

KWH Monitor

**Test Equipment
Depot**
1-800-517-8431

99 Washington Street
Melrose, MA 02176
Fax 781-665-0780
TestEquipmentDepot.com



KWH Monitor Software

This Product Licensed To:

nmi

nmi

S/N 2003-200-001

Windows98,2000,XP

Version 2.0.0

Developed By: Hank Heilman

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After the initial Pop Up Box disappears this is the default screen.

The software is locked. In order to access the software click on Security to Login. There is a default password to enter initially then it can be changed or added to.



Login [X]

User Name:

Password:

OK Cancel

This is the Login Dialog Box. Enter "don" for the User Name and "nmii" for the Password.

- Site List
- Print
- Exit



After Logging into the software click on Sites then Site List.

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KWH Metering Sites...

1:

Connect

Open Off-Line

Setup

OK

Cancel

Delete

Print List

The KWH Metering Sites dialog box appears. Click Setup.



Site Setup...

Site Information	Building Owner Info
Description: <input type="text"/>	Name: <input type="text"/>
Phone Number: <input type="text"/>	Address: <input type="text"/>
Job Directory: <input type="text"/> <input type="button" value="New"/>	Address: <input type="text"/>
Connection Type: <input checked="" type="radio"/> Direct <input type="radio"/> Modem <input type="radio"/> Server	City: <input type="text"/>
Address: <input type="text"/>	State: <input type="text"/> Zip: <input type="text"/>
City: <input type="text"/>	Phone: <input type="text"/>
State: <input type="text"/> Zip: <input type="text"/>	Fax: <input type="text"/>
	E-Mail: <input type="text"/>

The Site Setup dialog box is where you enter the building information on the left and the Owner / Management Company mail back address on the right. Also, this is where the software is configured to be an on-site or off-site read. On-site is Direct. Off-site can be modem (with restrictions) or Server.

Label the Description on the left, enter the phone number of the modem you are calling if it is an Off-Site system, if not skip this part. Click the New button and type in the name of the folder you want to store the data file in. This folder is created in C:\Program Files\National Meters. Enter only up to eight characters. Click the connection type as either direct or modem. Click OK.



KWH Metering Sites...

1:	
----	--

Connect
Open Off-Line
Setup
OK
Cancel
Delete
Print List

We will see the same name as you typed in Description appear in the number 1 line. Click on this line to turn the line blue.
Click Open Off-Line to continue entering the meter and tenant information.

- Meters
- Tenants
- Rate Schedules
- Trends
- Comm. Ports

After you click Open Off-Line the dialog box disappears. Click Setup then Meters.



Site Meters...

Serial #	Model #	Description	Units	Used	Data Table Name	TenantID
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Record: of 0

The Site Meters Dialog Box appears. This section allows the user to Add, Delete or Edit any meter information. Click Add New.

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Serial #	Model #	Description	Units	Used	Data Table Name	TenantID
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National Meters...

Meter Setup

Description:

Meter Address (1-255):

Serial Number:

Model Number:

Units:

Used:

Data Table Name:

Record: of 0

This is the Meter Setup dialog box. Enter the a Description of the meter - This is usually the panel designation number or Unit number the meter is connected to.

Type in the Peripheral number of the meter, as labeled on the meter. It will be a number between 1 and 255.

There cannot be two meters entered into this software with identical peripheral numbers.

Type in the serial number as labeled on the meter and select the model number of the meter you are entering into the software.

Each Series of meter has its own driver. This is where we tell the software which driver to use with which serial number meter.

Click OK. Then click Add New again to repeat the process to input all meters.



