

Honeywell Online Tools (H.O.T.) for Fire Voltage Drop Calculator (VDC) User Guide

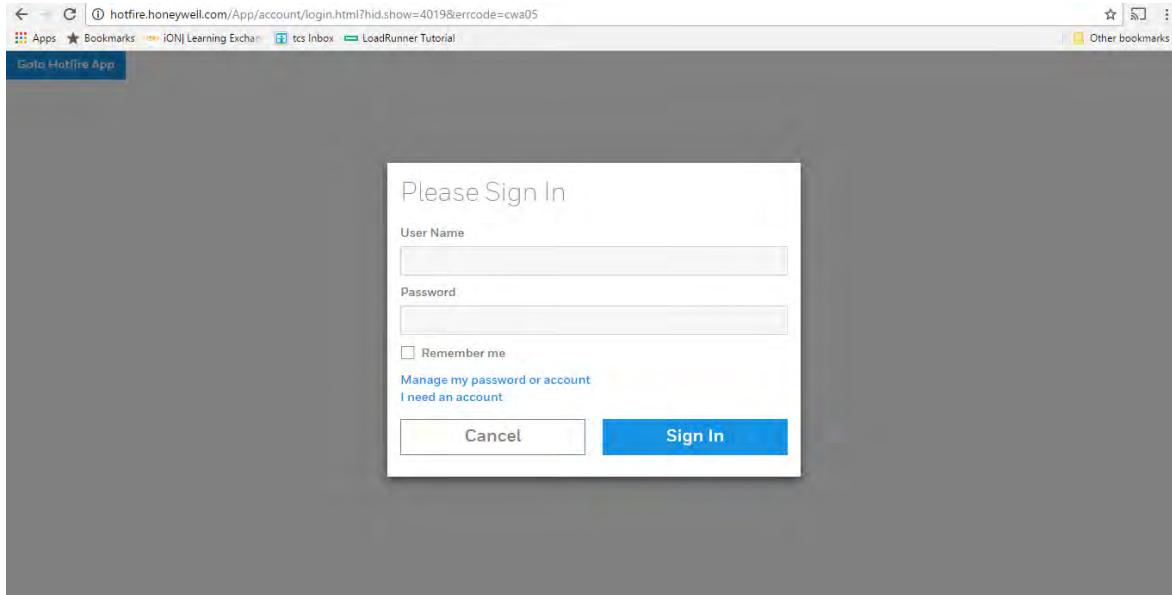
Table of Contents

1.	Features	3
1.1.	Login to the Application – Sign In	3
1.2.	Managing the password or Account details	4
1.3.	Login to the Application – Sign Up	5
2.	Projects Home page	6
2.1.	My Active Projects	6
2.1.1.	Create Active Project	6
2.1.2.	Edit Active Project	7
2.1.3.	Copy Active Project	8
2.1.4.	Delete Active Project	8
2.2	My Archived Projects	9
3.	Adding a power source	10
3.1.	Add to Favorites	11
4.	Circuits	12
4.1	On clicking the 'Cancel' button	13
4.2	On clicking the 'Save circuits' button	14
4.3	Adding a circuit manually	15
4.3.1	On clicking the 'cancel' button or close(X) button	17
4.3.2	On clicking the 'Add circuit' button	18
4.4	Editing an existing circuit value	19
4.4.1	On clicking the Save button	19
4.4.2	On clicking the cancel button	20
4.5	Copying an existing circuit value	20
4.5.1	On clicking the cancel button	21
4.6	Deleting a circuit	22
4.6.1	On clicking the 'Cancel' button	22
4.6.2	On clicking the 'Remove' button	23
4.7	On clicking/double clicking on existing circuit	23
5.	Devices	24
5.1.	Adding a device to the circuit	24
5.1.1	Recalculation of Values Scenarios	27
5.2.	Adding a device to Favorite	27
5.3.	Editing the device details	29
5.3.1	On clicking the Save button	32
5.3.2	On clicking the Cancel button	32
5.4.	Copying a device	32
5.5.	Deleting a device	32
5.5.1	On clicking the 'Cancel' button	33
5.5.2	On clicking the 'Remove' button	33
5.6.	Inserting a device	34
5.7.	Product Search Dialog	34
5.8.	Guided Product Search	35
6.	Reports	36
6.1	Exporting the Reports to Excel file	38
6.2	Exporting the Reports to PDF file	40
7.	Other Functionalities	41
7.1	Project Settings	41
7.2	Exporting a project	42
7.3	Importing a project	45
7.4	User settings	48
7.4.1	User profile updating	49
7.4.2	Adding a Favorite device	50
7.4.3	Adding a Custom Power source/Device	53
7.4.3.1	Adding a custom Power source	53
7.4.3.2	Adding a custom Device	55
7.5	Progress bar	56
7.6	Current Draw	56
7.7	Voltage Drop	57
7.8	Logging out	58

