

Cartegraph 8.4 SIGNALview

Training Guide



 **TRAFFIC OPERATIONS**

November, 2013

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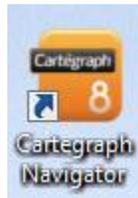
SIGNALview Training Guide Wisconsin Department of Transportation

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SIGNALview Training Guide for the Wisconsin Department of Transportation

The following information is provided as a tool for end users to review as they have questions regarding the operation or standards relative to CarteGraph's SIGNALview.

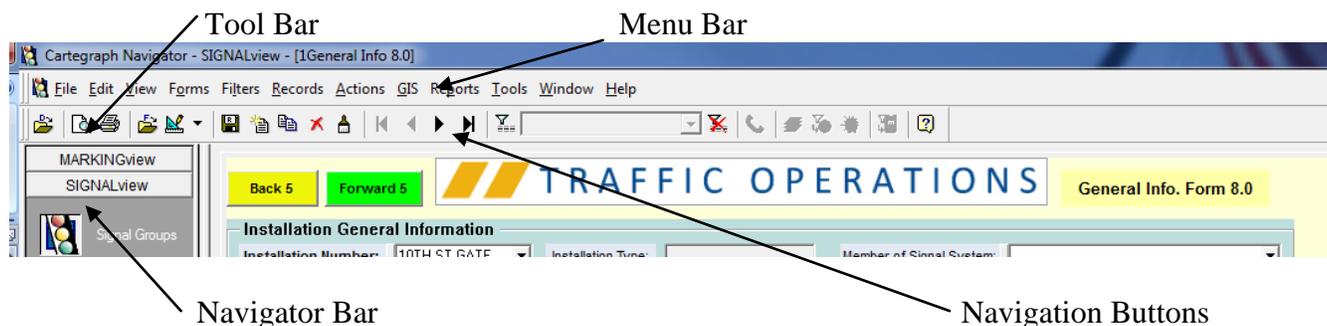
Starting SIGNALview



You can open SIGNALview by double clicking on the CarteGraph icon on your desktop.

Menu Bar / Tool Bar

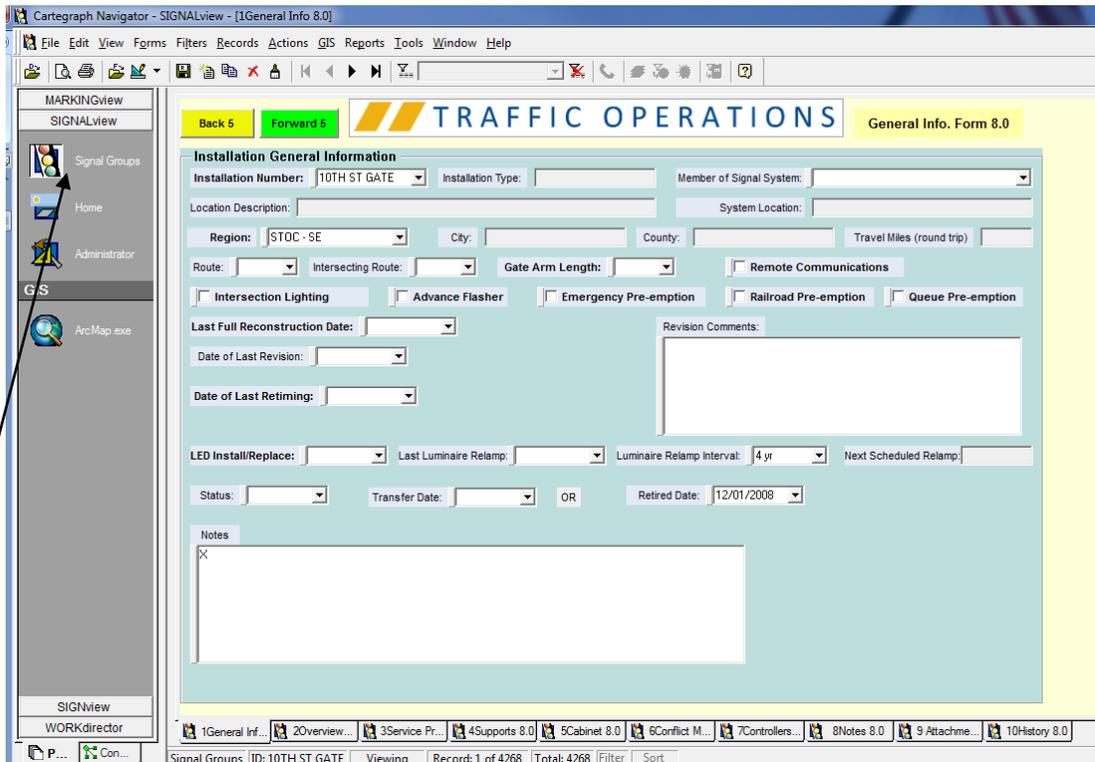
As SIGNALview opens, the top of the screen shows you a Menu Bar and a Tool Bar.



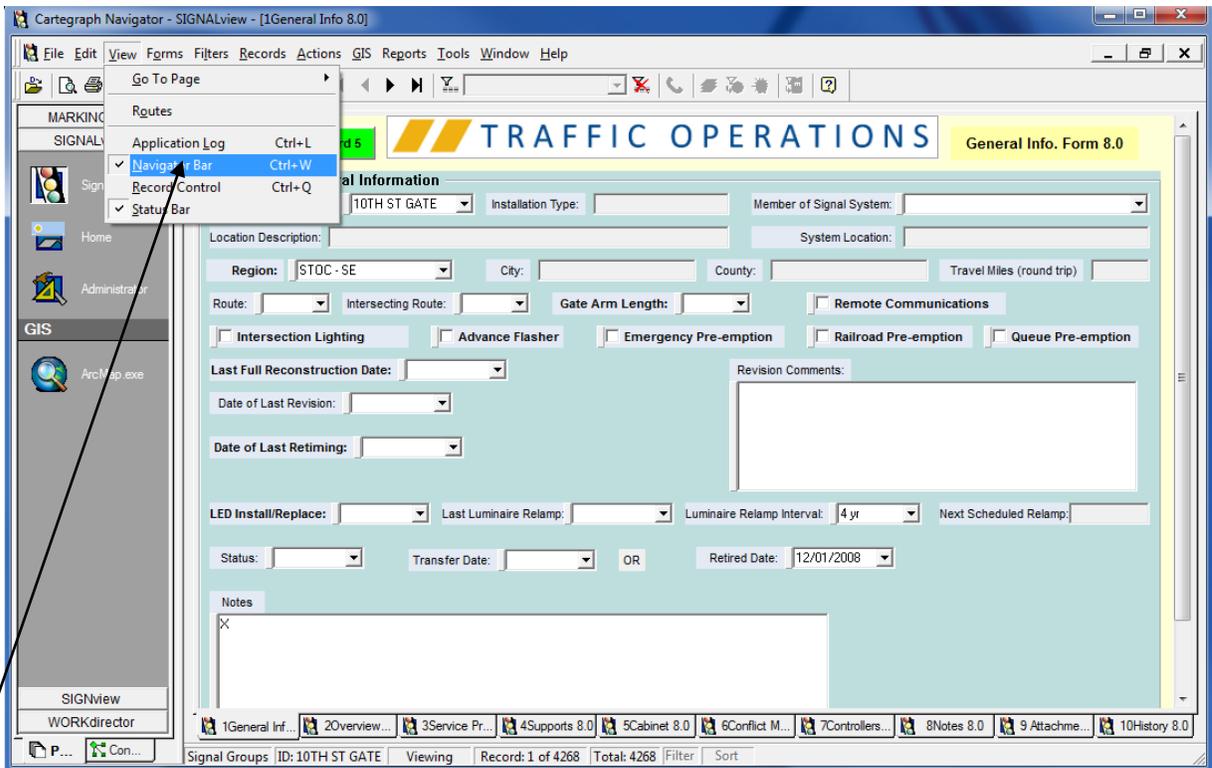
If you're unsure of what each button does on the tool bar, place the cursor over the individual button. A small dialog box will appear telling you what that tool or button does.

The Navigation Buttons will allow you to move forward or backward through the records (installations) you've entered.

The Navigator Bar allows you to select what CarteGraph module you want to work in. Initially, this will always be SIGNALview but eventually, you might be asked to complete entries in WORKdirector as well.



When opening a Cartegraph module, simply hit the icon within the Navigator Bar. In this case, hit SIGNALview for SIGNALview to open.



To hide the Navigator bar and open your forms to maximum size, simply uncheck "Navigator Bar" under View on the Menu.

SIGNALview without the Navigator Bar on the left side.

Cartegraph Navigator - SIGNALview - [1 General Info 8.0]

File Edit View Fgrms Filters Records Actions GIS Reports Tools Window Help

Back 5 Forward 5 TRAFFIC OPERATIONS General Info. Form 8.0

Installation General Information

Installation Number: S0461 Installation Type: Signal Member of Signal System: SS0089

Location Description: STH 16 & Garland St System Location: STH 16

Region: Southwest - La Crosse City: West Salem County: La Crosse Travel Miles (round trip): 28 mi

Route: _016E Intersecting Route: Gate Arm Length: Remote Communications

Intersection Lighting Advance Flasher Emergency Pre-emption Railroad Pre-emption Queue Pre-emption

Last Full Reconstruction Date: 11/28/2001 Revision Comments:

Date of Last Revision: Date of Last Retiming: 01/17/2013

LED Install/Replace: 09/01/2002 Last Luminaire Relamp: 04/01/2012 Luminaire Relamp Interval: 4 yr Next Scheduled Relamp: 04/01/2016

Status: Active Transfer Date: OR Retired Date:

Notes

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Signal Groups ID: S0461 Viewing Record: 2032 of 2998 Total: 4268 Filter Print

Records and Forms

One of the most difficult concepts to grasp about SIGNALview is the concept of what is being shown on the screen. Near the bottom of the screen, you will see some tabs stating “General Info”, “Service Provider” and “Overview”, “Supports”, “Controllers”, “Conflict Monitors”, “Cabinet”, “Attachments”, “Notes” and “History”. Each of these tabs is a **FORM** used to show specific information about the record. Closer to the bottom is an identification of which record number you’re looking at.