Tenant List...			
Name	Address	Phone	Account #

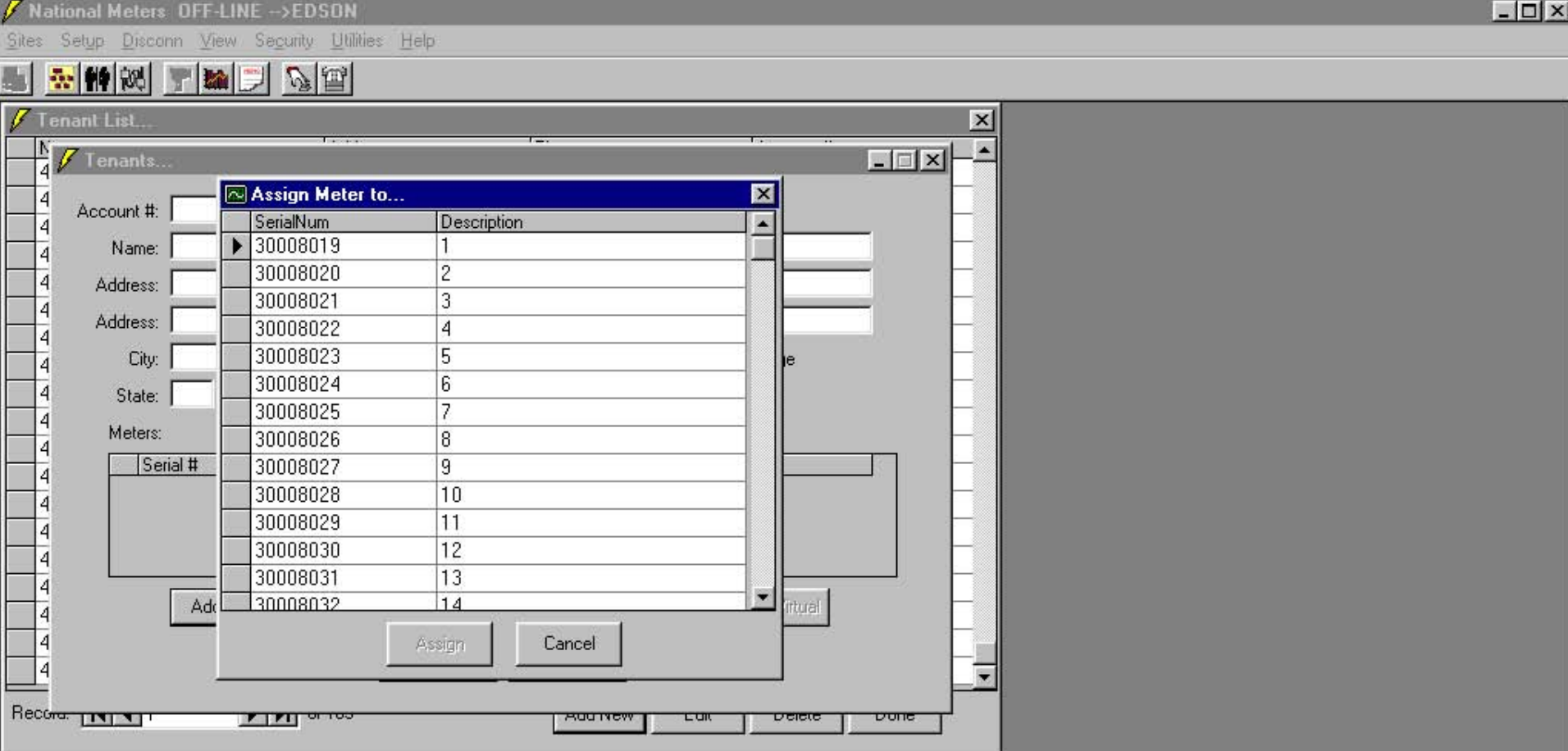
Tenants...											
Account #:	<input type="text"/>	Phone:	<input type="text"/>								
Name:	<input type="text"/>	Fax:	<input type="text"/>								
Address:	<input type="text"/>	E-Mail:	<input type="text"/>								
Address:	<input type="text"/>	%Common Area:	<input type="text"/> Charge								
City:	<input type="text"/>	State:	<input type="text"/>								
State:	<input type="text"/>	Zip:	<input type="text"/>								
Meters:	Virtual Meters:										
<table border="1"> <thead> <tr> <th>Serial #</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	Serial #	Description			<table border="1"> <thead> <tr> <th>Name</th> <th>Formula</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>			Name	Formula		
Serial #	Description										
Name	Formula										
Record: <input type="button" value="⏪"/> <input type="button" value="⏩"/> 0 <input type="button" value="⏴"/> <input type="button" value="⏵"/>	<input type="button" value="Add Meter"/>	<input type="button" value="Delete Meter"/>	<input type="button" value="Add Virtual"/>								
<input type="button" value="OK"/>		<input type="button" value="Cancel"/>									

After all the meters are entered click on Setup - Tenants - Add New. The Tenant dialog box appears. This is where the user inputs all applicable tenant information including the mailing address. All information after State, Zip is not displayed on the bill.

