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# **American Water System**



January 9, 1996

Submitted by:

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# AMERICAN WATER SYSTEM

# CUSTOMER INFORMATION SOFTWARE COMMITTEE

# PROJECT REPORT

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# **Consultant's Report**

## AMERICAN WATER SYSTEM

## CUSTOMER INFORMATION SOFTWARE COMMITTEE

## PROJECT REPORT

#### Executive Summary

The American Water System Customer Information Software Committee has proceeded with its review of available vendor software packages by conducting a comprehensive screening of customer information products and vendors developing customer information software. In addition more detailed research was conducted on two vendors: Orcom Systems and J.D. Edwards. This evaluation included on-site visits to utilities where the software packages are in use, site visits to corporate headquarters, and more specific study and comparison of the products.

Based on this evaluation, the committee recommends Orcom's package for the American Water System. While it is apparent that none of the candidates reviewed offers a product to meet all our future business needs, Orcom offers the best product on the market today, and would equip American to remain competitive for several years until the next generation of software is available.

#### Package Comparison

Dedicated to the utility industry for more than 20 years, with 150 clients, Orcom Systems has developed an excellent, functional system that would meet or exceed American's core business needs. Their package features an understanding of state regulations and the ability to handle multiple states. Overall, it is clearly the best solution available today. Areas which would need to be clarified before finalizing a relationship with Orcom include Orcom's limited size and resources, and their timetable for implementing a client-server package.

J.D. Edwards does not have a readily available CIS software package, nor a base of utility experience. However, the firm is well-regarded for financial and accounting software, and has significant resources as well as dedication to establishing a visionary presence in the utility market. This would allow American to customize a CIS package to fit its needs, using existing hardware. They are planning to move to a client-server package, and their CIS package would interact with their accounting software to provide a seamless, integrated system. However, their lack of experience with the utility industry, limited functionality, difficulty in handling multiple states, and high dependence on American during a relatively long development process would make J.D. Edwards' package a burdensome challenge to implement.

#### Conclusion

In summary, both Orcom and J.D.Edwards offer innovative solutions to American's CIS needs. Since Orcom offers a readily available package and has indicated an intent to continue development of improved CIS software, the committee recommends pursuing financial discussions with Orcom Systems to acquire licensing to use this software. Should negotiations for any reason prove unsuccessful, the J.D. Edwards approach should be pursued as an alternative.

This report was prepared by the core committee members — Daniel P. Bickerton, Director-Customer Relations, WV-American; Theresa L. Carpenter, Director-Customer Relations, NJ-American; and Deborah P. Lippert, Director-Customer Relations, PA-American with significant insight and contributions from James M. Curley, IS Director, NJ-American. The core committee would like to thank all those involved for their invaluable contributions to this project.

# ORCOM

#### **COMPANY OVERVIEW**

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Orcom's business plan and mission are focused totally on meeting the needs of the utility industry. They have more than 20 years of experience working with the utility industry, and their expertise is apparent in their presentations and discussions that have highlighted some of the major features of their customer information system. They have approximately 150 investor-owned and municipal clients; however, most of their clients are smaller in size than the American system, and most of their larger customers are in the gas and electric business.

Orcom's small size and their overall corporate climate make them culturally different from the American System. We would need to establish that Orcom can supply sufficient resources to serve American and that Orcom could handle the implementation of multiple sites simultaneously.

#### ORCOM'S CIS PACKAGE

Orcom's CIS package contains a high level of functionality. It is a high quality system that would meet or exceed American's core business needs. They are familiar with multiple states running on one computer. One of their clients, United Cities Gas, has five AS/400 locations supporting 10 states. Some other important features included in their package are:

- Utility-defined field labels and screens
- Customer contact system
- Movement through system by group or user-defined PATHS
- · Notepad by customer, premise, or meter
- Program exits for third party code

Orcom currently has two versions of their customer information system:

- 1. Standard Customer Information System This package runs on PCs or terminals and has the typical "green screen" look (similar to the current EDIS screens)
- 2. Mirror Pond CIS This package runs only on PCs. It is the standard package with a Graphical User Interface (GUI/400) and some other enhancements to provide some of the benefits of working in a Windows environment. This version is new, with the first site going on-line in the first quarter of 1996.

Orcom realizes that client-server computing is the direction of the future but has not made a decision as to the tools they will use to develop and support a true client-server package. They are currently evaluating C++ and PowerBuilder. Both packages are widely known languages within the computer industry. There are many competitive vendors who could program and support these languages. The president of Orcom expects to have a true client-server product in the market within three years, although at present there is no planned path or schedule.

Orcom has developed supporting modules to the CIS package. These packages are using client-server technology. Orcom's business analysis system uses the Cognos PowerPlay software to provide an executive information system for upper management. A subsidiary of Orcom, Myraid Corporation, has developed a client-server imaging and electronic filing system to complement the CIS package. They are partnered with Group One to handle the mail processing aspects of the billing system.

Orcom appears to be very conservative as far as software development and implementing new technical products. They rely heavily on established user groups to promote product enhancements. The CIS package provides for integration and has significant flexibility. The package provides a very functional replacement of EDIS and all the new technical advances that EDIS does not provide. However, there is no substantial integration into other areas of the water utility industry, such as production, distribution, and work management. For example, on our site visit to Southern California Water, we saw a scheduling system being used for service orders. This system utilized Microsoft Office and not the CIS package, so the clerk had to enter information twice; a duplication of labor to be avoided. Orcom plans a scheduling enhancement, due in January 1997.

#### RELATED CLIENT EXPERIENCE

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Southern California Water Company chose Orcom due to its functionality and as a major client has benefited from the modifications that Orcom has made to the system to meet the needs of California's second-largest investor-owned water company. The water company was able to install the system for eight districts serving 22 sites in a relatively short period.

The Southern California Water Company conversion was performed in a six month time frame. Orcom also modified approximately 25 percent of their base code to meet Southern California's requirements within a one-year time frame. Southern California Water Company, which handles 240,000 water and 20,000 electric customers, seemed pleased with the level of support and maintenance that Orcom provides.

#### WHY ORCOM?

With its functionality and flexibility, the Orcom package is truly the best CIS package on the market. It is a utility-based product with features to meet regulations in virtually all of the states in which American has subsidiaries. Their product offers a relational database, data dictionary, screens and labels to be defined by the client, a strong customer contact system and ease of use as well as the highest level of functionality available in a CIS package. With installation of the Orcom package, all of the existing hardware at American's subsidiaries could be effectively used. Clearly, the strongest advantage this established, workable package offers is its accessibility and the ability to have it installed at the first site in approximately six to eight months from final purchase agreements. Also, it is important to note that Southern California Water Company has effectively interfaced the Orcom package with J.D. Edwards' Accounting and Financial package. They are satisfied that the integration was possible without exhaustive resources and with little or no difficulties.

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# J.D. EDWARDS

#### COMPANY OVERVIEW

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J.D. Edwards has a strong, technical foundation, a visionary view of the market and a clearly identified path to the client-server world. They have taken their technical expertise in financial accounting software and applied the same theories and practices to their customer service package.

Their corporate culture is similar to the American System's. They have substantial resources and should be able to install more than one site at a time. They could provide adequate help desk support and technical resources and have a strong presence among their corporate partners, such as IBM.

However, while J.D. Edwards is committed to establishing a presence in utility customer information systems, that presence is not there now. They do not have expertise in the utility industry or even a solid, basic understanding of the water utility industry. An example of their limited knowledge of the utility industry is their lack of understanding of such common elements as rate analysis and unit of measure conversions.

#### J.D. EDWARDS CIS PACKAGE

Their CIS package has three versions. A company can run one version entirely or parts of all three versions simultaneously.

- 1. Standard Customer Information System This software package runs on PCs or terminals and has the typical "green screen" look (similar to the current EDIS screens).
- 2. "World Vision" Customer Information System This package runs only on PCs. It is the Standard package with a Graphical User Interface and provides some other enhancements, such as arranging the presentation of fields on a screen to meet a specific user's needs.
- 3. \*"One World" Customer Information System This is a clientserver version of J.D. Edwards' Standard package and is not currently available. It runs only on PCs and provides the full benefits of clientserver technology including stored triggers and events, objectoriented code, and inherent business rules.

\*Limitations: The CASE tool used by J.D. Edwards is their proprietary tool. If J.D. Edwards were no longer in the market, American would not have support for their CIS package or for the tools to maintain the package.

The "One World" product will only run on Windows NT or Windows '95.

The current Standard CIS package does not contain the functionality contained in EDIS. Only an estimated 50 percent of the core requirements are currently in place. The other 50 percent would have to be developed. J.D. Edwards is looking to partner with strong utility companies to further develop their utility knowledge.

The opportunity to partner would help ensure that American can get many of its requirements built into the system, because, in such an arrangement, J.D. Edwards would be willing to add to or enhance the core package, and has committed to provide all the functionality required to meet regulatory requirements within its base package. However, the missing functionality would mean a longer time to release the product to the market. This would also require a fairly substantial requirement analysis, planning, development, and testing phase. Planning and developing is estimated at 18 months before the first site could be implemented. It would require extensive American personnel resources to help design and test procedures during this phase. Although the personnel resources would have to be determined at the implementation planning phase, it would probably require CIS and IS resources from all state corporations and the region.

#### RELATED CLIENT BACKGROUND AND EXPERIENCE

The current CIS package will be rolled out at New Jersey Natural Gas and Connecticut Water Company. The first live site will be New Jersey Natural Gas on June 1, 1996. This will be the Standard and "World Vision" versions of the CIS software.

New Jersey Natural Gas chose J.D. Edwards primarily because they wanted a one-vendor solution for all their applications including CIS, Financial and Accounting, Human Resources, Payroll and Purchasing. After reviewing CIS packages during 1993, New Jersey Natural Gas could not find a CIS package that contained all the functionality of their old system. They decided to use J.D. Edwards financials and partner with J.D. Edwards to develop a CIS

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package from scratch. The development of this CIS package took approximately two years. New Jersey Natural Gas could cost justify this approach because, upon project completion, they could retire their mainframe computer and use less costly AS/400s, and they could reduce their information system staff from 48 people to 36 people to support a 355,000 customer base. These cost savings can not be expected at American since most locations have no mainframe computers and have considerably smaller staffs.

Since the CIS project was developed by J.D. Edwards with input from New Jersey Natural Gas, the package does not have many of the features required for water utilities such as multi-dimensional rate structures. They are currently making changes to fit the water utility requirements of Connecticut Water and expects to go live with Connecticut Water Company by January 1, 1997. J.D. Edwards does not expect to roll out the "One World" client-server version of the CIS software until the Standard version is stable, and all other product offerings are fully client-server.

#### WHY J.D. EDWARDS?

The lack of expertise in the utility industry may have people wondering how J.D. Edwards was even a finalist in the selection process. They were a finalist because their current product, even without all the necessary functionality, has: a relational database, a data dictionary, CASE tools, a solid plan to transition to client-server, and significant infrastructure to support American. It is also a solution that would allow every American location to use existing hardware.

They are starting to build third-party partnerships that will provide paths to GIS, remote computing, computerized service orders, etc. They have the company size and strength to influence vendors such as Intergraph and ESRI (GIS, AM/FM forms). Also, using the CIS package in conjunction with the J.D. Edwards accounting software would provide a truly seamless, integrated system with single points of entry for data and automatic updating of accounting systems.

Also, in the long run, J.D. Edwards' corporate culture and their experience with a variety of business clients, rather than municipalities, could yield innovative solutions to help American anticipate and meet the unique challenges of a private utility.