*Although there may be several forms, you must understand that the information on all of the forms relates to only one **RECORD** or **INSTALLATION**.*

We will go through each of the forms as we progress through this guideline and what information each form shows about the record or installation you are on.

Fields

Included in all forms are “Fields” of information. These Fields of information can be of different types. The following will give you an idea of what types of Fields require data to be entered.

Auto-fill – This type of field will automatically fill in information for you. You can overwrite the information if you want by clicking in the box and making a different selection.

Required – The information for this field type is mandatory. You will not be able to save any information on the form without entering information in the field.

Locked – The information in this field is contained in a drop down box. You must select information out of the selections noted in the box only. The end user will not be able to add more selections.

User Entry – The information in this type of field is filled in by the user. Often times however there is a *unique* qualifier associated with type of field. You can enter the information but the computer will tell you if there is a listing of the same type in that field already. The Owner Contact field is an example of this type of field.

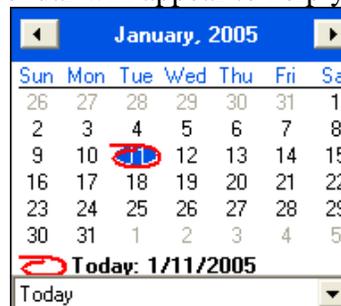
Number – For this type of field, a small calculator will appear that you can use to enter the



numbers or you can simply type the numbers in the field.

Text – A field where you can enter alphanumeric characters.

Date – For a field requiring a date, a small calendar will appear to help you choose the date and



enter it in the proper format for the computer.

Read Only – For this type of field, the entry box will be grayed out. The information will automatically be filled in when you make a selection elsewhere on the form. You cannot enter the information directly into a Read Only field.

Yes / No – Typically a checkbox. Check the box if Yes. Leave it blank for No.

General Information Form

To Add a new record, you can hit this button. This will clear all entries.

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TRAFFIC OPERATIONS General Info. Form 8.0

Installation General Information

Installation Number: S0461 Installation Type: Signal Member of Signal System: SS0089

Location Description: STH 16 & Garland St System Location: STH 16

Region: Southwest - La Crosse City: West Salem County: La Crosse Travel Miles (round trip) 28 mi

Route: _016E Intersecting Route: Gate Arm Length: Remote Communications

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Notes

1General Inf... 2Overview... 3Service Pr... 4Supports 8.0 5Cabinet 8.0 6Conflict M... 7Controllers... 8Notes 8.0 9 Attachme... 10History 8.0

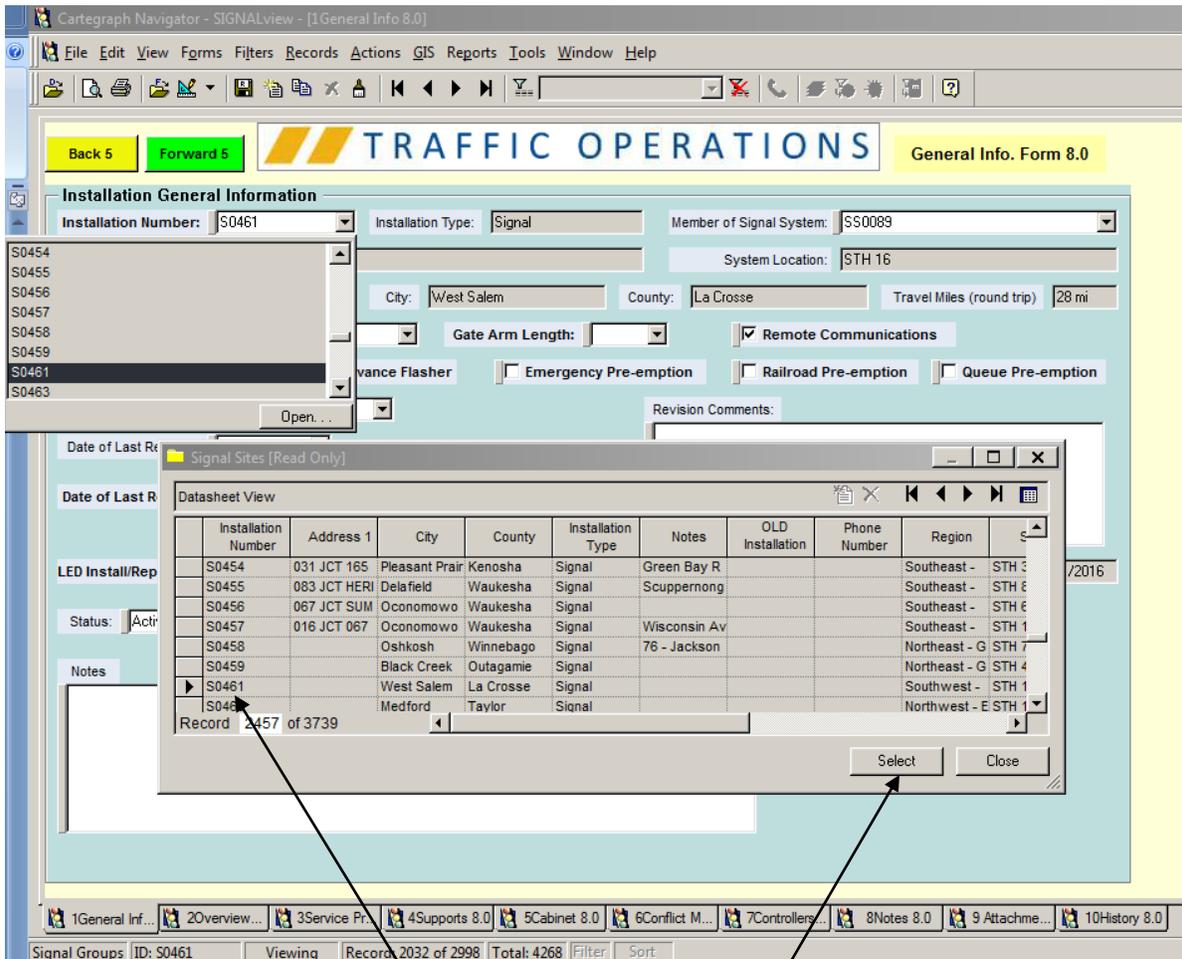
Signal Groups ID: S0461 Viewing Record: 2032 of 2998 Total: 4268 Filter Sort

Location Information

Installation Number – REQUIRED / LOCKED

All installations are already entered into SIGNALview for you. The installations that had been listed in OIS have been entered. As additional installations are approved, the installations will be added to the list field called Installation Number.

For the records / installations that you are responsible for, Select the appropriate installation off the listing as shown in the picture below.



Highlight the appropriate **Installation Number** and hit the “Select” button.

Cartograph Navigator - SIGNALview - [1General Info 8.0]

File Edit View Forms Filters Records Actions GIS Reports Tools Window Help

Back 5 Forward 5 **TRAFFIC OPERATIONS** General Info. Form 8.0

Installation General Information

Installation Number: S0461 Installation Type: Signal Member of Signal System: S50089

Location Description: STH 16 & Garland St System Location: STH 16

Region: Southwest - La Crosse City: West Salem County: La Crosse Travel Miles (round trip): 28 mi

Route: _016E Intersecting Route: Gate Arm Length: Remote Communications

Intersection Lighting Advance Flasher Emergency Pre-emption Railroad Pre-emption Queue Pre-emption

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Signal Groups | ID: S0461 | Viewing | Record: 2032 of 2998 | Total: 4268 | Filter | Sort

Several fields related to the Installation Number field are READ ONLY. They will fill in automatically based on the Installation Number you select.

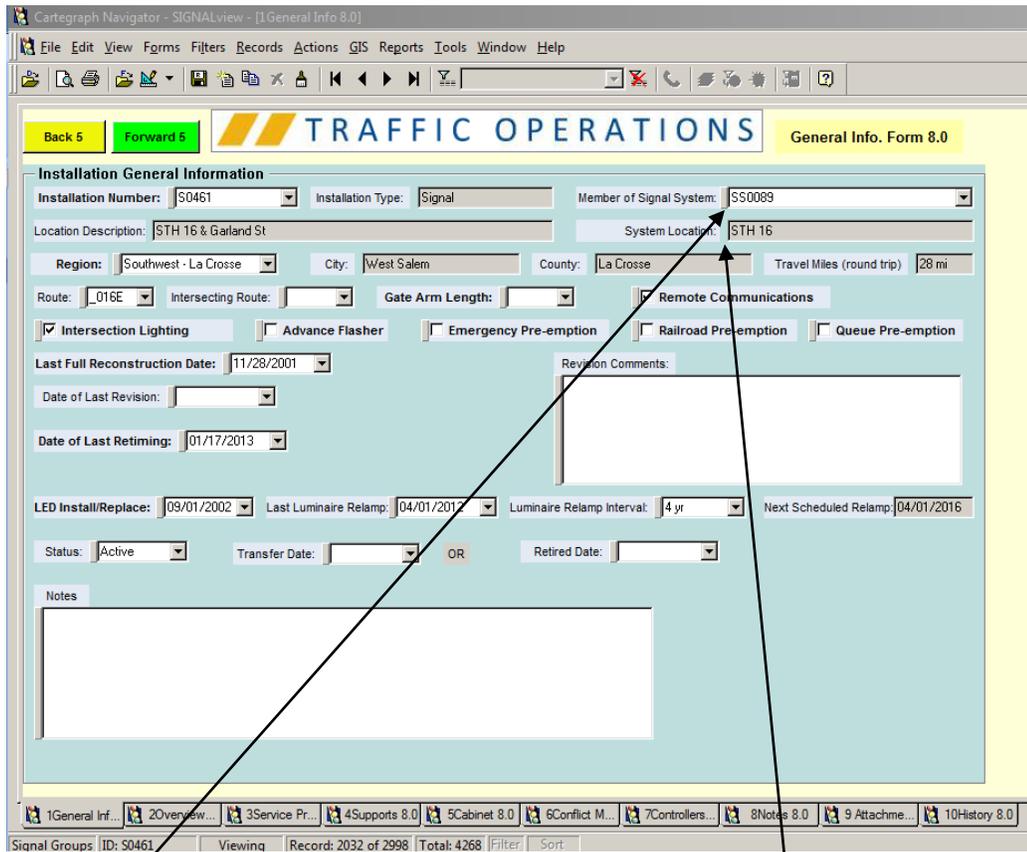
Installation Type

Location Description

City

County

Travel Miles



Member of Signal System - LOCKED

This field is selected when a signal installation is a member of a Signal System.

