
HVAC Performance Toolkit

Tim Hanes
2018



Step 1

How to login



You should receive an email like the one below. If it is not in your inbox check you spam or junk folder.



Open the email and click on the link. It should open a tab on you browser. If it does not then open your browser and copy and paste the web address.

From: Ameren Illinois (info@wiswise.com)  
To: amil@wiswise.com
Date: Fri, 01 Jun 2018 11:08:25 -0500
Subject: Your information about the HVAC performance software

This email is intended for AmIL Hanes.

Your email address has been provided to us as someone who recently enrolled in a HVAC system performance program. This message gets you access to the program software. Please click on the link below to accept the user agreement and to create your password.

<https://amerenillinois.wiswise.com/validate.asp?id=2788&p=7552>

Please note this message is assigned to your account only, so please don't forward it on to someone else.



Check the “I agree.” box. Then click the “Continue” button.



Agreement

This website is proprietary software that I've been granted permission to use. I recognize that my use of the software on this website is for me and me alone. I will not share my login with anyone else.

To indicate your agreement with this, please check the box below and click Continue.

I agree.

Continue





Enter a "Password".
Then "Re-Enter Password".
Click "Save Password"

Password

Password:

Re-Enter Password:



Update your profile if needed.
Click "Save Profile"

My Jobs	My Customers	Add Customer	My Documents	My Profile	Logout
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User Name: **amil@wiswise.com**

First Name:

Last Name:

Email:

Address:

City:

State:

Zip Code:

Phone:

Change Password: No Yes

Save Profile



My Jobs

You are now logged in and in the "My Jobs" tab.

My Jobs

My Customers

Add Customer

My Documents

My Profile

Logout

[Add Job](#)

This is where you will be able to view all of your jobs.

[Search Jobs](#)

The information has been saved successfully.

ID	<u>Contractor</u>	<u>Job</u>	<u>Job</u>	<u>Customer</u>	<u>Address</u>	<u>Testing</u>	<u>Status</u>	<u>Status</u>
	▲	<u>Type</u>	<u>Name</u>			<u>Tech</u>		<u>Date</u>

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Step 2 Add Customer

You are in the "My Jobs" tab.

My Jobs

My Jobs | My Customers | Add Customer | My Documents | My Profile | Logout

[Add Job](#) [Search Jobs](#)

The information has been saved successfully.

<u>ID</u>	<u>Contractor</u>	<u>Job</u>	<u>Job</u>	<u>Customer</u>	<u>Address</u>	<u>Testing</u>	<u>Status</u>	<u>Status</u>
		<u>Type</u>	<u>Name</u>			<u>Tech</u>		<u>Date</u>



Click on "Add Customer"

My Jobs

[My Jobs](#) [My Customers](#) [Add Customer](#) [My Documents](#) [My Profile](#) [Logout](#)

[Add Job](#) [Search Jobs](#)

The information has been saved successfully.

ID	<u>Contractor</u>	<u>Job</u>	<u>Job</u>	<u>Customer</u>	<u>Address</u>	<u>Testing</u>	<u>Status</u>	<u>Status</u>
		<u>Type</u>	<u>Name</u>			<u>Tech</u>		<u>Date</u>



My Jobs

My Customers

Add Customer

My Documents

My Profile

> [Customers](#) > Add Customer

Customer Type:

Residential Non-Residential

First Name:

Tim

Last Name:

Hanes

Installation Address:

123 Main St

City:

Anytown

State:

Illinois

Zip Code:

12345

Email:

amil@wiswise.com

Phone:

515-710-9750

Save Customer

Enter customer information. Items in blue are required.

Click "Save Customer"



You have created a customer and are in the customer page. A customer is the location of the installation. All jobs done at this location will be in the customer page.

My Jobs	My Customers	Add Customer	My Documents	My Profile	Logout
-------------------------	------------------------------	------------------------------	------------------------------	----------------------------	------------------------

[Customers](#) > [Edit Customer](#) > Jobs

The information has been saved successfully.

Customer: Hanes, Tim (Hanes, Tim) ([View / Edit Customer Info](#))
123 Main St
Anytown, IL 12345

[Start a New Job](#)

Contractor ▲	Job Type	Job Name	Customer	Address	Testing Tech	Status	Status Date
------------------------------	--------------------------	--------------------------	--------------------------	-------------------------	------------------------------	------------------------	-----------------------------



Step 3

Add a Job



You are in the "My Jobs" tab.