#### J.D. EDWARDS AND ORCOM COMPARISON SUMMARY

	J.D. Edwards	Orcom
Current Focus	Entering utility arena	Utility specific
Utility Knowledge	Limited	Extensive
Utility Installed Base	1st client on 1/1/96	150 clients
Current Functionality	Limited	Extremely Functional
% of American Needs that are in	50%	90%
current package	5070	
Package currently meets most	No	Yes
state regulations		
Maintain separate history of	Yes	Yes
customers, premises, & meters		
Handle multiple states	Not easily	Yes
Control of master tables	Easy	Easy
Setup of rate tariffs	Fairly Complex	Easy
Movement thru System	CIS & WO Workbench	PATHS
Standard CIS package	Standard CIS - "green-screen"	Standard CIS - "green-screen"
GUI-version of Standard	World Vision CIS	Mirror Pond CIS
Client-Server	One World CIS	has not decided on tools yet
Server Hardware	AS/400	AS/400
Relational Database	DB2/400	DB2/400
Data Dictionary	Yes	Yes
Standard Language	RPG/400	RPG/400
Stable Platform	Yes	Yes
Support Current Hardware	Yes	Yes
throughout American System		
Tight System Security	Yes	Yes
Third Party Integration	Starting to building relationships	Relationships currently exist
Ability of American to Influence	Strong	Moderate
the CIS product		
Resource Availability	Significant	Limited
Technical Expertise	High	Moderate
Committed to Client-Server	Yes	Yes
Clear Path to Client-Server	Yes, "One World"	No, still evaluating tools
Risk Factor	High	Low
Time Required to Market	Eighteen Months	Eight Months
American Resources Required	Significant	Low to Moderate

# Orcom Systems Client List

Ollent List				
Company	Name	<u>Title</u>	<b>Phone</b>	No. of <u>Customers</u>
Barbados Water Authority	Oneil Brathwait	Financial Controller	(809) 427-3990	80,000
Clay Electric Cooperative, Inc.	Derryl Cone	IS Director	(904) 473-4911	116,000
Columbus Waterworks	Emory Blount	Comptroller	(404) 322-5471	55,000
Cumberland EMC	Carl Wilson	Manager Financial Services	(615) 645-2481	63,000
Delta Natural Gas Company	Larry Curtis	Data Processing Manager	(606) 744-6171	33,000
Jackson Utility Division	Jim Watson	Customer Service Manager	(901) 422-7260	28,200
K N Energy Inc.	Bill Gilette		(303) 763-3320	230,000
Niagara Mohawk Suburban Gas	George Arno		(315) 460-3241	5,000
Northern States Power Company	Tom Kerestes	IS Manager	(715) 839-2424	275,000
Nova Scotia Power Inc.	Tom Ross	CIS Project Manager	(902) 428-6221	411,000
Penn Fuel Gas, Inc.	Stephen Pye		(610) 932-6541	70,000
Roanoke Gas Company	Bobby Wells	DP Manager	(703) 344-6651	50,000
Sam Houston Electric Cooperative	Kyle Kuntz	Ass't. Gen. Manager	(409) 327-5711	60,000
San Jose Water Company	Dana Drysdale	DP Manager	(408) 279-7977	60,000
Southern California Water Company	David Hefler	MIS Director	(909) 394-3609	260,000
United Cities Gas	Bill Guy	MIS	(615) 373-0104	275,000

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# J. D. Edwards Client List (Financial/Job Cost)

Company	<u>Name</u>	<u>Title</u>	Phone	No. of <u>Customers</u>
Arizona Electric	Joe Leingang	Controller	(520) 586-5388	5 90,000
Citizens Utilities	Jo Getchen	IS Director	(520) 753-4051	. 75,000
Connecticut Water Company (Installation in Process)	Bert Lenz	Treasurer	(203) 669-8630	60,000
Contra Costa Water	Leroy Prouty	IS Director	(510) 688-8000	400,000
Equitable Resources	Ray Durken	IS Director	(412) 442-3000	245,000
New Jersey Natural Gas	John Huff	IS Director	(908) 938-1001	350,000
Southern California Water	Don Bowcut	Project Mgr.	(909) 394-3707	260,000
Wheelabrator Technologies	Ernie Botte	IS Director	(603) 929-3411	N/A

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# Orcom

# **CostAnalysis**

# Summary of Costs - Scenario 1 (Pennsylvania)

#### ORCOM SYSTEMS' SOFTWARE

\$	567,473	
	113,495	
	56,747	
\$	18,916	
s	25,000	
\$	25,000	
\$	18,916	
\$	94,579	
\$	94,579	
\$	Э,458	
\$	22,995	
\$	29,495	
\$	50,000	
۰\$	68,431	
\$	10,000	
		\$ 1,205,084
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rdwa	re	\$ 39,074
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	\$ \$ \$ \$ \$ \$ \$ i	<ul> <li>\$ 113,495</li> <li>\$ 56,747</li> <li>\$ 18,916</li> <li>\$ 25,000</li> <li>\$ 25,000</li> <li>\$ 18,916</li> <li>\$ 94,579</li> <li>\$ 50,000</li> <li>\$ 50,000</li> <li>\$ 68,431</li> <li>\$ 10,000</li> <li>\$ 68,431</li> <li>\$ 10,000</li> </ul>

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#### **IMPLEMENTATION SERVICES**

Estimated Project Management Services (2,000 hours billable at \$125 per hour, per person)	\$ 250,000
Estimated Conversion (750 hours billable at \$125 per hour, per person)	\$ 93,750
Estimated Pre-Installation (300 hours billable at \$100 per hour, per person)	\$ 30,000
System Studies (1,000 hours billable at \$100 per hour, per person)	\$ 100,000
System Set Up (500 hours billable at \$100 per hour, per person)	\$ 50,000
Estimated Modifications (1,000 hours billable at \$125 per hour, per person)	\$ 125,000
Estimated Core Group Training (1,000 hours billable at \$85 per hour, per person)	\$ 85,000
Estimated End User Training (600 hours billable at \$85 per hour, per person)	\$ 51,000
Estimated Follow Up Training (250 hours billable at \$85 per hour, per person)	\$ 21,250
Total Estimated Implementation Ser	vices

OrCom Systems, Inc. - CONFIDENTIAL December 13, 1995 \$

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# Summary of Costs

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Total Proposed Cost	\$2 ===	.,050,158 ======
OrCom Software Extended Support Fee	\$	180,763
(15% of the total OrCom Software Cost, billed annually. Does not include modifications. Please see Extended Support for details)		
OrCom Software Premium 24-Hour Extended Support	\$	216,915
(18% of the total OrCom Software Cost, billed annually. Does not include modifications. Please see Extended Support for details)		

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# Summary of Costs - Scenario 2 (Total Company)

#### ORCOM SYSTEMS' SOFTWARE

Customer Information and Billing Contact Management System Service Orders Meter Reading Interface Software Code 1 Software Interface Equifax Credit Reporting Interface Rate Studies Utility-Defined Screen Facility Special Equipment Equipment Test Screen Facility Myriad Recall 2000 (20 User License) Myriad Electronic Filing System (20 User License) OrCom Business Analysis System (20 User License) GUI/400 Graphical User Interface (1,123 Licenses) GUI/400 Developers Kit	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	500,000 300,000 150,000 25,000 25,000 250,000 250,000 250,000 25,000 22,995 29,495 50,000 344,761 10,000		
Total OrCom Systems' Software			\$ 3,0	82,251
LASER LIBRARY HARDWARE Laser Library System Hardware (Hardware for one Myriad Recall 2000 and Myriad Electronic Filing System)		\$39,074		
Total Estimated Laser Library Hard	dwa	re	\$	39,074

# Summary of Costs

IMPLEMENTATION SERVI	CES

Estimated Project Management Services (4,000 hours billable at \$125 per hour, per person)	\$ 500,000	
Estimated Conversion (2,500 hours billable at \$125 per hour, per person)	\$ 312,500	
Estimated Pre-Installation (500 hours billable at \$100 per hour, per person)	\$ 50,000	
System Studies (1,000 hours billable at \$100 per hour, per person)	\$ 100.000	
System Set Up (1000 hours billable at \$100 per hour, per person)	\$ 100,000	
Estimated Modifications (4,000 hours billable at \$125 per hour, per person)	\$ 500,000	
Estimated Core Group Training (3,000 hours billable at \$85 per hour, per person)	\$ 255,000	
Estimated End User Training (1,100 hours billable at \$85 per hour, per person)	<b>\$</b> 93,500	
Estimated Follow Up Training (500 hours billable at \$85 per hour, per person)	\$ 42,500	
Total Estimated Implementation Ser	vices	\$ 1,953,500

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# Summary of Costs

Total Proposed Cost	\$ 5 ===	5,074,825
OrCom Software Extended Support Fee	\$	462,338
(15% of the total OrCom Software Cost, billed annually. Does not include modifications. Please see Extended Support for details)		
OrCom Software 24-Hour Extended Support	\$	554,805
(18% of the total OrCom Software Cost, billed annually. Does not include modifications. Please see Extended		

Support for details)

#### **Proposed Applications**

We have proposed the following Business Application Software:

- Customer Information and Billing
- Service Orders
- Contact Management System
- OrCom Electronic Meter Reading Software Interface
- OrCom/Code 1 Address Validation Software Interface
- OrCom Equifax Credit Reporting Software Interface
- Rate Studies

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- Utility-Defined Screen Facility
- Utility-Defined Menu Facility
- Special Equipment
- Equipment Test Screen Facility
- Myriad Recall 2000
- Myriad Electronic Filing System
- OrCom Business Analysis System
- Graphical User Interface/400

Our Customer Information/Utility Billing System is a complete system that maintains water, sewer and related services for your customers. Our package includes a credit history tracking system, a bad debts system, deposit tracking, on-line cashiering, budget billing, collections tracking, bank drafting, and a meter inventory. The Customer Information/Utility Billing System is fully integrated with the other proposed systems.

Service Orders offers a fast, convenient way to record service requirements for meter connects, disconnects, change outs and other service work. Our system will facilitate scheduling, print the service orders, and automatically update the Customer Billing System and Meter Inventory, saving time and redundant data entry.

The **Contact Management System** will allow you to define various call types and track all customer contacts. Based on the call type, letters or service orders can be generated automatically. Managers can track types of calls being received and help ensure a consistent response. The system was designed with one of our utility clients to improve communications with their consumers and provide measurement data for their quality program.

The **OrCom Electronic Meter Reading Interface** provides an integrated link between your hand-held devices and OrCom's Customer Information System.

The OrCom/Equifax Credit Reporting Interface provides an integrated link between Equifax and OrCom's Customer Information/Utility Billing System. Please note, additional hardware, software and service fees need to be purchased from Equifax.

The **OrCom/Code 1 Interface** provides an integrated link between the OrCom Customer Master Database with the Code 1 Postal Database.

Our **Rate Studies System** uses historical data from our Customer Information System to analyze the effects of potential rate changes.

The **Utility-Defined Screen Facility** allows our clients to add entire screens of information to their database. Additionally, validation tables and on-line help can be added to any field you have defined, allowing our software to be adapted to many specific information tracking requirements.

The Utility-Defined Menu System allows our clients to set up and maintain their own menus. Each menu can have up to 99 options, and options from existing OrCom menus or other third party software applications can be easily added to these menus. Menu option and user security is included.

The Spacial Equipment System allows you to track individual pieces of equipment such as backflow devices. Each piece of equipment is assigned an identification number. Using this unique identification, a purchase, installation and repair history of each item can be tracked.

The Equipment Test Screen Facility allows utilities to determine the test data they wish to capture on each type of Special Equipment. For each type of special equipment, the utility can define specific test data and maintain a perpetual historical record. This system eliminates the need for custom programming if additional testing requirements are added, or if existing test data changes.

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Windows-based **Recall 2000** allows any computer generated report, such as the billing register, cash edits, meter reading edits and purged customer histories to be downloaded to PC based optical disks. The optical media eliminates the need for microfiche and/or storage of printed reports. Each optical cartridge will hold approximately 180 cases of computer paper. Once on optical media, information can be searched, retrieved and printed quickly.

Using the same optical hardware utilized by Recall 2000, the Windows-based **Electronic Filing System** scans and stores document images (easements etc.) to optical media. The powerful Optical Character Recognition (OCR) module enables documents to be automatically archived by the printed text on the document page. In addition to paper documents, electronic files and fax files can also be processed by the EFS system.

The Business Analysis System incorporates Cognos Impromptu and PowerPlay products to provide desktop reporting tools. Impromptu expedites your business decisions by using the detail stored in your databases to create compelling reports. PowerPlay gives managers high-speed, graphical navigation of the reports and allows them to view the information from different angles.

GUI/400 provides a graphical user interface to OrCom's applications and AS/400 data. GUI/400 passes the DDS from AS/400 screens and allows substantial control for tailoring the look and feel of the graphical user interface.

#### I. CIS Solution

#### **Billing**:

The Utility Billing component of OrCom's Customer Information System provides extensive capabilities. The system is designed to accommodate both utility-specific and non-utility specific charges. Features include:

- Unlimited services and meters are accommodated.
- Multiple language sets are supported.
- Summary billing.
- Billing can be cycle driven, route driven or one-time.
- Unlimited detailed billing history is stored on-line.
- Unlimited deposits, penalties and contracts are supported.
- Cancel-rebill is available for any previous billing period.
- Field level security.

#### Deposits:

The OrCom Customer Information System accommodates and can track unlimited deposits.

#### Auto letter/notice generation:

Letters and notices can be generated easily using the OrCom Customer Information System. During the credit and collections process, unlimited notices can be generated by the system. Makeup and number of notices may vary by individual company.

Letters can be generated using third party word processors or the Customer Information System. If necessary, data fields from the Customer Information System can be automatically merged into a letter to provide personalized content.

# Service Orders:

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Our Service Order System provides extensive functionality related to service work. Service Orders can be generated on-line and dispersed to various remote service centers. Scheduling of service order time and crew is provided. As part of our Mobile Computing project, service orders will be routed electronically to the appropriate crews in the field. In addition our Contact Management System has the ability to automatically generate a service order based on a customer call type.

#### Non-pay Collections

Complete tracking of credit and collections is provided. Each customer is automatically given a utility-defined credit rating. This rating can be defined to determine cash only customer, bankrupt customers etc. The credit rating will feed an on-line status window to alert the CSR of a customer's credit worthiness. Unlimited third party notifications are provided. The system can be interfaced with outbound calling systems for collection of delinquent funds.

#### Meter Management:

The OrCom Customer Information System provides extensive on-line meter tracking. Test information, history, location information and comments are tracked.

#### Work scheduler:

As part of our Service Order System, time and crew scheduling functionality is provided. In the future, our mobile computing project, will provide additional scheduling and dispatching features. Pricing is not yet available for the OrCom Mobile Computing System.