The System Location field is a READ ONLY field that will fill in based on the Signal System selection. The System Location field is the same as the Signal System ID column as seen below.

Installation Number	Signal System ID	City	County	Region	Travel Miles
SS0088	STH 16 & STH 67 NB to SB Ramps	Oconomowoc	Waukesha	Southeast -	
SS0089	STH 16	West Salem	La Crosse	Southwest -	
SS0090	STH 21	Tomah	Monroe	Southwest -	
SS0091	STH 83		Waukesha	Southeast -	

ID	Installation Number	Address Number	Advance Flasher	Arm Length	Cabinet Color	Cabinet Depth	Cabinet Height	Cabinet Position	Cabinet Width
S0419	S0419		<input type="checkbox"/>						W
S0461	S0461		<input type="checkbox"/>						W
S0863	S0863		<input type="checkbox"/>						W

This same signal system number (SS0071 in this example) would show up on each of these signal records.

Region – LOCKED

This field identifies which Regional office would be responsible for knowing the facts about the Installation. The user would select the region from the following list.

Route – LOCKED

Select the route the signal is located on.

Intersecting Route –

Select the intersecting route if necessary.

Gate Arm Length – NUMBER and UNITS

Remote Communications – YES/NO

When checked, the field indicates there is remote communications to the installation.

Intersection Lighting - YES / NO

When checked, the field indicates that there is lighting included in this installation. This would be applicable only to state maintained installations.

Advance Flasher – YES / NO

When checked, the field indicates there is a flasher on at least one approach to the installation.

Emergency Pre-emption – YES/NO

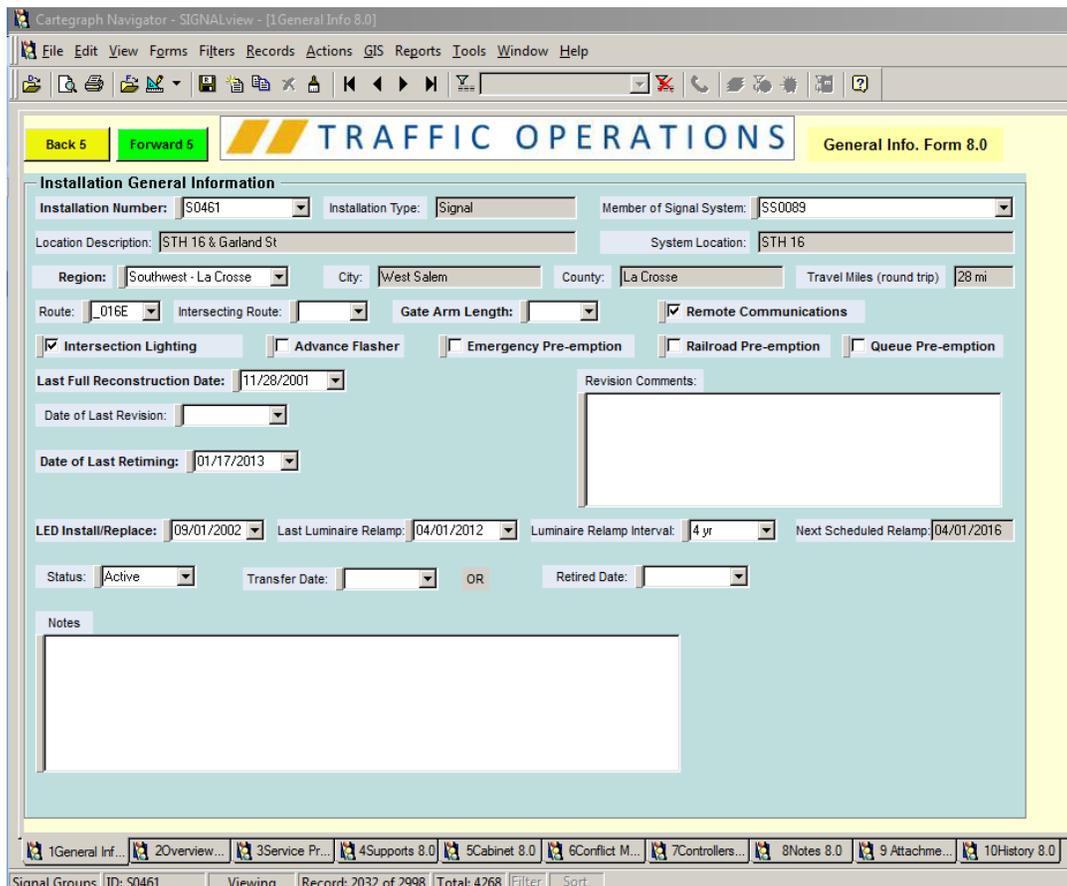
When checked, the field indicates there is emergency pre-emption at the installation.

Railroad Pre-emption – YES/NO

When checked, the field indicates there is railroad pre-emption at the installation.

Queue Pre-emption – YES/NO

When checked, the field indicates there is queue pre-emption at the installation.



Last Full Reconstruction Date – DATE

Enter the most recent construction project at the site.

Date of Last Revision – DATE

Identify the date of the last revision to the installation.

Date of Last Retiming – DATE

Identify the date of the Last Retiming

Revision Comments – TEXT

Enter any comments that may be applicable that would relate to the most recent revision(s).

LED Install/Replace – DATE

Identify the date of the most recent LED replacement. This would refer to a complete replacement that was *scheduled* for the installation and not simply one or two LED's.

Last Luminaire Relamp – DATE

Identify the date of the last *scheduled* luminaire replacement.

Next Scheduled Relamp – READ-ONLY

This is calculated based on the date entered in Last Luminaire Relamp and the Luminaire Relamp Interval.

Status – LOCKED

A screenshot of a software interface showing a drop-down menu with four options: Active, Inactive, Temporary, and Transferred. Below the menu is a button labeled 'Open...'.

Select a choice from the drop down box which indicates the current status of the installation.

Transfer Date – DATE

Identify the date of transfer to another jurisdictional authority.

OR

Retired Date – DATE

Identify the date the installation was retired or no longer in service.

Notes – TEXT

This field allows you to enter any other notes about this signal site.

Saving the Installation Record

In order to Save an installation record, you will need to hit the Save Button on the top Tool Bar.

Cartograph Navigator - SIGNALview - [1 General Info 8.0]

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Installation General Information

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Signal Groups ID: S0461 Viewing Record: 2032 of 2998 Total: 4268 Filter Sort

When you hit the Save button, the following pop up screen will appear.

Event Entry - Signal Groups

Enter event information for the 'Signal Groups' record:
S0461

Completed: Reset

When Started: 11/18/2013

When Ended: 11/18/2013

Work Order #:

Activity:

Who: dota2h

Why:

Cost:

Notes:

Equipment:

Equipment ID:

Save Bypass

Be sure to Save the record when you complete the General Information Form.

After you hit the save button, the following Event Entry Form will appear asking you for further information.

Event Entry Form

When Started – AUTO-FILL / DATE

This field will be automatically filled in but can be overwritten. Typically this will be the same as the *When Ended* field.

When Ended – AUTO-FILL / DATE

This field will be automatically filled in but can be overwritten.

Work Order # - USER ENTRY

This field will be used in Phase 2 of the implementation.

Activity – LOCKED

Select the Activity that describes the work accomplished. This will be from a drop down box as noted below.

Initial Data Entry would be selected during Phase 1 of this implementation.

Who – AUTO-FILL -TEXT

The **Who** field will automatically entered based on who is logged in at the time of the entry. This field can be overwritten if need be and a drop down box of choices is also available.

Why - LOCKED

The **Why** field can be skipped and will be explained further in Phase 2 of this implementation. Effectively, this field will be used for service reports later on and will equal the “Reason for Activity: field in OIS.

Notes – TEXT

Add any notes that may be related to the work accomplished.