My Jobs

My Jobs | My Customers | Add Customer | My Documents | My Profile | Logout

[Add Job](#) [Search Jobs](#)

The information has been saved successfully.

ID	<u>Contractor</u>	<u>Job</u>	<u>Job</u>	<u>Customer</u>	<u>Address</u>	<u>Testing</u>	<u>Status</u>	<u>Status</u>
		<u>Type</u>	<u>Name</u>			<u>Tech</u>		<u>Date</u>



Click "My Customers"

My Jobs

[My Jobs](#) **[My Customers](#)** [Add Customer](#) [My Documents](#) [My Profile](#) [Logout](#)

[Add Job](#) [Search Jobs](#)

The information has been saved successfully.

<u>ID</u>	<u>Contractor</u>	<u>Job</u>	<u>Job</u>	<u>Customer</u>	<u>Address</u>	<u>Testing</u>	<u>Status</u>	<u>Status</u>
		<u>Type</u>	<u>Name</u>			<u>Tech</u>		<u>Date</u>



Click the customer's name that you want to add a job to.

My Jobs

My Customers

Add Customer

My Documents

My Profile

Logout

[Add Customer](#)

[Search Customers](#)

Customer Name ▲

Customer

Created

Contractor

Address

[Hanes, Tim](#)

123 Main St
Anytown, IL

6/4/2018

AmIL

[Contact](#)

[Info](#)

[Notes](#)

[Add](#)

[Job](#)



Click "Start a New Job"

My Jobs	My Customers	Add Customer	My Documents	My Profile	Logout
-------------------------	------------------------------	------------------------------	------------------------------	----------------------------	------------------------

[Customers](#) > [Edit Customer](#) > Jobs

Customer: Hanes, Tim (Hanes, Tim) ([View / Edit Customer Info](#))
123 Main St
Anytown, IL 12345

[Start a New Job](#)

Contractor ▲	Job Type	Job Name	Customer	Address	Testing Tech	Status	Status Date
------------------------------	--------------------------	--------------------------	--------------------------	-------------------------	------------------------------	------------------------	-----------------------------



Give job a name.
Click "Save Job"

- My Jobs
- My Customers
- Add Customer
- My Documents
- My Profile
- Logout

> [Customers](#) > Add Job

Job Name:

Job Type:

Save Job



Now you are ready to begin entering data.

Ameren IL	Existing Equipment	Existing Testing	Reports	Comments
-----------	--------------------	------------------	---------	----------

Elevation of Installation. [?](#)

Ameren Account Holder First Name [?](#)

Ameren Account Holder Last Name [?](#)

Next Page



Google the elevation of the city.

Ameren IL

Existing Equipment Existing Testing Reports Comments

Elevation of Installation. ?

Ameren Account Holder First Name ?

Ameren Account Holder Last Name ?

Next Page



Enter the first and last name as it appears on their Ameren account.

Ameren IL

Existing Equipment Existing Testing Reports Comments

Elevation of Installation. ?

Ameren Account Holder First Name ?

Ameren Account Holder Last Name ?

Next Page



Click "Next Page"

Ameren IL	Existing Equipment	Existing Testing	Reports	Comments
-----------	--------------------	------------------	---------	----------

Elevation of Installation. ?

Ameren Account Holder First Name ?

Ameren Account Holder Last Name ?

Next Page



Ameren IL **Existing Equipment** **Existing Testing** **Reports** **Comments**

Existing Furnace Manufacturer

Existing Furnace Model

Existing Rated Input ?

Existing Rated Output ?

Blower Tons. ?

Next Page

Choose the "Existing Furnace Manufacturer" from the drop down menu. If the manufacturer is not in the drop down click "none of the above" then enter the name in the box that appears.

Enter "Blower Tons" based upon the OEM nomenclature.



