

2-12-88

Gary - I decided to give John Lenart the original for the NMD fits and am sending you a copy,
 Gary P.



Routing Slip

Mail Code	Name	Action
	ADC / Mr. Lowell Starr	Approval
		Call me
		Concurrence
		File
		Information
		Investigate and Advise
		Note and Forward
		Note and Return
		Per Request
		Per Phone Conversation
		Recommendation
		See me
		Signature
		Circulate and Destroy

ac: Lenart
 Pettengill copy
 EDC (original)
 PO
 2/11/88

Name	S. Richard Costa	Tel. No. (or Code) & Ext.	453-2000
Code (or other designation)	TS	Date	2/2/88

AGREEMENT FOR THE
TRANSFER OF LANDSAT 1, 2, AND 3 MULTISPECTRAL SCANNER
DATA AND DATA PROCESSING EQUIPMENT
FROM THE GODDARD SPACE FLIGHT CENTER TO THE EROS DATA CENTER

PURPOSE:

The purposes of this Agreement between the National Oceanic and Atmospheric Administration (NOAA), the National Aeronautics and Space Administration (NASA), and the U.S. Geological Survey (USGS) are: (1) to provide for physical transfer of the 1972-1978 Landsat 1, 2, and 3 Multispectral Scanner (MSS) data (Landsat historical data tapes) and related data processing equipment from facilities under NASA management at the Goddard Space Flight Center in Greenbelt, MD, to facilities under USGS management at the EROS Data Center (EDC) in Sioux Falls, SD; and (2) to define responsibilities of the parties.

BACKGROUND AND JUSTIFICATION:

Title II of the Land Remote-Sensing Commercialization Act of 1984 confirmed that the Secretary of Commerce shall be responsible for the Landsat 1-5 system. Section 602 of the Act directs the Secretary to establish an archive to provide for long-term storage, maintenance, and upgrading of a basic, global land remote sensing data set, using existing Landsat data as a baseline. These responsibilities have been delegated to the Assistant Administrator, National Environmental Satellite, Data, and Information Service (NESDIS), NOAA. In May 1986, NOAA and USGS signed a memorandum of agreement to jointly establish and operate the National Satellite Land Remote Sensing Data Archive ("the Archive") at EDC.

The MSS on Landsats 1, 2, and 3 under NASA management collected more than 400,000 scenes worldwide between 1972 and 1978. Of these, only about 6000 scenes had been processed to computer-compatible tape (CCT) format before the NASA installed a new, all digital Landsat ground system in 1979. These data existed on analog wide band video tapes (WBVTs) and could be converted to a usable CCT format only on NASA's original Landsat ground system using digital satellite "housekeeping" data tapes (DIATs and SLATs). In 1982, NOAA assumed management responsibility for operating the Landsat 4 and 5 system, which did not include the older ground system.

NASA and USGS cooperated in selecting about 61,456 1972-1978 Landsat scenes which yielded 43,613 scenes for historical preservation that were relatively cloud free and met seasonal and geographic requirements for global coverage. Between 1979 and 1986, NASA converted 36,045 of these scenes before funding constraints halted this conversion program in October 1986. NOAA funding to continue this effort through March 1987 resulted in the processing of 2202 scenes, yielding an additional 1568 Landsat scenes of historical value.

Since funding to continue this conversion process was not available after March 1987, NASA notified NOAA and other agencies that these data and equipment were to be excessed to make room for new projects. In an effort to

preserve as much as possible of this Landsat data base for the Archive, NASA, NOAA, and USGS have agreed to transfer the historical Landsat data tapes and processing equipment to EDC under the provisions of section 203(c)(6) of the Space Act of 1958, which permits NASA to make nonreimbursable transfers of equipment, supplies, or services to other Federal agencies. Although some risk exists in moving old computer equipment upon which the conversion process depends, the parties have reasonable expectation that the system can be restored to operational status at EDC. Appendix A lists this data processing equipment to be transferred to EDC.

NOAA SHALL:

Accept from NASA overall responsibility for the Landsat historical data tapes.

Provide funding for transportation of the Landsat historical data tapes (WBVT, DIAT, and SLAT) from NASA/GSFC in Greenbelt, MD, to EDC in Sioux Falls, SD.

Provide for transfer of responsibility for the Landsat historical data to USGS, consistent with plans for the Archive.

NASA SHALL:

Maintain operational readiness of the IIGS, DIGS, and SIGMA V systems until a transfer date is established.

Provide one week or more of training at GSFC for EDC production control personnel and assist in defining the required work flow.

Provide one week or more of hardware maintenance and operations training at GSFC for EDC personnel.

Provide funding for equipment disassembly and transportation from GSFC to EDC.

Conduct a performance test at GSFC of all hardware components scheduled for transfer before disassembly.

Under leadership of the EDC Project Manager, assist in the disassembly and shipment of the necessary components of the IIGS, DIGS, and SIGMA V systems.

Provide consulting services during system installation and acceptance testing at EDC as required.

Provide all available documentation regarding SIGMA V processing and related software, and assist in installation of systems software upon delivery of the defined systems to EDC.

Provide to USGS all available spares and special test equipment utilized in the maintenance of equipment that is transferred.

USGS SHALL:

Accept from NASA, at completion of performance test at GSFC, overall responsibility for the ground processing equipment used to convert the Landsat historical data tapes to computer compatible tapes.

Provide a Project Manager to coordinate the physical transfer of Landsat 1, 2, and 3 data and equipment from GSFC to EDC.

Provide EDC electronics maintenance staff to assist NASA in equipment dis-assembly activities.

Make best effort to bring equipment up to operational status after reassembly.

Provide facilities space for appropriate storage of data, including WBVT, DIAT, and SLAT data sets delivered to EDC from GSFC.

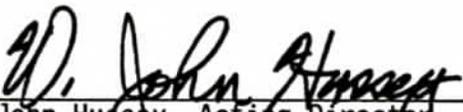
Provide facilities space for equipment delivered to EDC from GSFC and for operational activities necessary to process data from a WBVT to a CCT-X.

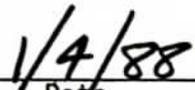
Define a data conversion scenario (output and schedule) and provide appropriate staff to support that scenario.

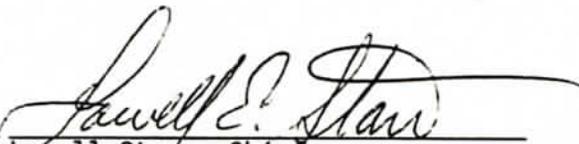
Assume responsibility for archival storage and management of all data to be maintained as a component of the Archive.

EFFECTIVE DATE:

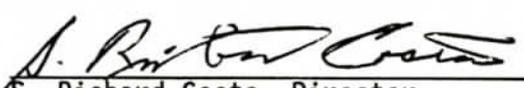
This agreement takes effect on the date of the last signature.

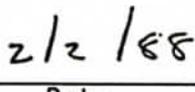

 W. John Hussey, Acting Director,
 Landsat Transition Group, NOAA/NESDIS


 Date


 Lowell Starr, Chief
 National Mapping Division, USGS


 Date


 S. Richard Costa, Director
 Communications and Data Systems Division,
 Office of Space Operations, NASA


 Date