1. Features

1.1 Login to the Application – Si

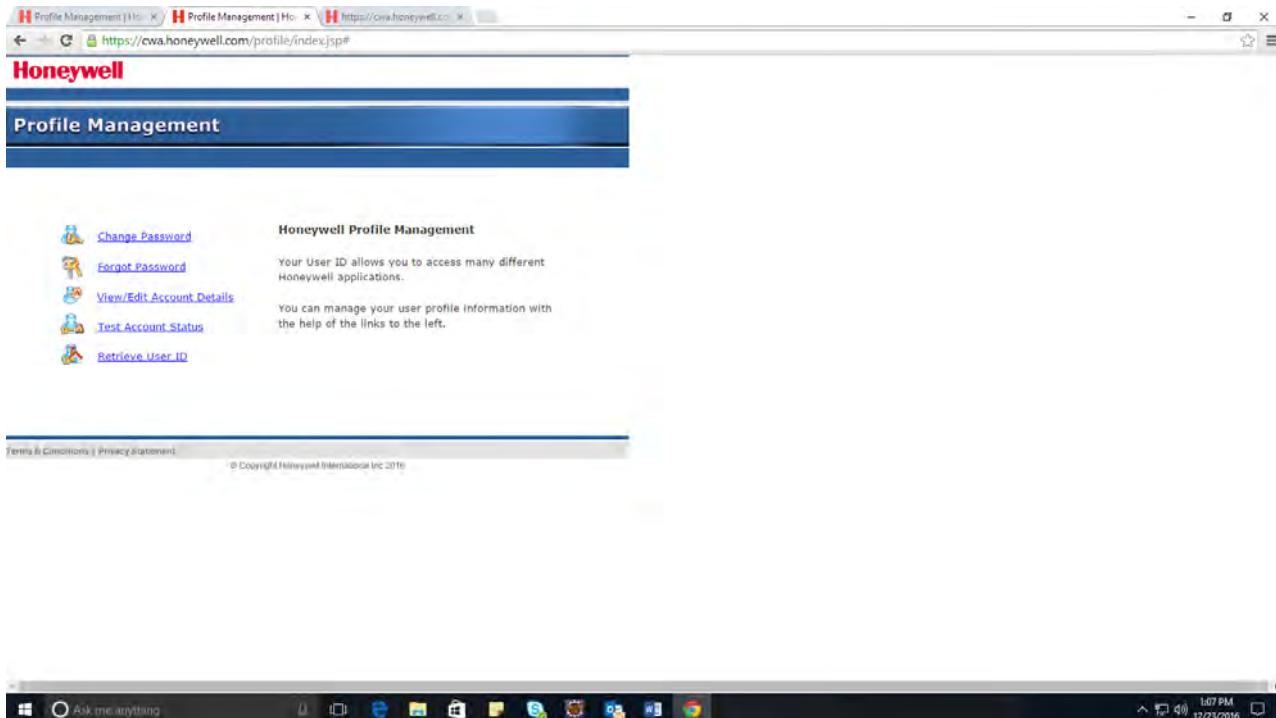
Type the URL <https://hotfire.honeywell.com> on any browser. Click on Sign In/Register button at the top right corner. Type the 'Username' and 'Password' and click 'Sign In' button. Select the 'Remember me' check box so it will remember the login credentials. Users with other active Honeywell accounts, such as ESD and eVance loggings can try using the same credentials.