NOMENCLATURE

	G	M	E	8	060	3	B	*	*	
	1	2	3	4	5,6,7	8	9	10	11	
Brand	G Goodman® Brand or Distinctions™					Revisions				
Airflow Direction	C Downflow/Horizontal D Dedicated Downflow H High Airflow K Dedicated Upflow M Upflow/Horizontal					A Initial Release B 1st Revision C 2nd Revision				
Description	V Two-Stage/Variable-speed H Two-Stage/Multi-speed S Single-Stage/Multi-speed					NOx N Natural Gas X Low NOx				
AFUE	95 95% 9 90%+ 8 80%					Cabinet Width A 14" B 17½" C 21" D 24"				
						Maximum CFM @ 0.5" ESP				
						3 1,200 4 1,600 5 2,000				
						MBTU/h				
						040: 40,000 100: 100,000 060: 60,000 120: 120,000 080: 80,000				

This is the location where the blower tons are listed in the model number.

There is 400 cfm per ton.



Ameren IL

Existing Equipment

Existing Testing

Reports

Comments

Existing Furnace Manufacturer

Amana

Existing Furnace Model

am8010048

Existing Rated Input ?

100000

Existing Rated Output ?

80000

Blower Tons. ?

4

Next Page

Click "Next Page"



Ameren IL **Existing Equipment** **Existing Testing** **Reports** **Comments**

Tech's Name. ?
Tim Hanes

Tech ID.
10000

Date of Test. ?
6/4/2018

Gas Meter. ?
Standard Residential

Gas Meter Dial. ?
Half Foot

Seconds per Revolution. ?
18

Outdoor Dry Bulb. ?
74

Evaporator Coil. ?
External

Next Page

You will receive a Tech ID in the login email

Choose the gas meter dial that you will be clocking.

Turn off all other natural gas appliances and clock the amount of seconds it takes the dial to make 3 complete revolutions. Start clocking the meter when the dial is at 3 o'clock on the dial. Then divide the number of seconds for 3 revolutions by 3 to get the seconds per revolution.

If the furnace has an air conditioner coil choose "External".

Click "Next Page"



If you added a filter rack choose “External”. If the filter rack is factory installed inside the furnace choose “Internal”.

Click “Next Page”

The screenshot shows a web application interface with a navigation bar at the top containing five tabs: "Ameren IL", "Existing Equipment", "Existing Testing", "Reports", and "Comments". The "Existing Testing" tab is currently selected. Below the navigation bar, there is a "Filter." label with a question mark icon. A dropdown menu is open, showing the selected option "External" with a downward arrow. Below the dropdown, a "Next Page" button is highlighted with a red rectangular box.

Blower Speed.

Medium

Filter Pressure Entering. ?

.15

Filter Pressure Exiting. ?

.32

Equipment Pressure Entering. ?

.32

Equipment Pressure Exiting. ?

.4

Coil Pressure Entering. ?

