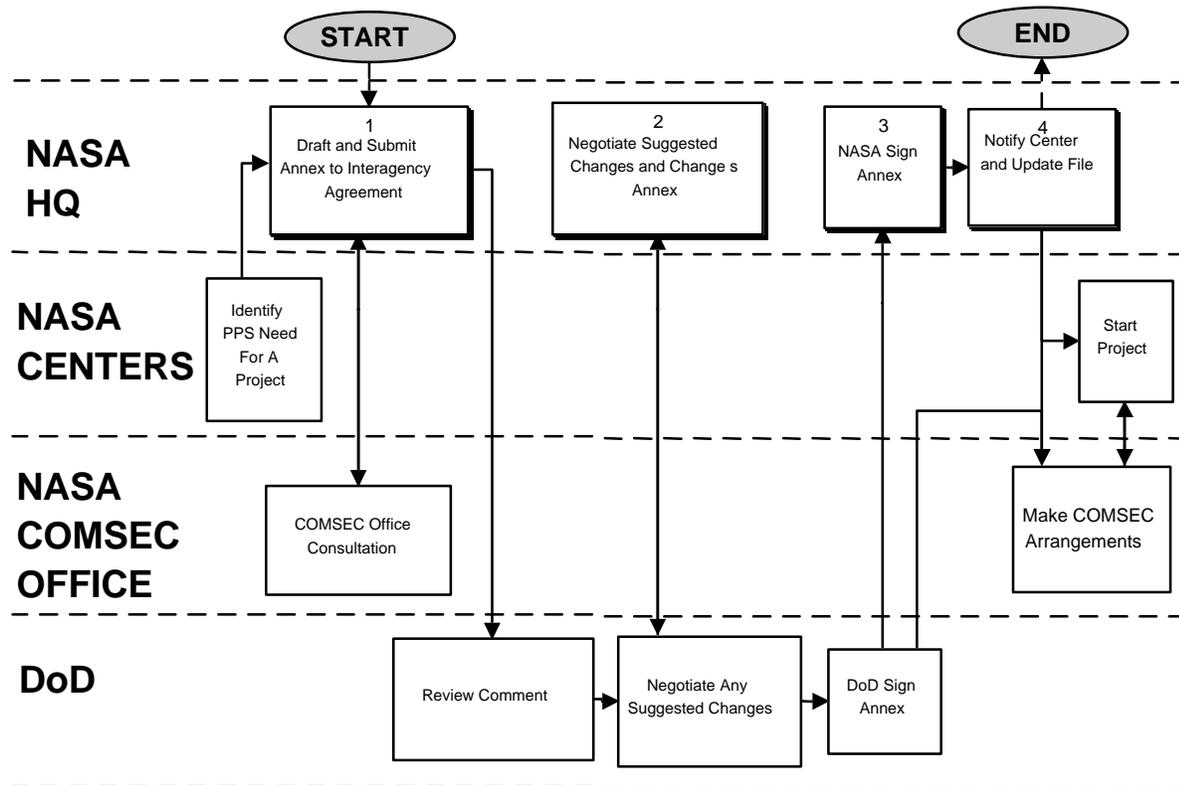
MOA	Memorandum of Agreement – A significant, binding National agreement. It contains a very high level Statement of requirements and may address monetary Issues, when appropriate
GPS	Global Positioning System – A DoD operated, satellite navigation system
PPS	Precise Positioning Service – A precise military signal from GPS
COMSEC	Communication Security – A security office providing secure communications

## 4.0 REFERENCES

HQSM 1200.A.1	Headquarters Quality System Manual
DoD-090	Interagency Agreement Between NASA and DoD for Access To and Use of the Global Positioning System Precise Positioning Service (Interagency MOA on GPS)
NPD-8900	NASA Use of Global Positioning System Precise Positioning Service

NASA Headquarters		
Code M NASA/DoD GPS Coordination Process	HOWI8400 - M017	Revision: Baseline
	Date: December 16, 1998	Page 5 of 8