1.2 Managing the password or Account details

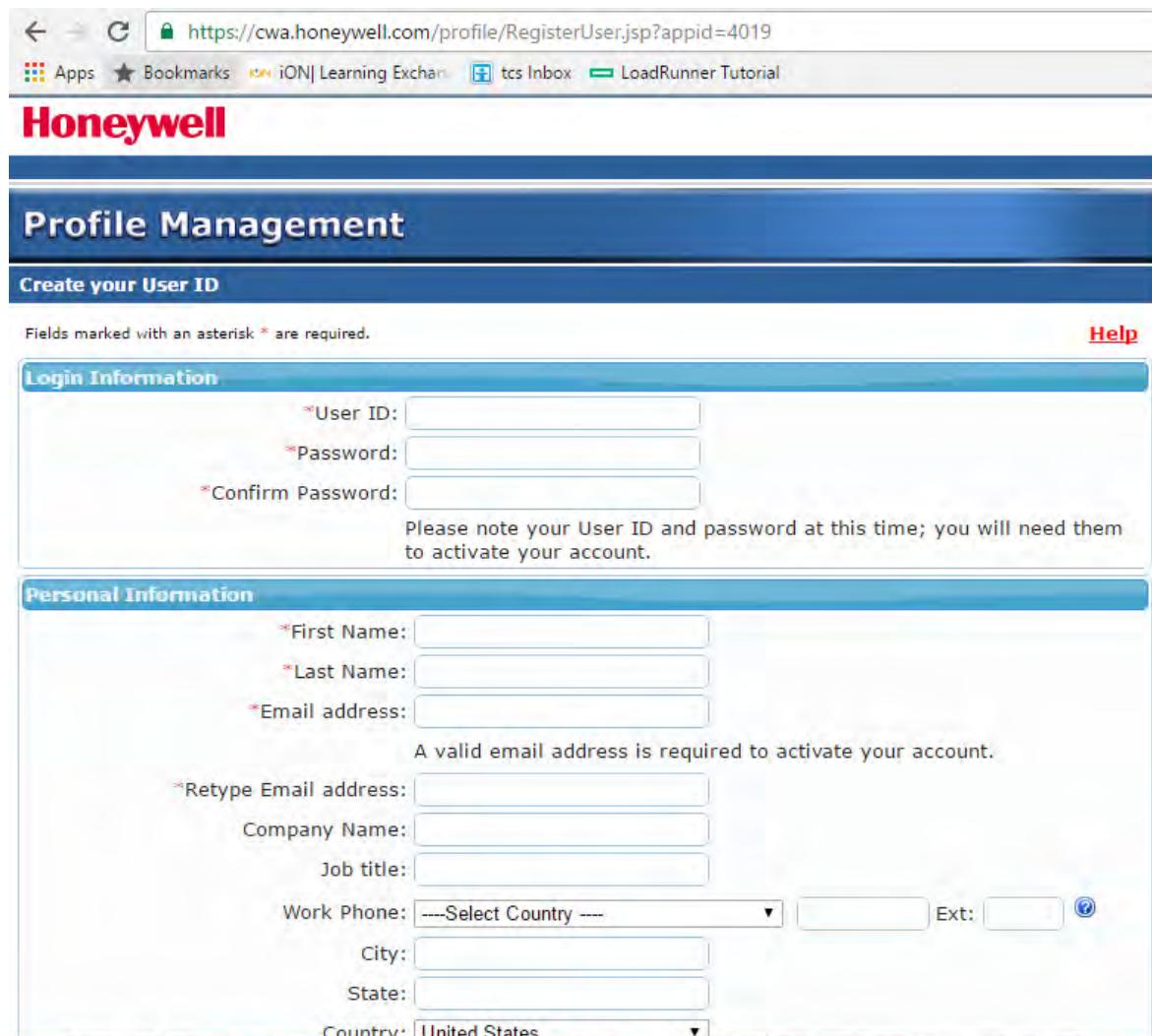
If you click on the 'Manage my password or account' link, you will navigate to <https://cwa.honeywell.com/profile>, where you can do the following operations:

