Mather for Bell System
Back East
Conference
Sep 10, 1971
George Douglas Bob Bringer—
Gentlemen—Pleasure to attend—

Mr. President, I appreciate the opportunity to meet with distinguished Bell Labs officials, the Fellow Bureau of

...communications field. In 30 years of water resource planning and management activities, I have had direct

...responsible for virtually every phase of the Federal's function except for that which includes communications.

Two years ago I was asked to take on power—mostly from hydroelectric plants. Virtually all Federal hydro plants in the

western half of the U.S., except in the Pac NW, are that allow DOE does the work. We not run

50 billion kWh annually, growing constantly—w/ Curtis. 3rd Power House Crystal

...water, the Evergreen, Cottonwood, etc.—continuing

...addition to the system—transmission, 

...transmission, etc.

...The Federal system is bound by law to serve public utilities and by policy to also serve private utilities. Thus we

...are intergrated and vitally important in generation and transmission and both in a complicated network.
Suggested Speech by Gilbert G. Stamm at Telephone Meeting - Colorado Springs, Colorado, October 25-27, 1972

I take pleasure in joining with you here today to review our past progress and present status of telephone company leased circuit service.

We presently have leased, under existing contracts with various divisions of the telephone company, nearly 18,000 air miles of individual circuits of voice and telegraph grade at an annual cost of over $325,000. Another contract recently executed will provide several hundred more miles of leased circuits.

The first of these contracts became effective in 1967 although we had been leasing certain facilities on an individual basis some 10 years prior to that time. Shortly after the contracts were signed, it became apparent that better means of communication between all levels of both the telephone company and the Bureau organization had to be developed. In order to pinpoint needs and develop means for meeting them, a series of meetings between Bureau and company personnel were held. Some of these needs were:

1. The need for representatives of each organization to know who in the other organization to contact for help on particular problems.

2. A need to understand, on the part of both company and Bureau personnel, the other organizations objectives and methods of operation.
3. A need for company personnel to be aware of power utility methods and procedures.

4. A need to understand what levels of circuit quality were required to meet Bureau objectives. More specifically, a need to iron-out differences in nomenclature and terms as used by the power utility and the telephone utility so that personnel could communicate in a common "language."

5. The much more stringent quality requirements of a telemetering channel as compared to a voice grade channel.

The result of these meetings and a lot of "homework" on the part of many personnel of both organizations has been the so-called "Red Book." Of the five major contracts now in effect, three are supplemented by the "Red Book," and I am assured the fourth contract which was recently executed will soon be similarly supplemented. The need to develop the fifth one is under study.

This "Red Book" has been the answer to a great many of the problems we experienced in the days following initiation of the leased services contracts. This has lead to considerably better service as it relates to Bureau functions. Among other things the "Red Book" sets forth procedures for trouble reporting, gaining access to Bureau facilities, it provides names and telephone numbers of personnel to contact for particular requirements, channel strength levels, and a Company-Bureau dictionary.
with abbreviations, symbols, etc., and indentifications.

I believe the training being undertaken by company personnel at the Bureau's Operator Training Center in Denver will result in a much better understanding of each other's problems and consequently a further improvement in service.

While there has been terrific improvement in the quality and reliability of service in recent years, there still exist areas in which improvement is necessary. One example is the fact there were some 20 circuits which were interrupted in October for some undetermined length of time. The Bureau was never notified at or of the time these circuits were returned to service. Another example is the need for better coordination among the various telephone companies, their area and division personnel so that trouble shooting and circuit level checking are expedited.

Our Lower Missouri Region, formerly Region 7, has reported, in addition to the 20 I have mentioned, 73 outages on telephone company circuits during the 6-month period of May to October 1972. These outages varied from as short a time as 4 minutes to as long a time as 21 hours duration.

Despite this record, our field personnel are generally enthusiastic over the results obtained from the meetings necessary to develop the "Red Book" and its subsequent use. I am advised, we have no reported outstanding major problems with equipment.
An Engineering Implementation Meeting was held at Boulder City, Nevada to discuss plans for providing voice and data communications to the U.S.B.R.

IN ATTENDANCE

U.S.B.R.