*Other fields of information on this **Event Entry Form** do not need to be entered.*

Service Provider Information Form

The screenshot shows a software window titled 'Cartegraph Navigator - SIGNALview - [3Service Provider Info 8.0]'. The main content area is a form titled 'Service Provider Info. Form 8.0' with a 'TRAFFIC OPERATIONS' header. The form is divided into several sections:

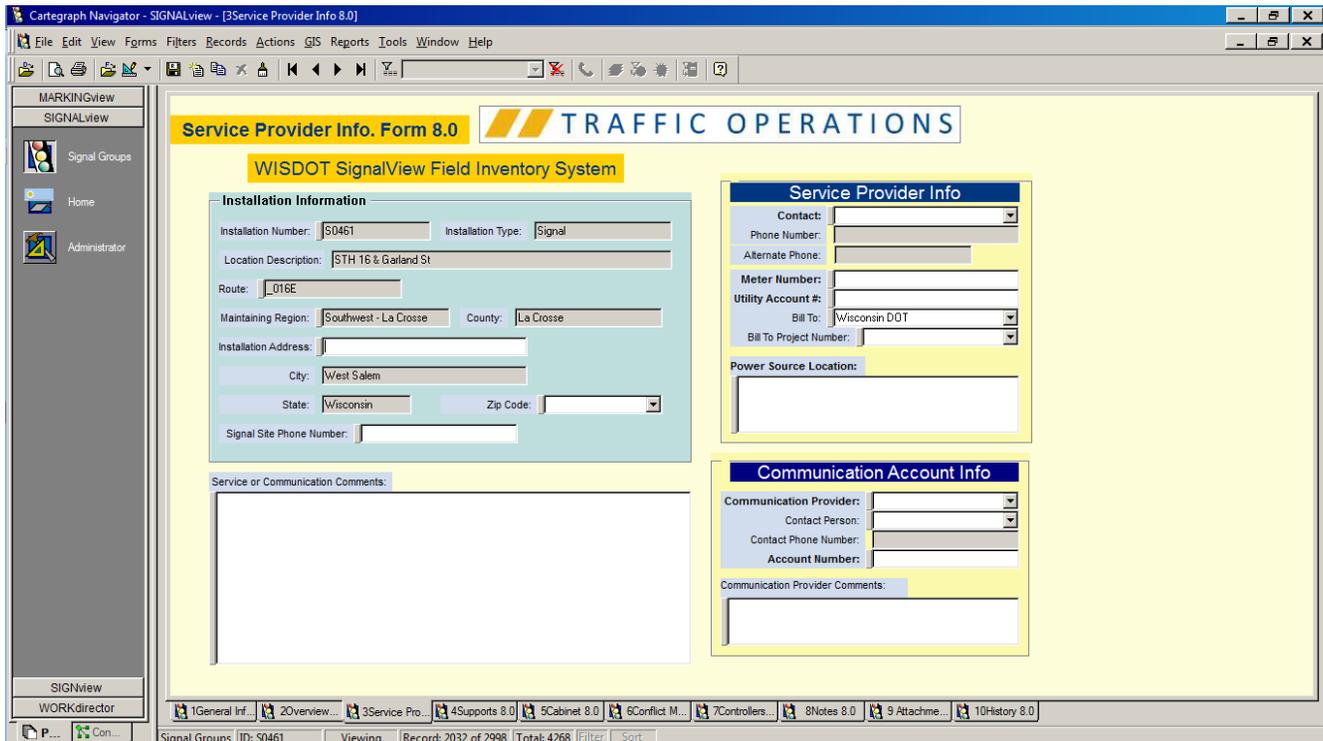
- Installation Information:** Fields for Installation Number (S0461), Installation Type (Signal), Location Description (STH 16 & Garland St), Route (_016E), Maintaining Region (Southwest - La Crosse), County (La Crosse), Installation Address, City (West Salem), State (Wisconsin), Zip Code, and Signal Site Phone Number.
- Service Provider Info:** Fields for Contact (dropdown), Phone Number, Alternate Phone, Meter Number, Utility Account #, Bill To (Wisconsin DOT), and Bill To Project Number. A section for Power Source Location is also present.
- Communication Account Info:** Fields for Communication Provider (dropdown), Contact Person (dropdown), Contact Phone Number, and Account Number. A section for Communication Provider Comments is also present.

At the bottom, a status bar shows 'Signal Groups ID: S0461', 'Viewing', 'Record: 2032 of 2998', 'Total: 4268', and 'Filter: Sort:'. The taskbar at the very bottom shows several open applications including 'General Inf.', '2Overview...', '3Service Pro...', '4Supports 8.0', '5Cabinet 8.0', '6Conflict M...', '7Controllers...', '8Notes 8.0', '9 Attachme...', and '10History 8.0'.

The purpose of this form is to provide fields to store information related to utility providers for the installation. This may be power company information or providers for communication such as local telephone companies.

General information about the record / installation you are looking at is carried over from the *General Information Form*. The READ ONLY, carry over information includes the following fields;

Installation Number
Installation Type
Location Description
Route
Maintaining Region
County
City
State



Fields of information that the user will need to fill in on this form will include the following;

Installation Address – TEXT

Identify the local mailing address for the installation.

Zip Code – NUMBER

Identify the zip code for the installation.

Signal Site Phone Number – TEXT

If the installation has a local phone line for communication, identify the area code and number in this field.

Service Provider – USER ENTRY / TEXT / UNIQUE

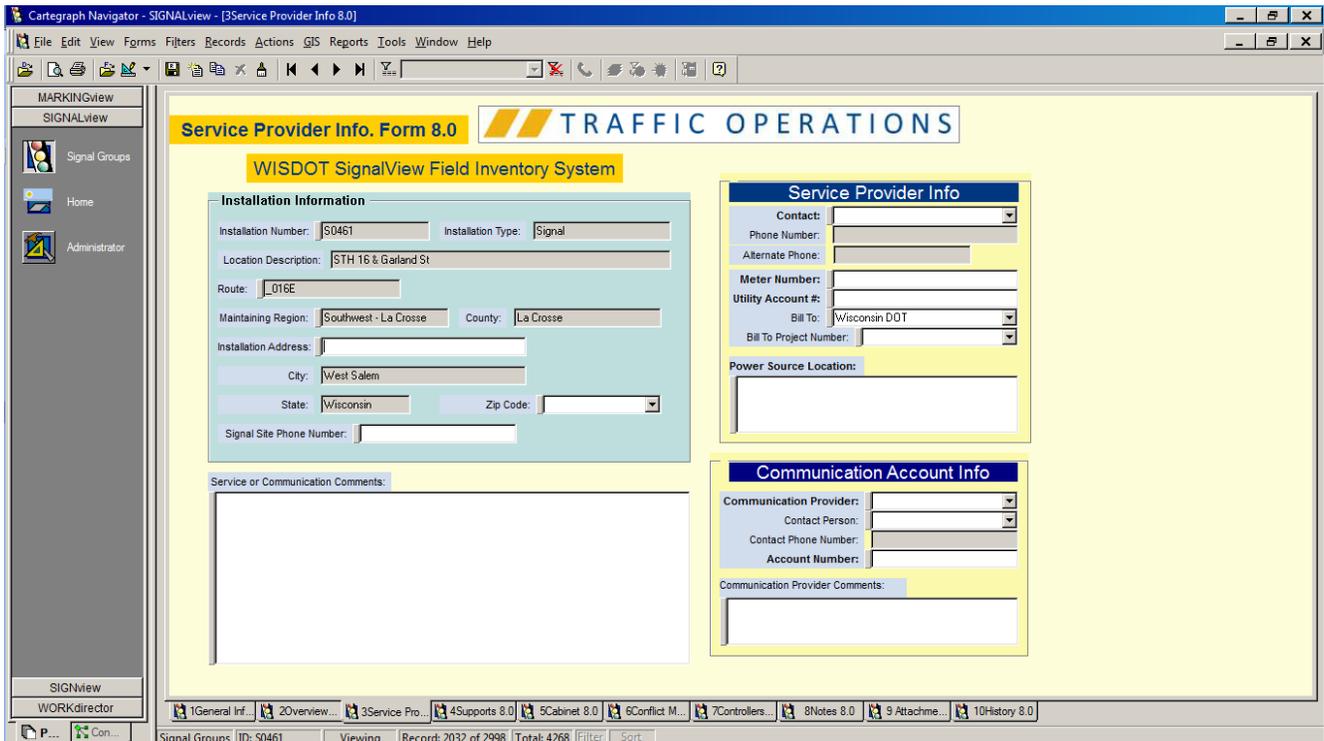
Enter the service provider or select the company from the current listing.

Contact Person – TEXT / UNIQUE

Enter or select the contact person from the utility company providing the service.

Phone Number – READ ONLY

The phone number for the individual chosen as the contact person will appear as a read only field.



Meter Number – TEXT

The meter number for the service should be shown in this field.

Utility Account # - TEXT

The account number for the service provider should be entered in this field.

Bill To – USER ENTRY / UNIQUE

In some instances, the service may be billed to a different agency. Provide the name of the organization who will be paying this utility bill.

Bill To Project Number – TEXT

Identify the project number for the billing of this utility usage.

Power Source Location – TEXT

In some instances, the source of the service may be away from the cabinet. This field allows the user to identify where the power is coming from.

Service or Communication Comments - TEXT

Any additional notes or comments related to the service or communication line for the installation could be entered in this comments block.

Communication Provider – USER ENTRY / TEXT / UNIQUE

Enter the communication provider or select the company from the current listing.

Contact Person – TEXT / UNIQUE

Enter or select the contact person from the communication or telephone company providing the phone service.

Contact Phone Number – READ ONLY

The phone number for the individual chosen as the contact person will appear as a read only field.

Account Number - TEXT

The account number for the communication provider should be entered in this field.

Communication Provider Comments – TEXT

Any unique or specific comments that may provide insight relative to the communication provided for this installation would be placed in this field.

Signal Overview Form

The purpose of this form is to allow the user the ability to enter or review field information about an installation on a form that can be reviewed quickly. Relationships between what materials are on what support can be seen and identified.

In the example noted above, the SB8 support that is highlighted has two head units mounted on it.

When you review this Overview Form, you will note that information from the *General Form* automatically has been entered (READ ONLY) at the top of the page. This identifies which record / installation you are currently working on.

In addition, we have placed reminders of what installation you are working on down the left side of the page so if you scroll down, you can be reminded of what record you're on.

Support reminders are also generated automatically down the left side of the page based on what Support you currently have highlighted.

Knowing what record you are on is critical since you don't want to be entering information into the Overview form thinking you're on signal # S0941 when you're really on S0942. *Record or installation numbers are always identified on the lower left corner of any form you bring up.*

Signal Overview Form (Continued)

The Overview form contains specific information about the following assets at an intersection;

Supports is a *Parent* Recordset. Parents need to be entered through the “Chain” grid.

