

(2) *Training*.—The vendor must provide training for programmers and operators as specified in paragraph 2-2b, chapter 2, attachment II.

(3) *Maintenance*.—Two hour oncall maintenance service will be required 16 hours per day, 5 days per week.

(4) Vendor will provide a means to use or must convert about 300 IBM RPG 360 programs. This requirement is separate from paragraph (1) above.

e. *Software requirements*: Software requirements are:

(1) *Availability*.—All mandatory software must be furnished at time of installation.

(2) *Executive control system*.—The executive control system must take full advantage of the features of the computer hardware.

(a) The system, together with the software, must include debugging, diagnostic trace, and dump routines.

(b) The system must control and coordinate all connected hardware and associated software.

(c) The system must provide for a continuous flow of externally scheduled batch processing jobs so that operator intervention and setup time are reduced to a minimum.

(d) The system, together with the associated software, must provide the capability for creating and maintaining source and object program libraries. Library access will be under executive control for object programs utilizing the object library routines during execution.

(3) *COBOL compilers*:

(a) A COBOL compiler must be delivered with the installed system.

(b) *USASI standard COBOL compiler*.—Within 18 months after the date of approval by the USASI of a standard for COBOL, the vendor must provide a COBOL compiler which meets the approved USASI standard level 2 and which will run on the proposed system.

|                         | Level |
|-------------------------|-------|
| Nucleus -----           | 2     |
| Table handling -----    | 2     |
| Sequential access ----- | 2     |
| Random access -----     | 1     |
| Segmentation -----      | 1     |
| Library -----           | 1     |

(4) *Symbols*.—A symbolic language compiler capable of operating with the system.

(5) *Report generator*.—A program to generate reports which will produce specific object programs that are usable on a continuous basis and accessible from the object program library system.

(6) *Utility routines*.—General utility programs to perform the following:

(a) IAS data to magnetic tape and vice versa.

(b) Punched card data to IAS and vice versa.

(c) Magnetic tape to printer.

(d) IAS data to printer.

(e) IAS data to magnetic tape and vice versa.

(f) Magnetic tape copy.

(g) Magnetic tape sort/merge program.

(h) Any other software normally provided with the system.

5-3 *Desirable features*.—The following desirable items should be proposed by the vendor available. These items will be considered in the evaluation process.

a. *Utilization log*.—An automatic executive control system feature which stores and supplies a comprehensive computer system utilization summary from data gathered automatically during normal processing.

b. *Delivery*.—It is desirable that the system be delivered and installed within 30 days after the date of contract award.

c. *Handling test score papers*.—It is desirable to have a device capable of reading test marks on a scoring sheet and transcribing the data to magnetic tapes. (See exhibit 2 for a sample sheet.) A different answer sheet form can be included in the proposal by the vendor, if it allows the same number of answers and same type of documentary information.