

Steve
Your copies
FYI

DEPARTMENT OF
NATURAL RESOURCES

DATE 3/16/04

ROUTE SLIP:

TO: Tom Conroy

FROM

- Director
 Deputy Director

ACTION TO BE TAKEN

- | | |
|---|---|
| <input type="checkbox"/> For Your Information | <input type="checkbox"/> Prepare Reply for _____ |
| <input type="checkbox"/> Comments/Suggestions | <input type="checkbox"/> Prepare Reply Direct to Writer |
| <input type="checkbox"/> Discuss With Me | <input type="checkbox"/> Prepare Reply for My Signature |
| <input type="checkbox"/> File | <input type="checkbox"/> As Requested |
| <input type="checkbox"/> Review/Revise & Return | <input type="checkbox"/> Per Our Conversation |
| <input type="checkbox"/> Please Handle | <input type="checkbox"/> Circulate |
| <input type="checkbox"/> Signature/Return | <input type="checkbox"/> Draft/Final |

REMARKS:

The offer of Savings on this package is good through the end of the month and it would be good to know by then. IF you have questions call me at 471-3955.

STEVE
Gul

State of Nebraska

Purchase Requisition

Microcomputer/Office Automation

State Purchasing Bureau
 301 Centennial Mall South
 Lincoln, NE 68509
 Phone: 402—471-2401

4 Date: 3/16/04
5 Ship to:

- Dept. of Natural Resources
 301 Centennial Mall So. 4th Fl
 Lincoln, Ne. 68508

6 Bill to:

- Dept. of Natural Resources
 P.O. Box 94676
 Lincoln, Ne. 68509

Agency Information	
Agency Requisition No.	R-4460
Agency Contact	Steve Gaul
Phone	471-3955
Date Desired	ASAP

7 Requested Hardware/Software

Item No.	Manufacturer	Model or Feature #	Part No.	Description	Contract(c) Bid(B)	Quantity	Unit	Unit Price	Amount
				AS PER ATTACHED NEBRASKA DNR BUDGET PROPOSAL					\$23,200

8 Agency Authorization

[Signature]
 Authorized Agent Signature
 3-18-04
 Date

9 Purchasing Use Only

Received:

Approved _____
 Buyer _____
 Date _____

**State of Nebraska—DAS Form 1909
Microcomputer/Office Automation Request**

1 **Project Description**

Specialized Software hydrological data manager for streamgaging data.

2 **Funding**

Hardware Costs	\$ _____
Software	\$ 23,200
Other One-Time Costs	\$ _____
Total One-Time Costs	\$ 23,200
Annual Maint. Costs	\$ 8,200
Other Annual Costs	\$ _____
Total Annual Costs	\$ 8,200

Check all sources that apply:

General Fund (1)	<input type="checkbox"/>	Percentage 0-26 %
Cash Fund (2)	<input type="checkbox"/>	_____
Federal Funds (4)	<input type="checkbox"/> *	74-100%
Revolving Fund (5)	<input type="checkbox"/>	_____
Distributive Fund (7)	<input type="checkbox"/>	_____
Other	<input type="checkbox"/> *	100%

*Indicates Supplemental Information Required.

3 **DAS Use Only**

Central Data Processing

Comments: _____

Approved Disapproved Date _____

Administrator
 Signature > _____

Budget Division

Comments: _____

Approved Disapproved Date _____

Administrator
 Signature > _____

STATE OF NEBRASKA



Mike Johanns
Governor

DEPARTMENT OF NATURAL RESOURCES
Roger K. Patterson
Director

IN REPLY REFER TO:

March 18, 2004

TO: Don Medinger, Administrator

FROM: Roger K. Patterson, Director

A handwritten signature in cursive script that reads "Roger K. Patterson".

SUBJECT: Requisition R- 4460

Attached is the complete file on the requested purchase of software. Due to the sole source nature of this request, I have provided the justification as shown below for this purchase.

JUSTIFICATION OF SOLE-SOURCE PURCHASE:

The Department of Natural Resources has a need for a comprehensive hydrologic data management program for computing and managing stream gaging data and using the data with other hydrologic systems and multi-year time periods. The program presently used by the department operates only on a year to year basis with no capability to work directly with existing hydrologic data bases. Only two known programs are available that fulfill the department's requirements and both are owned by the same company - Kisters, AG. The department selected the WISKI Suite program marketed by JBS Energy due to a limited time offer to save \$36,000 on an exchange of licenses option for the program currently used by the department.