R. A. Olson    Boulder City, Nevada
J. S. Forman   Boulder City, Nevada
B. L. Miller   Boulder City, Nevada
P. R. Hanson   Denver, Colorado
J. D. Davies   Phoenix, Arizona
C. S. Porter   Phoenix, Arizona
E. A. Hollenbeck  Phoenix, Arizona
W. Pearson     Phoenix, Arizona
R. Fodness     Phoenix, Arizona

A.T.&T. CO. LONG LINES

K. R. Essen    San Francisco, California
J. W. Davis    Phoenix, Arizona

CONTINENTAL TELEPHONE CO.

R. E. Avery    Victorville, California

CENTRAL TELEPHONE CO.

T. L. Metcalfe Las Vegas, Nevada
C. Herold      Las Vegas, Nevada

MOUNTAIN BELL

D. A. Flansburg Denver, Colorado
M. D. Dart      Denver, Colorado
F. O. Young     Denver, Colorado
R. L. Caldwell  Phoenix, Arizona
R. C. Thompson  Phoenix, Arizona
J. E. Evans     Phoenix, Arizona
A list of ten agenda items to be discussed was distributed at the start of the meeting. Each item was discussed in detail as follows:

ITEM 1 - PROJECT ORGANIZATION

To provide this service the telephone industry has established a project team consisting of the following committees:

- Implementation Committee
- Facility and Equipment Committee
- Cutover Committee

It was recommended that the interface between Reclamation and the telephone industry be as follows:

**Engineering**
- Project Engineer - Ken Essen

**Maintenance**
- Special Services Management Bureau - Bob Thompson

**Marketing**
- Mountain Bell Marketing - Don Flansburg

ITEM 2 - SYSTEM ENGINEERING LAYOUT

Updated facility routing plans, carrier layout and channel routing summary charts for this service was discussed. The major change in these plans is the service will go through Las Vegas on individual voice connected circuits instead of group connected. This will allow the Phoenix testboard to work with Las Vegas in isolating troubles and provide more flexibility in restoration.

Reclamation originally ordered 14 point to point circuits and a 15th multi-point party line circuit with three drops. The 15th circuit will now be split into two point to point circuits bringing the total number to sixteen. This will provide Reclamation more flexibility and simplify engineering for the telephone industry. Reclamation requested a cost quote to provide the additional channels.
ITEM 3 - CUSTOMERS INDIVIDUAL CIRCUIT DETAILS

Reclamation described the usage and operation of each individual circuit in detail. A general outline of these circuits is as follows:

Circuits one to five will be used as voice dispatching to other locations out of the Mead Sub-Station.

Circuits six, seven and eleven will be used as voice tie trunks with speech plus telemetering data.

Circuits eight, nine and ten will be used for telemetering data.

Circuits twelve, thirteen and fourteen will be voice to radio control channels.

Circuits fifteen and sixteen will be voice for maintenance purposes.

ITEM 4 - MEAD SUB-STATION

The telephone building at the Mead Sub-Station will be located on Reclamation's premise adjacent to the existing sub-station. The architect and location of the building has been approved by Reclamation and the Central Telephone Company. Central Telephone will proceed to obtain FCC approval. Details such as A.C. power requirements for the telephone building still have to be worked out between Reclamation and Central Telephone.

Construction of the telephone building will be done by an outside contractor. An employee of Central Telephone and Reclamation will be on site during all construction activity. Details such as access, work schedules and other arrangements will be worked out between Central Telephone and Reclamation.

ITEM 5 - INTERFACE INTER-CONNECTION

At the Mead Sub-Station Central Telephone will terminate its cable on Reclamations main frame for the demarcation interface. At Phoenix and Parker Dam the telephone company will furnish a terminal box for the demarcation interface. Reclamation will cable to test jacks on their side of the demarcation. The telephone company will cable to the telephone equipment room connecting these circuits to test jacks.

At the demarcation Reclamation will transmit at 16DB test level point (TLP) and receive from the telephone company at 7DB TLP. The composite signal level will be 13DB below TLP. The interface impedance will be 600 ohms.
The telephone company will require A.C. power from Reclamation. At Phoenix and Parker Dam 117 volts + or - 10% at 5 amps will be furnished. This circuit will be protected with a 10 amp circuit breaker. At the Mead Sub-Station, further negotiation is required between Reclamation and Central Telephone.

Continental Telephone and Reclamation agreed to have the telephone multiplex equipment on Reclamation's premises.

**ITEM 6 - PROTECTION**

At the Phoenix and Parker Dam locations all circuits will be protected from ground potential rise during a fault by the use of isolation transformers.

