3 January 1972

MEMORANDUM FOR THE RECORD

SUBJECT: Trip Report December 4-8, Los Angeles, California
           and Arlington, Texas

        The following is an overview of the installations
visited during our recent trip to Los Angeles, California
and Arlington, Texas.   All centers with the exception of
the Los Angeles Times supported large scale telecommunications
networks, consisting of numerous remote terminals connected
to the computers at the center by telephone lines.   Data
transmitted from remote terminals is processed by a major
computer and transmitted back to the user for printing.
Alternatively, users could specify that output be printed
at the center and mailed to the remote sites.   The majority
of the work processed at these centers is production type
work, i.e., University Computing in Arlington, Texas
processed 1100 to 1500 remote and batch jobs per day.
Approximately 90% of these jobs are production.

        Batch processing jobs were handled by ASP to optimize
computer operations and provide a significant improvement
in throughput over traditional methods of scheduling computer
resources.

        Every installation stated that they relied heavily on
IBM on matters concerning hardware planning, reconfiguration
and installations.

Hughes Aircraft, Fullerton, California

        Hardware - Consists of two large scale IBM 370/165's
with a combined memory of three and one half million bytes
connected with a channel-to-channel adapter and supported
by ASP.   Additional storage is provided by thirty two IBM
3330 and twenty four IBM 2314 Direct Access Storage Facilities.
The center maintains a library of more than 20,000 tapes
and supports them with forty two IBM 3410 tape units.

Software - The Model 165's are operating under OS 360/MVT, supported by the following on line systems:

ASP - Attached Support Processor. The ASP Control Program schedules processing.

ATS - Administrative Terminal System provides capabilities for entering, storing and revising textual data.

IMS - Information Management System provides facilities to construct large data bases.

TSO - Time Sharing Option provides terminal users with an interactive computing capability.

Los Angeles Times, Los Angeles, California

The Los Angeles Times Data Processing Department was unique from the other centers we visited in that it had a documentation library and staff with documentation covering areas from hardware/software configuration to normal and backup operational environments. The documentation was detailed to outlines of partition usage, 2914 switch settings, DASD, tape drive and assignment changes if a CPU or TCU should fail during periods of publishing system production. Backup situations were documented for any hardware device considered down. Personnel at the Times indicated that the detailed documentation existed because a major portion of the paper depended entirely on the computers for publishing.

Hardware/Software - Three IBM 360 Model 40's running independently. The systems peripherals are all interconnected through 2914 switching units. DOS Release 25 is the Operating System used. There are three versions of DOS for normal operations.

A. Batch Production
B. On-Line Production for typesetting
C. On-Line Production for classified

Other versions of DOS and the on-line programs are maintained for testing and backup situations. IBM 1401 programs are run using the 1401 emulator. Conversion of jobs to the 1401 simulator will eventually phase out emulation.

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North American Rockwell, Downey, California

North American Rockwell's Western Computing Center provides centralized computing facilities for the North American Division computing facilities for the North American Division in the Los Angeles area. This center is hardware configured, organized and operated in a manner similar to ours. The center supports large scale computers, an IBM 370/155 (2 million bytes) and two IBM 370/165's (3 million bytes each). Direct Access Storage facilities include IBM 3330, 2314 and 2305's. The tape library contains more than forty thousand tape volumes and supports them with 80 IBM 3420 Tape Drives. Most tapes and disk systems are accessible to more than one computer system through the 2914 switch.

The Model 155 currently operates with OS/MVT Release 20.7. It also supports TSO (Time Sharing Option) and APL (A Programming Language) as on line systems. The channel-to-channel adapter allows the 155 to be tied to ASP as a Main Processor.

The Model 165's are currently operating under Release 2011 of OS/360-MVT with ASP as the control program to schedule batch processing. The following are other on-line systems:

IMS - Information Management System provides facilities to construct large data bases and interface the data in an efficient teleprocessing environment.

ATS - Administrative Terminal System provides capabilities for entering, storage, and revising textural data, and for production of final publications.

COSPAC - Cost/Schedule Planning and Control System developed and used by Rocketdyne Division.

