

27 November 1973

MEMORANDUM FOR THE RECORD

SUBJECT: Oracle Contract Schedule, Outline of Major Site Preparation Tasks and Comments

1. The contract with [redacted] for the development, manufacturing and delivery of the [redacted] system otherwise known as Oracle, to OJCS includes the following milestone dates, quantities and kinds of equipment as stated by [redacted]

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A. In February 1974 [redacted] Tape Transport Modules, now being developed and built, will be tested in [redacted] without a host computer, to determine if they can deliver usable data to 3830/3330 disks. If the results of this test are negative the contract will be cancelled.

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B. If the above test is successful, work will continue until October 1974 when [redacted] will make a second test which will consist of a complete complement of Oracle equipment including a host computer to determine if a complete system operates satisfactorily. If results are negative contract may be cancelled. If test is successful, equipments will be readied for shipment to Headquarters.

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C. The initial complement of equipment is scheduled to be shipped to Headquarters in November 1974 and will include:

- Four PDP11s
- Two Tape Transport Modules
- Two Data Channels
- Two Transport Drivers
- Two TTYS
- One Line Printer
- One or two air compressors (only one if Hqs. in-house air is adequate)
- Two vacuum pumps

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D. By April 1975 the following additional equipment will be delivered:

Eight Tape Transport Modules
Two Transport Drivers

2. Ten additional tape transport modules for delivery to Headquarters at some future date later than April 75 have been discussed but there is nothing firm on these at this time.

3. In order to be ready to install the Oracle equipments when they arrive at Headquarters an outline of site preparation tasks, etc., which will require being accomplished are as follows:

A. Select area in which Oracle is to be located and prepare layout making certain that cable length limitations can be met. Critical point here is the interface cable length of the Oracle EDCPs with the CDC 38301s - [] says the cumulative total is 150', but CDC says 125' is the limit to the last 38301.

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B. Raise floor in Oracle area to 18"?

C. Air conditioning - must be sufficient to handle initially 73,600 BTU, and in April 75 - 131,600 BTUs. Also, distribution must be under floor, not overhead which is case at point.

D. AC power distribution panel to be installed in Oracle area plus all lines, outlets and AC filter. Panel to have 400 A/phase service rating and should have at least 28 positions equipped with the following breakers:

1. 5-3 pole 100 AMP (provides 1 extra)
2. 4-1 pole 50 AMP (provides 2 extra)
3. 9-1 pole 20 AMP (provides 3 extra)

E. Specs [] on air compressors.

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F. Air distribution lines and filters from "B" vault to Oracle area.

- G. Air compressor bases in "B" vault.
- H. Power and starters for air compressors in "B" vault.
- I. Air intakes and exhausts for air compressors in "B" vault.
- J. Installation of air compressors in "B" vault.
- K. Specs on vacuum pumps. STAT
- L. Vacuum lines from "B" vault to Oracle area.
- M. Vacuum pump bases in "B" vault.
- N. Power and starters in "B" vault for vacuum pumps.
- O. Air intakes and exhausts for vacuum pumps in "B" vault.
- P. Installation of vacuum pumps.
- Q. Air conditioning requirements for "B" vault.
- R. Installation of ducts and/or air handlers to provide sufficient conditioned air to "B" vault.
- S. Test air and vacuum systems.
- T. Cut floor panels.
- U. Lay cables in Oracle area and provide grates to raise connectors.
- V. Install Oracle equipment - connect cables add power.
- W. Check out system.
- X. Etc.

4. On 21 August 73 there was a meeting of HEB, and OJCS personnel re-site preparation. (There are 3 memos which report this meeting in the Oracle File). STAT

At this meeting it was agreed that [] would procure the necessary air and vacuum equipment and send it to Headquarters along with the initial complement of Oracle equipment in November 74. It was also agreed that [] would provide to HEB detailed drawings showing what HEB will have to supply and DO in order to install air and vacuum equipments. Alos, since the sizing of the vacuum equipment is important depending upon whether there will be 10 or 20 tape transports [] is supposed to supply HEB with three vacuum system designs which [] can compare in order to make a decision on which system we should install. (This last point will have to be completed before [] can procure the vacuum equipment). The 3 vacuum system designs are to be:

A. A direct drive AC motor system for an 11 (really 10) transport system.

B. A direct drive AC motor system for a 20 transport system.

C. A direct drive D.C. motor system to be variable for an 11 transport (really 10) system up to a 20 transport system.

5. As you can see there is much to be done by November 1974. A very large amount of detailed information is needed from [] before we and HEB can really get started in preparing the detailed site preparation plans which will be needed before any actual construction effort can begin. Two key areas in which answers are needed very soon, if not right now, are:

A. The real dope on how we cable Oracle to all the computer systems, I mean the nitty-gritty, like what are these cables, where do they connect, what is the total cumulative length limit, is there an EPO requirement, etc. This information is needed in order to select a location for Oracle in Headquarters.

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B. The very, very detailed drawings and information HEB will need on the compressed air and vacuum equipments. HEB needs the information on the 3 vacuum systems mentioned in 4 above in order to make a decision on which one Apex must procure. Total detailed information on air and vacuum equipments is needed by HEB to design a layout and installation plan for the machinery in "B" vault.

Hardware Services Branch

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cc: C/OPS

ROUTING AND RECORD SHEET

SUBJECT: (Optional)

FROM:

**Chief, Real Estate and
Construction Division, OL**

EXTENSION

NO.

DATE

4 December 1973

TO: (Officer designation, room number, and building)

DATE

OFFICER'S
INITIALS

COMMENTS (Number each comment to show from whom to whom. Draw a line across column after each comment.)

	TO:	DATE		OFFICER'S INITIALS
		RECEIVED	FORWARDED	
1.	Chief, Physical Security Divisn, OS 526 C of C Bldg.			
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Attached is re tape drive system to go in OJCS. You may recall our discussion during the computer centralization meeting. At any rate, attached is for information only because, as noted in the memorandum itself, no specific action can be taken until the manufacturer submits firm specifications. We will be in touch formally as soon as we can give you definitive criteria for physical and safety input.

Attachment

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