OrCom Systems, Inc. - CONFIDENTIAL December 13, 1995

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#### Customer Contact Management:

The OrCom Contact Management System provides an unlimited history of customer contacts with the utility. A CSR can review both closed and pending contacts. Contacts can be viewed by account or by CSR. Each contact is time, date and user stamped. Updates to customer contacts are also time and date stamped. Contacts can be transferred to other CSR's or manager. Based on contact type, various actions can occur such as generation of a service order or generation of correspondence.

#### Rates and Rate Studies:

The OrCorn Customer Information System provides for an unlimited number of rates. A different rate per day is supported if necessary. Rates can be defined for various states and municipalities and are utility-defined based on specific requirements.

In the event AWC want to perform "what if" analysis with rates, both our Rate Studies system and our Business Analysis system provide this type of functionality.

#### Equipment maintenance tracking:

The OrCom Special Equipment System allows you to track individual pieces of equipment such as backflow devices. Each piece of equipment is assigned an identification number. Using this unique identification, a purchase, installation and repair history of each item can be tracked.

The OrCom Equipment Test Screen Facility allows utilities to determine the test data they wish to capture on each type of Special Equipment. For each type of special equipment, the utility can define specific test data and maintain a perpetual historical record. This system eliminates the need for custom programming if additional testing requirements are added, or if existing test data changes.

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#### Graphical User Interface (GUI Format)

The OrCom Customer Information System utilizes GUI/400, a graphical user interface which provides a "Windows"-like look and feel for end users. Full mouse "point and click" support is provided, and standard CUA compliant functions keys can also be used.

When using the GUI/400 Developers kit, each field in the base system can be moved or deleted from the GUI panel to allow tailoring of GUI screens. In addition, each field literal or description within the Customer Information System is user-defined and can be changed to fit AWC terminology and business practices.

#### **User Defined Screens:**

The OrCom Utility-defined Screen Facility provides users the ability to define entire screens of information that may not be captured in the base OrCom system. These screens can be interspersed seamlessly into the base system. User defined help can be added to describe the new screens. In addition each field littoral or description within the Mirror Pond Customer Information System is user defined. This provides AWC the ability to define labels based on AWC terminology and business practices.

#### Third Party Interfaces:

OrCom has extensive experience integrating our Customer Information System to other third-party applications. Our technical personnel and programmers have worked effectively with personnel from other companies to plan and build necessary bridges, be it interactive or batch.

External systems that our Customer Information System interface with include:

- Various Third-Party Financial Accounting Systems
- OrCom Financial Accounting Systems
- Group 1 Code 1 Address Validation Software
- Equifax Credit Reporting System
- Phone Notification Systems
- Interactive Voice Response Unit
- Myriad Recall 2000 Optical Archiving System
- Myriad EFS Optical Imaging System
- Itron and various other Meter Reading Applications
- UTC Cashiering Workstations
- Ithica Receipt Printers
- Various UNIX workstations
- Milsoft Engineering System
- Cognes Impromptu Graphical Query Tool
- Cognos PowerPlay Executive Information System
- NCR and Unisys Remittance Processors
- ESRI ArcView AM/FM System

For the future we have plans to integrate:

- OrCom Mobile Computing System
- Backflow Device Test Tracking System

#### 1. Hand held meter reading devices.

OrCom is a distributor of Itron Meter Reading Equipment. We have provided interfaces to various Itron, Radix and Schlumberger meter reading technologies. As part of our price proposal, we have included prices associated with interfacing to existing AWC meter reading technologies.

#### 2. Mailing address/postage/carrier route software.

OrCom is a distributor of Group 1 Code 1 Address Validation Software and we have integrated our applications with the Code 1 software. As part of our proposal we have included pricing associated with interfacing to existing AWC Code 1 Address Validation Software.

#### 3. Mobile Computing.

A future OrCom project, scheduled for completion in the third quarter of 1996 is mobile computing. We plan to provide the ability to have interactive devices in service vehicles. Our Service Order System will be enhanced to provide additional scheduling and dispatching functionality. The system will have the ability to interact with a geographic-based mapping system for instant identification of AWC's service vehicles. The OrCom Mobile Computing System will provide clients the flexibility to use various DOS or Windows based devices utilizing various communication methods. Pricing is not yet available for the OrCom Mobile Computing System.

#### 4. GIS (ESRI AM/FM Integration).

OrCom utilizes ESRI's ArcView system to provide AM/FM integration to third party GIS systems. We would need a better understanding of AWC requirements in order to quote necessary integration.

#### 5. Digitized Mapping.

OrCom does not provide map digitizing services. OrCom utilizes ESRI's ArcView system to provide AM/FM integration to third party GIS systems.

#### 6. Computer, telephony.

The OrCom Customer Information System can be interfaced with a variety of telephony applications to provide phone number and account number identification. IBM Call Path/400 is one product that could be used. OrCom will be happy to interface to the product (s) chosen by AWC for inbound and outbound call functions. We would need a better understanding of AWC requirements in order to quote necessary integration.

# 7. Financials/Accounting software (GL, AP, PO, HR Payroll, FA, CPR).

Interfaces to the financial accounting software system chosen by AWC will be necessary. OrCom can design, write and maintain the necessary interfaces. Typical interfaces include a General Ledger cash and revenue interface and an interface to accounts payable for refund check processing. Once OrCom has a better understanding of the selected financial accounting system, we can provide integration estimates.

#### 8 & 9. Imaging Technology/Optical disk retrieval system.

In 1990 OrCom Systems developed several Client/Server optical archiving products. These products were first released in a DOS environment and operated on stand-alone personal computers connected to the AS/400 and interfaced with OrCom's utility applications. These products used personal computers and optical disk drives to manipulate large reports and other documents in pursuit of a paper-less environment.

OrCom's mission is to serve the needs of the utility industry exclusively. As OrCom identified markets for these products outside the utility industry, we organized a separate corporation; Myriad, Inc. Myriad has updated the Laser Library Products as Windows applications functioning on networks and with multi-platter optical disk storage devices (jukeboxes). These products are platform independent.

**Myriad's Recall 2000** is an Optical Archiving System which operates in the Windows environment using an Optical Disk storage device. Recall 2000 will allow a variety of computers to download reports to a personal computer based optical drive. The system allows for the equivalent of approximately 300 cases of paper to be stored on each optical cartridge. Large reports, purged customer history, billing registers and financial reports are accessible to client PC's for retrieval and printing.

**Myriad's Electronic Filing System** (EFS) is a Windows-based product which uses the same optical hardware used by Recall 2000. EFS stores document images (easements, letters etc.) to optical media. The powerful Optical Character Recognition (OCR) module enables documents to be automatically archived by the printed text on the document page. In addition to paper documents, electronic fax files can also be processed by the EFS system.

#### 10. Cash receipt/scanning system.

Multiple methods of revenue can be accepted such as cash, check, split payments, money orders etc. Payment is recognized by the system as soon as the CSR enters the information. Payments can be allocated to various services based on utility-defined criteria. Payments can be accepted manually, electronically or through the use of bar code devices remittance processors and lock boxes. If necessary receipts can be printed.

#### II. Implementation Hours & Costs

Please refer to the attached cost summary's for a breakdown of implementation hour and cost estimates. We have provided implementation estimates for both scenarios. Our plan assumes installing one site initially which will uncover a majority of the issues for all sites. If business process flows and user works functions are similar from company to company, progressively less implementation services will be required for the remaining seven installations.

During the initial implementation stages of the project OrCom and AWC will discuss and identify roles and responsibilities. We are assuming a constant overall AWC core group will be available to assist in the implementation of all eight sites. Using this approach, consistent knowledge transfer can occur, thereby eliminating the need to "recreate the wheel" eight times. If this approach is not practical, we may be required to adjust our implementation and training estimates.

Scenario 1: We have estimated implementation services associated with a single installation in Pennsylvania. Please refer to Summary of Costs - Scenario 1 for detail.

**Scenario 2:** Estimates are provided for an eight company implementation. Please refer to Summary of Costs - Scenario 2 for detail.

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#### III. Customization costs/hour

As part of our implementation estimate, we have included customization estimates. Hourly rate is \$ 125.

**Scenario 1:** We have proposed 1000 hours of programming as an initial estimate. Upon completion of a requirements definition, we can provide detailed modification estimates. Please refer to Summary of Costs - Scenario 1 for detail.

Scenario 2: We have proposed 4000 hours of programming as an initial estimate. Upon completion of a requirements definition, we can provide detailed modification estimates. Total company modification hours will be significantly reduced if a majority of modifications done for the first installation become consistent across all eight AWC companies. Please refer to Summary of Costs - Scenario 2 for detail.

IV. Training Hours and Costs.

After further discussion of your requirements, OrCom will provide a specific training plan tailored to your needs, including recommended training hours and number of trips required. The plan will be customized to meet the requirements of the various companies that make up AWC.

Scenario 1: We have enclosed training estimates for a core group, operations, technical and end-user personnel. Please refer to Summary of Costs - Scenario 1 for detail.

Scenario 2: Additional hours have been proposed to support training for all eight operating companies. Our assumption is a consistent AWC core group will be available to assist OrCom in an overall training plan. Our plan assumes economies of scale using previously trained AWC personnel to assist in training. Please refer to Summary of Costs - Scenario 2 for detail.

#### V. Annual Maintenance Costs.

Annual maintenance is included as part of OrCom's Extended Support Program. Extended Support includes:

- All software updates developed to enhance the OrCom software you have purchased.
- Response Line services for your software questions.
- A full warranty for all software purchased.

The cost of our Extended Support Program is 15% of software license fees for standard support and 18% for Premium 24 hour support. Please refer to Summary of Costs for detail.

# VI. Annual Support Fees.

OrCom does not differentiate annual support and annual maintenance fees. Both annual support and maintenance are included as part of OrCom's Extended Support Program.

# VII. Other Costs or Fees.

Please refer to attached OrCom's Rate Schedule. Travel, meal, lodging and associated costs are billed as incurred.

#### VIII. Comments.

OrCom is extremely excited to begin a partnership with American Water Works. We have priced our systems to give the entire company a 25% discount if all eight operating companies choose the OrCom System.

Our systems are extremely stable and market proven. A number of our clients have chosen OrCom instead of a custom development project for their Customer Information System. Reasons mentioned on why they choose not to pursue a development project include:

- Risk is unlimited with a development effort, risk can be managed with a packaged software solution.
- OrCom product is stable, it is not a development effort.
- Implementation schedule is much easier to maintain with packaged software.
- Development efforts run the risk of becoming highly customized.
- Future upgrades become increasingly more difficult to maintain during a development effort.
- A significant number of development efforts have been canceled because they exceeded original design scope and budget.

#### IX. Summary

OrCom has provided quality Customer Information System solutions since 1978. As utilities are our only business, we are acutely familiar with the intricacies of Customer Information Systems.

Over 125 utilities use our Customer Information System, including Southern California Water Company and San Jose Water Company. We have extensive experience in serving water utilities throughout the country.

The utility industry is in a period of rapid change, and OrCom has positioned itself to respond aggressively. Our future direction is continued integration with emerging technologies, other third-party applications, and development of new applications as dictated by our clients in the marketplace.

To improve customer service, we developed the OrCom Customer Contact System. By providing software to automate call centers, we have given our clients a powerful tool to improve their customer responsiveness.

As technology has evolved, OrCom has responded with utility-specific systems. OrCom was one of the first vendors to provide a complete optical archiving system, and we recently developed a Graphical User Interface and decision support software.

Current projects include developing a mobile based computing system for service personnel. Specific to water, we have partnered with San Jose Water Company to develop a Backflow Device Test Tracking System.

Our long-term strategy continues to be combining emerging technologies, the input of our clients, and OrCom's utility experience in partnership. This strategy has successfully enabled OrCom to identify market trends and position OrCom as an industry leader in the utility information systems industry.

# EXHIBIT D --

# OrCom Systems' Rate Structure

#### TRAINING

Training on Hardware, IBM Software and OrCom Software operation is billed at \$85 per hour, per person.

#### PROJECT MANAGEMENT AND CUSTOM PROGRAMMING

Project Management, standard systems design, consulting and customized programming as requested are billed at \$125 per hour, per person. Programs to convert customer data to the OrCom Software are also billed at this rate.

ADVANCED TECHNICAL SERVICES AND BUSINESS ANALYSIS SERVICES

Clients are notified in advance of any projects requiring Advanced Technical Services. Such services include linking communications networks, PC networks or other complex projects requiring sophisticated technical skills. Systems integration issues and complex systems design problems require the services of an OrCom Business Analyst. Both Advanced Technical Services and Business Analysis Services are billed at \$145 per hour, per person.

#### TRAVEL EXPENSES

OrCom Systems bills to the Client our actual travel, meal and lodging expenses as incurred in conjunction with any support services.

#### PREMIUM EXTENDED SUPPORT

Annual Premium Extended Support cost is 18% of the total OrCom Software license fees purchased, plus 18% of the cost of software modifications. Under Premium Extended Support, Response Line is available 24 hours a day, seven days a week.

#### ADDITIONAL CHARGES

Equipment and products shipped by OrCom Systems are FOB Bend, Oregon. The charges are normally prepaid and added to your invoice.
## J.D. Edwards

## **CostAnalysis**

The "Summary of Costs" information for the J.D.Edwards package is unavailable, as this company wishes to cost their software as an integrated package. This would include the CIS software and Financial Accounting. In order to separate these costs, they would be quoting 2/3 of the amount of the total package. It is to our advantage to have both of these areas integrated and the costs finalized for the entire package.

