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Evaluation of Proposals for an Electronic Data Processing System for the City of Wayne, Nebraska

David R. DiMartino
University of Nebraska at Omaha

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EVALUATION OF PROPOSALS
FOR AN
ELECTRONIC DATA PROCESSING SYSTEM
FOR THE
CITY OF WAYNE, NEBRASKA



Center for Applied Urban Research
University of Nebraska at Omaha



May, 1984

INTRODUCTION

This report is an analysis of the proposals submitted to the City of Wayne, Nebraska for an in-house electronic data processing system to automate city office operations. Each proposal is analyzed separately and placed in alphabetical order. A summary of costs and recommendations is on the last page of the report.

The analysis of each proposal is structured in the same way. Each narrative identifies the bidder and discusses (in order) the hardware, the software, the hardware and software support, and the training proposed. Next is a summary of whether the RFP requirements were met and a cost summary. The purchase price includes both Phase I and Phase II software. The purchase price quoted includes only hardware and software costs. The "other costs," equally necessary for systems operation, are included in the first-year cost. A \$1,500 cost estimate was used in all cases for supplies. Costs of facility preparation were not included in the estimates but should average \$1,500. Finally, a brief recommendation is made concerning the status of each proposal.

Anacomp, Inc.

Anacomp submitted a letter to the City of Wayne after contacting Wayne's consultants. The service bureau realized that the cost of their system was "substantially" greater than the city was likely to spend on an automated system. However, the letter was submitted in order to meet the RFP deadline for consideration in the event the city did "not receive any suitable proposals from other vendors."

Recommendation:

Because of its incompleteness and due to its relatively high cost, this proposal should not be selected for further consideration.

Automated Systems, Inc.

Automated Systems is a software house and OEM (original equipment manufacturer) employing 40 people located in Lincoln, NE with a second office in Sioux Falls, SD. This vendor offers only one governmental reference--Platte County, NE; other references include four banks, a credit union, two universities, two hospitals, and a private company.

Hardware proposed is a Plessey 6742 16-bit minicomputer with 512KB main memory, 84MB disk storage, tape backup (1600 bpi), five work stations, one 300 lpm printer, and two 120 cps printers. The Plessey 6742 main memory is expandable to 4MB.

Proposed software includes payroll, utility services, police records, spreadsheet (data base manager), word processing, and inventory and equipment. Personnel, the budgetary portion of financial management, and special assessments packages are yet to be developed.

Hardware and software support are available for a fee. Hardware support is available on-site, with quarterly maintenance, and backup systems are available at Columbus, Omaha, and Lincoln, NE. Software maintenance is provided from Lincoln with one- to four-hour response time; software is warranted for the first year after purchase and costs 10 percent per year thereafter.

Training is offered on-site for two persons at no additional charge.

RFP Specifications:

<u>Hardware</u>	- All met
<u>Software</u>	
<u>Phase I:</u>	
Financial Management	- Partial (budgetary to be developed)
Payroll	- Yes
Personnel	- To be developed
Utility Services	- Yes
Police Records	- Yes
Spreadsheet (Data Management)	- Yes
Other: Special Assessments	- To be developed
<u>Phase II</u>	
Word Processing	- Yes
Inventory and Equipment	- Yes

Cost Summary:

Purchase Price:		
Hardware		\$ 52,735.00
Software		28,200.00
Total		<u>\$ 80,935.00</u>
Other Costs:		
Transportation	\$ 950	
Supplies	1,500	
Training	N/C	
Maintenance:		
Hardware	6,828.00/yr.	
Software	2,820.48/yr.	
First-year cost		\$ 87,963.00
Five-year cost		\$126,556.92
Average annual cost		\$ 25,311.38

Recommendation:

This proposal should be selected for further consideration.

Burroughs Corporation

The Burroughs Corporation is one of the largest suppliers of data processing systems to local governments in Nebraska and the plains states. This proposal originated from the Burroughs office in Sioux City, IA. References are provided for nine cities and seven counties.

Hardware proposed is a Burroughs B96-41 minicomputer with 512K of main memory, 77.4MB of fixed disk storage, tape backup (1600 bpi, 9 channel), five work stations, and three printers (one 375/500 lpm, one 90 cps, and one 55 cps). According to the vendor, the system with five terminals is configured at capacity; the system can be expanded to nine work stations by adding another 512K of memory for about \$3,000 additional. A separate stand-alone system with letter quality printer is specified for word processing.