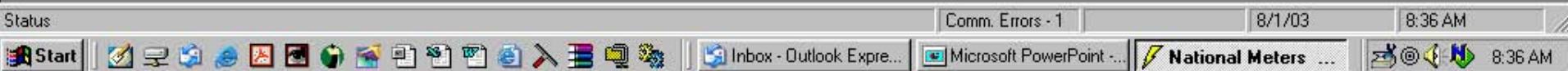
This is also where the user assigns a specific meter or meters to a specific tenant.

Depending on how the tenant's space is wired a tenant space could use one or more sub meters.

After all information is entered click Add Meter.



Quite simply: Find the meter that is connected to this particular tenant, click on it once to turn it blue, click Assign.





Electric Rate Schedules

Schedules...

- New Schedule

Schedule | Meters | Times | Rates | Holidays | Misc. Fees

Name: Use Holidays

Description	Date	Time	Days	KWH	KWD	2nd
-------------	------	------	------	-----	-----	-----

After entering all the tenants click Setup - Rate Schedule. Using the Utility Company bill as a guideline the user can create the billing structure for the sub-meters. Most of the time National Meter creates the schedule based on information supplied.

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Electric Rate Schedules

Schedules...

- POND
 - Times
 - TIME PERIOD
 - KWHR RATE
 - COMMON AREA CAM & H
 - CAM RATE
 - Meters
 - GWP
 - QUEST-206
 - QUEST-206
 - REACT104
 - DELI-106
 - MANAGEMENT-103
 - REACT-104

Schedule | **Meters** | Times | Rates | Holidays | Misc. Fees

Serial #	Description	Tenant
<input checked="" type="checkbox"/> SN-40008401	GWP	GWP
<input checked="" type="checkbox"/> SN-40009624	QUEST-206	QUEST
<input checked="" type="checkbox"/> SN-40009625	QUEST-206	QUEST
<input checked="" type="checkbox"/> SN-40009620	REACT104	REACT
<input checked="" type="checkbox"/> SN-40009622	DELI-106	POND
<input checked="" type="checkbox"/> SN-40009619	MANAGEMENT-103	POND
<input checked="" type="checkbox"/> SN-40009623	REACT-104	REACT

Add Selection to Current Schedule Show All Meters.
 Show Meters not Assigned.

This is an example of a typical billing structure.

If this schedule has not been built please call 800.325.6674 and ask for Don. You will need to schedule time for support of this section. Keep in mind: This section is very important and if built and calculated incorrectly it will cause the owner or management company problems.



Port Configuration...

Com1 Com2 Com3

Port Setting

- Not Used
- Direct Connect
- Modem

Communications

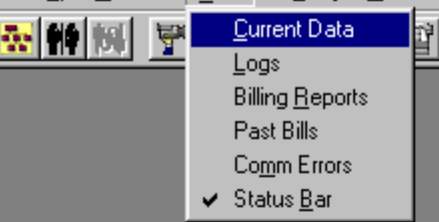
Time Out ms

Retries

Modem Init String:

OK Cancel Apply

After the Rate Schedule is created click Setup - Comm Ports. This is where we assign the computer's com port to the software. The software can call out or read the meters connected directly to the computer. The mechanical connection is through our Intelligent Converter which changes the two wire buss into a nine pin serial connector which plugs into an open serial com port in the PC. Click Direct Connect in the proper Com Port tab. Click Apply then OK.



Once the com port is selected, the meters connected to the converter, the converter connected to the PC and powered, you are ready to read the meters. First disconnect from the Site by clicking the last Icon on the right - it looks like a telephone. Are you sure you want to disconnect pop up box will appear - click yes. Click Sites - Site List - Click on the #1 line so that it turns blue - click the connect button which will bring you to the gray screen, click on View - Current Data. This is where we read the meters.