Head Units on each Support

Arms on each Support

Luminaries on each Support

Auxiliary Equipment on each Support

*Head Units, Arms, Luminaires and Auxiliary Equipment are all **Child** Recordsets associated to **Supports**. Child records can be entered directly on the form.*

Signal Overview Form (Continued)

Head Units

Plan Location - Head #	Commodity Code Description	Shield Type	Head Unit Layout	Programmable Head	Note
1	SIGNAL HEAD, 12 in 5 SEC., W/LEFT TURN ARROWS/Cutaway				
8	SIGNAL HEAD, 12 in 5 SEC., W/LEFT TURN ARROWS/Cutaway				

Luminaries

Location	Commodity Code Description
*	

Controllers At This Installation:

Controller Model	Serial Number	Notes	Last Inspection Date	Total Failures
EPAC3608M34	78793			

Conflict Monitor At This Installation:

Model	Serial Number	Notes	Last Inspection Date	Total Failures
MMU-16LEip	080605430			

Cabinet At This Installation:

Cabinet Type	Cabinet Manufacture	Cabinet Material	Interconnection	Master	Emergency Preemption	Railroad Preemption	Queue Detection	Preemption EVP Model	Preemption EVP Contact	Preemption PRR Contact	Cabinet Photocell
Type 9	Traffic Control	Aluminum			<input checked="" type="checkbox"/>				Grand Chute, Town		<input checked="" type="checkbox"/>
*											

Controllers is a *Parent* Recordset and would need to be entered through the “Chain” grid.

Conflict Monitors is a *Parent* Recordset and would need to be entered through the “Chain” grid.

Cabinets is a *Parent* Recordset and would need to be entered through the “Chain” grid.

Associating Records

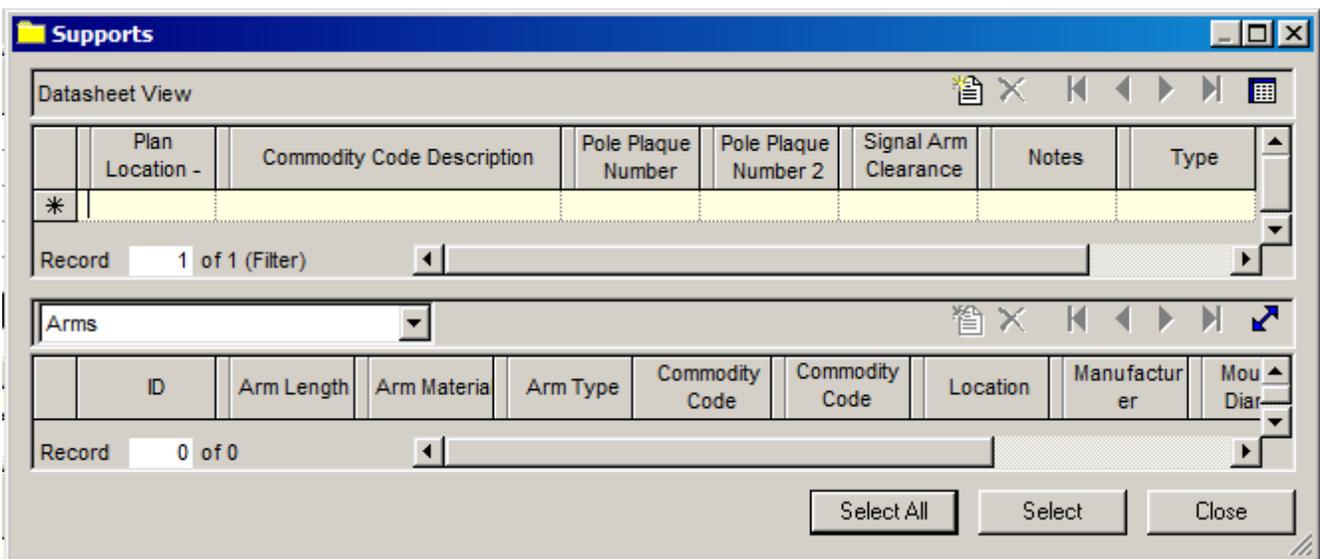
SIGNALview is the only Cartegraph module that WisDOT uses where you can associate a record. This is a process of creating a record that can be linked to the main Signal record. The associated records do have their own child level records as well. Associated records are used because of the ability of Controllers, Conflict Monitors, and Cabinets to be moved from one Signal Group to another. Records can be associated on the Overview, Controllers, Conflict Monitors, and Cabinet pages.

The Chain



In order to ADD any fields of information into a **Parent Recordset**, you must first hit the “Chain”.

This will open a new window that will look exactly like the one on the form. You must however, *enter the information in the “Chain” grid* and Select one line or use Select All to capture all the lines of information.



Plan Location – Base # - TEXT

This field identifies the support base number as noted on the installation plan and should be entered for all supports having base numbers. It is recognized that not all plans have base numbers identified.

Commodity Code Description – LOCKED

The field allows the end user to identify the material used for the support. The Commodity Code listing is the same as the one used in OIS for all actively used, standard materials.

Pole Plaque Number – TEXT

If the support has a pole plaque, the plaque number would be identified in this field.

Pole Plaque Number – TEXT

If the support has a pole plaque, the plaque number would be identified in this field.

Signal Arm Clearance Height – NUMBER

The would be the lowest distance over the traveled roadway for this support arm. Although this is not a required field at this time, in some instances, this field may be beneficial, where there are a significant number of house moves along a particular route for example.

Notes – TEXT

Enter notations relative to any issues for this specific support. An example might be if a utility line is in close proximity of the base.

Type– DROP DOWN

Enter the type of material the support is made of.

Head Units that are listed in this grid are associated with the **Support** that is highlighted and shown in this field.

Plan Location Head #	Commodity Code Description	Shield Type	Head Unit Layout	Programmable Head	Note
1	SIGNAL HEAD, 12 in 5 SEC., W/LEFT TURN ARROWS/	Cutaway		<input type="checkbox"/>	
8	SIGNAL HEAD, 12 in 5 SEC., W/LEFT TURN ARROWS/	Cutaway		<input type="checkbox"/>	

Plan Location Head # - TEXT

This field identifies the head unit number as noted on the signal plan.

Commodity Code Description – LOCKED

The field allows the end user to identify the material used for the head unit. The Commodity Code listing is the same as the one used in OIS for all actively used, standard materials and is the same list used previously to identify the support material. This Commodity Code Description list will be used several times in SIGNALview and WORKdirector.

Shield Type – AUTO-FILL / LOCKED

The Shield Type field identifies what type of visor is on the associated head unit. The system will automatically fill –in “Cutaway” but the user can select another entry off the list if needed.

Head Unit Layout - DROP DOWN

Choose the correct Head Unit Layout.

Programmable Head – YES/NO

Is the Head programmable

Notes – TEXT

Enter notations relative to any head unit issues. The reason why the height is non-standard would be an example.

Arms

	Location	Commodity Code Description
▶	Over NB Lanes	MASTARM, LUMINAIRE, 12 ft ALUM. 4.5 in ROUND BRACKET
*	Over NB Lanes	MASTARM, 20 ft ALUMINUM, TYPE II (ROUND)

Location – LOCKED

The *Location* field for **Arms** describes which lanes of travel the arm is over. Make a selection off the drop down list. In the example above, the arm is located on the EBFR support and is *Over* the EB lanes of traffic. In the case of a support in a median holding two luminaire arms, one arm could be Over the EB Lanes and the other could be Over the WB Lanes.

Commodity Code Description – LOCKED

The field allows the end user to identify the material used for the head unit.

Luminaires

	Location	Commodity Code Description
▶	Over NB Lanes	LUMINAIRE, 250w, HPS, FLAT GLASS, GE
*		

Location – LOCKED

The *Location* field for luminaires is similar to the Arms Location field. It is based on which lanes of travel the luminaire is over. Make a selection off the drop down list.

Commodity Code Description - LOCKED

This field is used to identify which kind of luminaire is used at this location. Make a selection from the drop down list.

Last Lamp Replacement – DATE

This field should be filled in with the date of the last luminaire relamp. This field is not intended to be filled in for each and every lamp outage but rather is intended for scheduled luminaire relamps for the entire installation.

Auxiliary Equipment

The screenshot shows a software interface for 'Auxiliary Equipment'. On the left, there is a label 'Auxiliary Equipment On' with a dropdown menu showing 'SB04'. The main area is a table with the following columns: 'Equipment Type', 'EVP Model', 'Commodity Code', and 'Notes'. The table contains one row with the following data: 'EVP, Detector', '3M 254', 'EVP, DETECT', and 'D'. There is a small asterisk icon in the first column of the row below the first row. The table has a grey background and a white border.

Equipment Type	EVP Model	Commodity Code	Notes
EVP, Detector	3M 254	EVP, DETECT	D
*			

Auxiliary Equipment on a *Support* could be items such as pedestrian push buttons, EVP equipment, video detectors or cameras. A key point to remember however is to continue to associate the piece of equipment with the Support that it's mounted on.

You will note that reminders of what installation / record you are working with as well as what support is highlighted are shown in various places on the Overview Form.

Equipment Type – LOCKED

This field identifies the type of Auxiliary Equipment used on the support. Types are noted below which shows the drop down list for this field.

EVP Model – LOCKED

If the equipment on this support relates to EVP equipment, choose the Model from the dropdown list.

Commodity Code Description – AUTO-FILL / LOCKED

This field will be automatically filled in based on your selection of the EVP Model.

Notes – TEXT

If there are any special remarks you need to include about the auxiliary equipment listed on this line of the record, please use this field.

Controllers

You must use the “Chain” to enter the information into **Controllers**.

Controllers At This Installation:		Controllers				
Installation:	Controller Model	Serial Number	Notes	Last Inspection Date	Total Failures	
S0392	EPAC3608M34	78793				

Controller Model – LOCKED

Identify the type of controller used at this installation.

Serial Number – TEXT

Enter the serial number of the controller. This will be necessary in order to track the controller for inventory purposes and historical troubleshooting.