Proposed software includes budgetary accounting, fixed assets, a report writer (Reporter), payroll, personnel, utility services, and spreadsheet (Calcuplan). To be developed are the accounts receivable, inventory and equipment, and police packages. Most importantly, module integration (tying billing to general ledger packages) must be developed and will cost \$6,000 to accomplish.

Hardware and software support are available for a fee. Hardware support is offered during regular business hours out of Sioux City, IA, and backup systems are located in Plainview, Yankton, Omaha, and Lincoln. Maintenance for terminals is specified as depot service; on-site service would be twice that cost. Software support is available from Omaha via an 800

telephone number and a 90-day warranty applies. Software support is not available for the police package except on an hourly basis as needed, after an initial 90-day warranty. Furthermore, one-time installation charges will be made for most software (included in the training figures). Prices and charges quoted in the proposal are not consistent between the figures and text nor with any follow-up information.

On-site training is recommended for all applications, although training for some applications is available in Minneapolis. Training for most packages is available for two people at quoted prices over a period of 23 days.

RFP Specifications:

<u>Hardware</u>	- All met
<u>Software:</u>	
<u>Phase I:</u>	
Financial Management	- Partial (accounts receivable to be developed)
Payroll	- Yes
Personnel	- Yes
Utility Services	- Yes
Police Records	- To be developed
Spreadsheet (Calcuplan)	- Yes
Other: Reported	- Yes
(Module integration yet to be developed)	
<u>Phase 2:</u>	
Word Processing (separate)	- Yes
Inventory and Equipment	- To be developed

Cost Summary:

Purchase Price ¹ :	
Hardware (with operating system) ²	\$ 43,113.00
Software	20,175.00
Word processing (hardware and software) ³	5,798.00
Total	<u>\$ 69,086.00</u>

¹Costs after 10% government discount allowed.

²Allowing for trade in of L-9000 machine at \$2,119.00

³Cost of word processing hardware and software ranged from \$5,798 to \$6,518; \$5,798 is used here.

Other Costs:		
Transportation	\$	740.00
Supplies		1,500.00
Training (with installation)		10,350.00
Program Modifications		6,000.00
Maintenance:		
Hardware (with operating system)		5,030.88/yr.
Software		1,230.96/yr.
First-year cost	\$	93,937.84
Five-year cost		118,985.20
Average Annual Cost	\$	23,797.04

Recommendations:

This proposal should not be selected for further consideration, due to the system limitations noted above, most notably the inability to expand beyond five work stations without added cost.

Computoservice, Inc.

Computoservice is a service bureau and OEM located in Mankato, MN with an office in Omaha. In operation since 1964, Computoservice employs 20 programmers and 10 field support personnel. References were provided in 17 cities, one of them the City of Wahoo, NE.

Hardware proposed is a Texas Instruments Business System Model 372 with 512K of main memory, 75.5MB of disk storage, cartridge tape backup, five work stations, and three printers (one Model 810 and two Model 850's, each with 150 cps). According to the vendor, the system is expandable to seven work stations and seven printers.

All specified software is proposed. The word processing package is configured to operate on separately proposed hardware. The police system (Enfors by Masys Corp.) is provided by a third party and must be modified by the developer of the package. Police package modifications to meet Nebraska standards are charged at an hourly rate; modification, engineering, and travel costs are estimated to total \$8,700. Documentation is purchased separately.

Hardware and software support are available. Hardware support is available for a monthly charge (and at a reduced rate if paid annually) after an initial 90 day warranty. Support is out of Omaha with a four hour average and nine hour maximum response time. A 24-hour backup system is available in Mankato. Software is warranted for one year, and maintenance costs are charged at a rate of 10 percent of purchase price thereafter. A one-time installation fee is charged.

Training is provided to one person per package in Mankato, MN. A total of 20 training days is recommended, but the 20 days are divided among various program users. Therefore, several city employees may have to travel to Minnesota for training.

An alternative proposal is offered. The alternative costs are greater, so the alternate is not reported on here.