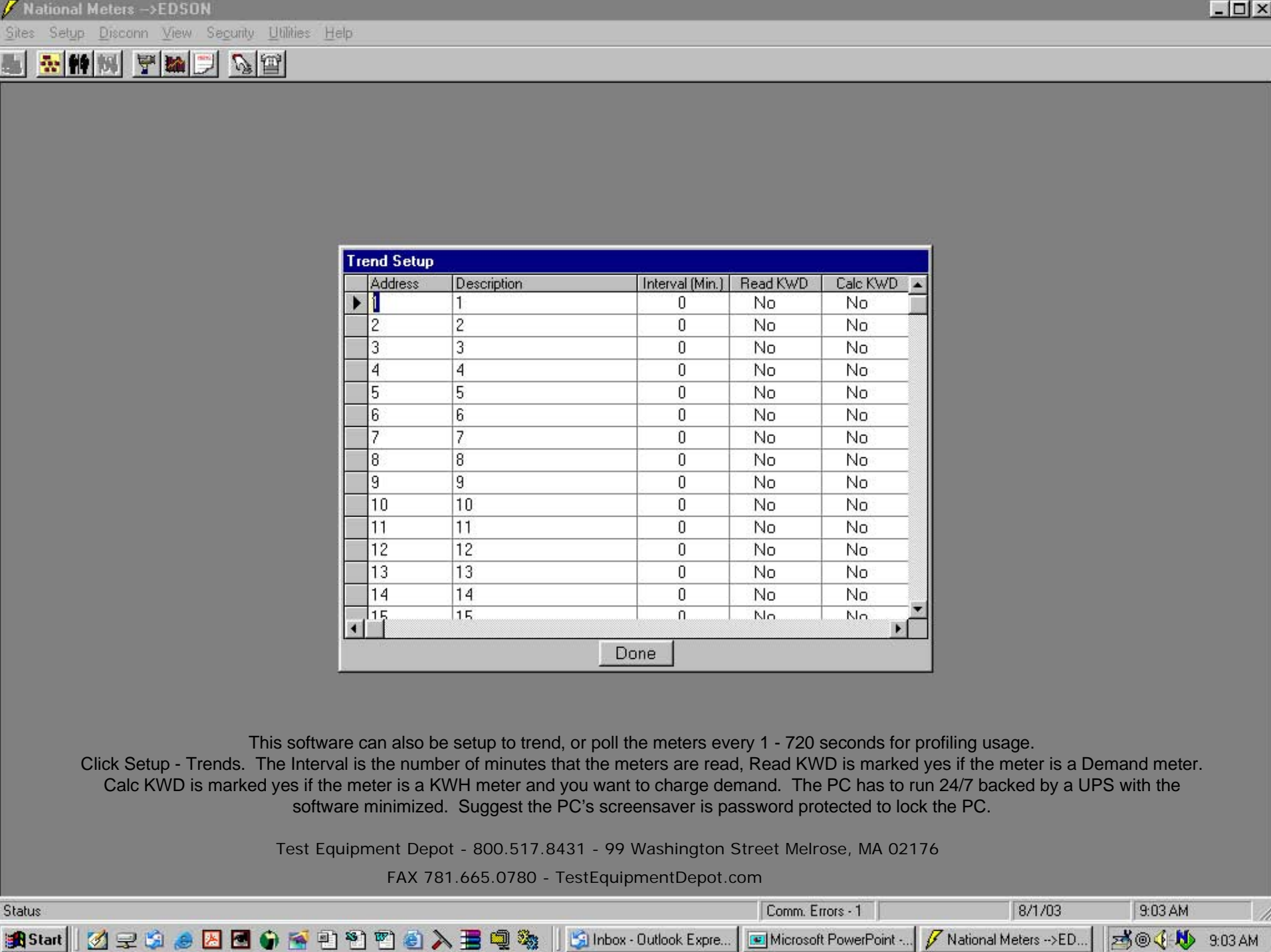
Current Meter Readings...