Thank you for your time and consideration.

mk
Attachment

JBS Instruments

311 D Street, Suite A
 West Sacramento, CA 95605
 tel. 916.372.0534
 fax 916.372.1624

Quote

DATE	Quote No.
3/11/2004	1023

NAME / ADDRESS
Nebraska DNR Guy Lindeman 301 Centinell Mall South Lincoln, NE 68509

P.O. NO.	TERMS
	Net 30 days

ITEM	DESCRIPTION	QTY	COST	TOTAL
1 - WISKI 1	Software WISKI Software - 1 user	1	8,000.00	8,000.00
2 - WISKI 2-5	WISKI Software User 2 through 5 (per user)	4	7,000.00	28,000.00
User Admin	WISKI Admin SuiteE	1	5,000.00	5,000.00
Calc Server	Database - Server	1	0.00	0.00
Discount	WHS Upgrade Discount		-36,000.00	-36,000.00
WISKI 1 Maint	Annual Maintenance fees WISKI Software User 1 Annual Maintenance Fee	1	1,600.00	1,600.00
WISKI 2 Maint	WISKI Software User 2 through 5 Annual Fee (per user)	4	1,400.00	5,600.00
User Ad Maint	WISKI Admin suite Annual Fee	1	1,000.00	1,000.00
INSTALL/TRAI...	Labor Installation 1 server, 5 clients	1	3,000.00	3,000.00
Add Training	Basic Training Maximum 6 persons	1	4,500.00	4,500.00
Direct Expens	Direct Expenses Installation Direct Expenses 2 persons	1	1,500.00	1,500.00
Direct Expens	Per Diem Installation Travel	1	1,000.00	1,000.00
	Note - All actual direct expenses paid by client			
	Out-of-state sale, exempt from sales tax		0.00%	0.00
TOTAL				\$23,200.00

Nebraska DNR Budget Proposal
 Budget Proposal (Quotes are good for 90 days)

12/03/03

Software

Quantity	Product	Description	License 1	License 2-5	Support	Total
5	WISKI SUITES	Single User License (LAN PC's)	\$8,000	\$7,000	\$7,200	\$43,200
1	WISKI Admin Suite	Server License	\$5,000		\$1,000	\$6,000
1	Database-Server	Server License	N/A		N/A	N/A
5	Competitive License Upgrades					(\$36,000)
			Subtotal Fees			\$13,200

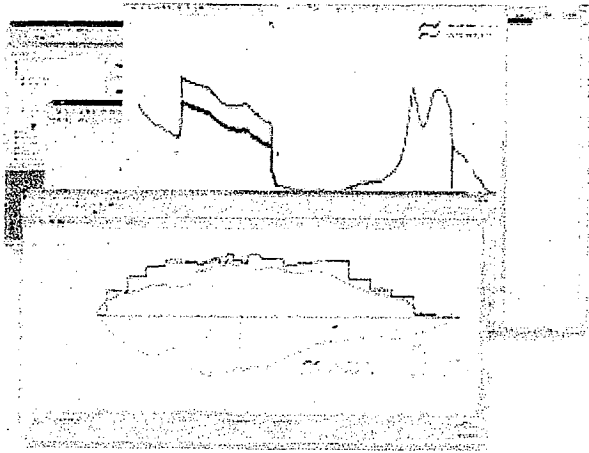
Training and Installation

2	Install	1 server, 5 clients	\$3,000			\$3,000
3	Basic Training	Maximum 6 persons	\$4,500			\$4,500
			Subtotal Training and Installation Fees			\$7,500

Directs***

10	Install/Train	Estimates 2 People	Perdiem \$1,500	Travel \$1,000		Total \$2,500
			Subtotal Directs Fees			\$2,500
			Grand Total			\$23,200

*** All directs paid by client.



The WISKI Suite - A Hydrological Data Manager and Time Series Editor

The WISKI Suite is a comprehensive hydrologic information processing system that allows you to display and edit your data using advanced graphics and tools. It also allows graphical comparisons of your data across water-year boundaries. WISKI uses popular relational databases and works on all types of client server systems.