RFP Specifications:

Hardware - All met

Software:

Phase I:

Financial Management	- Yes
Payroll	- Yes
Personnel	- Yes
Utility Services	- Yes
Police Records (Enfors)	- Yes
Spreadsheet	- Yes

Phase II:

Word Processing (separate)	- Yes
Inventory and Equipment	- Yes

Cost Summary:

Purchase Price:

Hardware (with Operating System)	\$ 40,890
Software ¹	36,500
Word Processing Hardware (\$2,715) and Software (\$2,395)	<u>5,110</u>
Total	\$ 82,500

Other Costs:

Transportation	\$ 550
Supplies	1,500
Training (travel not included)	4,000
Installation	1,040
Police Package Modification & Eng.	8,700
Documentation	480

Other Costs: (Continued)

Maintenance:		
Hardware	4,075	
Software (without word processing) ²	2,350	
Police package	1,620	
First-year cost		\$104,465
Five-year cost		\$136,645
Average annual cost		\$ 27,329

¹Modification at \$40/hour is additional.

²One year warranty included

Recommendation:

This proposal should be selected for further consideration. However, the police package is provided by a third party, and training is costed at only one person per package.

Data Management Design, Inc.

Data Management Design is a six-year-old software vendor and OEM. References are provided for 16 local government entities including nine towns, villages, and cities.

Hardware proposed is a Wang 2200 minicomputer system with 256K of main memory, 80.4MB of disk storage, removable hard disk backup, five work stations, and three printers (one 250 lpm, one 180 lpm, and one 80 lpm). Main memory is expandable to only 512K. The vendor states that the system can be expanded to eight terminals before hardware expansion is required and is ultimately expandable to 13 terminals.

All required software is proposed. Additional expenses other than those quoted may be required for software modification and for travel costs associated with police package modification.

Hardware and software support are proposed for a fee. Hardware maintenance will be provided by Wang out of Omaha, NE during regular business hours, with a four-hour response time. A 90-day warranty applies to all hardware. Software support is by modem to DMD in Virginia during regular business hours. A 30-day warranty covers all software.

On-site training is included with the cost of the system, except for trainer's travel and lodging expenses. Eighteen days of training for up to four people are provided.

RFP Specifications:

Hardware - All met

SoftwarePhase I:

Financial Management - Yes

Payroll - Yes

Personnel - Yes

Utility Services - Yes

Police Records (Police
Records Processing
System) - YesSpreadsheet (Enhanced
2200) - YesPhase II:

Word Processing - Yes

Inventory and Equip-
ment - YesCost Summary:Purchase Price:

Hardware \$ 53,637

Software 48,500

Total \$102,137

Other Costs:

Transportation \$ 268.19

Supplies 1,500.00

Training N/C, except travel

Maintenance:

Hardware 7,968/yr.

Software 380/yr.

First-year cost \$112,253.19

Five-year cost \$145,645.19

Average annual cost \$ 29,129.04

Recommendation:

Due to the relatively high cost, this proposal should be selected for secondary consideration.

Facts Data Services

FDS is a software house located in Des Moines, IA. The proposal submitted by FDS included only software (with training and support) written to operate on an NCR system. No hardware was proposed. Meanwhile, NCR submitted its own proposal to the city.

Recommendation:

This proposal should be rejected for failure to meet the requirements of the RFP in specifying a total system (software and hardware).

HMS, Inc.

HMS, Inc. is a software house and OEM located in Marietta, GA. HMS serves 40 local governments and provided references for four cities and a water authority.

Hardware proposed is the Data General Eclipse C-30 16-bit microcomputer with 1.024MB of main memory, 50MB of disk storage, tape backup (1600 bpi), five work stations, and three printers (one 340 cps, one 160 cps, and one 150 cps). The system is expandable, according to the vendor, to a maximum of eight terminals without additional system expansion costs.

Proposed software includes financial management (general ledger, accounts payable, and purchasing), payroll, personnel, utility services, and police records (Posse Plus). Phase II programming (word processing and inventory and equipment management) is listed as an alternative, together with a data base management/report writing program.

Hardware and software maintenance are available for a fee. Hardware support is through the Data General Corporation. The warranty covers parts only for 60 days, and the vendor recommends a maintenance agreement. Support is during regular business hours with a four-hour maximum response time, and preventive maintenance is included. Software support costs 10 percent of the purchase price, and remote diagnosis via modem is available from Marietta for an additional \$200 per month. According to vendor sources, modification of software would cost \$400 per day over approximately five days; travel expenses would be added.

