

**ENCLOSURE 4**

**YEAR 2000 COMPLIANCE**



**S & B inc.** 13200 S.E. 30th St., Bellevue, Washington 98005 (425) 644-1700 FAX (425) 746-9312

February 25, 1999

Lakewood Water District  
PO Box 99729  
Tacoma, WA 98499

Attention: Randy Black, Manager

Subject: To All Telemetry and Control System Customers  
Year 2000 Compliance

Dear Randy:

Your telemetry and/or control system supplied by S&B Inc. (S&B) may contain one or more microprocessors and operating systems that use a real time clock. While the custom software that S&B authors and supplies for each microprocessor is Year 2000 compliant, the operating systems, firmware and third-party software may not be fully compliant. This letter serves to notify your utility of system components that may require software and/or firmware modifications to achieve full compliance with the year 2000.

This application software compliance does not confer complete system compliance since the hardware and operating systems that run this software must also be fully compliant. Our work includes the PLC code, Basic code and DMS software release 3.1. We also need to note that changes in hardware may affect the ability to compile and operate our software. S&B cannot extend year 2000 compliance to any products manufactured by others.

The systems we furnish have several microprocessors and operating systems that use a real time clock. These include products from clone computer manufacturers, printer manufacturers, PLC Direct (Koyo), Siemens Energy and Automation (formerly Texas Instruments), Microsoft and SCO.

After reviewing the "white papers" from the software and hardware manufacturers listed above and through the testing we have performed to date, we can make some general statements to assist our customers in addressing the Year 2000 event.

The Programmable Logic Controllers that perform the control and alarm logic for most of our systems are compliant. Siemens does list an abnormality for the Model 545-1101 that causes the timers to run slow during February 29, 2000. We highly recommend updating the Model 545-1101 firmware to address this concern. The cost for our field engineering group to perform this work is approximately \$200.00.



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

P.O. Box 47775 • Olympia, Washington 98504-7775 • (360) 407-6300

November 17, 1998

Mr. Randall Black  
Manager Lakewood Water District  
11900 Gravelly Lake Drive SW  
P.O. Box 99729  
Lakewood, WA 98499-0729

Dear Mr. Black:

Re: Year 2000 Readiness Disclosure

The Department of Ecology (Ecology) is providing this letter to alert you to our concerns about how automated chip dependent equipment may be affected by the year 2000 problem. As you may know, computers and other equipment that are operated by microprocessor chips are vulnerable to a date changeover problem that will occur January 1, 2000. Microprocessors of this type are used in operating many types of automated pollution control and remediation equipment including, but not limited to pumps, blowers, samplers, automatic control systems, etc.

It is important that you take steps now to ensure that your equipment will function beyond the year 1999. You should either document that the equipment manufacturer is certain you won't have a problem or to replace the equipment.

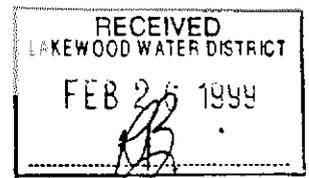
Ecology and the Environmental Protection Agency recommend a 6-step approach to deal with Y2K (year 2000) problem. The steps include awareness, assessment, correction, contingency plans, testing, validation, and implementation.

It is important to realize that Ecology will not accept year 2000 changeover problem as a defense for non-compliance with regulatory requirements\*. We urge you to take whatever steps are necessary to ensure you remain in compliance as we transition into the next century.

Information regarding the nature of this problem, its source, and potential fixes, is available on the Internet at <http://www.year2000.com>. Some programs can be downloaded to test and fix many computer equipment problems which are available at <http://www.RightTime.com>.

**Note:** \* any other equipment failure (unrelated to Y2K problem) also cannot be used as a defense for non-compliance





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February 25, 1999

Lakewood Water District  
PO Box 99729  
Tacoma, WA 98499

Attention: Randy Black, Manager

Subject: Year 2000 Compliance

Dear Randy:

Enclosed is a copy of our standard letter regarding Y2K compliance for our systems. By your recent purchase of the new Graphic User Interface system, only one Y2K issue remains. This relates to your Data Management System (DMS) computer. This computer in no way affects the control or operation of your telemetry system but is used to collect, store and report historical data. This unit is not Y2K compliant.

The DMS computer was purchased in 1992 and most likely contains chips that are not Y2K compliant. The SCO Unix operating system can be transferred from your existing computer to a new computer or a new computer with a new SCO Unix system can be supplied. In either case, your historical files will need to be loaded into the new computer. The replacement of computer and operating system as stated in the attached letter is \$6,200.00. If you reuse your existing Unix, the price would be \$5,170.00. This price includes installing the service patch also described in the attached letter.

We hope this is the information you require.

Yours very truly,

Ivan W. Stead  
President  
S&B Inc.

Enc. a/s

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COMMISSIONERS  
L. R. Ghilarducci, Jr.  
W. W. Philip  
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MANAGER:  
Randall M. Black

March 31, 1999

Department of Ecology  
Parjini Balaraju, Project Manager  
P O Box 47775  
Olympia WA 98504-7775

Re: Year 2000 Compliant Request

Dear Mr. Balaraju :

In response to your request for certification of Year 2000 Issues:

We started early in 1998 with software upgrades and modifications to our utility billing and customer service software. We tested these changes internally to our satisfaction and to our knowledge these changes will carry us through the year-end change successfully.

During this time we have also upgraded our IBM hardware to the specifications that IBM considers to be compliant with the year 2000.

Our water distribution system is currently in the process of being checked and tested for year 2000 compliance. In the unlikely event of a loss of power, the District's emergency generators will be standing by at well sites to provide you with uninterrupted service.

We are also working closely with our vendors to provide the customers of Lakewood Water District a smooth and seamless transition into the next century. I have enclosed copies of these letters from our vendors.

Sincerely,

A handwritten signature in black ink that reads "Randall M. Black".

Randall M. Black, Manager

:dja