Notes – TEXT

You can enter any specific notes relative to this controller and/or cabinet within this field.

Last Inspection Date – READ ONLY / DATE

The system will automatically fill in this date when an event record has been entered showing an inspection has taken place for this controller. These inspections will be shown in more detail on the *Controller Form*.

Total Failures – READ ONLY/NUMBER

The system will automatically fill in this number based on the number of recorded failures.

Conflict Monitor

You must use the “Chain” to enter the information into **Conflict Monitor**.

Conflict Monitor At This Installation:		Conflict Monitors				
Installation:	Model	Serial Number	Notes	Last Inspection Date	Total Failures	
S0392	MMU-16LEip	080605430				

Model – LOCKED

Select the model of conflict monitor currently used for this installation / record.

Serial Number – TEXT

Enter the serial number of the conflict monitor at this installation.

Notes – TEXT

Enter any specific notes that may be relevant to the conflict monitor.

Last Inspection Date – DATE

This field will automatically fill in based on the last time this monitor was inspected. Inspections / reviews of the monitor are covered later in this guideline.

Total Failures – READ ONLY/NUMBER

The system will automatically fill in this number based on the number of recorded failures.

Cabinet

Cabinet At This Installation:										
	Cabinet Type	Cabinet Manufacture	Cabinet Material	Interconnection	Master	Emergency Preemption	Railroad Preemption	Queue Detection	Preemption EVP Model	
S0356					<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3M 254	
*					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Record 1 of 1

Cabinet Type – LOCKED

Select the cabinet type used for this installation / record.

Cabinet Manufacturer – LOCKED

Choose the cabinet manufacturer off the dropdown list.

Cabinet Material – LOCKED

Select the material the cabinet is made from.

Cabinet Offset – NUMBER

Identify the number of feet the cabinet is offset from the nearest roadway face of curb or edge of roadway, whichever is shorter.

Interconnection – LOCKED

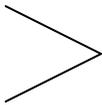
If the installation is part of an interconnected system, identify the type of interconnection used from the dropdown list.

Master

Emergency Preemption

Railroad Preemption

Que Detection Preemption



All 4 of these fields are YES / NO and are self explanatory. If the identified column pertains to this controller, check it.

Preemption EVP Model - LOCKED

If the cabinet has associated EVP equipment, highlight the correct line and *select* the model that is used from the dropdown box.

Preemption EVP Contact – TEXT / UNIQUE

This field contains the contact person or agency relative to the EVP operation. This is the same contact list as noted several times earlier.

Preemption RR Contact – TEXT / UNIQUE

This field is for the contact person or agency for Railroad Preemption operation.

Cabinet Photocell – YES / NO

Check this box if the cabinet has a photocell in operation.

Backup Power Supply – YES / NO

Check this box if there is a backup power supply available for this installation.

Manual Time Clock – YES / NO

If there is a manual time clock that is used at this installation, check this box.

Cabinet (*Continued*)

Auxiliary Output – YES / NO

If the controller / cabinet has an auxiliary output, check this box.

Auxiliary Output Description – TEXT

Identify the auxiliary output in this field.

Notes – TEXT

You can enter any specific notes relative to this cabinet within this field.

Last Inspection Date – READ ONLY / DATE

The system will automatically fill in this date when an event record has been entered showing an inspection has taken place for this controller / cabinet. These inspections will be shown in more detail on the *Controller Form*.

Inspection Interval – AUTO-FILL / NUMBER

This field shows what the typical inspection interval is for cabinets. The field will default to 12 months and is used to help identify the next scheduled inspection date by adding the *Inspection Interval* to the *Last Inspection Date* field.

Next Inspection Date – AUTO-FILL / DATE

This field will automatically fill in based on the *Last Inspection Date* and *Inspection Interval* fields.

Supports Form

Installation Information

Installation Number: S0356 Location Description: STH 59 / Genesee Rd & CTH X / Salesville Rd Installation Type: Signal

City: Waukesha County: Waukesha Region: Southeast - West Allis

Record: 6 of 16 Plan Loc: SB04 Int: 1

List of Supports | Heads \ Arms \ Luminaires \ Aux Equipment | Condition | Notes |

List of Supports

Plan Location - Base #	Commodity Code Description	Pole Plaque Number	Pole Plaque Number 2	Signal Arm Clearance Height
SB16	STANDARD, TRAF SIG, 13 X 4 in ALUM, UNPAINTED SCH 80			
SB01	POLE, 20 ft ALUMINUM, TYPE 2			
SB15	STANDARD, TRAF SIG, 13 X 4 in ALUM, UNPAINTED SCH 80			
SB08	STANDARD, TRAF SIG, 13 X 4 in ALUM, UNPAINTED SCH 80			
SB06	STANDARD, TRAF SIG, 13 X 4 in ALUM, UNPAINTED SCH 80			
SB04	POLE, 30 ft ALUMINUM, TYPE 5			
SB14	POLE, 30 ft ALUMINUM, TYPE 5			
SB07	POLE, 30 ft ALUMINUM, TYPE 5			
SB12	POLE, 20 ft ALUMINUM, TYPE 2			
SB11	STANDARD, TRAF SIG, 15 ft X 4 in ALUM, UNPAINT SCH 80			
SB03	STANDARD, TRAF SIG, 15 ft X 4 in ALUM, UNPAINT SCH 80			
SB02	STANDARD, TRAF SIG, 13 X 4 in ALUM, UNPAINTED SCH 80			
SB05	POLE, 20 ft ALUMINUM, TYPE 2			
SB10	STANDARD, TRAF SIG, 13 X 4 in ALUM, UNPAINTED SCH 80			
SB09	POLE, 20 ft ALUMINUM, TYPE 2			
SB13	STANDARD, TRAF SIG, 13 X 4 in ALUM, UNPAINTED SCH 80			

Record 6 of 16

1 General Inf... 2 Overview... 3 Service Pr... 4 Supports 8.0 5 Cabinet 8.0 6 Conflict M... 7 Controllers... 8 Notes 8.0 9 Attachme... 10

Signal Groups ID: S0356 Viewing Record: 1958 of 2998 Total: 4268 Filter Sort

The information on the **Supports Form** is the same as that entered from the *Overview Form*. The user can “see” the specific information listed in a slightly different manner.

As was the case on the *Overview Form*, the identification of what installation / record you are looking at is shown at the top of the page.

Note the *tabs* where you can see the specific information.

List of Supports tab is highlighted here.

Supports Form (Continued)

Installation Information

Installation Number: S0356	Location Description: STH 59 / Genesee Rd & CTH X / Salesville Rd	Installation Type: Signal
City: Waukesha	County: Waukesha	Region: Southeast - West Allis

Record: 6 of 16 Plan Loc: SB04 Int: 1

List of Supports **Heads \ Arms \ Luminaires \ Aux Equipment** | Condition | Notes

Head Units

Plan Location - Head #	Commodity Code Description	Shield Type	Head Unit Layout	Programmable Head	Notes
*				<input type="checkbox"/>	

Arms

Location	Commodity Code Description
▶	Over NB Right Turn MASTARM, LUMINAIRE, 6 ft ALUM. 4 in ROUND BRACKET
*	

Luminaires

Location	Commodity Code Description
▶	Over NB Right Turn LUMINAIRE, 150w, MULTITAP, FLAT GLASS, GE
*	

1 General Inf... 2 Overview... 3 Service Pr... 4 Supports 8.0 5 Cabinet 8.0 6 Conflict M... 7 Controllers... 8 Notes 8.0 9 Attachme... 10

Signal Groups ID: S0356 Viewing Record: 1958 of 2998 Total: 4268 Filter Sort

Note that the **Heads \ Arms \ Luminaires \ Aux Equipment** tab is highlighted.

Which Support you are reviewing is shown in this area of the form.

You can navigate through the supports you are reviewing with these arrows.

Controller Form

Cartegraph Navigator - SIGNALview - [7Controllers 8.0]

File Edit View Forms Filters Records Actions GIS Reports Tools Window Help

Controller Form 8.0 TRAFFIC OPERATIONS

Installation Information

Installation Number: S0356 Installation Type: Signal Member of Signal System: _____

Location Description: STH 59 / Genesee Rd & CTH X / Salesville Rd System Location: _____

City: Waukesha County: Waukesha Region: Southeast - West Allis

Record: 1 of 1 Controller Model: EPAC3608M34 Serial Number: _____ Total Failures: _____

Features Condition Notes

Controller Information

Controller Model: EPAC3608M34

Controller Type: Actuated

Manufacturer: Eagle

Serial Number: _____

Firmware Version: _____

Commodity Code Description: CONTROLLER, EPAC

Controllers: Master:

IP Address: _____

Key Dates

Original Purchase Date: _____

Last C.O. Inspection Date: _____

1 General Inf... 2 Overview... 3 Service Pr... 4 Supports 8.0 5 Cabinet 8.0 6 Conflict M... 7 Controllers... 8 Notes 8.0 9 Attache... 1

Signal Groups ID: S0356 Viewing Record: 1958 of 2998 Total: 4268 Filter Sort

The information on the **Controller Form** is the same as that entered from the *Overview Form*. The user can “see” the specific information in a slightly different manner.

As was the case on the *Overview Form*, the identification of what installation / record you are looking at is shown at the top of the page.

Controller Model – LOCKED

Identify the type of controller used at this installation.

Controller Type – LOCKED

Manufacturer – LOCKED

Serial Number – TEXT

Enter the serial number of the controller. This will be necessary in order to track the controller for inventory purposes and historical troubleshooting.

Firmware Version – LOCKED

Commodity Code Description – LOCKED

IP Address – LOCKED

This is a field that would be filled in by the Central office Electrical Shop.

Controller Form (Continued)

Controllers Master – YES/NO

Original Purchase Date – DATE

This is a field that would be filled in by the Central office Electrical Shop.

