

The Lange Group

Software Systems Analysis & Telecommunications Consulting

December 23, 1999

Carl Watanabe, Deputy Registrar
Bureau of Conveyances
Department of Land and Natural Resources
1151 Punchbowl Street, Room 122
Honolulu, HI 96813

Re: ICS-FY-99-52 Task 12 Additional Hardware Requirements

Dear Mr. Watanabe,

In reference to the above captioned matter, and to follow up after our discussions of December 22, 1999 regarding the additional hardware required for Task 12 – Microfilm Conversion, please find attached the following:

1. Revised Attachment H Task 3 and Task 4 three (3) pages – reflecting additional hardware needed for Task 12
2. Two revised IBM Configuration – the first configuration shows the two (2) node (primary and redundant node), and the second configuration shows the rest of the items including the increased disk (DASD) and upgraded 3995-C68 fully loaded optical juke box. Both configurations show List Price and do not reflect the BOC discount. It is intended to itemize the hardware parts needed for your review only.

The first IBM Configuration, second page under "Hardware Mes/Upgrades" includes both the primary and secondary nodes and must be divided in half to get the Primary and optional Redundant node list prices for both the hardware and maintenance.

The second IBM Configuration, shows a fully loaded Optical Library, along with the added Disk Subsystem rack which includes thirty-two (32) 36.4GB drives to contain the 5 year backfile mirrored on-line disk, for an additional 1.1648 TB. The other 7133-D40 SSA Disk Subsystem is from our original configuration with sixteen (16) 9.1GB drives. This fills up three of the four drawers available in the system disk rack (16 drives per drawer). The Optical Library was upgraded from a model C66 to a C68, and fully loaded with five (5) 52 drive packs (5.2GB per drive), for a total of 1.352TB.

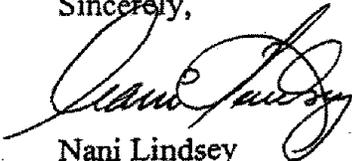
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We envision these items to be installed during Task 3 and Task 4. The estimated hardware cost if purchased directly from IBM, including the 4.166% general excise tax is shown in the Revised Attachment H. The net increase in hardware cost expended during Task 3 is ~~\$132,305.37~~ and 136,052.24 the net increase in hardware cost expended during Task 4 is \$33,986.18. This represents an total hardware cost of \$166,291.55 allocated to Task 12.

I hope the above provides the needed information to plan for Task 12. Please do not hesitate to call me should there be any other questions at 545-1822.

Sincerely,



Nani Lindsey
Manager

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