Serial #	Description	Counter Reading	Max Demand
10003015	DPL2R-3A		
10002998	DPL2R-3B		
10002990	DPL2R-3C		
10002984	DPL2R-3D		
10003008	DPL2R-4E		
10003010	DPL2R-3F		
10002994	DPL2R-3G		
10002997	DPL2R-3H		
10003017	DPL2R-3J		
10003002	DPL2R-4A		
10002992	DPL2R-4B		
10003016	DPL2R-4C		
10003003	DPL2R-4D		
10003000	DPL2R-3E		
10003014	DPL2R-4F		

Done Save Data Reset Demand Meter Settings

The software will list the serial numbers of all the meters that were entered. During Setup Tenants, the user assigned a particular meter to a particular tenant.
The counter readings are kilowatt hours taken from the meter and the Max Demand reading is the maximum demand value taken from the meter (depending on the Series of meter).

After all meter readings are taken click Save Data.

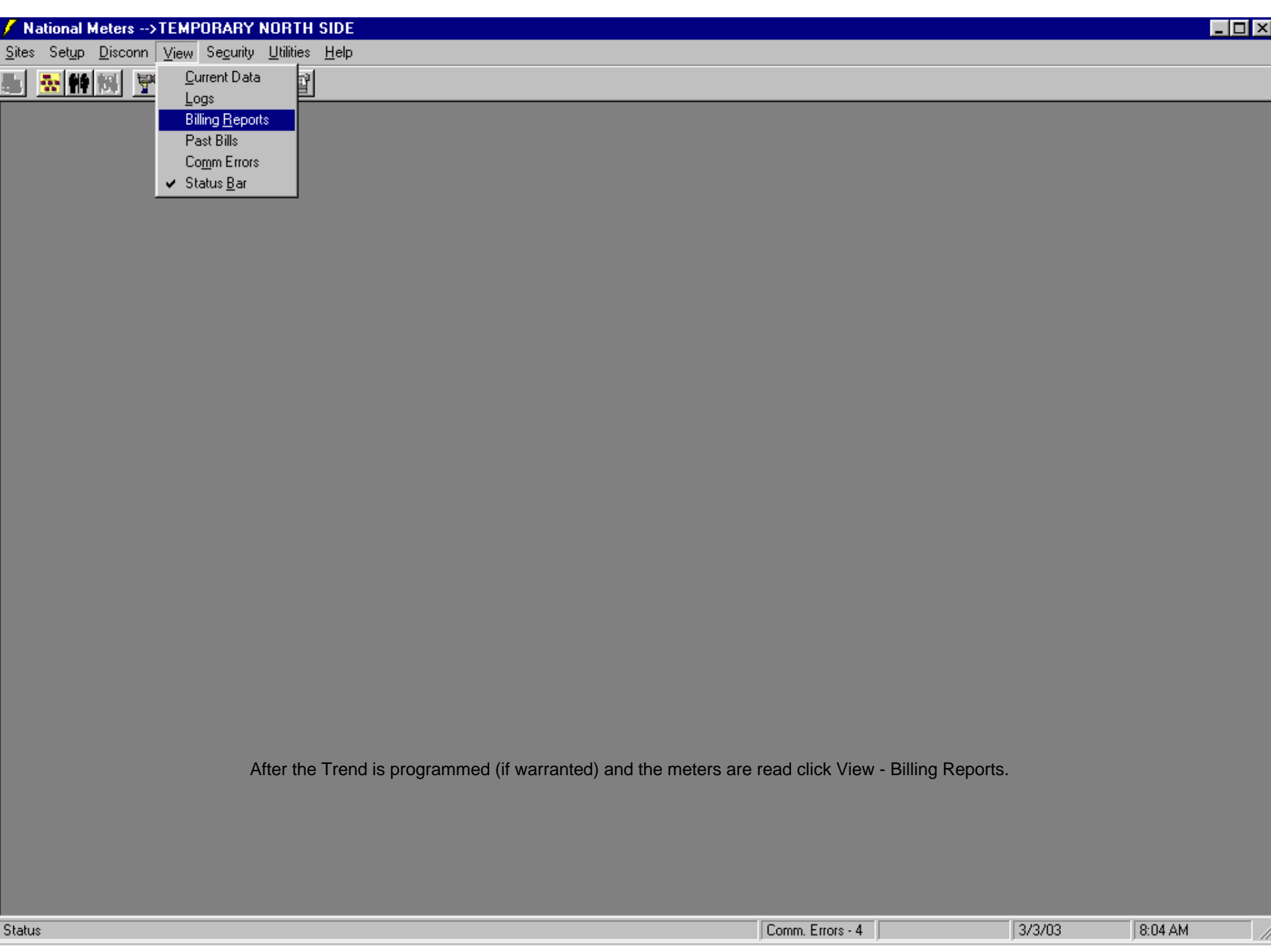


Trend Setup					
	Address	Description	Interval (Min.)	Read KWD	Calc KWD
▶	1	1	0	No	No
	2	2	0	No	No
	3	3	0	No	No
	4	4	0	No	No
	5	5	0	No	No
	6	6	0	No	No
	7	7	0	No	No
	8	8	0	No	No
	9	9	0	No	No
	10	10	0	No	No
	11	11	0	No	No
	12	12	0	No	No
	13	13	0	No	No
	14	14	0	No	No
	15	15	0	No	No

Done

This software can also be setup to trend, or poll the meters every 1 - 720 seconds for profiling usage. Click Setup - Trends. The Interval is the number of minutes that the meters are read, Read KWD is marked yes if the meter is a Demand meter. Calc KWD is marked yes if the meter is a KWH meter and you want to charge demand. The PC has to run 24/7 backed by a UPS with the software minimized. Suggest the PC's screensaver is password protected to lock the PC.

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After the Trend is programmed (if warranted) and the meters are read click View - Billing Reports.



Energy Billing Reports...

Tenant Name	Create Bill
-------------	-------------

Billing Period

Start Date: 12/31/02 ...

End Date: 01/31/03 ...

Past Bills

Date: 12/07/01