Last C. O. Inspection Date – DATE

This field would be related to the date the controller was last inspected and approved for service by the Central Office Electrical Shop.

Cartegraph Navigator - SIGNALview - [7Controllers 8.0]

File Edit View Forms Filters Records Actions GIS Reports Tools Window Help

Controller Form 8.0 TRAFFIC OPERATIONS

Installation Information

Installation Number: S0356 Installation Type: Signal Member of Signal System:

Location Description: STH 59 / Genesee Rd & CTH X / Salesville Rd System Location:

City: Waukesha County: Waukesha Region: Southeast - West Allis

Record: 1 of 1 Controller Model: EPAC3608M34 Serial Number: Total Failures:

Features Condition Notes

Inspections by Central Office Electrical

Date	Notes
*	

Failure Log

Date	Notes
*	

1 General Inf... 2 Overview... 3 Service Pr... 4 Supports 8.0 5 Cabinet 8.0 6 Conflict M... 7 Controllers... 8 Notes 8.0 9 Attachme... 10

Signal Groups ID: S0356 Viewing Record: 1958 of 2998 Total: 4268 Filter Sort

The **Condition** tab provides a historical record of cabinet checks and failure logs of the controller.

The **Inspection Log** will be filled out by Central Office Electrical Shop staff to identify what, if any components or testing was accomplished.

The **Failure Log** will be filled in by Regional staff identifying what problems had been noted with the unit.

This Failure and Inspection log information will “Move” to whatever record the unit is associated with. Moving Controllers or Conflict monitors will be covered elsewhere within this training guide.

Extra **Notes** can be added for each controller through this tab.

Conflict Monitor Form

Conflict Monitor Form 8.0 TRAFFIC OPERATIONS

Installation Information

Installation Number: S0361	Location Description: STH 21 / STH 73 / Main St & STH 22 / Waupaca St	Installation Type: Signal
City: Wautoma	County: Waushara	Maintaining Region: North Central - Wisconsin Rapids

Record: 1 of 1 Conflict Monitor Model: SSM-12E Serial Number: 9509-688 Total Failures: 0

Identification | Condition | Notes

Features

Conflict Monitor Model: SSM-12E	Revision Number:
Manufacturer: EDI	IP Address:
Serial Number: 9509-688	Key Dates
Commodity Code Description: MONITOR, CONFLICT, TRAFFIC CONTROL, 12 CHANNEL PER	Last Inspection Date: 04/26/2013
Commodity Code: 55080027725	Original Purchase Date:
	Inspection Interval: 12 mo
	Next Inspection Date: 04/26/2014

1 General Inf... 2 Overview... 3 Service Pr... 4 Supports 8.0 5 Cabinet 8.0 6 Conflict Mo... 7 Controllers... 8 Notes 8.0 9 Attachme... 10 Hi

Signal Groups ID: S0361 Viewing Record: 1959 of 2998 Total: 4268 Filter Sort

The information on the **Conflict Monitor Form** is the same as that entered from the *Overview Form*. The user can “see” the specific information in a slightly different manner.

As was the case on the *Overview Form*, the identification of what installation / record you are looking at is shown at the top of the page.

Conflict Monitor Model – LOCKED

Identify the type of conflict monitor used at this installation.

Manufacturer – LOCKED

Identify the Manufacturer

Serial Number – TEXT

Enter the serial number of the conflict monitor. This will be necessary in order to track the monitor for inventory purposes and historical troubleshooting.

Commodity Code Description – LOCKED

Commodity Code – LOCKED

Conflict Monitor Form (Continued)

Revision Number –

IP Address –

Last Inspection Date – DATE

This Read Only field will show you the date of the last inspection as shown on the *Condition tab*.

Original Purchase Date – DATE

This is a field that would be filled in by the Central Office Electrical Shop.

Inspection Interval – AUTO-FILL / NUMBER

This field shows what the typical inspection interval is for cabinets. The field will default to 12 months and is used to help identify the next scheduled inspection date by adding the *Inspection Interval* to the *Last Inspection Date* field.

Next Inspection Date – AUTO-FILL / DATE

This field will automatically fill in based on the *Last Inspection Date* and *Inspection Interval* fields.

Conflict Monitor Form (Continued)

The **Condition** tab is highlighted in this view. Historical information can be entered relative to the dates of inspection / testing of the conflict monitor.

Inspection Dates for each time a conflict monitor has been bench tested should be entered in this area. This would typically be by regional office electrical staff.

A **Failure Log** of the conflict monitor would be recorded in this area. A historical Event Log would then be filled out to log this failure in the history log of the installation or record.



Cabinet Form

Installation Information

Installation Number: S0361 Installation Type: Signal Member of Signal System: [empty]
Location Description: STH 21 / STH 73 / Main St & STH 22 / Waupaca St System Location: [empty]
City: Wautoma County: Waushara Region: North Central - Wisconsin Ra

Cabinet Information

Cabinet Type: Type 9
Cabinet Manufacturer: Control Technologies
Cabinet Material: Aluminum

Auxiliary Output Cabinet Photocell
 Backup Power Supply Hand Control
 Manual Time Clock

Auxiliary Output Description: [empty]

Key Dates

Date the Cabinet was Placed in Service: 11/28/1998
Last Inspection Date: 10/10/2013
Inspection Interval: 12 mo
Next Inspection Date: 10/10/2014

The information on the **Cabinet Form** is the same as that entered from the *Overview Form*. The user can “see” the specific information in a slightly different manner.

As was the case on the *Overview Form*, the identification of what installation / record you are looking at is shown at the top of the page.

Cabinet Type – LOCKED

Select the cabinet type used for this installation / record.

Cabinet Manufacturer – LOCKED

Choose the cabinet manufacturer off the dropdown list.

Cabinet Material – LOCKED

Select the material the cabinet is made from.

Cabinet Form (Continued)

Installation Information

Installation Number: S0361 Installation Type: Signal Member of Signal System: [empty]
Location Description: STH 21 / STH 73 / Main St & STH 22 / Waupaca St System Location: [empty]
City: Wautoma County: Waushara Region: North Central - Wisconsin Ra

Cabinet Information

Cabinet Type: Type 9
Cabinet Manufacturer: Control Technologies
Cabinet Material: Aluminum

Auxiliary Output Cabinet Photocell
 Backup Power Supply Hand Control
 Manual Time Clock

Auxiliary Output Description:
[empty text area]

Key Dates

Date the Cabinet was Placed in Service: 11/28/1998
Last Inspection Date: 10/10/2013
Inspection Interval: 12 mo
Next Inspection Date: 10/10/2014

Signal Groups ID: S0361 Viewing Record: 1959 of 2998 Total: 4268 Filter Sort

Auxiliary Output – YES / NO

If the controller / cabinet has an auxiliary output, check this box.

Cabinet Photocell – YES / NO

Check this box if the cabinet has a photocell in operation.

Backup Power Supply – YES / NO

Check this box if there is a backup power supply available for this installation.

Hand Control – YES/NO

Check this box if there is a Hand Control in the Cabinet.

Manual Time Clock – YES / NO

If there is a manual time clock that is used at this installation, check this box.

Auxiliary Output Description – TEXT

Identify the auxiliary output in this field.

Date the Cabinet was Placed in Service Date – DATE

The date this cabinet was originally placed in service. Regional office staff would identify this date.

Last Inspection Date – DATE

This Read Only field will show you the date of the last inspection as shown on the *Condition tab*.

Inspection Interval – AUTO-FILL / NUMBER

This field shows what the typical inspection interval is for cabinets. The field will default to 12 months and is used to help identify the next scheduled inspection date by adding the *Inspection Interval* to the *Last Inspection Date* field.

Cabinet Form (Continued)

The **Features** tab provides a brief look at any EVP or Interconnection information.

EVP Model - LOCKED

If the cabinet has associated EVP equipment, highlight the correct line and *select* the model that is used from the dropdown box.

EVP Contact – TEXT / UNIQUE

This field contains the contact person or agency relative to the EVP operation.
This is the same contact list as noted several times earlier.

Railroad Preemption Contact – TEXT / UNIQUE

This field is for the contact person or agency for Railroad Preemption operation.

Interconnection – LOCKED

If the installation is part of an interconnected system, identify the type of interconnection used from the dropdown list.

Master – YES / NO

Checkbox to identify if this location / installation is a master in a signal system.

Cabinet Form (Continued)

Cartegraph Navigator - SIGNALview - [5Cabinet 8.0]

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Cabinet Form 8.0

Installation Information

Installation Number: Installation Type: Member of Signal System:

Location Description: System Location:

City: County: Region:

Identification | Features | **Condition** | AuxiliaryEquipment | Notes

Inspections 📄 🗑️ ✕ ⏪ ⏩ ⏴ ⏵

	Date	Notes	Cabinet Input Voltage	Cabinet Current Draw	Load Switch Output Voltage	Check Cabinet Flasher	Check Surge Protection	Check W Connect
▶	10/09/2012	cab. check	124 ac	2.8 ac	123 ac	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	06/21/2010		124.3 ac	2.6 ac	123.4 ac	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	10/10/2013		124 ac	2.8 ac	123 ac	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	06/03/2009		123.7 ac	4.5 ac	122.7 ac	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	01/30/2008	timing sheet dated 8/12/98	124.5 ac	4.9 ac	124 ac	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
*	09/16/2011		125 ac	2.4 ac	124 ac	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

1General Inf...
2Overview...
3Service Pr...
4Supports 8.0
5Cabinet 8.0
6Conflict M...
7Controllers...
8Notes 8.0
9 Attachme...
10History 8.0

Signal Groups | ID: S0361 | Viewing | Record: 1959 of 2998 | Total: 4268 | Filter: | Sort:

The **Condition** tab of the Cabinet form is a historical log of each time you perform an inspection on the cabinet. The specific information on what each field is intended to do can be seen in the Overview form section under Cabinet.

