

MEMORANDUM OF UNDERSTANDING

between the

U.S. GEOLOGICAL SURVEY

and the

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

for the

DEVELOPMENT, PROCUREMENT, IMPLEMENTATION AND OPERATION OF THE

LANDSAT 7 DATA PROCESSING, ARCHIVING AND DISTRIBUTION SYSTEM

Purpose

Public Law 102-555 established an integrated program management structure for operations of the Land Remote Sensing program. The law gave joint responsibilities to the National Aeronautics and Space Administration (NASA) and the Department of Defense. Pursuant to this law and Executive Branch agreement, NASA has assumed responsibilities for, inter alia, operation of the Landsat 7 ground system. This Memorandum of Understanding (MOU) defines the participation of the U.S. Geological Survey (USGS) in certain aspects of NASA Landsat Program Management responsibilities, and defines the agencies' roles in developing ground systems to support Landsat 7.

This agreement supplements existing NASA/USGS MOUs for "Experimental Land Remotely Sensed Data Processing, Distribution, Archiving and Related Science Support," dated March 16, 1988 (as amended) and for Participating in the Earth Observing System (EOS) Data and Information System (EOSDIS), dated December 3, 1992, and provides that USGS will implement and operate, under NASA direction, the required system to receive, process, archive and distribute data and data products from the Landsat Program through the EOSDIS Land Processes Distributed Active Archive Center (DAAC). In addition, this agreement provides for USGS participation in the requirements definition, program planning, systems design and development, procurement, implementation and operation of Landsat 7 ground processing systems.

NASA's authority to enter into this interagency MOU is contained in the National Aeronautics and Space Act of 1958 as amended, 42 U.S.C. 2473(i)(5) and (c)(6). USGS's authority to enter into this interagency agreement is the Economy Act {31 U.S.C 1535).

NASA Responsibilities

NASA's Earth Science Mission Operations Office (ESMO) at the Goddard Space Flight Center (GSFC) will have responsibility for the implementation of the overall Landsat 7 Ground Data System (GDS), under the programmatic direction of the NASA/HQ Landsat 7 Program Office.

NASA will define and provide to the USGS Landsat 7 Level 1 and Level 2 Requirements, and associated implementation guidelines, for systems required to manage, process and archive Landsat 7 data, and to produce and distribute data products. NASA will deliver raw Landsat 7 data to the Land Processes DAAC.

NASA will direct and fund the development, implementation and operation of Landsat 7 GDS. NASA will oversee the development of and fund archive, processing and distribution functions, including operations and maintenance, for Landsat 7 data to acquisition date plus three years, consistent with existing EOS data policy.

NASA funding will be pursuant to written orders signed by a NASA Contracting Officer (see FAR subpart 17.5 and NASA FAR subparts 18.17.5 and 18.17.70). This MOU is not to be considered a funding document for purposes of recording NASA obligations.

USGS Responsibilities

USGS will develop and implement specified portions of the Landsat 7 GDS in a manner that satisfies the system and product generation requirements defined by NASA. USGS will have responsibility for GDS liaison with the Landsat 7 Space Segment contractor, participation in design reviews of the Landsat 7 Science Processing Software (SPS), GDS/SPS integration, and integration of required interfaces to Space Segment systems.

USGS will manage and operate the Landsat 7 GDS to archive, process and distribute Landsat 7 data and related products under the general direction of the NASA/ESMO Project. USGS will fund long-term archive and distribution functions, as a responsibility of the National Satellite Land Remote Sensing Data Archive, including operations and maintenance costs for data more than three years old.

Implementation Approach

USGS will, in response to Landsat 7 Level 1 and 2 Requirements provided by NASA, define, specify, procure, and implement the Landsat 7 GDS, in accordance with NASA and USGS responsibilities and funding arrangements defined earlier.

Annual plans will be submitted by USGS to NASA, based upon NASA guidance, with negotiation as required to develop an annual Statement of Work for Landsat 7 support activities, normally annually.

Period of Agreement

This agreement is applicable for the life of the Landsat Program, or until superseded by subsequent mutual agreement, and is subject to availability of appropriations to support programmatic responsibilities.

Signature of Approval

U.S. Geological Survey

National Aeronautics and Space Administration

(Signed Original on File)

(Signed Original on File)

Dallas L. Peck

Shelby G. Tilford

Director

Acting Associate Administrator

U.S. Geological Survey

Mission to Planet Earth

National Aeronautics and Space Administration