WISKI includes a complete USGS compatible surface water computation program and powerful statistical tools for hydrologic studies.

The WISKI Suite software package includes a time-series manager, discharge measurement manager a rating curve editor. Additional modules add digitizing capabilities, remote telemetry, automated data import from other sources, and automated reporting to Internet or Intranet web-pages.

- **WISKI** - for Time-series data
- **BIBER** - for Discharge measurements
- **SKED** - for Rating curves

Basics

What is time-series data?

Time-series data is any series of data that has a time stamp attached to it. In hydrology this is often measurements of the height or *stage* of a stream or river, taken by an electronic data recorder or *data-logger* and recorded at regular intervals (i.e.: every 15 minutes, also known as equidistant data). Data can also be recorded at irregular / non-equidistant time intervals. WISKI excels at tracking all kinds of time-series data whether equidistant or non-equidistant.

- Client-server implementation
- Use of relational databases
 - SQL Server, ORACLE, INFORMIX, INGRES, SYBASE
- Operating systems include:
 - Client: Windows NT, 95 and 98
 - Server: Windows NT, 2000 or Unix
- User configured project management
- River basin mapping using GIS-Studio

Basic data

Manage all forms of hydrologic data:

- surface water
- precipitation
- ground water levels
- well logs
- quality water
- snow depth and density
- snow survey records

WISKI can handle fixed interval recorded data from loggers as well as variable interval data such as precipitation and observer data.

Data import / export

Import data from Comma Separated Value files (CSV) and user defined types of time stamped files.

WISKI can export daily discharges into files of the following formats: USGS card format, Water Survey of Canada, TVA, Army Corps of Engineers, user-defined time stamped and CSV.

Data acquisition

- Remote data transmission using the "Simultaneous Online Data Acquisition server (SODA)"
- FTP via the Internet
- Job management for automatic periodic data transmission

Basic data computation

Complete USGS standards surface water program

- USGS computation methods, rounding, and rating methods: WSP 2175 Measurement and Computation of Streamflow: vols. 1 and 2.
- Multiple ratings with log offsets
- Shifts and stage shifts
- Gage height and datum corrections
- Standard printouts: primary computation, daily mean values summary, rating tables, shift tables.

Plausibility tests of hydrologic unit data

- identification of data gaps with conditional automatic filling
- minimum / maximum value or gradient
- plausibility test definition by formulas
- periodic plausibility test
- comparison with other data

Graphical and tabular data editor

- linear
- exponential
- logarithmic
- power function
- polynomials up to 5th order
- Rainfall frequency analysis
- Double mass or recession analysis
- Peak and Low flow statistics
- Time series analysis

Data distribution and documentation

- Preformatted monthly overview lists
- Free form tabular and graphical reports
- Tabular and graphical output of hydrologic year book pages
- Automatic faxes, or FTP via Internet
- Voice announcement

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WISKI

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JBS Energy, Inc. - 311 D Street - West Sacramento, CA 95605
 phone (916) 372-0534 - fax (916) 372-1624 - E-mail: jbs@jbsenergy.com

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- zoom function
- manual or automatic axis scaling
- manual or automatic rating design
- manual scaling of the graphics time interval
- synchronization of graphics and table
- user notes and remarks can be entered
- direct printing of graphics and tables

Interactive data editing

- selecting single values, sections and groups of data
- inserting or deleting data by hand editing
- tipping and twisting a data section
- proportional stretching and mirroring of a section

Modifying data using

- constants
- linear interpolation with or without supports
- spline interpolation

Hydrologic tools

- calculating unit values with linear or non-linear regression on multiple stations
- estimating missing record using station comparison techniques
- time offsets

Automatic conversion of basic data values to daily, monthly, yearly, mean, minimums or maximums.

Rating management

Rating curve construction with the aid of a graphical rating curve editor

- free form rating curves with splines
- three-part power function (7-point method)
- version management
- rating dates management
- interpolation between two rating curves

Base flow separation constant, linear, with break point

Cross and autocorrelation analysis with variable time interval

Low, mid, and high stage regression analysis