Attachments Form

Attachments 8.0 **TRAFFIC OPERATIONS**

Installation Information

Installation Number: S0401	Location Description: USH 45 / STH 70 & Rail Road St	Installation Type: Signal
City: Eagle River	County: Vilas	Maintaining Region: North Central - Rhinelander

Attachment	Notes
\\Rh31p1\sims\D7\CarteFiles\D7Signals\Attachments\S-401\Northbound.JPG	
\\Rh31p1\sims\D7\CarteFiles\D7Signals\Attachments\S-401\Westbound.JPG	
\\Rh31p1\sims\D7\CarteFiles\D7Signals\Attachments\S-401\Southbound.JPG	
\\Rh31p1\sims\D7\CarteFiles\D7Signals\Attachments\S-401\Eastbound.JPG	
\\Rh31p1\sims\D7\CarteFiles\D7Signals\Attachments\S0401 USH 45 S...	

\\Rh31p1\sims\D7\CarteFiles\D7Signals\Attachments\S-401\Northbound.JPG



Signal Groups: ID: S0401 | Viewing | Record: 1989 of 2999 | Total: 4270 | Filter | Sort

The **Attachments Form** allows the user to “attach” or link to another file. Clicking on the drop down arrow located here will open a window that will allow the user to identify where the file is located. Typically, all attachments should be located in the Server\sims\DxCarte Files\DXSignals\Attachment folder. This is where your .pdf plan files should be located.

Notes Form

Notes 8.0

TRAFFIC OPERATIONS

Installation Information

Installation Number: S0401	Location Description: USH 45 / STH 70 & Rail Road St	Installation Type: Signal
City: Eagle River	County: Vilas	Maintaining Region: North Central - Rhinelander

Hit me to Date Stamp Your Note

Signal Groups | ID: S0401 | Viewing | Record: 1989 of 2999 | Total: 4270 | Filter | Sort

Notes on an installation / record can be entered at any time by simply hitting this icon. This will automatically date stamp what you will be entering on the note.

Again, information about the installation that you are working on is located at the top of the page.

History Form

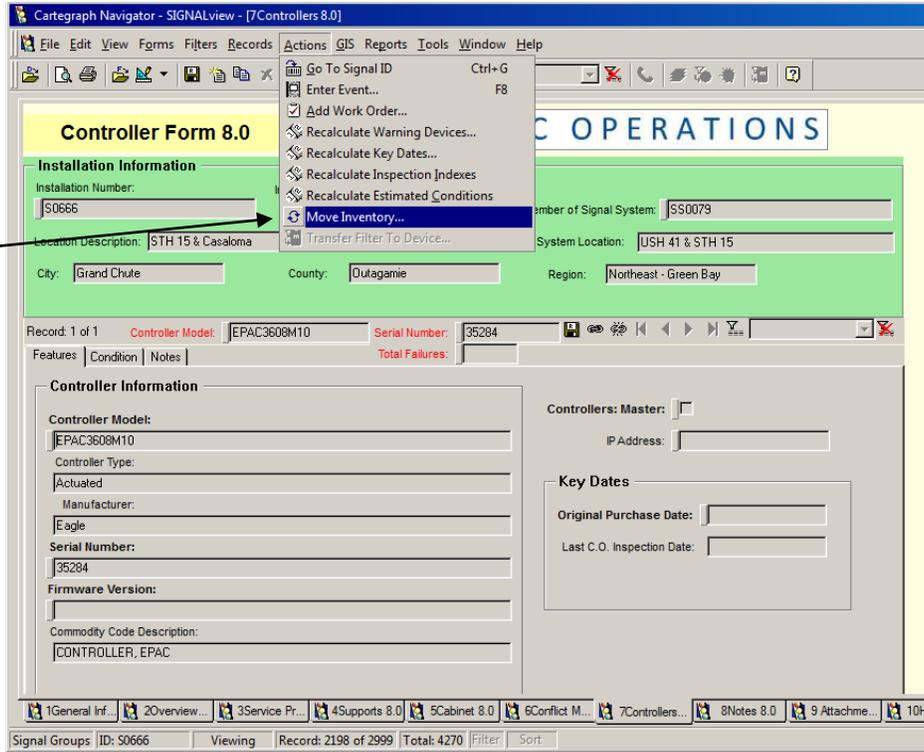
The **History Form** is a historical record of each time any user completed any work at the installation /record.

During Phase 1 of the implementation, the only records that will be added to the History log will relate to data entry. No service report information will be entered into SIGNALview until Work Director is implemented in Phase 2 of this system.

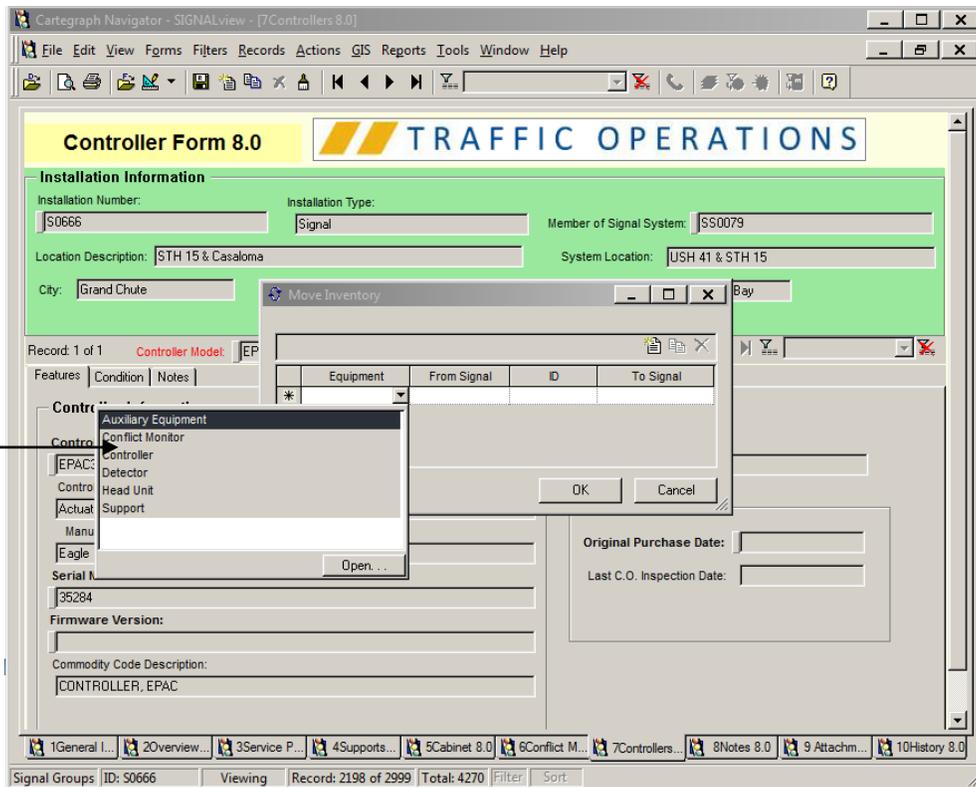
In order to Save an entry in the History log, you will need to hit the Save Button. When you hit the Save button, the following pop up screen will appear.

Note that the information fields are the same. Effectively, the Save button initiates the Historical log.

The Move Inventory Command



Go to the top Menu Bar under **ACTIONS** and select “*Move Inventory*”



Select the type of inventory you want to “Move”, in this case, a Controller.

The Move Inventory Command (Continued)

Cartograph Navigator - SIGNALview - [7 Controllers 8.0]

File Edit View Forms Filters Records Actions GIS Reports Tools Window Help

Controller Form 8.0 TRAFFIC OPERATIONS

Installation Information

Installation Number: S0666 Installation Type: Signal Member of Signal System: SS0079

Location Description: STH 15 & Casaloma System Location: USH 41 & STH 15

City: Grand Chute County: Outagamie Region: Northeast - Green Bay

Record: 1 of 1 Controller Model: EPAC

Features Condition Notes

Controller Information

Controller Model: EPAC3608M10

Controller Type: Actuated

Manufacturer: Eagle

Serial Number: 35284

Firmware Version:

Commodity Code Description: CONTROLLER, EPAC

Move Inventory

Equipment	From Signal	ID	To Signal
Controller	S0666	EPAC3608M10	S0078

Help OK Cancel

Original Purchase Date:

Last C.O. Inspection Date:

Signal Groups ID: S0666 Viewing Record: 2198 of 2999 Total: 4270 Filter Sort

“**From Signal**” select the Signal you want to move the equipment from.

Select the **ID** of the equipment.

You will select where the controller will “Move To” by selecting the “**To Signal**” from a list.

This procedure will automatically “move” the controller and all it’s historical events from the record you were on to the record you have selected. You would then have to repeat this “Move Inventory” procedure to move another controller from your stock to this installation record.

Standards For User Entry

- Capital letters shall be used for the first letter for street names. Small letters shall be used for all other letters for locations unless they are used in the formal name of the location described. (Example: Eau Claire)
- Abbreviations shall not be used except for the following:
 - Ave for Avenue
 - Blvd for Boulevard
 - Bus for Business
 - Cir for Circle
 - Ct for Court
 - Dr for Drive
 - Ent for Entrance
 - Frwy for Freeway
 - Hwy for Highway
 - Inter for Interchange
 - Jct for Junction
 - La for Lane
 - Pkwy for Parkway
 - Pl for Place
 - Rd for Road
 - Sq for Square
 - St for Street
 - Ter for Terrace
 - Tr for Trail
 - IH for Interstate Highway
 - USH for US Highway
 - STH for State Trunk Highway
 - CTH for County Trunk Highway
 - Co for the use of County in a name, such as Barron Co Line
- When having to write a number of words for a description or Site ID field, only one “space” shall be used to separate words.
- The use of extra periods, such as.....shall not be used.
- The use of dashes shall be avoided unless they are used in the name itself.
- Quote Marks “ “ shall not be used in any field other than within Notes or Comment fields.