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## **JDEdwards**

December 12, 1995

Ms. Deborah P. Lippert Director Customer Relations Pennsylvania - American Water Company 300 Gallery Road McMurray, PA 15317-4290

Dear Debbie:

Thank you for the time and effort that you and your evaluation committee have invested in evaluating J. D. Edwards & Company. Your team has been exceptional in it's attitude and efforts in challenging us to provide the best possible solution for American Water.

In seeking to provide the best possible solution we are unable to respond directly to your request for information describing a stand-alone Customer Information System. Our ability to provide American Water with a best-of-breed solution depends upon the high degree of integration between our CIS and F&A applications. For this reason we are requesting the opportunity to respond with a proposal for a fully integrated CIS/F&A solution to a joint committee of your CIS and F&A project leaders.

It is our mission as a solution provider to help American Water meet it's business objectives rapidly, economically and predictably. We believe that a combined CIS/F&A solution offers unique advantages to American Water.

As a company we have built a strong record of success over the past eighteen years. We currently serve over 3,000 customers worldwide through an employee base of over 2,100 people located in 45 domestic and international JDE offices.

25 Burlington Mall Road 4th Floor Burlington. Massachusetts 01803 +1 617 270 7800 Telephone +1 617 238 0444 Facsimile Our company has a strong tradition of success in the production and delivery of quality products and services. We are unique in the software industry in that we have achieved the following recognition:

- ISO 9001 Certification: Software Design, Training, Support, Documentation
- IBM Mark of Quality (1993, 1994)
- IBM International Rightsizing Award (1994)
- 11 Buyers Choice Awards (1992, 1993, 1994)
- Malcolm Baldridge Finalist (1995)

We have a published implementation methodology which we have used in over 2,000 implementations. Our domestic infrastructure of training centers and consultants maintains direct offices in 20 locations within North America. We have implemented JDE solutions in more than one quarter of the <u>Fortune 1000</u>. Seven of <u>Forbes</u> "Ten Most Admired" companies have implemented JDE software.

We believe the following factors will have significant effect on American Water's Return on Investment over time.

- Interface/Integration: JDE's enterprise solution is fully integrated. Integration allows complete, on-line, up-to-date access to company wide data. American Water will achieve significant cost avoidance by eliminating the need for the creation and maintenance of custom interfaces between multiple software products (CIS/F&A) as vendors provide disparate releases over time.
- <u>Implementation</u>: Proven implementation methodology supported by single vendor infrastructure of over 2,100 employees. American Water achieves cost avoidance of incurring two separate implementation projects per implementation site.
- <u>Software Maintenance</u>: JDE Maintenance Support provides product releases/enhancements every 12 to 18 months. JDE will spend more than 35 million dollars on Research and Development in 1996. As JDE software evolves through time, American Water's investment will Appreciate. Each of American Water's operating company's will maintain a similar, flexible, enterprise solution. American Water will achieve cost avoidance of maintaining two products with different release and update schedules, at eight sites, through time.

- <u>Client/Server Technology</u>: JDE provides American Water the opportunity to migrate to Client/Server technology at a conservative, defined pace. Operating companies will have the choice of implementing traditional green screen, AS/400 Graphical User Interface (GUI) or distributed object oriented technologies. The solution allows each operating company to implement either AS/400 or Client/Server technology (or a combination of both) as requirements and benefits dictate. This solution produces the cost avoidance of American Water having to standardize on either an AS/400 exclusive or a Client/Server exclusive environment.
- <u>Single Vendor Support</u>: 24 Hour Response Line provides single point of contact and problem resolution for entire American Water enterprise solution.

Again, thank you for the time that you and your team have invested. Based on the work of our two teams we are confident that a joint partnership would be extremely successful. We are committed to providing the most effective solution available to the Investor Owned Water Utility marketplace.

Sincerely,

Jeff Gleason Account Executive

CC: Glenn Smith, Account Executive
 Bob Siniscalchi, Business Unit Manager
 Dave Girard, Vice President & General Manager - Eastern Area
 Mike Iiams, Vice President of Strategic Relationships
 Doug Massingill, Executive Vice President - World Wide Operations

## **Proposal Description**

J. D. Edwards & Company requests the opportunity to propose an integrated, enterprise solution to American Water Works Company consisting of integrated Customer Information System, Core Financials, Capital Projects Management and Maintenance, Materials Management and Human Resources Management.

We seek a development partnership with American Water to enhance our Customer Information System to make it the best-of-breed offering for the Investor Owned Water Utility Marketplace.

We envision two levels of CIS Development Partnership in response to American Water's request for descriptions of two scenario's. We see significant advantage to a company wide, long-term, partnership with American Water which we would reflect in an enhancement allowance to be included in response to Scenario II.

## Scenario I : Single Site Implementation

JDE will modify it's Customer Information System to address waste water and all state regulatory requirements necessary for American Water to operate in Pennsylvania.

## Scenario II: Total Company Installation

JDE will modify it's Customer Information System to address waste water and all state regulatory requirements necessary for American Water to operate in any state in which it does business. In seeking a development partnership with American Water we agree to include an <u>enhancement allowance of \$1,400,000</u> to address product enhancements and additions as defined by American Water.

<u>Implementation Planning Study</u>: To produce a reliable and predictable budget we request a joint implementation planning session (IPS) involving American Water's Project Teams, JDE Client Services Manager (Mike Murphy), and JDE Branch Manager (Bob Siniscalchi). This planning session would utilize JDE's published implementation methodology to identify total resource requirements for a successful and predictable implementation.

In the absence of a joint Implementation Planning Session we will provide a total project implementation estimate upon request.

## Orcom

## **Dun & Bradstreet**

**Business Information Report** 

## Dun & Bradstreet

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# Business Information Report<sup>™</sup>

				~	
For: Tom Bat			November		
West Vi	rginia American	Water C		1:	46 pm

#### BUSINESS SUMMARY

ORCOM SYSTEMS INC	DUNS: 09-229-0204	RATING 3A2	
1001 SW DISK DRIVE BEND OR 97702 TEL: 541 389-0120	PROVIDES BUSINESS ORIENTED COMPUTER SOFTWARE & WHOL COMPUTERS AND COMPUTER PERIPHERALS	STARTED 1974 SALES F \$12,06 WORTH \$1,350 EMPLOYS 127 HISTORY CLEAR FINANCING SECURE FINANCIAL	,415
	SIC NOS. 7372 5045	CONDITION GOOD	
CHIEF EXECUTIVE: STEVEN GERLIC	HER, PRES		

#### CUSTOMER SERVICE

If you need any additional information, would like a credit recommendation, or have any questions, please call our Customer Service Center at (800) 234-3867 from anywhere within the U.S. From outside the U.S., please call your local D&B office.

#### SUMMARY ANALYSIS

The Summary Analysis section reflects information in D&B's file as of November 6, 1995.

RATING SUMMARY . . .

The Rating was changed on June 15, 1995 because D&B's analysis of the financial statement supports a higher Rating. The "3A" portion of the Rating (the Rating Classification) indicates that the company has a worth from \$1 million to \$10 million. The "2" on the right (Composite Credit Appraisal) indicates an overall "good" credit appraisal. This credit appraisal was assigned because the payment information in D&B's file indicates that this company's obligations are retired satisfactorily and because of D&B's "good" assessment of the company's December 31, 1994, fiscal financial statement.

Below is an overview of the company's D&B Rating(s) since 01/01/91:

RATING

DATE APPLIED

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For:	Tom Bailey			
	West Virginia	American	Water	С

November 6, 1995 1:46 pm

## SUMMARY ANALYSIS (continued)

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3A2 2A3 2A2 2A3 2A3	06/15/95 06/10/94 06/11/92 05/14/92
2A1	01/01/91

#### PAYMENT SUMMARY

The Payment Summary section reflects payment information in D&B's file as of the date of this report.

The PAYDEX for this company is 79.

This PAYDEX score indicates that payments to suppliers average 2 days beyond terms, weighted by dollar amounts. When dollar amounts are not considered, approximately 95% of the company's payments are within terms.

Below is an overview of the company's dollar-weighted payments, segmented by its suppliers' primary industries:

	TOTAL	TOTAL DOLLAR	LARGEST HIGH	» W∕IN		DAYS		
	RCV'D	AMOUNTS	CREDIT	TERMS	<31	31-60	61-90	91+
	Ħ	\$	\$	*	ጜ	*	*	\$
Total in D&B's file	15	63,700	15,000	)				
Top 10 Industrie <mark>s:</mark>								
1 Whol computers/softw		17,500	7,500		14	-	-	-
2 Short-trm busn dredi 3 Air courier service	t 2 2	30,000 5,050	15,000 5,000		-	-	_	-
4 Ret building materia	11	1,000	1,000	) 100	-	-	-	-
5 Misc publishing	1 + 1	1,000 1,000	1,000			-	-	-
6 Arrange cargo transp 7 Mfg computers	с і 1	250	250		-	-	-	-
8 Trucking non-local	1	250	250	100	-	-	-	-
9 Whol electrical equi	p 1	100	100		-	-	-	•••
10 Ret mail-order house	Ţ	50	50	) 100		-	-	~~~
Other Payment Categorie	s:							
Cash experiences	0	0	(	)				
Payment record Unknown	1 0	7,500	7,500	)				
Unfavorable comments	D	0	(	)				
Placed for collection with D&B	0	0						

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For: Tom Bailey West Virginia American Water C

November 6, 1995 1:46 pm

**PAYMENT SUMMARY** (continued)

other	0	N/A		
 The highest "Now Owes" The highest "Past Due"				
 D&B receives over 220 new and updated experi	million pay ences into	ment experience D&B Reports as	es each year. We enter these this information is received.	

## PAYMENTS

Antic Disc Ppt	<ul> <li>Anticipated</li> <li>Discounted</li> <li>Prompt</li> </ul>		ceived wi	thin tra	de discount p	
REPORTED	P AYI NG RE CORD	HIGH CREDIT	NOW OWES	P AST DUE	SELLING TERMS	LAST SALE WITHIN
1C/95 09/95	Ppt Ppt Ppt Ppt Ppt Ppt Ppt Ppt Slow 30 (011) First sale.	250 15000 15000 7500 7500 1000 1000 1000	-0- 10000 -0- 7500 1000 250 50 50 7500	- 0- - 0- - 0- - 0- - 0- - 0- - 0- - 0-	N30 N30 1 10 Prox N30 N30	6-12 Mos 1 Mo 6-12 Mos 1 Mo 1 Mo 1 Mo 1 Mo 1 Mo 1 Mo 1 Mo 1 Mo
08/95	Ppt Ppt	5000 250	2500 -0-	-0- -0-	N15 N7	1 Mo 6-12 Mos
07750	Ppt	50	-0-	-0-	N30	2-3 Mos
06/95	Ppt	50	-0-	-0-		5-12 Mos
	terms granted result of dis * Each exp	. In some in putes over me erience shown	stances p rchandise represe	bayment b e, skippe its a sep	are met in re eyond terms c d invoices et arate account e those previ	an be the c. reported by a

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D&B Business Information Report ORG	DAM SYSTEMS INC	16 of 76	Page 5 of 9
For: Tom Bailey West Virginia American Wat			November 6, 1995 1:46 pm
1			
FINANCE			
05/15/95	Fiscal	Fiscal	Fiscal
	ec 31 1992 1,675,624	Dec 31 1993 2,514,999	Dec 31 1994 2,306,785
	1,130,914	2,159,799	1,819,471
Current Ratio	1.48 544,710	1.16	1.26
Working Capital Other Assets	544,710 314,529	355,200 500,806	487,314 933,561
L T Liabilities	0	0	70,460
Worth	859,239	856,006	1,350,415
Sales Net Income	8,129,303 656,670	9,515,950 367,723	12,062,492 1,167,022
Fiscal statement	dated DEC 31	1994:	
Cash \$	577,098	Accts Pay	\$ 595,006
Accts Rec Inventory	34,197	Notes Pay Accruals	547,199 628,844
Advances To		L.T. Liab-(1yr)	48, 422
Employees Prepaid	64,543 7,792		
		Curr Liabs	1,819,471
Fixt & Equip Research &	487,865	L.T. Liab-Other COMMON STOCK	70,460 20,000
	445, 696	RETAINED EARNINGS	
Total Assets	3 240 346	Total	3, 240, 346
From JAN 01 1994	to DEC 31 199	14 sales \$12,062,49	2; cost of goods
sold \$9,068,066. Gros	s profit \$2,9	194,426; operating	expenses
\$1,846,016. Operating \$34,167; other expense	ncome \$1,14 s \$15,555. N	8,410; otner incom let income \$1,167.0	1e 122-
Submitted by Suza	nne Cramer, c	controller. Prepar	ed from
statement(s) by Account			
indicates the financia		<pre>/ of the accountant meet generally acc</pre>	
principles and that th	e audit conta	ins no qualificati	
	0-	- ==	
		EET EXPLANATIONS .	
L T Liabilities:	due to bank	secured by equipme ÆNT EXPLANATIONS .	ent.
Other Income: in			*****
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On MAY 11 1995 Su information.	zanne Cramer,	controller, defer	red all
•		T COMMENTS	
		lities are 1.21 to	
1994. The median for Liquid assets to curre	ent liabilitie	es were .82 to 1 as	of Dec 31 1993.
Total liabilities	to worth are	: 139% as of Dec 31	1994. The
median for this indust to worth are 252% as o			lotal liabilitiés
	U DEC JI 1993	J•	