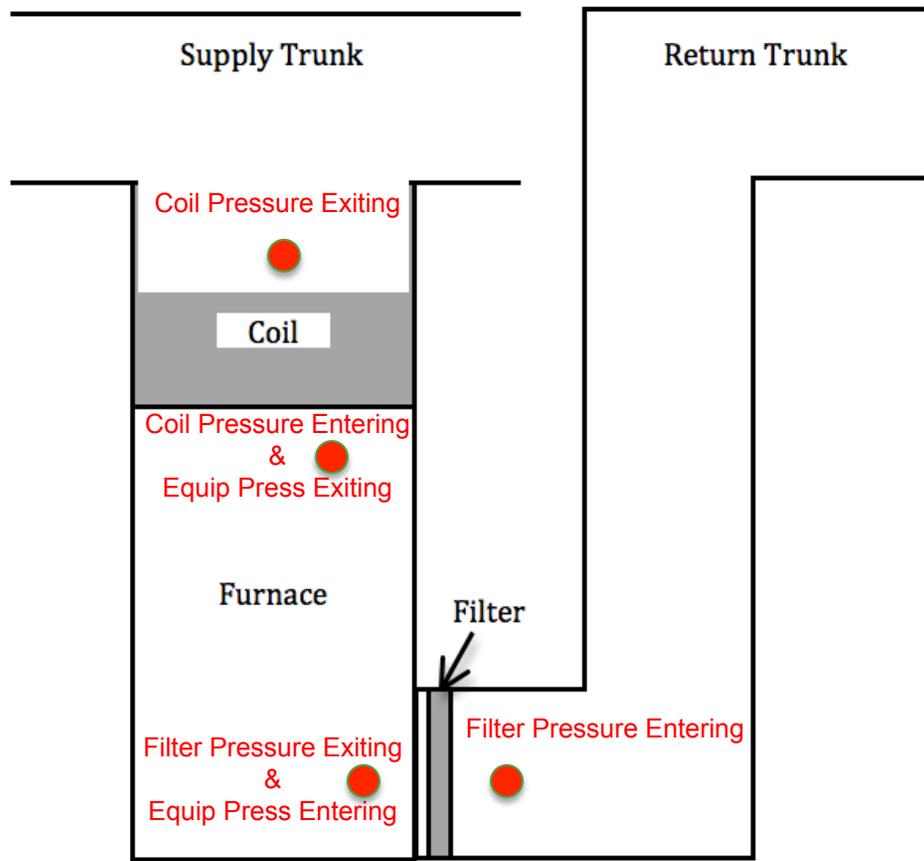
.4

Coil Pressure Exiting. ?

.08

Choose the blower speed that is being used when the furnace is operating.

Measure and enter the static pressures using a manometer and a static pressure tip.



Equipment CFM Method. ?

OEM Blower Tables

Equipment CFM. ?

1000

Equipment Dry Bulb Entering. ?

70

Equipment Dry Bulb Exiting. ?

148

Equipment Dry Bulb Exiting 2. ?

134

Next Page

Choose the method you will use to determine the equipment cfm.

OEM Blower Tables
Anemometer
Flow Plate
Communicating Tstat



Using the OEM blower table is the preferred method.
 To use them add the equipment entering pressure and the equipment exiting pressure together to get
 the total external static pressure.

Model—Heating Speed as Shipped	Motor Speed	Tons AC at 0.5" ESP	External Static Pressure (Inches Water Column)															
			0.1		0.2		0.3		0.4		0.5		0.6		0.7		0.8	
			CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise
WFM180453AXC (Medium)	High	3.0	1,739	19	1,656	20	1,601	21	1,551	21	1,513	22	1,460	22.83	1,413	23.59	1,353	24.64
	Med	2.5	1,422	23	1,399	24	1,378	24	1,350	25	1,305	26	1,275	26.14	1,220	27.32	1,178	28.30
	Med-Lo	2.0	1,207	28	1,213	27	1,197	28	1,169	29	1,158	29	1,131	29.47	1,103	30.22	1,068	31.21
	Low	1.5	991	34	980	34	958	35	950	35	937	36	924	36.08	910	36.63	874	38.14



Equipment CFM Method. ?

OEM Blower Tables

Equipment CFM. ?

1000

Equipment Dry Bulb Entering. ?

70

Equipment Dry Bulb Exiting. ?