## 5.0 FLOWCHART



**NOTE:** The primary product of this process is an annex to the Interagency MOA on GPS.

NASA Headquarters		
Code M NASA/DoD GPS Coordination Process	HOWI8400 - M017	Revision: Baseline
	Date: December 16, 1998	Page 6 of 8

## 6.0 NASA/DoD GPS COORDINATION PROCESS STEPS

Some NASA missions that have elected to use the DoD's Global Positioning System (GPS) may require access to and use of the Precise Positioning Service (PPS) which can only be accessed and used by employing specialized cryptographic equipment provided by DoD. NASA has negotiated an Interagency Agreement to obtain the necessary equipment when both agencies agree on the terms of the use. This process describes the actions required to negotiate an agreement with DoD for NASA access and use of the GPS PPS.

### Flowchart

Reference	Actionee	Action
1	NASA GPS Coordinator	<p>Receives Project Manager's request resulting from his decision that the use of the GPS Precise Positioning Service is essential for his Project in order to:</p> <ol style="list-style-type: none"> <li>1) Achieve the level of position accuracy needed by the Project, or,</li> <li>2) Protect the availability of the GPS signal in an environment where either intentional or unintentional signal interference may be encountered.</li> </ol> <p>In response to this request, the NASA GPS Coordinator drafts an Annex to the DoD / NASA Interagency Agreement for Access to and Use of GPS PPS. NASA Headquarters provides in the Annex the following information:</p> <p style="margin-left: 40px;"><u>Objective:</u> brief description of the Project needing the GPS PPS</p> <p style="margin-left: 40px;"><u>Background:</u> description of the Project's goals in terms of NASA's scientific or technology goals and why accurate position or signal protection is needed.</p> <p style="margin-left: 40px;"><u>Specific Application:</u> description of how GPS will be employed on the Project and describing equipment to be used in providing the Precise Positioning Service.</p> <p style="margin-left: 40px;"><u>Special Terms and Conditions:</u> identifies any special terms or conditions noted by the Project. (Will also serve as a location for adding any</p>

NASA Headquarters		
Code M NASA/DoD GPS Coordination Process	HOWI8400 - M017	Revision: Baseline
	Date: December 16, 1998	Page 7 of 8

special DoD terms or conditions agreed to later in the negotiation process.)

Security: documents agreements made with Project's local Communication Security (COMSEC) office concerning safe guarding of the PPS equipment, keying material, or any security sensitive information relative to the Project's use of GPS PPS.

Schedule: specifies the Project's anticipated schedule relative to use of GPS PPS. Pertinent information such as launch dates, operational periods, pre-launch testing dates, and Project completion dates should be included.

Amendment and Termination: specifies the process for amending the Annex as well as identifies the date of termination for the Interagency agreement on access and use of GPS PPS for the specific Project covered by the Annex.

Effective Date: identifies the agreed to starting date.

Provides Draft Annex to DoD for review.

- |   |  |  |
|---|--|--|
| 2 | NASA GPS Coordinator                                 | Negotiate any comments on the proposed Annex Coordinator received from DoD. If necessary coordinate with Project Manager and / or COMSEC Office depending upon nature of DoD comments. |
| 3 | NASA Deputy Administrator for Space Flight (Shuttle) | Review and approve. Retain one copy and return one signed copy to DoD.   |
| 4 | NASA GPS Coordinator                                 | Notify Project Manager and COMSEC Office that Annex is signed. Enter into MOA Annex file.  |

NASA Headquarters		
Code M NASA/DoD GPS Coordination Process	HOWI8400 - M017	Revision: Baseline
	Date: December 16, 1998	Page 8 of 8

## 7.0 RECORDS

Record Identification	Owner	Location	Retain	Media
Annexes to the Interagency Agreement Between NASA and DoD for Access and Use of the Global Positioning System Precise Positioning Service (Interagency MOA on GPS)	M	M	Until the expiration date or until effective date of termination or modification	Hardcopy

The Code M NASA/DoD GPS Coordination records are retained and dispositioned in accordance with NPG 1441.1, SCHEDULE 1/14B.1(a), Permanent - Retire to Federal Records Center when 2 years old; transfer to NARA when 2 years old.