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For: Tom Bailey West Virginia American Water C November 6, 1995 1:46 pm

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COLLATERAL:	All Inventory including proceeds and products - All According proceeds and products - All General intangible including proceeds and products - All Contract rights in proceeds and products	es(s)	
FILING NO: TYPE: SEC. PARTY: DEBTOR:	R71988 DATE FILED: Original LATEST INFO RECEIVED: WESTERN BANK, BEND, OR FILED WITH: SECRETARY ORCOM SYSTEMS INC STATE/UCC OR	09/10/1993 10/04/1993 OF DIVISION,	
FILING NO: TYPE: SEC. PARTY:	: Specified Account(s) including proceeds and products - S General intangibles(s) including proceeds and products Contract rights including proceeds and products R29563 DATE FILED: Original LATEST INFO RECEIVED: : WESTERN BANK, BEND, OR FILED WITH: SECRETARY ORCOM SYSTEMS INC STATE/UCC	- Specified 10/22/1992 11/12/1992 0F	
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TYPE: SEC. PARTY: DEBTOR:	Original LATEST INFO RECEIVED: : WESTERN BANK, BEND, OR FILED WITH: SECRETARY	05/03/1994	
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For: Tom Bailey West Virginia American Water C

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PUBLIC	FILINGS	(continued)

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	Continuation IBM CREDIT CORPORATION, SAN RAMON, CA	DATE FILED: 08/25/1993 LATEST INFO RECEIVED: 10/04/1993 ORIG. UCC FILED: 01/09/1989 ORIG. FILING NO: N07075 FILED WITH: SECRETARY OF STATE/UCC DIVISION, OR
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## HISTORY

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STEVEN GERLICHER, CHB+ MARILYN BEEM, PRES ANDREW CHILD, EXEC V PRES- CHRISTIAN WEBER, EXEC V PRES OPERATIONS PAUL COLBURN, V PRES-PRODUCT
DEVELOPMENT DIRECTOR(S): The officers identified by (+) and Robert Chalfin.
CORPORATE AND BUSINESS REGISTRATIONS REPORTED BY THE SECRETARY OF STATE OR OTHER OFFICIAL SOURCE AS OF 10/24/1995:
BUSINESS TYPE: Corporation - DATE INCORPORATED: 08/24/1983 Profit STATE OF INCORP: Oregon
Business started 1974 by the officers. 100% of capital stock is owned by Steven Gerlicher. STEVEN GERLICHER born 1947. 1968-74 self-employed under own name as a computer and computer software distributor, Seattle, WA; discontinued with record clear and all debts paid. 1974 to present active here. MARILYN BEEM born 1945. 1968-78 accounting, Burton Division of Cavitron, Van Nuys, CA. 1978 to present here. ANDREW CHILD born 1958. 1980 graduated from University of Richmond with BS and BA. 1987 graduated from Portland State University with a MBA. 1980-87 regional manager, W & O Supply Inc, Portland, OR. 1987 to present here.

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## D&B Business Information Report ORCOM SYSTEMS INC

Page 8 of 9

For: Tom Bailey West Virginia American Water C November 6, 1995 1:46 pm

## HISTORY (continued)

CHRISTIAN WEBER born 1948. 1970 graduated from Oregon Institute of Technology. 1970-73 assistant manager, F W Woolworth, Fairbanks, AK. 1973-77 owner, Holly Main Licquors, El Segundo, CA; sold, all debts ppid. 1977-83 owner, Plants Galore, Bend, OR; sold, all debt paid. 1980-83 assistant manager, Copeland Lumber, Bend, OR. 1983 to present here. PAUL COLBURN born 1959. 1982 graduated from Eastern Washington University with a BA in business administration. 1980-87 chief accountant, PUD of Pend Oreille County, Newport, WA. 1987-90 finance

University with a BA in business administration. 1980-87 chief accountant, PUD of Pend Oreille County, Newport, WA. 1987-90 finance officer, Truckee Donner PUD, Truckee, CA. 1990-91 office manager, NAC Corporation, Bend, OR. 1990 to present here. ROBERT CHALFIN. not active here. Active with The Chalfin Group

Inc, New Jersey.

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OPERATI ON

08/11/95 This business provides business oriented computer software services (70%), and wholesdles computers and computer peripherals (30%). Terms are net upon receipt of invoice. Has 150 account(s). Sells to utility companies. Territory : Worldwide. Nonseasonal. EMPLOYEES: 127 which includes officer(s). FACILITIES: Leases 15,000 sq. ft. in a two story frame building in good condition. Premises neat. LOCATION: Industrial section on side street. 11-06(192 /892) 00000 057057057

-- END OF REPORT --

D&B Business Info	rmation Report	ORCOM	SYSTEMS	INC
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Page 9 of 9

For: Tom Bailey West Virginia American Water C November 6, 1995 1:46 pm

## A GUIDE TO UNDERSTANDING D&B RATINGS AND PAYDEX

D&B RATING KEY - ONE OF THREE RATINGS WILL BE DISPLAYED

1. CAPITAL AND CREDIT- An overall appraisal of a company's size and credit worthiness as assigned by a D&B Analyst.

Rating Classification

(bas	ed on financial statement)	(based on employees)
`5A	\$50,000,000 and over	1R 10 or more employees
4A	\$10,000,000 to \$49,999,999	2R less than 10 employees
ЗA	\$1,000,000 to \$9,999,999	. •
2A	\$750,000 to \$999,999	Composite Credit Appraisal
1 A	\$500,000 to \$749,999	1 = High $2 = Good$
BA	\$300,000 to \$499,999	3 = Fair $4 = Limited$
88	\$200,000 to \$299,999	
CB	\$125,000 to \$199,999	Note: Capital and Credit Ratings consist of two
CC	\$75,000 to \$124,999	parts. The first two characters (i.e. '3A' or '1R')
DC	\$50,000 to \$74,999	are an indication of company size based on a current financial statement (Fiscal or Interim) or
DD	\$35,000 to \$49,999	the number of employees (if current financial
EE	\$20,000 to \$34,999	information is not in file). The third character
FF	\$10,000 to \$19,999	is the Composite Credit Appraisal: an assessment of
GG	\$5,000 to \$9,999	creditworthiness based on key credit information
HH	up to \$4,999	including payment activity, years in business and public filings.
	• • •	public trings.

2. EMPLOYEE RANGE DESIGNATION- A designation, based on number of employees, which is assigned to firms in particular lines of business for which D&B does not provide a Capital and Credit Rating (e.g. banks, insurance companies).

Rating	<pre># of Employees</pre>	Rating	<pre># of Employees</pre>
ER1	1,000 or more	ER5	20 to 49
ER2	500 to 999	ER6	10 to 19
ER3	100 to 499	ER7	5 to 9
ER4	50 to 99	ER8	1 to 4
		ERN	Not Available

3. -- (THE BLANK SYMBOL) Should not be interpreted as indicating that credit should be denied. It simply means that the information available to D&B does not permit us to classify the company with our rating key and that further inquiry should be made before reaching a credit decision.

## KEY TO DAB PAYDEX TH

The Dun & Bradstreet Paydex is a dollar-weighted numerical score that gives you an overview of a company's payment habits as reported to D&B. The larger the debt, the more it influences the composite Paydex score.

Paydex	Payment Pattern	Paydex	Payment Pattern
100 90	Anticipates	50	Slow to 30 days
90	Discount	40	Slow to 60 days
80 <sup>°</sup>	Prompt	30	Slow to 90 days
70	Slow to 15 days	20	Slow to 120 days
		UN	Unavailable Information

## J.D. Edwards

## **Dun & Bradstreet**

**Business Information Report** 

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# Business Information Report<sup>™</sup>

Page 2 of 12

For:	Bailey	American	Wator	c	
			naler	<b>L</b> .	

November 6, 1995 2:09 pm

## BUSINESS SUMMARY

J.D. EDHARDS & COMPANY (INC)	DUNS: 08-534-9982	RATING	4A2
8055 E TUFTS AVE STE 1331 AND BRANCH(ES) OR DIVISION(S) DENVER CO 80237 TEL: 303 488-4000	FINÁNCIAL AND BUSINESS APPLICATION COMPUTER SOFTWARE SIC NO. 7372	STARTED SALES F WORTH F EMPLOYS HISTORY	1977 \$240,587,000 \$33,964,000 1731(685 HERE) CLEAR
CHIEF EXECUTIVE: C EDWARD MC VA	NEY, CHB-PRES		

### CUSTONER SERVICE

If you need any additional information, would like a credit recommendation, or have any questions, please call our Customer Service Center at (800) 234-3867 from anywhere within the U.S. From outside the U.S., please call your local D&B office.

#### SUMMARY ANALYSIS

3

The Summary Analysis section reflects information in D&B's file as of November 6, 1995.

RATING SUMMARY . . .

The "4A" portion of the Rating (the Rating Classification) indicates that the company has a worth from \$10 million to \$50 million. The "2" on the right (Composite Credit Appraisal) indicates an overall "good" credit appraisal. This credit appraisal was assigned because of D&B's assessment of the company's financial ratios and its business experience.

Below is an overview of the company's D&B Rating(s) since 01/01/91:

RATING	DATE APPLIED
4A2	10/12/94
4A3	06/20/91
4A2	04/13/91
3A2	01/01/91

D&B Business Information	Report J.C	. Edwards & co	₽ANY			Р	age 3 c	f 12
For: Tom Balley West Virgin a Ame	lcan Wat	er C			ا	lovemb		1995 9 pm
PAYMENT SUMMARY			1.1.1.1.1					
The Payment Summary set the date of this report		lects payment	informati	on in	D&B'	s file	e as o	f
וד	ne PAYDEX	for this com	pany is 63	•				
This PAYDEX score indi terms, weighted by dol approximately 755 of t	lar amoun	ts. When dol	lar amount	s are	not	20 days consid	s beyon dered,	nd
Below is an overview o its suppliers' primary	f the com industri	pany's dollar es:	-weighted	paymeı	nts,	segmei	nted b	y
	TOTAL RCV' D	TÓTAL DOLLAR AMOUNTS	LARGEST HIGH CREDIT	な W/IN TERMS	<31	DAYS 3 31-60		91+
	 #	,	\$		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			2
Total in D&B's file	99	705,700	100,000					
Top 10 Industries:								
1 Air courier service 2 Help supply service 3 MFg photograph equil 4 MFg computers 5 Whol computers/soft 5 Whol office supplies 7 Management consultin 8 Nonclassified 9 Arrange cargo trans 10 Newspaper-print/pub	5 5 7 5 5 5 1 9 4 2 5 1 2 5	123,200 14,300 283,500 120,100 32,500 10,300 8,400 27,500 7,750 20,000	50,000 10,000 20,000 30,000 5,000 7,500 25,000 7,500 20,000	100 65 76 55 100 100	35	- 38 93 24 - -	<b>→</b>	43 1 1 1 1 1
11 OTHER INDUSTRIES	46	57,550	7,500	80	19	1	~	~
Other Payment Categori	35:							
Cash experiences Payment record unknown Unfavorable comments Placed for collection with D&B	0 0	0 600 0	0 500 0	ĺ				
other The highest "Now Owes" The highest "Past Due" Dun & Bradstreet has 9	on file	is \$7,500	in its fil	e for	thi	s comp	anv.	For
your convenience, we he PAYMENTS section.							•	

KAW\_R\_AGDR1#64d\_Part2\_Supplemental\_062507 Page 54 of 76

	ł	1	Page 54	of 76		
D&B Busin	ess Information	Report <i>J.D. E</i>	DHARDS & CO	HPANY		Page 4 of 1
For: Tom West	Bailey t Virginia Ame	rlan Water	С			November 6, 199 2:09 pi
PAYMENTS						
Antic Disc Ppt	<ul> <li>Anticipated</li> <li>Discounted</li> <li>Prompt</li> </ul>	(Payments r (Payments r (Payments r	eceived w	ithin tra	de discour	nt period)
REPORTED	PAYING RECORD	HIGH CREDIT	NOW OWES	PAST DUE	SELLING TERMS	LAST SAL WITHIN
10/95	Ppt Ppt Ppt Ppt Ppt so Ppt so Ppt so Ppt so Ppt Ppt Ppt Ppt Ppt Ppt Ppt Ppt Ppt Ppt	$\begin{array}{c} 7500\\ 5000\\ 1000\\ 1000\\ 2500\\ 100\\ 2500\\ 100000\\ 50000\\ 25000\\ 25000\\ 15000\\ 25000\\ 5000\\ 5000\\ 5000\\ 2500\\ 2500\\ 2500\\ 2500\\ 2500\\ 2500\\ 2500\\ 2500\\ 2500\\ 2500\\ 250\\ 25$	$\begin{array}{c} -0-\\ -0-\\ 1000\\ 1000\\ -0-\\ 100\\ -0-\\ 50000\\ 35000\\ 2500\\ 15000\\ 2500\\ 15000\\ 2500\\ 1000\\ 2500\\ -0-\\ 2500\\ -0-\\ -0-\\ -0-\\ 500\\ 1000\\ 500\\ 500\\ 250\\ 250\\ 250\\ 250\\ 250\\ $		N30 N30 N30 N30 N30 N30 N30 N30 N30 N30	1 Mo 6-12 Mos 1 Mo 1 Mo 6-12 Mos 1 Mo 6-12 Mos 2-3 Mos 1 Mo 1 Mo 1 Mo 2-3 Mos 6-12 Mos 1 Mo 1
	Ppt Ppt Ppt Ppt Ppt Ppt	100 100 100 100 100	-0- -0- 50 50 50	-0- -0- -0- -0- -0-	N30 N30 N30 N30	1 Mo 4-5 Mos 1 Mo 1 Mo
	Ppt Ppt Ppt Ppt Ppt-Slow 15 Ppt-Slow 30	100 50 50 50 50 2500 5000	-0- -0- 50 -0- 1000 5000	-0- -0- -0- -0- -0- -0-	N30	4-5 Mos 6-12 Mos 6-12 Mos 4-5 Mos 1 Mo 1 Mo
	Ppt-Slow 30 Ppt-Slow 30 Ppt-Slow 30	1000	-0- -0-	-0- -0-		4-5 Mos 1 Mo