University Computing Corporation, Arlington, Texas

Hardware - Includes two IBM Model 370/165's with two million bytes of memory each, connected by a channel-to-channel adapter and supported by ASP. Both systems have

identical configurations and all peripherals are cabled through the 2914 switch, thereby, providing complete switching capability.

UCC was the only organization visited that had a Hardware Planning Group (equivalent to our Hardware Services Section) in their organization. The overall goal of this organization is to perform services related to investigation, evaluation, installation and assistance in all hardware matters.

UCC also indicated they were about to implement a Trouble Call System (very similar to our Incident Card) directed toward insuring prompt and adequate response to data processing hardware and telecommunication calls. The system would also, provide current information on the operational status of all equipment. The information will include a listing of equipment trouble, down time, vendor response and time spent in service. The system would be a function of the Hardware Planning Group.

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Chief
Hardware Services Section

P R I O R I T Y

26 April 1974

MEMORANDUM FOR: ALL OJCS EMPLOYEES

SUBJECT   :   WATERGATE - AGENCY FILE REVIEW

The Agency is in the process of a file review to identify
previously unreported Agency activities associated with Watergate
and the subjects listed below. The review not only covers files,
but also informal records and conversations. The purpose of the
review is to the extent possible to ensure that Agency management
is aware of all such material in our files and that there will be
no future "surprises" in this regard. OJCS Division and Branch
Chiefs have been contacted directly re this review and are generally
aware of what has been reported previously. Each employee is
requested to jog his/her memory re these subjects. If you are
aware of any such Agency activities please ascertain from your
Division or Branch Chief whether or not they were previously re-
ported. If it appears they were not previously reported, please
contact ██████████ of the OJCS Administrative Staff immediately.
We hope to wrap up the OJCS review by COB 30 April 1974.

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a. Daniel Ellsberg

b. Hank Greenspun

c. Howard Hunt

d. National Elections of 1972

e. ITT

f. Robert L. Mullen and Company

g. Howard Hughes or Any of His Enterprises

h. Robert Vesco or Any of His Enterprises

i. Robert Maheu

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Chief
OJCS Administrative Staff

OJCS-593-74
2 MAY 1974

MEMORANDUM FOR: Chief, Information Systems Analysis Staff,
                  Deputy Director for Management and Services

FROM   : Office of Joint Computer Support

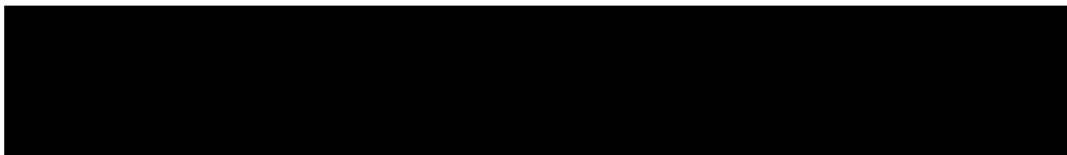SUBJECT   : Watergate - Agency File Review

REFERENCE   : Inspector General Memorandum, same subject,
                   dated 26 March 1974

1. The Office of Joint Computer Support has completed
a file review to identify previously unreported Watergate-
related material. The review was conducted in accordance with
reference guidelines and surfaced the following previously
unreported information:

a. Trip to Hughes Aircraft: In December 1971 members
of the OJCS Computer Center toured several large commercial
computer centers utilizing IBM equipment including Hughes Aircraft
in Fullerton, California. Attached is a report covering that
trip. This was a one time contact with Hughes Aircraft; it does
not appear to have flap potential.

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2. In our file review, we excluded systems programming,
computer operations, EDP training, general administrative and
hardware/software files as it is highly unlikely they contain
Watergate-related materials. OJCS contract files and project
files were screened for Watergate-related material and surfaced
the information in paragraph 1b above. Recently we made a
physical inventory of our Vital Records holdings; they contain

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no Watergate-related material. As part of our file review
we screened records retirement deposit slips; they indicate
no related material. In addition to the file review, a memo-
randum was forwarded (copy attached) to all OJCS employees
asking them to jog their memories re Watergate-related information;
nothing was reported.

HARRY E. FITZWATER
Director of Joint Computer Support

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ATTACHMENTS: a/s