The telephone building ground at Mead will be connected to Reclamation's station ground mat in at least two places. Details for connecting to the ground mat will be worked out between Central Telephone and Reclamation.

**ITEM 7 - SIGNALING INTERFACE**

Out of band signalling will be provided over a separate voice grade circuit using voice frequency (VF) telegraph type channelizing equipment located in the telephone equipment room on Reclamation's premises.

The "E" and "M" signalling interface between Reclamation and the telephone industry will be dry contacts. Reclamation will furnish a dry contact for his "M" lead indication and the telephone industry will furnish a relay and the battery to recognize the signalling. The telephone industry will furnish a dry contact to Reclamation for his "E" lead indication. A closed contact to or from Reclamation will indicate an off hook condition.

Special considerations will have to be made for restoration of these circuits in the maintenance section of the Redbook.

**ITEM 8 - SERVICE DATES AND SCHEDULING**

Reclamation requires this service by 8/2/73, however, they would like an earlier date if possible. The telephone industry will try to improve this date. Normal work schedules without excessive overtime will be followed.

The telephone industry will require one month for plant tests so all facilities and equipment will have to be ready by 7/2/73.
ITEM 9 - MAINTENANCE

Reclamations interface for trouble reporting and maintenance of the network will be with the Mountain Bell Special Services Management Bureau (SSMB) at Phoenix, Arizona.

The SSMB is covered around the clock with Mountain Bell management personnel.

A "Red Book" practice will be developed to cover maintenance and restoration procedures for this service. The Red Book will be developed jointly by Reclamation and Mountain Bell. Coordination responsibility will be the Mountain Bell SSMB.

ITEM 10 - GENERAL DISCUSSION OF ANY EXISTING PROBLEM

No additional problems were brought up at this time and the meeting was closed.

K. R. E. [Signature]
Project Engineer

KRE: JW
I would like to express our appreciation for the cooperation rendered on the part of telephone company personnel in bringing the quality of service to its present level. I believe we can look forward to even better service as we continue to cooperate with each other and to gain even better understanding of each other's problems and operating procedures. This should develop the necessary team effort to maintain and improve the present satisfactory service.

In summary, our dependence on the services of the telephone system is growing, our requirements for reliability to meet progressively where today's sophisticated, automated, integrated, interconnected power system is also growing, so we cannot rest on our laurels. We are convinced that the Bell System requirement has the competence to meet the challenge. We are watching performance with continued cooperation at all levels and staff officials from our respective organizations can be met and we are banking on it.
May I close these remarks by writing a comment on my recent visit last month to the USSR.
In Moscow, while visiting with the Minister of Land Reclamation and Water Management, I noticed that he had 7 telephones on his desk, and a couple more on a credenza nearby. Later I asked one of his deputies why so many phones. He explained that the Minister was a very important man and needed ready telephone access to many offices. Indeed, he is important. He has 1,700 employees on his pay roll, and has an annual budget of $8 billion.
I explained that I had one telephone on my desk and that I could direct dial (without going through an operator) any telephone in the U.S. He showed some amazement and then appeared to doubt me. I could have commented also on the quality of Soviet phone service but refrained. The Soviets are rushing ahead at an amazing pace in construction, high density housing, development of water resources,
The irrigation past areas land but quality in execution plans designs blocking. In my opinion they will soon face maintenance and rehabilitation problems of tremendous proportions.

I should not close, however, without commenting on the fact that the friendliness and hospitality of the people throughout the areas we visited (the Ukraine, Carina, Russia, Uzbekistan, Turkman, the Karstic Stepe, the Hungarian Steppe) were outstanding, and I believe sincere.

Again may I express my appreciation for the opportunity to meet with you, and more importantly, my appreciation for your obvious desire to provide the quality and reliability of service we need so that we in turn can provide the quality of service the American public has come to expect.

Thank you.

Enclosed I have been given the post 3595 performance reports and letters.
DESTINATION: Colorado Springs, Colorado

DATES OF TRAVEL: October 25-28

TRAVEL APPROVED: October 3, 1972

TRAVEL SCHEDULE:

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<td>743</td>
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CAR RENTAL:

CITY: Denver, Colorado

FROM 10-25-72 TO 10-28-72

Arrival 10-25-72 1:20 p.m. Flt. No. UA 743 CONFIRMED
ITINERARY - G. G. STAMM

October 25, 1972

lv. Dulles 11:45 a.m. UA Flt. 743
ar. Denver, Colo. 1:20 p.m.