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## Page 55 of 76 D&B Business Information Report J.D. EDWARDS & COMPANY

Page 5 of 12

For:	Tom Bailey West Virginia Ameri	can Water	С			November 6, 1995 2:09 pm
PAYME	NTS (continued)					
	Ppt-Slow 30	1000	250			4-5 Mos
	Ppt-Slow 30	100	-0-	-0-		6-12 Mos
	Ppt-Slow 30	100	50	50	Nac	1 Mo
	Ppt-Slow 30	50	50	50	N30	1 Ma
	Ppt-Slow 60	250 250	-0-	-0-	N30	2-3 Mos
	Ppt-Slow 60 Ppt-Slow 90	250	100 -0-	50 -0-	N30	1 Mo 1 Mo
	Ppt-Slow 120	2500	1000	-0-	1100	2-3 Mos
	Slow 30	100000	100000			2-3 Mos
	Slow 30	2500	-0	-0-	N30	4-5 Mos
	Slow 30	2500	- Õ-	-ū-	N30	2-3 Mos
	Slow 30	50	-0-	-0-	N30	2-3 Mos
	Slow 60	30000	250	250	N30	4-5 Mos
	Slow 60	5000	5000	5000		
	Slaw 60	2500	2500	250	N30	
	Slow 30-120	25000	7500	-0-	N30	1 Mo
00100	Slow 120	50	-0-	0	kie e	6-12 Mos
08/95		2500	2500	-0- -0-	N15 N15	1 Mo
	Ppt	2500 2500	1000 -0-	-0-	NIS N30	1 Mo 5-12 Mos
	Ppt Ppt	1000	-0-	-0-	N30 N30	6-12 Mos
	Ppt	,500	-0-	-0-	nuu	6-12 Mos
	Ppt-Slow 30	7500	5000	2500	N15	1 Mo
	Ppt-Slow 90	250	-Ū-	-0-		4-5 Mos
	Slow 30	500	500	500	N30	1 Mo
07/95		250	-0-	-0-	NBO	2-3 Mos
	Ppt	100	-0-	-0-	N30	6-12 Mos
	Pat	50	-0-	-0-	N30	5-12 Mos
	Ppt-Slow 30	10000	-0-	-0-	N30	1 Mo
06/95	Slow 60	100 10000	-0-	-0-	N30	4-5 Mos 4-5 Mos
00/90	Ppt Ppt	750	100			2-3 Mos
	Ppt	250	-0-	•		2-3 Mos
	SIOW 60	100	-0-			
03/95		50	50	-0-		1 Mo
02/95	Pot	50	-0-	- Ö-		5-12 Mos
. –	'* Payment ex	(periènces	reflect h	ow bills	are met	t in relation to the
	terms granted. result of dispu	In some i	nstances	payment l	beyond 1	terms can be the
						account reported by a
						previously
	reported.			• "		· •

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		Payed	00 01 7 0	
D&B Busine	ess Information Report	t J.D. EDHARDS & CO	MPANY	Page 6 of 12
For: Tom Wes	Bailey t Virginia American	Water C		November 6, 1995 2:09 pm
FINANCE			•	
03/28/95	Curr Assets Curr Liabs Current Ratio Working Capital Other Assets L T Liabs Worth Sales Net Profit (Loss) Fiscal statem Cash Accts Rec Deferred Income Tax Prepaid Other Curr Assets	Fiscal Dec 31 1992 60,524,169 56,418,997 1.07 4,105,172 21,728,023 13,252,584 12,580,611 170,480,072 ent dated OCT 31 \$ 28,615,000 62,993,000 4,609,000 6,107,000 773,000	Fiscal Oct 31 1993 67,070,774 59,361,671 1.12 7,709,103 28,230,108 15,926,774 20,012,437 197,901,059 9,123,794 1994: Accts Pay Unearned Revenue Accruals Taxes	Fiscal Oct 31 1994 103,097,000 86,021,000 1.19 17,076,000 32,612,000 15,724,000 33,964,000 240,587,000 12,368,000 \$ 18,306,000 \$ 18,306,000 \$ 18,306,000 \$ 5,409,000
	Curr Assets Fixt & Equip Software Development Costs Deposits Total Assets From NOV 01 1 sold \$222,412,000. \$104,000; net inco \$5,703,000. Net i	103,097,000 17,148,000 13,288,000 2,176,000 135,709,000 993 to 0CT 31 199 Gross profit \$1 me before taxes \$ ncome \$12,368,000 eived by mail MAR	03 1995. Extent o	13,000 6,431,000 (1,102,000) 27,155,000 (533,000) 135,709,000 135,709,000 00; cost of goods expenses income tax
			1,815,000 depreciat redit manager, refe	

PUBLIC FILINGS

The following data is for information purposes only and is not the official record. Certified copies can only be obtained from the official source.

	* * * UCC FILING(S) * * *	
FILING NO: 912030525	DATE FILED:	04/25/1991

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D&B Business Information	rt J.D. EDHARDS & COMPANY	Page 7 of 12
For: Tom Bailey West Virginia Ameri	can Water C	November 6, 1995 2:09 pm

## **PUBLIC FILINGS** (continued)

	ia (concrined)	·······
TYPE: SEC. PARTY: DEBTOR:	Continuation FIRST INTERSTATE BANK NA, DENVER CO J D EDWARDS & CO	LATEST INFO RECEIVED: 05/17/1991 ORIG. UCC FILED: 08/15/1986 ORIG. FILING NO: 872918492 FILED WITH: SECRETARY OF STATE/UCC DIVISION, CO
FILING NO: TYPE: SEC. PARTY: ASSIGNEE:	CO FIRST INTERSTATE BANK OF DENVER,	DATE FILED: 03/28/1995 LATEST INFO RECEIVED: 05/09/1995 ORIG. UCC FILED: 08/15/1986 ORIG. FILING NO: 872918492 FILED WITH: SECRETARY OF
FILING NO: TYPE: SEC. PARTY: ASSIGNEE:	Assignment FIRST INTERSTATE BANK OF, DENVER CO FIRST INTERSTATE BANK OF DENVER, DENVER, CO	DATE FILED: 03/28/1995 LATEST INFO RECEIVED: 03/09/1995 ORIG. UCC FILED: 08/15/1986 ORIG. FILING NO: 8/2918492 FILED WITH: SECRETARY OF
SEC. PARTY:	Specified Proceeds - Specified Co 91122710 Original IBM CREDIT CORP, STAMFORD, CT JD EDWARDS & CO, HOUSTON, TX	FILED WITH: SECRETARY OF
COLLATERAL: FILING NO: TYPE: SEC. PARTY: DEBTOR:	XERŎX CORP, DALLAS, TX Edwards, jd & co, atlanta, ga	siness machinery/equipment DATE FILED: 03/13/1991 LATEST INFO RECEIVED: 04/17/1991 FILED WITH: FULTON COUNTY SUPERIOR COURT, GA
COLLATERAL: FILING NO: TYPE:	Leased Proceeds - Leased Computer	equipment DATE FILED: 02/20/1991 LATEST INFO RECEIVED: 04/02/1991
FILING NO: TYPE: SEC. PARTY: ASSIGNEE: DEBTOR:		DATE FILED: 05/13/1991 LATEST INFO RECEIVED: 06/24/1991 ORIG. UCC FILED: 02/20/1991 ORIG. FILING NO: 910230011 FILED WITH: SECRETARY OF THE COMMONWEALTH/UCC DIVISION, VA

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Level 1

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D&B Bustness	Page 58 Information t.J.D. EDWARDS & COMP		Р	age 8 of 12
For: Tom Ba West V	lley Irginia American Water C	алатан Кр <sub>ант</sub> , і Аснатальноськи	Novemb	er 6, 1995 2:09 pm
PUBLIC FILI	YGS (continued)			
FILING NO: TYPE: SEC. PARTY: DEBTOR:	Original XL/DATACOMP INC, HINSDALE, IL EDWARDS, J D & CO, ATLANTA, GA	DATE FILED: LATEST INFO FILED WITH:	RECEIVED: 0 COBB COUNTY COURT, GA	03/04/1991 SUPERIOR
SEC. PARTY: DEBTOR:	Leased Proceeds - Leased Computer 1375010 Original XL/DATACOMP INC, HINSDALE, IL EDWARDS, J D & CO, EAST RUTHERFORD, NJ	FILED WITH:	RECEIVED: SECRETARY OI STATE/UCC DI NJ	: : :
FILING NO:	Original CITICORP LEASING INC, HARRISON, 'NY JD EDWARDS & CO, MILWAUKEE, WI and OTHERS	DATE FILED: LATEST INFO FILED WITH:	RECEIVED: ( SECRETARY O STATE/UCC D WI	06/13/1994 08/12/1994 -
FILING NO: TYPE: ASSIGNEE: DEBTOR:	Assignment CITICORP LEASING INC, HARRISON,	DATE FILED: LATEST INFO ORIG. UCC FI ORIG. FILING FILED WITH:	( RECEIVED: ( LED: 06/13/1 NO: 143554	08/12/1994 1994 5
FILING ND: TYPE:	Specified Computer equipment inclu Specified Machinery including proc Equipment including proceeds and p 932065046 Original IEM CREDIT CORPORATION, STAMFORD CT J D EDWARDS & COMPANY	ceeds and pro products DATE FILED: LATEST INFO FILED WITH:	ducts - Sper RECEIVED:	cified 09/07/1993 09/14/1993 F
FILING NO: TYPE:	Specified Computer equipment inclu Specified Equipment including prod 1264119 Original XL/DATACOMP INC, HINSDALE, IL J D EDWARDS AND CO, MILWAUKEE, WI	ceeds and pro DATE FILED: LATEST INFO FILED WITH:	ducts RECEIVED:	03/11/1992 04/09/1992 F
FILING NO: TYPE:	Leased Computer equipment includin 1171342 Original XL/DATACOMP INC, HINSDALE, IL J D EDWARDS & CO, MILWAUKEE, WI	DATE FILED: LATEST INFO FILED WITH:	RECEIVED:	12/26/1990 05/08/1991 F

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D&B Business Information Rer	. J. D. EDHARDS & COMPANY	Page 9 of 12
For: Tom Bailey West Virginia America	ın Water C	November 6, 1995 2:09 pm

#### **PUBLIC FILINGS** (continued)

		WI	
TYPE: SEC. PARTY:	1184276 Assignment XL/DATACOMP INC, HINSDALE, IL CIRCLE BUSINESS CREDIT INC, INDIANAPOLIS, IN J D EDWARDS & CO, MILWAUKEE, WI	FILED WITH: SECRETARY	04/30/1991 5/1990 342
Th av	ere are additional UCC's in D&B's ailable by contacting 1-800-DNB-D	file on this company IAL.	
pa pa	e public record items contained i id, terminated, vacated or releas port was printed.		

#### BANKING

09/95

Account(s) averages low 4 figures. Account open under 1 year.

#### HISTORY

03/28/95 C EDWARD MC VANEY, CHB-PRES JACK L THOMPSON, V PRES ROBERT C NEWMAN, V PRES RICHARD E ALLEN. V PRES-FIN-TREAS-ASST-SEC RICK SNOW, SEC-GEN COUNSEL DIRECTOR(S): THE OFFICER(S) Business started Mar 1977. 96% of capital stock is owned by officers and employees. 4% of capital stock is owned by outside investors. No other employee other than the listed officers owns 10% or more of the capital stock. C EDWARD MC VANEY born 1940. 1958-62 University of Nebraska, Lincoln, NE, student. 1962-64 Rutgers University, New Brunswick, NJ, Masters. 1964-70 Peat Marwick & Mitchell & Co, Denver, CO. 1970-77 Alexander Grant & Co. Denver, CO, CPA. 1977 to present active here daily and continues. JACK L THOMPSON born 1949. 1967-70 Montana State University. Missoula, MT, student. 1970-71 Billings Business College, Billings, MT, student. 1971-72 Humble Oil Co, Cutbank, Montana, computer operator-programmer. 1972-75 Trans Western Life Insurance Co, Billings, MT, manager. 1975-76 National Farmers Union, Denver, CO, programmer analyst. 1976-77 Alexander Grant & Co, Denver, CO, consultant. 1977 to present active here daily and continues. ROBERT C NEWMAN born 1941. 1958-62 University of California, Berkeley, CA, student. 1962-64 UCLA, Los Angeles, CA, Masters.