- a) Change Password – To change the existing known password.
- b) Forgot Password – To set the password for an account, in which the password is forgotten.
- c) View/Edit Account details – To view the details of the account and edit it.
- d) Test Account Status – To check the authentication of user.
- e) Retrieve User ID – To retrieve a User ID you will have to enter your email ID.



1.3 Login to the Application – Sign Up

If you don't have valid credentials, click on 'I need an account' in the Sign In page which will navigate to the new profile Registration page (<https://cwa.honeywell.com/profile/RegisterUser.jsp?appid=4019>) as displayed below.



The screenshot shows a web browser window for Honeywell's Profile Management system. The URL in the address bar is <https://cwa.honeywell.com/profile/RegisterUser.jsp?appid=4019>. The page title is "Profile Management". A sub-header "Create your User ID" is visible. A note at the top states: "Fields marked with an asterisk * are required." A "Help" link is located in the top right corner. The "Login Information" section contains fields for "User ID", "Password", and "Confirm Password". A note below these fields says: "Please note your User ID and password at this time; you will need them to activate your account." The "Personal Information" section contains fields for "First Name", "Last Name", "Email address", "Retype Email address", "Company Name", "Job title", "Work Phone", "City", "State", and "Country". The "Country" dropdown is set to "United States".

2. Projects Home page

2.1 My Active Projects

After logging into the application, user navigates to the Projects home page where the list of Active projects are displayed. The header contains Honeywell logo followed by the Version number on the left and the User Name on the right.

There are two tabs displayed: "My Active Projects" tab and "My Archived Projects" tab. The Active projects are displayed by default under My Active projects tab. There is a Search box where the user can type and search for a specific project. Create New Project button is displayed after the Search box.

The projects table displays the Project Name, Customer, Project Number, Location, Last Updated and Description details.

Each project displays options to Archive, Edit, Copy and Delete on the right.

PROJECT NAME	CUSTOMER	PROJECT NUMBER	LOCATION	LAST UPDATED	DESCRIPTION
GM building Import again	aaz	884521	wall st, newark,...	2016-11-11	test descprtion with whatever to type
GM building import	aaz	884521	wall st, newark,...	2016-11-11	test descprtion with whatever to type
GM building	aaz	884521	wall st, newark,...	2016-11-11	test descprtion with whatever to type

2.1.1 Create Active Project

Click on "Create New Project" button and Create New Project is displayed. User can enter the details of the project like 'Project name', which is mandatory, and other optional fields. Once all the information is entered click 'Create Project' button to start a new project. The application will then navigate to the 'Project Details' screen.

On entering the values and clicking on the 'Create Project' button, you will navigate to the screen below.