(to Colorado Springs, Colorado, via surface transportation)

Overnight: Antlers Plaza Hotel
Colorado Springs, Colorado
Phone: 303-473-5600

October 26, 1972

Attending a conference on communications sponsored by American Telephone and Telegraph Company at the Antlers Plaza Hotel

Overnight: same as above

October 27, 1972

a.m. same as above

p.m. return to Denver, Colorado, via surface transportation

Overnight: Sheraton Inn - Airport
3535 Quebec Street
Denver, Colorado 80207
Phone: 303-333-7711

October 28, 1972

lv. Denver, Colo. 9:10 a.m. UA Flt. 166
ar. Dulles 2:25 p.m.

Mr. M. N. Langley, Acting
TO: Commissioner

FROM: Assistant Commissioner - Resource Management

DATE: October 16, 1972

SUBJECT: Travel - Communications Conference, Bell System and AT&T, Colorado Springs, Colorado, October 26 and 27 (Previously Approved 10/5/72)

In accordance with current instructions, I am resubmitting for your approval my request for authorization to participate in a conference on communications sponsored by the American Telephone and Telegraph Company and about six Bell System companies.

Other Federal agencies included in the program are the Air Force, Post Office Department, Federal Aviation Administration, and General Services Administration.

If approved, I plan to leave Dulles at 11:45 a.m. on October 25, and would return to Dulles at 2:25 p.m. on October 28.

Approved: 10/20/72

[Signature]

Commissioner
TO: Commissioner

FROM: Assistant Commissioner - Resource Management

DATE: September 28, 1972

SUBJECT: Travel - Communications Conference, Bell System and AT&T, Colorado Springs, Colorado, October 26 and 27

In addition to travel and leave you have previously approved for October, I have been asked to participate in a conference on communications sponsored by the American Telephone and Telegraph Company and about six Bell System companies.

Other Federal agencies included in the program are the Air Force, Post Office Department, Federal Aviation Administration, and General Services Administration.

I know of no conflicts and therefore have indicated tentative acceptance.

Approved: 10/5/72

Commissioner
October 16, 1972

Mr. George M. Douglas  
Mountain Bell  
1020 Fifteenth Street  
Denver, Colorado 80202  

Dear Mr. Douglas:  

As requested in your letter of October 2, 1972, enclosed is a biographical outline for your use in introducing Mr. Stamm.  

Mr. Stamm is presently on leave, but has asked me to confirm his hotel reservation and indicate he is desirous of playing golf, weather permitting. Since confirming the hotel reservation with Mrs. Brown, I now know that he plans to leave Colorado Springs on the afternoon of October 27. His reservation at the Antlers Hotel should be for two nights only (October 25 and 26).  

Mr. Stamm will be driving from Denver to Colorado Springs and plans to arrive around 5:00 p.m. on October 25.  

No special equipment is needed for Mr. Stamm's presentation and he will have his own golf clubs.  

Sincerely,  

Secretary to Mr. Stamm  

Enclosure
October 2, 1972

Mr. G. G. Stamm
Assistant Commissioner-Planning and Irrigation
Department of Interior-Bureau of Reclamation
C Street - 18th and 19th N. W.
Washington, D. C. 20240

Dear Gil:

This confirms our telephone conversation regarding your participation in our Bell System meeting in Colorado Springs, October 25 and 26, at the Antlers Plaza Hotel. Room Rate $17.21 per day.

As indicated, we plan to convene about 6:00 p.m., the evening of October 25. Mr. R. J. Pringle, Vice President-Marketing, Mountain Bell, will be our guest speaker. We are looking forward to hearing your comments regarding the Bell System image commencing Thursday morning, October 26, at 9:00 a.m.

I would appreciate your sending me a brief biographical outline which I can use in introducing you to our group.

As discussed, golfing (weather permitting) seems to be the order of the day Friday morning, October 27, which will permit your returning home in the afternoon.

Please call Mrs. Joyce Brown, 303 636-4478, collect, to confirm your hotel reservations and golfing desires. Also, if any special equipment reservations such as projectors, easels, etc., is required for your presentation, please make Mrs. Brown aware of your needs.

Looking forward to seeing you.

Sincerely,

[Signature]
Memorandum

TO : Commissioner

FROM : Assistant Commissioner - Resource Management

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Approved: 10/20/72

Commissioner