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D&B Business Information _ fort J.D. EDI	RDS & COMPANY Page 10 of 12
For: Tom Bailey	November 6, 1995
West Virginia American Water C	2:09 pm

#### HISTORY (continued)

1964-73 North American Co, Phoenix, AZ, industrial engineer. 1973-77 Haskins & Sells, Denver, CO, management. 1977-78 Newman Markum Associates, Denver, CO. 1978 to present active here daily and continues. RICHARD E ALLEN born 1957. Graduated in 1979 from Colorado State University, Fort Collins, CO. 1979-81 employed by Coopers & Lybrand. Denver, CO. 1981-85 employed by Luff Exploration Corp, Denver, CO. 1985 to present active here. JAN ZAPAPAS born 1955. 1990 to present active here. 1986-90 employed by Fischer Imaging Corporation, Denver, CO. 1985-86 employed by Skyswitch Communications Co, Denver, CO. 1977-85 employed by Arthur Andersen, Denver, CO. Graduated from Purdue University, Lafayette, IN in 1977 with a BS in Industrial Engineering. RICK SNOW born 1945. Active here since 1988. 1984-88 employed by Global Software, Raleigh, NC as corporate counsel. 1977-84 employed by Storage Technology, Louisville, CO as corporate counsel. 1973-77 employed by Time Share, Inc, Cupertino, CA as assistant corporate counsel. 1970-73 employed by Memorex Corporation, Santa Clara, CA as assistant corporate counsel. 1966-70 attended California Western University, San Diego, CA graduating with a JD degree. Graduated in 1966 from the University of California, Berkeley, CA with a BS degree.

OPERATION.

11

03/28/95	<pre>application software for mid-range computers (100%). Service terms are net 30 days and original installations require a down-payment with a portion on delivery and the balance in accordance with the terms of the contract. Has 2,500 account(s). Sells to commercial concerns, distributors and end users. Territory : International; 26% of annual sales on international basis. International terms are the same as domestic terms. The business experiences a sales peak in December and June; steady the rest of the year. Some or all of the operations at this location have been registered to the international quality system standardISO 9001. EMPLOYEES: 1731 which includes officer(s). 685 employed here, FACILITIES: Leases 100,000 sq. ft. in fourteen story steel and glass building. Premises neat. The business occupies the 6th, 7th, 8th, 9th, 11th, 12th, 13th and 14th floors of the building. LOCATION: Suburban business section on main street. BRANCHES: The company maintains branch operations in the following countries and cities. Operations and name are the same as headquarters. INTERNATIONAL OFFICES Belgium, Brussels;. London, England; Paris, France; Frankfurt, Germany; Milan, Italy; Tokyo, Japan, Singapore, Hong Kong and Sao Paulo.</pre>
	London, England; Paris, France; Frankfurt, Germany; Milan, Italy; Tokyo, Japan, Singapore, Hong Kong and Sao Paulo.
	BRANCH LOCATIONS
	Atlanta, Boston, Charlotte, Chicago, Cincinnati, Cleveland, Coral

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D&B Business Information Report J.D. EDWARDS & COMPANY       Page 11 of 12         For: Tom Bailey West Virginia American Water C       November 6, 1995 2:09 pm         OPERATION (continued)       Gables, Costa Mesa, Dallas, Detroit, Denver, fort Lauderdale, Houston, Miami Milwaukee Minneapolis, Montreal, New York, Norwalk, Philadelphia, Phoenix, Pittsburgh, Portland, Richmond, Sacramento, St Louis, San Francisco, Seattle, Tampa, Toronto, Washington D C and Vancouver.         GLOBAL ACTIVITY.       The following section is a global summary and is intended to assist D&B's non-U.S. customers when evaluating D&B reports on U.S. companies.         FAMILY TREE SUMMARY.         D&D's clobal linkare file cheve breaker for this company and leasted
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D&B's global linkage file shows branches for this company are located in England (1), France (1), Germany (1), Italy (1), Japan (1), Hong Kong (1), Canada (1).
IMPORT/EXPORT ACTIVITY.
Not Reported.
Based on information in our file, D&B has assigned this company an extended 8 digit SIC. D&B's use of 8 digit SICs enables us to be more specific to a company's operations than if we use the standard 4 digit code.
73729901 Business Application Software.
GLOBAL NEWSWORTHY EVENTS. None reported.
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### D&B Business Information Report J.D. EDHARDS & COMPANY

Page 12 of 12

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## November 6, 1995 2:09 pm

## A GUIDE TO UNDERSTANDING D&B RATINGS AND PAYDEX

DAB RATING KEY - ONE OF THREE RATINGS WILL BE DISPLAYED

1. CAPITAL AND CREDIT- An overall appraisal of a company's size and credit worthiness as assigned by a D&B Analyst.

Rating Classification

(based on financial statement)	(based on employees)
5A \$50,000,000 and over	1R 10 or more employees
4A \$10,000,000 to \$49,999,999 3A \$1,000,000 to \$9,999,999	2R less than 10 employees
2A \$750,000 to \$999,999	Composite Credit Appraisai
1A \$500,000 to \$749,999	1 = High $2 = Good$
BA \$300,000 to \$499,999	3 = Fair $4 = Limited$
BB \$200,000 to \$299,999	
CB \$125,000 to \$199,999	Note: Capital and Credit Ratings consist of two
CC \$75,000 to \$124,999	parts. The first two characters (i.e. '3A' or '1R')
DC \$50,000 to \$74,999	are an indication of company size based on a current financial statement (Fiscal or Interim) or
DD \$35,000 to \$49,999	the number of employees (if current financial
EE \$20,000 to \$34,999	information is not in file). The third character
EE \$20,000 to \$34,999 FF \$10,000 to \$19,999	is the Composite Credit Appraisal: an assessment of
GG \$5,000 to \$9,999	creditworthiness based on key credit information
KH up to \$4,999	including payment activity, years in business and public filings.
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2. EMPLOYEE RANGE DESIGNATION- A designation, based on number of employees, which is assigned to firms in particular lines of business for which D&B does not provide a Capital and Credit Rating (e.g. banks, insurance companies).

<u>Rating</u>	# of Employees	Rating	f of Employees
ER1	1,000 or more	ER5	20 to 49
ER2	500 to 999	ERG	10 to 19
ER3	100 to 499	ER7	5 to 9
ER4	50 to 99	ER8	1 to 4
		ERN	Not Available

3. -- (THE BLANK SYMBOL) Should not be interpreted as indicating that credit should be denied. It simply means that the information available to D&B does not permit us to classify the company with our rating key and that further inquiry should be made before reaching a credit decision.

## KEY TO DAB PAYDEX

The Dun & Bradstreet Paydex is a dollar-weighted numerical score that gives you an overview of a company's payment habits as reported to D&B. The larger the debt, the more it influences the composite Paydex score.

<u>Paydex</u>	Payment Pattern	Paydex	Payment Pattern
100	Antic pates	50	Slow to 30 days
90	Discount	40	Slow to 60 days
80	Prompt	30	Slow to 90 days
70	Slow to 15 days	20	Slow to 120 days
		UN	Unavailable Information

## CHARLES E. DAY AND ASSOCIATES

211 North Union Street, Suite 100, Alexandria, Virginia 22314, (703) 739-0446

Ms. Deborah P. Lippert Director Customer Relations PENNSYLVANIA - AMERICAN WATER COMPANY P.O. Box 1290 300 Galley Road McMurray, PA 15317

December 11, 1995

Re: AMERICAN WATER WORKS COMPANY, INC. (AWC) Automated Customer Information Application System Recommendations

Dear Debbie:

This report is a summary of results from the evaluation of responses received from the AMERICAN WATER WORKS COMPANY, INC. (AWC) Request for Proposal for an automated customer information application system. Information received during vendor meetings, product demonstrations, site visits, financial report reviews and proposers' strategic plans has been taken into account in developing a selection and related recommendations.

Recommendations are therefore based on a structured review of available services, product features, AWC's relationship and synergy with competing companies, compatibility with internal operating requirements, and overall reaction by AWC evaluation groups.

## EXECUTIVE OVERVIEW

The Customer Information Application System evaluation and planning effort was guided by the following objectives:

Determine the company and product(s) which will provide AWC with the most appropriate automated customer information application including operating features to completely replace the existing Electronic Data Information System, maximize the investment in existing computer hardware, acquire more productive automation features, position for integration and inclusion of new system capabilities and provide a basis for all AWC operating companies to sustain, improve, and extend business opportunities well into the 21st century.

## PENNSYLVANIA - AMERICAN WATER COMPANY December 11, 1995 Page Two

An additional specific objective was to allow for future interface with a new financial and accounting system also under review. It was also important to position AWC with a well-established supplier of automated systems which will work cooperatively with the different technical and administrative areas within AWC and one which fully understands the utility business and water utilities, in particular.

Based on these objectives, structured review of submittals by responding companies plus demonstrations, site visits and customer interviews, it is recommended that AWC proceed with internal approval and acquisition of the OrCom Systems customer information application and related automated features for use and extension of currently installed IBM AS/400 computer equipment. The recommendation to proceed to the next step with OrCom Systems is based on two important assumptions regarding AWC priorities compared to findings: 1) OrCom successfully demonstrated more upgraded features for immediate replacement of AWC's EDIS system, and (2) OrCom provides dedicated service to the utilities industry with more CIS packages installed at water utilities and is the only supplier with actual installation of an upgraded version of the new AS/400 Graphical User Interface software system.

These two assumptions are critically important to the selection recommendation since, if immediate replacement of the CIS portion of specified requirements is <u>not</u> the top priority for AWC, then the recommended solution(s) and company would also be different. Each proposet has unique strengths and advantages over competitors from company financials, impressiveness of officers and organization culture, vigilance in strategic planning, accessibility, relationship to additional suppliers and overall responsiveness to other call center and field automation capabilities.

In particular, J.D. Edwards runs second in this evaluation only because of the lack of water utility experience and not having a CIS package already installed and fully converted to meet AWC's standards. The strategic thinking, migration plans, accessibility, company maturity and sophistication of J.D. Edwards, by example, far exceeds OrCom.

HTE, Inc., by comparison, was most responsive to total requirements documented by AWC and with costs developed more thoroughly. Their customer information system, however, did not demonstrate the latest IBM AS/400 software capabilities and most AWC employees attending the presentations left with an uncomfortable feeling of too much work left to be done with a company that appeared to be more grounded with municipalities as clients and was possibly too bureaucratic, lethargic and difficult to work with.

## **PENNSYLVANIA - AMERICAN WATER COMPANY** December 11, 1995 Page Three

The newly developed functionality provided by OrCom Systems includes a unique multidimensional rate table capability which is felt to be essential to various AWC operating areas. An existing installation at Southern California Water Company provided AWC with unique contact with a client organization which seemed satisfied with OrCom, the CIS application and technical support. An all day visit with a tour of the new customer inquiry center provided the evaluation team with a unique view of the OrCom system and a practical water utility application. We must remain aware however, that AWC differs in networking and Information System organization operating requirements due to the company's structure, number of locations and varies inunicipalities and PUC tariff areas served.

Caution is also being advised with this recommended selection decision due to OrCom's staff size, apparent financial limitations, under-developed future plans, moderately seasoned executive staff and the remoteness and laid back style of company headquarters in Bend, Oregon.

Functionality sought through OrCom Systems includes the following major application and sub-systems:

- Billing System
- Customer Inquiry
- Accounting Features
- Case Management
- Credit History
- Credit Collection
- Imaging Technology
- Managm't Reporting
- Meter Reading Sys

- Accounting System Interface
  - Cash Receipt Management
  - User Defined Screens
- Calculations/Conversions
- Rates and Rate Studies
- Computer Aided Dispatching
- Computer Telephone Integration
- Integrated Mapping System
- Service/Work Order Management

Other sections of this report and attachments provide added information about the requirements and features requested by AWC in its request for proposal (RFP) document issued to interested and qualified firms. The responding companies in this solicitation include:

- Augustine & Company Computer Associates Exton, PA
- HTE, Inc. Orlando, FL
- J.D. Edwards Denver, CO
- OrCom Systems Bend, OR
- Severn Trent Systems, Houston, TX

## **PENNSYLVANIA - AMERICAN WATER COMPANY** December 11, 1995 Page Four

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Following this executive overview is a list of related recommendations. Also included are an outline of the approach used in reaching a selection recommendation, a summary of finalist offerings, demonstration script, evaluation team comments and various category ratings.

Attachments also include a presentation on a "CASE Tool" presented by J.D. Edwards which automated the applications development process in a client server environment for greater productivity and economies of scale in work performed by information system departments; and a presentation by my firm on "Using Proven Technology To Automate Your Customer Service" in telephone call center environments. Both presentations are representative of automation goals, priorities and system aspirations for AWC.

## **RELATED RECOMMENDATIONS**

In addition to the recommendation for OrCom's Customer Information System software on upgraded IBM AS/400 processor equipment and eventually an all personal computer and client server networking environment, there are several related recommendations which should be considered with respect to finalizing the purchase decision and implementation planning. The recommendations listed below are felt to be important to the success of the automation effort and will have positive influence on efficiency gains and AWC's operation's profitability.