Training is offered in two ways: 20 days for one person in Atlanta or 20 days for four people on-site. On-site training includes five days of software customizing and is much more expensive. The training price quoted does not include Phase II programming.

RFP Specifications:

Hardware - All met

Software:

Phase I:

Financial Management - Yes
 Payroll - Yes
 Personnel - Yes
 Utility Services - Yes
 Police Records - Yes
 Spreadsheet
 (Compucalc) - Yes

Phase II:

Word Processing (two options) - Yes
 Inventory and Equipment - Yes

Cost Summary:

Purchase Price:

Hardware (with operating system)	\$ 55,739
Software	<u>26,250</u>
Total	\$ 81,980

Other Costs:

Transportation	\$ 500
Supplies	1,500
Training (on site)	12,000
Program Modifications	2,000 (400/day x Est. 5 day)
Maintenance:	+ travel
Hardware	6,599/yr.
(with discount)	
Software (with remote)	5,025/yr.

First-year cost	\$109,604
Five-year cost	\$156,100
Average annual cost	\$ 31,220

Recommendation:

Due to the relatively high cost, this proposal should be selected for secondary consideration.

Information Solutions, Inc.

Information Solutions, a subsidiary of Information Plus, Inc., is a software house and OEM founded in 1979. Its home office is in Denver, CO. This proposal was submitted from its North Kansas City, MO branch office. References were provided for 17 government organizations, including nine cities, all in Missouri.

Hardware proposed is an NCR ADDS Mentor M4062 16-bit mini-computer with 256K of main memory, 60MB of fixed disk storage, cartridge tape backup (1600 bpi), five work stations, modem, and three printers (one 300 lpm, one 80 cps, and one 33 cps). The maximum main memory capacity of this system is expandable to 1MB. The system is also expandable to eight terminals; with additional hardware (at \$2,500 cost), the system is expandable to 16 terminals.

All required software is proposed. However, the proposed police records system (PMIS) is now operating on Prime hardware and must be rewritten to run on the proposed hardware.

Hardware and software support are available for a fee. Hardware support proposed is by NCR, probably from Omaha. However, some hardware (monitors, two printers, and modem) is specified as depot maintenance. Hardware maintenance is during regular business hours, initially using a telecommunications hookup via an 800 printer. Modem response time is 18-20 minutes, and on-site service is within four hours. Preventive maintenance is included, but the backup site is yet to be specified. Software support is provided by BG EDP Services, the company that

wrote the original software. Software maintenance is via modem for 10 percent of the purchase price.

On-site training is suggested over 40 days for all software. The cost indicated, with Phase II software, is \$15,000, but travel and subsistence for the trainer(s) are additional.

RFP Specifications:

Hardware - All met

Software:

Phase I:

Financial Management - Yes
 Payroll - Yes
 Personnel - Yes
 Utility Services - Yes
 Police Records
 (Police Management
 Information Systems) - Yes

Phase II:

Word Processing
 (Office Automation) - Yes
 Inventory and Equip-
 ment (EMAC) - Yes

Cost Summary:

Purchase Price:		
Hardware		\$ 54,350
Software		<u>48,000</u>
Total		\$102,350
Other costs:		
Transportation	\$ 600	
Supplies	1,500	
Installation	1,300	
Training	15,000 + travel	
Maintenance:		
Hardware	5,844/yr.	
Software	4,800/yr.	
First-year cost		\$128,194
Five-year cost		170,770
Average annual cost		34,154

Recommendation:

Due to its relatively high cost, this proposal should not be selected for further consideration.

Manatron, Inc.

Manatron is a hardware distributor for Burroughs and IBM Systems. Burroughs B-series hardware is proposed, and Phase I software is specified.

This proposal cannot be evaluated because the proposal has not met the RFP requirements. Detail is severely lacking, and costs are contradictory from place to place in the proposal. The vendor was contacted, but the proposal is not complete.

Recommendation:

This proposal is not recommended for further consideration.

Morse Data Processing, Inc.

MDP is a small software house and OEM located in Hastings, NE. References provided include eight cities, all in Iowa. MDP also has systems in several Nebraska counties and in Nebraska City, NE.

