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INTERAGENCY
MEMORANDUM
OF
UNDERSTANDING

FOR
THE MUTUAL BACKUP OF
SATELLITE DATA COLLECTION DATA
UTILIZING THE DIRECT READOUT GROUND STATIONS
IN BOISE, IDAHO & OMAHA, NEBRASKA

In
Bureau of Reclamation & Corps of Engineers

August 1992

This MEMORANDUM OF UNDERSTANDING is entered into and between the United States Department of the Interior, Bureau of Reclamation, Pacific Northwest Region (hereinafter called "Reclamation") and the United States Department of the Army, Corps of Engineers, Missouri River Division (hereinafter called "the Corps").

WITNESSETH:

WHEREAS the Corps and Reclamation have entered into similar Memorandums of Understanding dated September 1981 and July 1987 in which Reclamation agreed to receive and transfer Corps of Engineers satellite hydromet data to the Corps since Reclamation could provide this service with no noticeable impact on their system or plans for expansion. The Corps has a similar system and has provided a similar data collection and transfer service to the Reclamation with no major impacts on their system or plans for expansion. Since the July 1987 Memorandum of Understanding will expire in December 1992 and since the opportunity to mutually share the benefits of the two systems seems in the best interest of both parties, a new Memorandum of Understanding is required; and

WHEREAS the Corps has requested that Reclamation's direct readout ground station located at 1150 North Curtis, Boise, Idaho, 83706, be made available to serve as a backup ground station for hydrometeorological data transmitted by the Corps' Data Collection Platforms (DCP's) via the west or central Geostationary Operational Environmental Satellite (GOES); and

WHEREAS Reclamation has requested that the Corps' ground receive station located at the Federal Building, 17th and Capitol, Omaha, Nebraska, 68102, be made available to serve as a backup ground station for hydrometeorological data transmitted by Reclamation's DCP's via the west or central GOES; and

WHEREAS both parties have determined that performing this service will have only a small impact in computer response time and this operation will not impact the future expansion of their systems; and

WHEREAS both parties understand that this agreement to provide services to the other party is subject to the availability of obtaining funding to maintain the direct ground receive station and the components associated with it which will be providing this service.

WHEREAS the mutual backup of this data will provide the Reclamation and the Corps with a more reliable data collection system and also result in a more economical system for the U.S. Government by reducing redundant system components required by both parties without such a backup system; the parties hereto mutually agree as follows:

Responsibilities For The Corps Direct Readout Ground Station
with regard to providing Reclamation data backup. The following
are the responsibilities of the Corps at the Corps computer site:

1. The Corps agrees to receive, transfer, or make available to transfer Reclamation data to the Reclamation data collection computer system via the Corps asynchronous low-speed FTS line by using a Corps modem or by utilizing higher speed network communications.

2. The Corps will allow the Reclamation contractor access to the Corps equipment for the installation and maintenance of any of Reclamation's equipment placed at the Corps site.

3. The Corps will allow the Reclamation access via interactive terminal through an async port or by networking to the Corps data collection computer to perform the following functions:

- A. Verify that the Reclamation data transfer program is working.
- B. Set up and change the schedule used to automatically transfer data.
- C. Examine data stored in the temporary self-timed and random data files.
- D. Change or add stations or parameters to the system as the data collection network expands or parameters at the remote sites are changed.
- E. Any other access that might be necessary, to be mutually agreed upon by Reclamation and the Corps.

4. At the termination of this agreement, the Corps will, at the discretion of Reclamation, return to Reclamation all equipment purchased with Reclamation funds located at the Corps site.

5. The Corps will not be held responsible for loss of data due to maintenance, preventive maintenance, or during any other periods due to computer system downtime. These downtimes when scheduled will be discussed with the appropriate Reclamation staff so that Reclamation is aware of when scheduled downtimes will occur.

6. The Corps will furnish Reclamation with an up-to-date list of home telephone numbers of Corps personnel to call during non-normal office hours to notify the Corps of computer outages or problems that Reclamation is aware of on the Corps ground station. This list will be updated when changes are required and furnished to Reclamation.

7. The Corps will notify Reclamation as soon as possible when any major change or planned change that might impact future data backup for Reclamation is to occur.

The responsibilities of the Reclamation at the Corps computer site:

8. Any software development, integration, and documentation required for a change in data transfer methods will be performed by a contractor agreeable to the Corps and will be paid for by Reclamation if additional costs are required.

9. The Reclamation agrees to minimize its use of the Corps computer system and to protect the username and password assigned by the Corps to Reclamation.

Responsibilities For The Reclamation Direct Readout Ground Station with regard to providing Corps data backup. The following are the responsibilities of Reclamation at the Reclamation computer site:

1. The Reclamation agrees to receive, transfer, or make available to transfer Corps data to the Corps modeling computer system by asynchronous low-speed line by using a Reclamation modem or by utilizing higher speed network communications.

2. The Reclamation will allow the Corps contractor access to Reclamation equipment for the installation and maintenance of any Corps equipment placed at Reclamation site.

3. The Reclamation will allow the Corps access via interactive terminal through an async port or by a network connection to Reclamation data collection computer to perform the following functions:

- A. Verify that the Corps data transfer program is working.
- B. Set up and change the schedule used to automatically transfer data.
- C. Examine data stored in the temporary self-timed and random data files.
- D. Change or add stations or parameters to the system as the data collection network expands or parameters at the remote sites are changed.
- E. Any other access that might be necessary, to be mutually agreed upon by the Corps and Reclamation.

4. At the termination of this agreement, Reclamation will, at the discretion of the Corps, return to the Corps all equipment purchased with Corps funds.

5. The Reclamation will not be held responsible for loss of data due to maintenance, preventive maintenance, or during any other periods due to computer system downtime. These downtimes when scheduled will be discussed with the appropriate Corps staff so that the Corps is aware of when scheduled downtimes will occur.

6. The Reclamation will furnish the Corps with an up-to-date list of home telephone numbers of Reclamation personnel to call during nonnormal office hours to notify Reclamation of computer outages or problems that the Corps notices on Reclamation ground station. This list will be updated when changes are required and furnished to the Corps.

7. The Reclamation will notify the Corps as soon as possible when any major change or planned change that might impact future data backup for the Corps is to occur.

The responsibilities of Corps at Reclamation computer site:

8. Any software development, integration, and documentation required for a change in data transfer methods will be performed by a contractor agreeable with Reclamation and will be paid for by the Corps if additional costs are required.

9. The Corps agrees to minimize its use of Reclamation's computer system and to protect the username and password assigned by Reclamation.

TERM OF MEMORANDUM. This memorandum shall be effective commencing on the date of execution and shall remain in effect through 31 December 1999, to be renewed or terminated at that time. Notwithstanding the above stated term of this agreement, the agreement can be terminated by either party 120 days after serving written notice upon the other party.

IN WITNESS WHEREOF, the parties have executed this memorandum as of *Oct. 26, 1992.*

THE UNITED STATES OF AMERICA

Department of the Interior

by *Felix H. Cook, Sr.*

Regional Director
Pacific Northwest Region
Bureau of Reclamation

Department of the Army

by *John E. Schaufberger*

Commander
Missouri River Division
Corps of Engineers