- <u>Finalizing Costs Proposal</u> The number of locations, optional configuration arrangements, application features, hardware expansion needs at each AWC site, and number of employees to be licensed for product usage will determine the final price of the OrCom system. A partnering agreement may help lower total costs, but negotiations and a final cost proposal submittal are an essential next step.
- <u>Organizational Implications</u> The new application development tools and networking capabilities of evaluated systems may give rise to additional options for information systems, operations and customer service call center organizations; it would be better to fashion equipment placement and networks around new and more effective organizations rather than compromising the logic of technical configurations and associated costs due to inappropriate organization structures.

## **PENNSYLVANIA - AMERICAN WATER COMPANY** December 11, 1995 Page Five

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- <u>Reference Interviews</u> Due to the limited time available to develop a selection recommendation, reference checks for OrCom and other finalist firms were not completed. Five to ten interviews by telephone are recommended prior to contract consummation; an updated Dun and Bradstreet financial check is also recommended to identify if any outstanding legal judgements exist.
- <u>Advanced Operating Features</u> Since much effort was spent by the evaluation team insuring that billing, customer inquiry, service/work order management and other currently provided functions, via EDIS, are included with any new system, a number of new applications remain uncommitted to for future development; new features, such as call center and computer telephone integration, imaging technology, and geographic information (mapping) system need commitment by both AWC and supplier to obtain fuller benefit of available technology.
- <u>Telephone Systems Review</u> From a survey of telephone systems inventory across AWC operating offices, there is a large variance in the type of telephone equipment and capabilities currently employed; a good portion of customer service operations and customer satisfaction will involve call center telephone systems; telephone PBX/ACD related equipment should be included in subsequent analyses for further complementary gains and compatibility with any new computer operations.
- <u>Financial Systems Selection</u> J.D. Edwards is understood to be a finalist firm in both the financial accounting system evaluation effort and the automated customer information application system review; care was taken <u>not</u> to base this project's selection recommendation on the benefits of fully integrating these important packages from a common vendor; however, a positive impression was left with this project's evaluation team regarding the financial systems capabilities of J.D. Edwards.
- <u>AWC As System Integrator</u> AWC's ability to participate and potentially partner with the selected vendor was an important consideration in the selection recommendation; as a method of further influencing system design and lowering costs, AWC should decide prior to negotiations on the desired role and level of participation; added time for final roll out of systems due to any partnering relationship should also be considered.

## **PENNSYLVANIA - AMERICAN WATER COMPANY** December 11, 1995 Page Six

• <u>Implementation Roll Out Strategy</u> - a strategy for implementing the automated customer information application needs to consider 1) the most effective starting location to fully test and accept all critical application functions, 2) AWC's technical and administrative support capabilities to better guarantee success, and 3) rotation of critical staffers and avoid loss of contact with day-to-day operations and adjustments which will undoubtedly occur during an implementation effort scheduled over several years. The implementation team should include representatives from the evaluation effort to insure clear communications on requirements specified and deliverables expected.

With the recommendations above it is believed that an effective contract negotiation and orderly system implementation will result. Surefooted project management and a broader view of total requirements will help insure enhanced service to customers, improved operating efficiency, and overall profitability to AWC.

## PROJECT APPROACH

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The recommendations herein are the results of a fairly structured project approach which identified AWC's customer information application operating requirements, documented those requirements and evaluated the top suppliers in the utilities industry who specialize in automated customer services systems. The following major tasks and steps were followed and accomplished in reaching the recommended selection decision.

Core Committee Requirements Review and Kick-Off Meeting	August 23
VA Call Center Visit and Ops Requm'ts	September 5
Regional AWC Reps & Eval Committee Mtg	September 6
Vendor Documentation Review and Proposer List Development	September 22
Expanded CIS Call Center Evaluation Criteria	September 28
Draft Requirements Overview Documentation	October 3
Regional Survey Within AWC Completed	October 4
Draft Request for Proposal to Core Committee	October 11

## **PENNSYLVANIA - AMERICAN WATER COMPANY** December 11, 1995 Page Seven

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Preliminary Vendor Information on Interest and Capabilities	October 26
Final Request for Proposal Document Completed	October 27
Core Committee Review Meeting and RFP Release to Vendors	October 30
AWC Executive Summary and Status Report	November 2
Vendors Demonstration and Interviews	November 1-3
Finalists and Short-List Review Completed	November 13
Site Visits and Executive Briefings by Committee November 28	- December 11
Recommendations Report Completed	December 11

Nine firms received the initial request for proposal document. In addition to the responding companies listed in the Executive Summary, no-responses were received from 1) Capital Data Systems - Cary, NC, 2) Electronic Data Systems - Atlanta, GA, 3) Information Management Associates - Shelton, CT, and 4) S P L World Group - Morristown, NJ. Site visits were taken with the two finalist firms, OrCom Systems and J.D. Edwards. AWC also received additional executive briefings at the corporate offices of these two firms.

Requirements and responses are listed in Attachments 1 - 4 with specific business functions, AWC comments, and vendor capabilities summary matrices.

## SUMMARY OF VENDOR PROPOSALS

Augustine & Company Computer Associates, Exton, PA - The formal RFP response and presentation prepared by this firm was inferior in quality, substance and lacked understanding of AWC's project scope. While the company has had experience in meter system interface sub-systems with AWC, the required experience, resources and CIS product knowledge were insufficiently demonstrated in comparison to other proposers.

The submittal by this firm was not considered further following the initial vendor presentation in early November. It is recommended, however, that

## PENNSYLVANIA - AMERICAN WATER COMPANY December 11, 1995 Page Eight

No.

this company be considered for other meter sub-system and field systems software development which may require outside assistance and fall within the range of Augustine's deliverables.

• <u>HTE, Inc., Orlando, FL</u> - Perhaps the most robust and complete response received to the written request for proposal was submitted by HTE, Inc. This company also had the largest number of attendees for the product demonstration and company interview meeting. Difficulty was encountered by this firm two areas: 1) the customer information system presented did not show a clear improvement over or full functional capability in replacing AWC's EDIS software system, and 2) answers to interview questions reflected a fairly rigidly developed and coded system and an unwillingness to partner with AWC to jointly fashion final design.

The introduction of fully developed call center technology using IBM's CallPath software, mobile meter data entry devices and geographic information system software stood out over other proposers; but, all of these features are also available to AWC to pursue separately with any other AS/400 vendor solution. HTE, Inc provided complete costing information to include project management, training, data migration, and customization development for a total cost of \$21.4 million. While expensive, this estimate is probably not far from the final cost of any other recommended system solution.

Finally, a Dun and Bradstreet financial report was requested on the top three finalists. HTE, Inc. is not rated, however, due to insufficient information in its application submitted several years ago. However, the company did come to its presentation session with it's capital investment firm representative. The \$200 million annual revenue was highest among finalist firms, but, represents a client base principally of large municipalities with many operating requirements unrelated to a water utility.

• J.D. Edwards, Denver, CO - This company has a well established organization and strategic plan to develop utility oriented automation systems as a key business product starting first with a customer information application. A workbench methodology for incorporating newer state of the art "windows

PENNSYLVANIA - AMERICAN WATER COMPANY December 11, 1995 Page Nine

> look and feel" software is being used. A gradual migration technique is being incorporated to allow cooperative use of lower cost computer terminal equipment, which AWC now uses, with newer PC equipment for more advanced windows and graphical user interface. A copy of the presentation from J.D. Edwards, under a non-disclosure agreement, in Attachment 5 exemplifies their technique in networking older system technology in the IBM AS/400 environment with a new CASE development tool kit.

> J.D. Edwards would be the recommended company and system solution if actual development and installation of customer information applications were more extensive. The company's financial applications are impressive and their top managers and officers appear to have the most seasoned approach in long-term business development and working relationships. There was concern expressed with the proprietary nature of software development tools which are typically standard product offerings in newer operating environments.

> The desire for partnering in development activities by this firm is an attractive feature and benefit to the proposed automation project process. The install of the CIS module at New Jersey Gas will help build user confidence in code existence and utility industry peculiarities, but, not as timely as the recommended system solution which will premiere its newer CIS system in January 1996. The direction, management and quality of financial accounting experience and packages were rated highest among the two finalist firms in the evaluation. If the final selection decision should be delayed a few months by AWC, it is recommended that the status of this firms' CIS development be re-visited in comparison to OrCom Systems.

• OrCom Systems, Bend, OR - This recommended system solution and firm separates itself from competitors by having 1) a total company focus on the utility industry, 2) an installed CIS application using newer "windows look and feel" software, and 3) plans for production development of more advanced graphical user software functionality by January 1996. The company also has an understanding of rate base calculation and multi-dimensional rate tables. The understanding of nuisances associated with water utilities billing and customer inquiry seems exceptional in comparison to other proposing firms.

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## PENNSYLVANIA - AMERICAN WATER COMPANY December 11, 1995 Page Ten

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The company is quite small, however, with less than 150 people and is located inconveniently in Bend, OR. The corporate office's laid back style is different compared to other companies considered. Senior manager and the executive staff seem to concentrate on tactically planning existing products and are reluctant to share long-range product or company plans - if they exist.

Field device input experience and an automated report generator package and statistical graphical display capabilities are complementary product features. Imaging technology is also a major spun off product line which may also be helpful in archiving original source documents for indefinite periods.

The next step to this evaluation will be to check references in greater detail, verify financial status again and negotiate more specific deliverables, roll out date within bounds of OrCom's limited resources.

Severn Trent Systems, Houston, TX - The automation subsidiary of a major utility company based in the United Kingdom is newer in its CIS application development planning than most proposers and without an actual application to demonstrate. The positive distinction, however, is that development of the CIS system will start in a client server and graphical user interface environment to which others are planning on transitioning. The Severn Trent Operational Resources Management System (STORMS) is also notable as a fully functional solution which provides operational control of work orders and related information.

In addition to the undeveloped nature of the CIS system, conversion to the planned system would be more impacting to current operations, costly in hardware and possibly more difficult to support. The pros and cons of the system and financial security of the provider are all outweighed by the fact that the AWC evaluation team seems more targeted for immediate gains in replacing EDIS system functions in a surefooted manner using existing IBM AS/400 as the hardware platform from which to migrate all new development. This being the case, Severn Trent's proposal is a few years ahead of its time and not now appropriate for AWC.

PENNSYLVANIA - AMERICAN WATER COMPANY December 11, 1995 Page Twelve

Many thanks to you, Dan Bickerton and Terry Carpenter and the entire evaluation team for your support in reaching this selection recommendation. It is with sincere hopes that information contained herein will aid AWC in proceeding to the next steps recommended and project implementation with great success. If I or my firm, Charles E. Day and Associates, can be of further assistance in contract negotiation and system implementation coordination on this project or related technology or administrative issues, please give me a call. I will also plan on keeping in touch with you. Thanks again for the opportunity to work with you and others at AMERICAN WATER COMPANY on this very important project engagement.

Sincerely,

Charles E. Day CMC Management Consultant

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Attachments

cc: Dan Bickerton Terry Carpenter

## **EVALUATION TEAM**

Core Committee

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Deborah Lippert, PA, Chairperson \* Dan Bickerton, W. VA \* Terry Carpenter, NJ \*

Regional Representatives

Tom Bailey, W. VA \* Rachel Bartley, TN Colleen Bromley, IL Coleman Bush, KY Jim Curley, NJ \* Carl Frey, CA Mario Gratta, NE Dave Jerpe, PA Melody McNeeley, IN \* John Moesta, PA Rick Pennay, PA Joe Pignio, NJ Gilbert Smith, IN \* Carl Sullivan, W. VA

Management Consultant

Charles Day, VA, CED&A \*

## ATTACHMENTS

- 1. Vendor Responses To The Capabilities Summary Matrix
- 2. Software Product Evaluation Summary and Demonstration Script
- 3. Evaluation Committee Comments From Vendor Demonstrations and Interviews
- 4. AWC Data Questionnaire Summary Sheet
- 5. Case Tool Model For Client/Server Application -J.D. Edwards
- 6. "Using Proven Technology to Automate Your

Customer Service" - Charles E. Day and

Associates

## PENNSYLVANIA - AMERICAN WATER COMPANY December 11, 1995 Page Eleven

### **EVALUATION RATING RESULTS**

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The following listing of the five proposing firms represents ratings with assumptions listed in the Executive Summary. For this reason the technical scores for applications and product functionality which were principally prototypes may show a higher rating in the attachments. The addition of corporate direction, financial strengths and other key performance indicators in doing business with proposing firms are reflected more heavily in final rating results listed below.

Costs below are as proposers submitted them and are not complete in most cases. The CIS application seems to have been the one application were costs were provided consistently by each bidding company. HTE, Inc. costs appear more out of line compared to others simply because all immediate and future requirements and installation charges were included in their initial cost estimates. Other bidders' best and final costs for all sub-systems will likely be much higher than estimates given.

RANK	COMPANY	PROPOSAL COSTS
1	OrCom Systems	\$ 5,076,864
2	J.D. Edwards	2,500,000
3	HTE, Inc.	21,400,000
4	Severn Trent Systems	5,500,000
5	Augustine & Company	176,000

Attachments to this report will show systems features requested from proposers and their responses to the request for proposal. Comments from the vendor demonstrations and interview meetings from the evaluation team are also included.