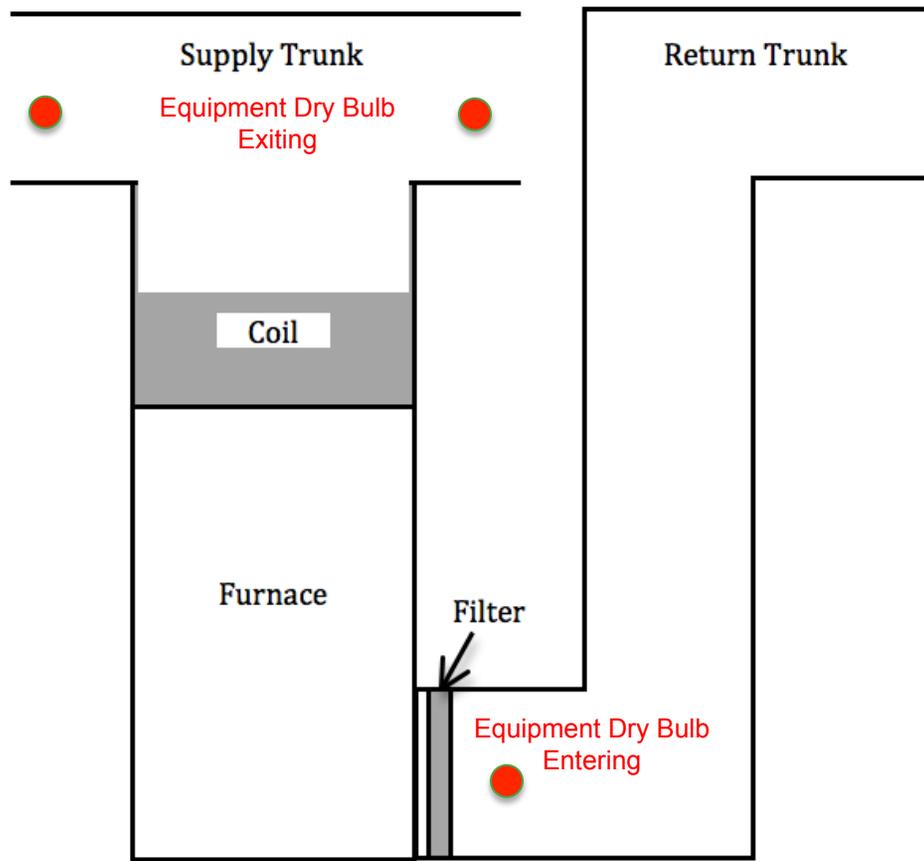
148

Equipment Dry Bulb Exiting 2. ?

134

Next Page

Measure the temperatures entering and exiting the furnace.



Once you have finished entering the data, look at the reports to view the results.

> [Customers](#) > [Customer](#) > Job Details

The information has been saved successfully.

Customer: Hanes, Tim (Hanes, Tim) [\(View More\)](#) [\(View / Edit Customer Info\)](#)
ID / Job / Job Type: 191 / furnace test / 2018 Existing Furnace Prequalify Ameren IL

Ameren IL	Existing Equipment	Existing Testing	Reports	Comments
Report Package		Report Name		
Furnace Ameren IL		<input type="radio"/> Existing Furnace Report		
		<input type="button" value="View"/>		



Step 4 Results

The "Reports" tab is where you view the results.

> [Customers](#) > [Customer](#) > Job Details

The information has been saved successfully.

Customer: Hanes, Tim (Hanes, Tim) ([View More](#)) ([View / Edit Customer Info](#))
ID / Job / Job Type: 191 / furnace test / 2018 Existing Furnace Prequalify Ameren IL

Ameren IL	Existing Equipment	Existing Testing	Reports	Comments
Report Package		Report Name		
Furnace Ameren IL		<input type="radio"/> Existing Furnace Report		
		<input type="button" value="View"/>		



Click on the circle beside the report and then click "View".

Ameren IL	Existing Equipment	Existing Testing	Reports	Comments
Report Package		Report Name		
Furnace Ameren IL		<input checked="" type="radio"/> Existing Furnace Report		
		<input type="button" value="View"/> <input type="button" value="Submit"/>		



“Testing Meets Requirements” should say “Pass”

To qualify the “Installed Efficiency” must be less than 80.

AmIL
123 Main St
Anytown, IL 12345
515-710-9750

load

Job ID #: 191
Date: 6/4/2018
Technician: Tim Hanes
Tech ID: 10000

Tim Hanes
123 Main St
Anytown, IL 12345
515-710-9750
amil@wiswise.com

Account Holder: Tim Hanes
Elevation: 1000
Testing Meets Requirements: Pass
Total Errors: 0

Furnace Specs

Furnace Manufacturer: Amana
Furnace Model: am8010048
Blower Tons: 4

Rated Input: 100000
Rated Output: 80000

Installed Performance

Installed Input: 100000
Potential Output: 80000

Installed Btu/h: 68160
Installed Efficiency: 68.2



The "Comments" tab is where you can view the status of the job.

When you create a job the status will be "Enrolled".

Ameren IL Existing Equipment Existing Testing Reports **Comments**

QC
 Enrolled (AmIL Hanes: 6/4/2018)
 Submitted
 Errors
 Resubmitted
 Approved
 Denied

[View Documents](#) ([Upload Document](#))
(0) Unspecified

[Add Comment](#)

Date	Commenter	Comment
6/4/2018	AmIL Hanes	Enrolled



Once you have viewed the report and it has passed, click the circle beside the report.

Then click "Submit".

Report Package	Report Name
Furnace Ameren IL	<input checked="" type="radio"/> Existing Furnace Report



Now click "Submit Report" to complete the process.