Hardware proposed is a Burroughs B22 for city offices and a B21-6 for the police. The Burroughs B-22 is a 16-bit microcomputer with 640K of main memory, three 128KB add-on memory units, 40MB of hard disk storage, 1600 bpi streamer tape backup, four work stations, one 300 lpm line printer, and one 120 cps receipt printer. The separate police system is a 384K, 10MB system with one terminal and one 120 cps printer, which can be linked to the main system. The system is described as expandable to 16 terminals but can only configure to seven work stations without system degeneration and the need for system enhancement.

Proposed software includes financial management (general ledger, budgetary accounting, fixed assets, and data manager), payroll, utility services, spreadsheet, word processing, and inventory and equipment (purchasing and inventory). Personnel, vehicle cost, and police record programming (Guardian) are yet to be developed. Of those packages currently available, some have been developed by Burroughs and others by R & D Systems. Descriptions of the software were not provided (as required by the RFP).

Hardware and software support are available for a fee. On-site hardware support is available from Lincoln with a two-day response time. Software maintenance is provided out of Omaha via

telephone with same day response. The software to be developed by Morse would not have maintenance available.

Training is offered on-site at no additional charge. Two persons would be trained on systems operation, and one person would be trained per software application.

RFP Specifications:

Hardware - All met

Software:

Phase I:

Financial Management	- Yes
Payroll	- Yes
Personnel	- To be developed
Utility Services	- Yes
Police Records	- To be developed
Spreadsheet (Multiplan)	- Yes
Other: Data Manager	- Yes

Phase II:

Word Processing	- Yes
Inventory and Equipment (Vehicle Cost)	- To be developed

Cost Summary:

Purchase Price:		
Hardware		\$ 58,455.00
Software		27,150.00
		<hr/>
Total		\$ 85,605.00
Other costs:		
Transportation	1,413	
Supplies	1,500	
Training	(included)	
Maintenance:		
Hardware	\$ 7,372.08/yr.	
Software	1,044.00/yr.	
First-year cost		\$ 94,021.08
Five-year cost		127,685.40
Average annual cost		\$ 25,537.08

Recommendation:

This proposal should be selected for further consideration. However, several software packages need to be developed, third party software is included, and software is not described in the proposal.

NCR Corporation

NCR is a major supplier of computer systems to local governments in Nebraska and the plains states. The Lincoln office of NCR submitted this proposal. References are provided for six Nebraska cities.

Hardware proposed is an NCR I-Tower 32-bit, multi-user micro-computer system with 512KB of main memory, 84MB of disk storage, tape backup (1600 bpi), five work stations, and three printers (one 125 lpm and 60 cps, one 63 lpm, and one 300 lpm). The system is expandable to 16 terminals and/or printers with added memory. However, only one additional terminal can be added without memory enhancement.

All software is proposed. The original software proposal included NCR's IFMS (Interactive Financial Management System) which includes general ledger, payroll, and budgetary, expenditures, and revenue accounting. Also proposed are NCR's payroll, utility billing, and Crimes Police software. The original proposal does not specify spreadsheet or personnel software, and Phase II software (word processing and inventory and equipment) was not specified. Follow-up with the vendor resulted in all software being specified.

Hardware and software support are available for a fee. Hardware support will be provided by NCR via telecommunications from Scripps Ranch, CA, and on-site service, if necessary, will be out of Schuyler, NE with a four-hour response time. Software maintenance is also available via telecommunications with one-hour response time and backup sites in Lincoln and Omaha.

Training for the IFMS software is available for a fee (for three persons for three days in Lincoln), for utility billing (for three persons for 50 hours on-site), and for the Crimes Police package (for one person for four days in Dayton, OH).

RFP Specifications:

Hardware - All met

Software:

Phase I:

Financial Management	- Yes
Payroll/Personnel	- Yes
Utility Services	- Yes
Police Records (Crimes)	- Yes
Spreadsheet (EEK)	- Yes

Phase II:

Word Processing (WordStar)	- Yes
Inventory and Equipment (Beatrice)	- Yes

Cost Summary:

Purchase price:	
Hardware	\$ 48,349.00
Software	<u>18,387.00</u>
Total	\$ 66,736.00

Other Costs:

Transportation	\$ 780
Supplies	1,500
Training	1,200
Facility preparation	560
Installation	7,168
Maintenance:	
Hardware(with operating system)	5,844/yr.
Software	276/yr

First-year cost	\$ 85,626.70
Five-year cost	\$116,357.50
Average annual cost	\$ 23,271.50

Recommendation:

This proposal should be selected for further consideration. However, system expansion is limited.