Select Option

Create New Bills...

View Past Bills by Date...

Set Billing Rates...

Close...

Record: [Navigation icons] of 0

This is the start of the actual billing sequence. The Start Date and End Date defines the period of the billing days. Keep in mind the actual day the user bills can be done anytime after the end date, as long as the meters are read. From this dialog box we can also view past bills and check the billing rates that were created in Setup Rate Schedule. The bills are made from two different dates. You cannot make a bill having the start date and the end date be the same. Call for assistance before you make your first bill for help making your first bill.



BUILDING OWNER
123 MAIN STREET
UNIT 2A
ANYWHERE, US. 11111

Utility Bill

This is an example of an actual bill. The bill shows
Tenant address
Mail back address
Billing Date
Billing Period
Usage
Rates
Taxes
Administration Fees
Total

100/U-110 AE1
123 MAIN AVE
SUITE 2A
ANYPLACE, US. 12345

Billing Date: 8/1/03
Account #: 100

Current Amount Due
\$45.00

Amount Enclosed: \$ _____

Detach here and mail with payment

Retain this portion for your records

Usage

Meter Number - Name	Start of Peroid	End of Peroid	Period Totals
Date:	06/15/03	08/01/03	47 Days
Reading: 30008019 - 1	10	100	90 KWH

Charges

Time Period	KWH	Rate	Fuel Adj	Usage	KWD	Rate	Demand
New Time	90	\$0.5000		\$45.00			

Usage Charges: \$45.00



Billings

Tenants...

- GWPC
 - 9/24/02
 - 10/22/02
 - 11/26/02
 - 12/3/02
 - 1/2/03
 - 2/3/03
- POND
 - 9/24/02
 - 10/22/02
 - 11/26/02
 - 12/3/02
 - 1/2/03
 - 2/3/03
- POND PLACE
 - 9/24/02
 - 10/22/02
 - 11/26/02
 - 12/3/02

Period Starting: 12/24/02 Period Ending: 01/24/03 Days: 31

Meter S/N	Start of Period	End of Period	Ending Time Stamp
40008401	32982	39495	1/24/03 5:14:47 PM

Time Period	KWH	KWD	KWH Rate	KWD Rate	KWD2	FuelAdj
TIME PERIOD	6513	0	0.0995	0	0	0
COMMON AREA CA	1	0	825.62	0	0	0