Ameren IL	Existing Equipment	Existing Testing	Reports	Comments
Report Package		Report Name		
Furnace Ameren IL		<input checked="" type="radio"/> Existing Furnace Report		
		<input type="button" value="View"/> <input type="button" value="Submit"/>		
Add New Document		Select Documents to Submit		
		Enter Comments to Submit		
		<input type="text"/>		
		<input type="button" value="Submit Report"/>		



Ameren IL	Existing Equipment	Existing Testing	Reports	Comments
<input type="checkbox"/> QC <input checked="" type="checkbox"/> Enrolled (AmIL Hanes: 6/4/2018) <input checked="" type="checkbox"/> Submitted (AmIL Hanes: 6/4/2018) <input type="checkbox"/> Errors <input type="checkbox"/> Resubmitted <input checked="" type="checkbox"/> Approved (System: 6/4/2018) <input type="checkbox"/> Denied		View Documents (Upload Document) (0) Unspecified		
<input type="button" value="Save"/>		<p style="color: red; text-align: center;">The status has now been updated to "Approved"</p>		
Add Comment				
Date	Commenter	Comment		
6/4/2018	System	Approved		
6/4/2018	AmIL Hanes	Submitted		
6/4/2018	AmIL Hanes	Enrolled		



Ameren IL

Existing Equipment

Existing Testing

Reports

Comments

- QC
- Enrolled (AmIL Hanes: 6/4/2018)
- Submitted (AmIL Hanes: 6/4/2018)
- Errors
- Resubmitted
- Approved (System: 6/4/2018)
- Denied

[Add Comment](#)

[View Documents](#) ([Upload Document](#))
 (0) Unspecified

If you have a question or comment about this job click
 "Add Comment" and the comment will be documented
 and emailed to the person managing the job.

Date	Commenter	Comment
6/4/2018	System	Approved
6/4/2018	AmIL Hanes	Submitted
6/4/2018	AmIL Hanes	Enrolled



Type your comment in the text box and click "Save Comment"

Ameren IL	Existing Equipment	Existing Testing	Reports	Comments
<p>Comment: (582 chars remaining)</p> <p>I have a question.</p> <p>Save Comment</p> <p>Return to previous page</p>				



Ameren IL

Existing Equipment

Existing Testing

Reports

Comments

- QC
- Enrolled (AmIL Hanes: 6/4/2018)
- Submitted (AmIL Hanes: 6/4/2018)
- Errors
- Resubmitted
- Approved (System: 6/4/2018)
- Denied

Save

[Add Comment](#)

Date	Commenter	Comment
6/4/2018	AmIL Hanes	I have a question.
6/4/2018	System	Approved
6/4/2018	AmIL Hanes	Submitted
6/4/2018	AmIL Hanes	Enrolled

[View Documents](#) ([Upload Document](#))
(0) Unspecified

Your comment has now been saved.



To track the status of your jobs click "My Jobs" tab.
The status of the job is located on the right side.
To return to the job click on the job name.

My Jobs

My Jobs | My Customers | Add Customer | My Documents | My Profile | Logout

[Add Job](#)

[Search Jobs](#)

ID	Contractor ▲	Job Type	Job Name	Customer	Address	Testing Tech	Status	Status Date
191	AmlL	2018 Existing Furnace Prequalify Ameren IL	furnace test	Hanes, Tim	123 Main St		Approved	6/4/2018

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Next Steps

- Post webinar attendance an email will be sent to you
 - Emails sent to the address you used for this webinar registration
 - Receive email with login credentials
 - Login and create password
 - Utilize the software
- *each tech in your company needs their own email address/credentials



For Software or Technical Support
Contact

Tim Hanes
515-710-9750
amil@wiswise.com



IQ OFFERING CONTACTS

- Micaela Solomon, Program Ally Coordinator
 - 309.634.9992 – MSolomon3@Ameren.com
- John Carroll, Field Energy Specialist
 - 618.214.1158 – John.Carroll@Leidos.com
- Robert Rusteberg, Field Energy Specialist
 - 244.315.0644 – Robert.H.Rusteberg@Leidos.com
- Scott Marner, Residential Field Operations Lead
 - 309.335.0262 – Smарner@Ameren.com





AmerenIllinoisSavings.com