Northwest Systems, Ltd. (American Fundware)

Northwest Systems is a software house located in Steamboat Springs, CO. Begun in 1971 as a service bureau, Northwest currently employs ten persons. References provided include city, county, college, and corporate installations.

Hardware proposed is a Data General (DGC/PC30) multi-user microcomputer system. The PC30 is a 16-bit system with 512K of main memory, a single diskette, 30MB of hard disk storage, tape backup ($\frac{1}{4}$ inch streamer), four work stations, one 150 cps receipt printer, and two 160 cps matrix printers. The system will accommodate a maximum of five work stations but can accommodate hookup of one or more IBM/PC microcomputers (via an asynchronous serial port). A separate IBM P/C is specified for police operations. The IBM P/C includes 128K of main memory, 20MB Tallgrass hard disk, work station, and Epson FX-100 printer.

Proposed software includes financial management (general ledger, purchase order/encumbrance, accounts payable, budget forecasting, and fixed assets), payroll/personnel, utility services, spreadsheet (report writer), and word processing (Word Perfect, SSI). Inventory and equipment and the police packages (developed by Foresight Solutions) need to be developed. The police package would not be available until September. "Some" software modification is included with the purchase price.

Hardware and software support are available for a fee. Hardware support is provided by Data General Services, Inc. (DGSI) with a four-hour response time. Software maintenance is provided by Northwest by telephone. The first year of support is

included in the price of the system and costs 10 percent of software costs thereafter.

Training is available on-site (in Wayne) at a cost of \$1,000. One day each of training is provided for operations and applications programming.

RFP Specifications:

<u>Hardware</u>	- All met
<u>Software</u>	
<u>Phase I:</u>	
Financial Management	- Yes
Payroll	- Yes
Personnel	- Yes
Utility Services	- Yes
Police Records	- To be developed
Spreadsheet (Supercalc)	- Yes
<u>Phase II:</u>	
Word Processing (Word Perfect, SSI)	- Yes
Inventory and Equipment	- To be developed

Cost Summary:

Purchase Price:		
Hardware		\$35,830.00
Software		<u>19,155.00</u>
Total		\$54,985.00
Other costs:		
Transportation	\$ 300	
Supplies	1,500	
Training	1,000	
Maintenance:		
Hardware ¹	4,212/yr.	
Software	1,915.50/yr.	
First-year cost		\$61,565.00
Five-year cost		\$84,347.00
Average annual cost		\$16,869.40

¹Without police hardware maintenance.

Recommendation:

This proposal should be selected for further consideration. However, expansion of the system is limited to IBM P/C hookups and software needs to be developed.

Precision Computer Systems, Inc.

Precision is a software house and OEM located in Sioux Falls, SD. References provided include eight Iowa cities which have formed a users' group.

Hardware proposed is a Burroughs B22 for city offices and a B21-6 for the police. The Burroughs B22 is a 16-bit microcomputer with 256K of main memory, an additional 256K of add-on memory units, 40MB of hard disk storage, 1600 bpi tape streamer backup, four work stations, one Okidata 160 lpm printer, and one Okidata 120 cps printer. The B-22 is expandable to seven work stations without system enhancement. The separate police system is a 512KB, 15MB system with one work station and one Okidata 120 cps printer. The second system can be linked with the main system with additional hardware, included in the cost quoted.

All required software is proposed. However, the personnel and inventory packages have yet to be developed. Most software are standard Burroughs packages. Precision developed the fixed assets program, and Guardian Computer Corporation (out of Oregon, WI) developed the police records and reporting system.

Hardware and software support are available for a fee. On-site hardware support is available out of Omaha or Sioux City with a 48-hour response time. Hardware is covered by a 90-day warranty and two preventive maintenance calls during the first year. Software support is by telephone out of Sioux Falls with a three-hour response time. Software purchase includes a 90-day service period on budgetary, payroll, and utility packages, and a year of service telephone calls at no charge.