Sub-Total: \$1473.66

Admin Fee: \$0.00

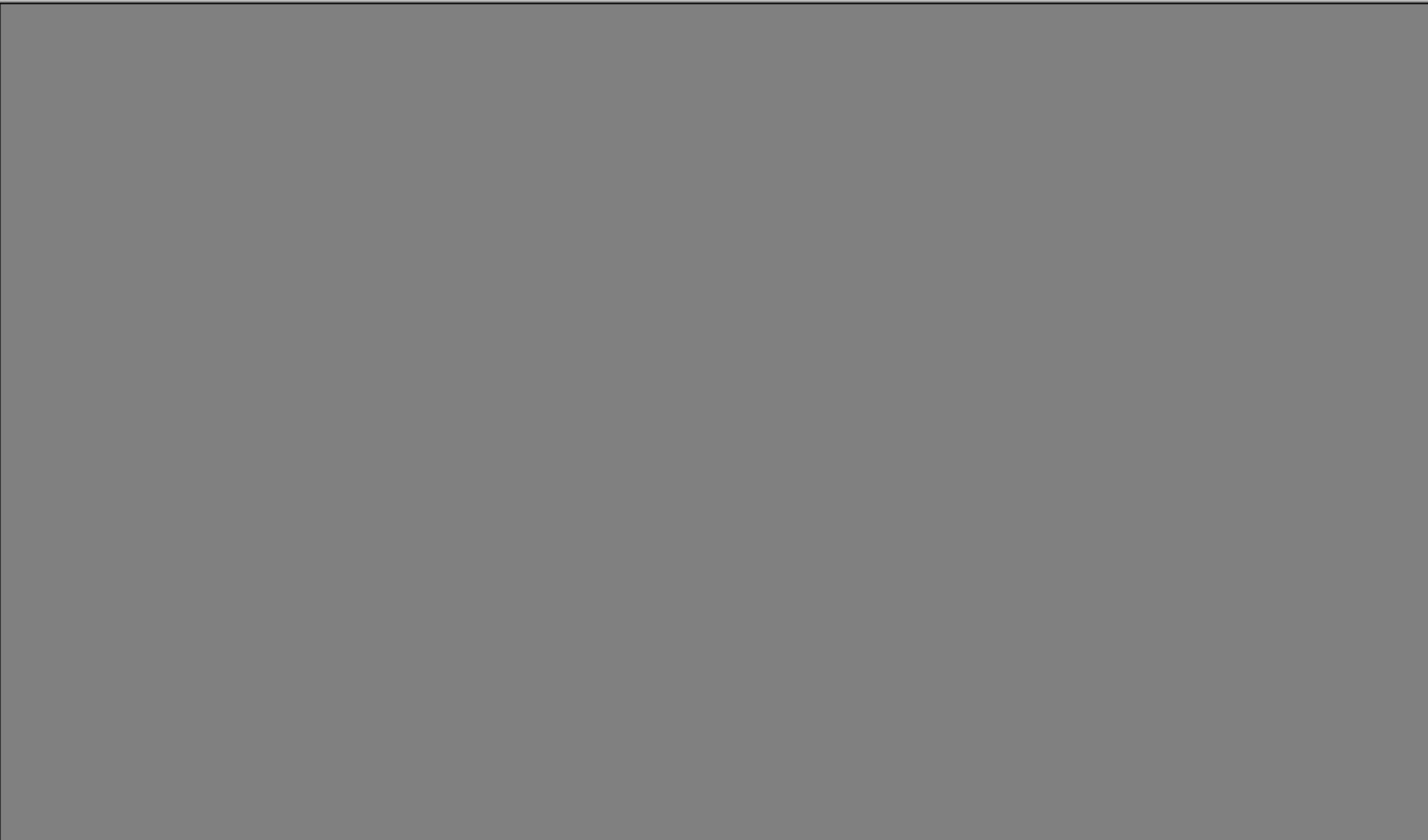
Sales Tax: 0 \$0.00

Excise Tax: 0 \$0.00

Grand Total: \$1473.66

Delete Print Preview Close

Another way the user can refer to the bills that were made is to click View - Past Bills. Let's say a tenant lost their bill and needs another copy. The user can pull up that tenant's particular bill only. This information can only be deleted by the user.



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