On-site training is provided for two persons for all software at no additional cost, except for the Adept II and police department packages. These packages require seven days of training at a cost of \$2,350.

RFP Specifications:

<u>Hardware</u>	- All met
<u>Software:</u>	
<u>Phase I:</u>	
Financial Management	- Yes
Payroll	- Yes
Personnel	- To be developed
Utility Services	- Yes
Police Records (Guardian)	- Yes
Spreadsheet (Multi-plan)	- Yes
<u>Phase II:</u>	
Word Processing	- Yes
Inventory and Equipment	- To be developed

Cost Summary:

Purchase Price		
Hardware		\$ 51,940.00
Software		<u>21,095.00</u>
Total		\$ 73,035.00
Other Costs:		
Transportation	\$ 800.00	
Supplies	1,500.00	
Training	2,350.00	
Software Modification	1,125.00	
Maintenance:		
Hardware	6,783.50/yr.	
Software	2,088.00/yr.	
First-year cost		\$ 87,681.60
Five-year cost		\$123,168.00
Average annual cost		\$ 24,633.60

Recommendation:

This proposal should be selected for further consideration.

SUMMARY

	System Proposed	Purchase Price	First-Year Cost	Five-Year Cost	Average Annual Cost	Recommendation
Anacomp, Inc. Indianapolis, IN	No specifications	\$126,583	—	—	—	No further consideration (cost and incomplete)
Automated Systems, Inc. Lincoln, NE	Plessey 6742 512K memory 84MB storage Expandable to 30 work stations. TSX Plus Op. Sys.	80,935	87,963	126,556.92	25,311.38	Select for further consideration
Burroughs Corporation Sioux City, IA	Burroughs B96-41 512K memory 77.4MB storage At capacity without added cost. CMS op. Sys.	69,086	93,937.84	118,985.20	23,797.04	No further consideration (software and support limitations)
Computoservice, Inc. Mankato, MN	Texas Instruments Business System 372 512K memory 75.5MB storage Expandable to 7 work stations. DX-10 Op. Sys.	82,500	104,465	136,645	27,329	Select for further consideration
Data Management Design, Inc. Reston, VA	Wang 2200 256K memory 80.4MB storage Expandable to 8 work stations. "Multitasking" Op. Sys.	102,137	112,253.19	145,645.19	29,129.04	Secondary consideration (cost)
Facts Data Services Des Moines, IA	No specifications	—	—	—	—	No further consideration (incomplete)
H.M.S., Inc. Marietta, GA	Data General Eclipse C-30 1MB memory 50MB storage Expandable to 8 work stations. AOS Op. Sys.	81,980	109,604	156,100	31,220	Secondary consideration (cost)

SUMMARY – Continued

	System Proposed	Purchase Price	First-Year Cost	Five-Year Cost	Average Annual Cost	Recommendation
Information Solutions, Inc. North Kansas City, MO	NCR ADDS Mentor M4062 256K memory 60MB storage Expandable to 8 terminals ADDs M-80 Op. Sys.	102,350	128,194	170,770	34,154	No further consideration (cost)
Manatron/Current Systems Liberty, MO	Burroughs B-Series	65,965	—	—	—	No further consideration (incomplete)
Morse Data Processing, Inc. Hastings, NE	Burroughs B22/B21-6 1MB memory/384K 40MB storage/10MB Expandable to 7 work stations. BTOS Op. Sys.	85,605	96,934.08	130,598.40	26,119.68	Select for further consideration
NCR Corporation Lincoln, NE	NCR I-Tower 512KB memory 84MB storage Expandable to 6 work stations. RM-COS Op. Sys.	66,736	85,626.70	116,357.50	23,271.50	Select for further consideration
Northwest Systems, Ltd. Steamboat Springs, CO	Data General Eclipse PC-30/IBM PC 512KB memory/128K 15MB storage/20MB At capacity without added cost. AOS Op. Sys.	54,985	61,565	84,347	16,869.40	Select for further consideration
Precision Computer Systems, Inc. Sioux Falls, SD	Burroughs B22/B21-6 512K memory/512K 40MB storage/15MB Expandable to 7 work stations. BTOS Op. Sys.	73,035	87,681.60	123,168	24,633.60	Select for further consideration