2.1.2 Edit Active Project

You can edit the project details using the 'Detailed Project View' icon in the Projects home page and making the required changes, click the "Save" button to save the changes made to the project

DETAILED INFORMATION

Project Name: GM building

Project Number: 884521

Description: test descrption with whatever to type

Location: United States
wall st
Address Line 2
newark Delaware 51000

AHJ: AHJ

Logo: Honeywell

Customer: aaz

SAVE

2.1.3 Copy Active Project

User can click on 'Copy' button to copy the project and save the changes made to the copied project

CLONE PROJECT

Project name exists already

Project Name: proj 2

Customer: Customer

Project Number:

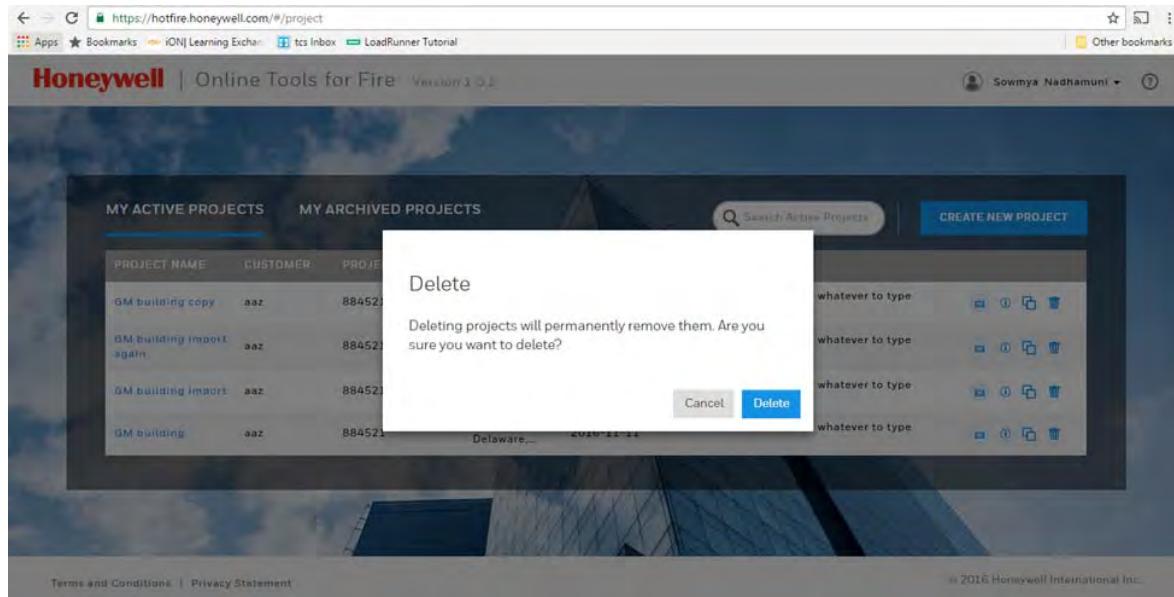
Location: Alabama

Description:

COPY PROJECT

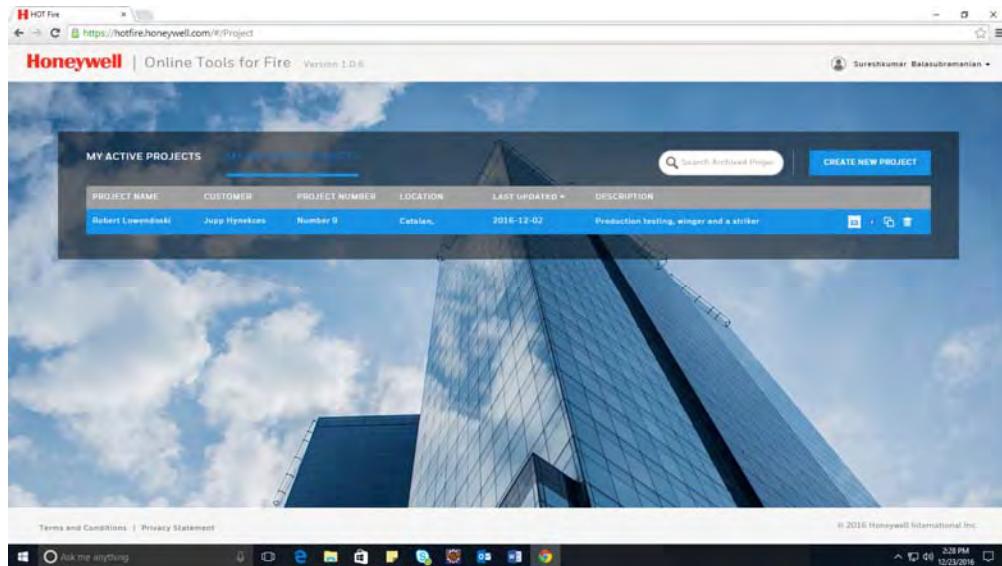
2.1.4 Delete Active Project

Click on 'Delete' icon for an Active project. An alert message is displayed for the user to confirm if the project can be deleted permanently or not.



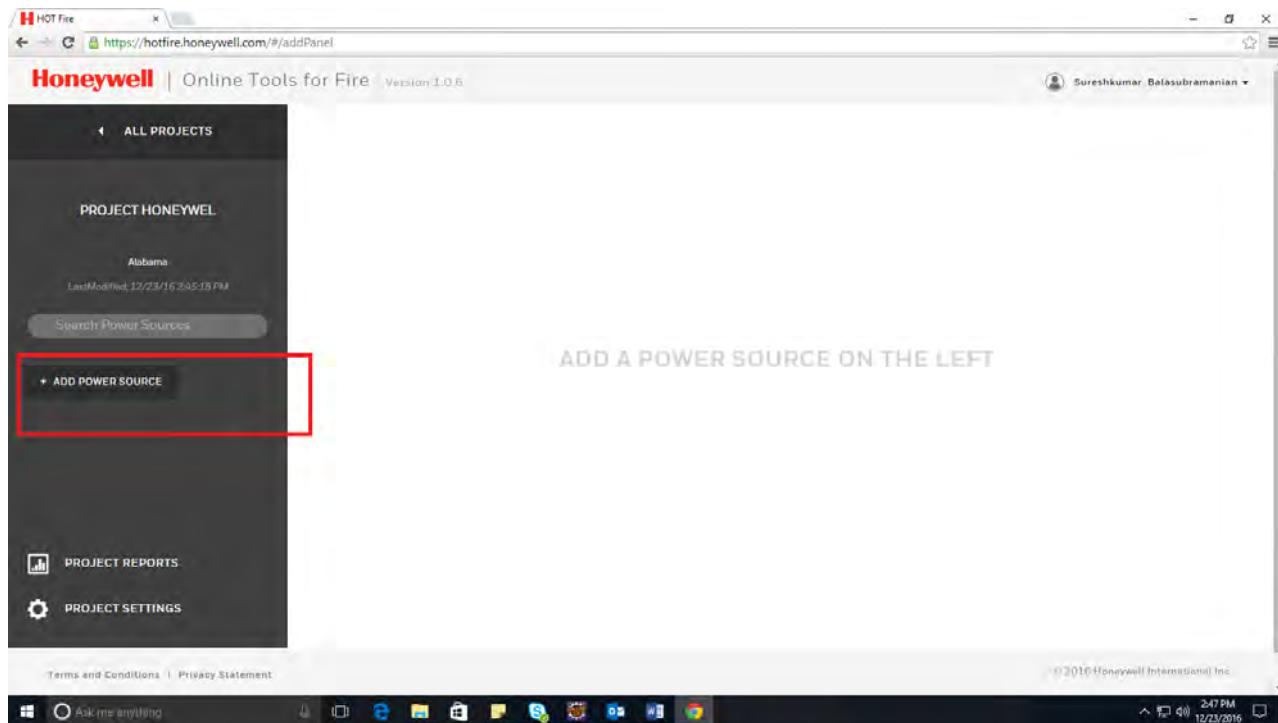
2.2 My Archived Projects

User can archive projects from the 'My Active Projects' section by clicking the 'Move to Archive Projects' icon against that project, so that they will be moved to "My Archived Projects" section for future reference.

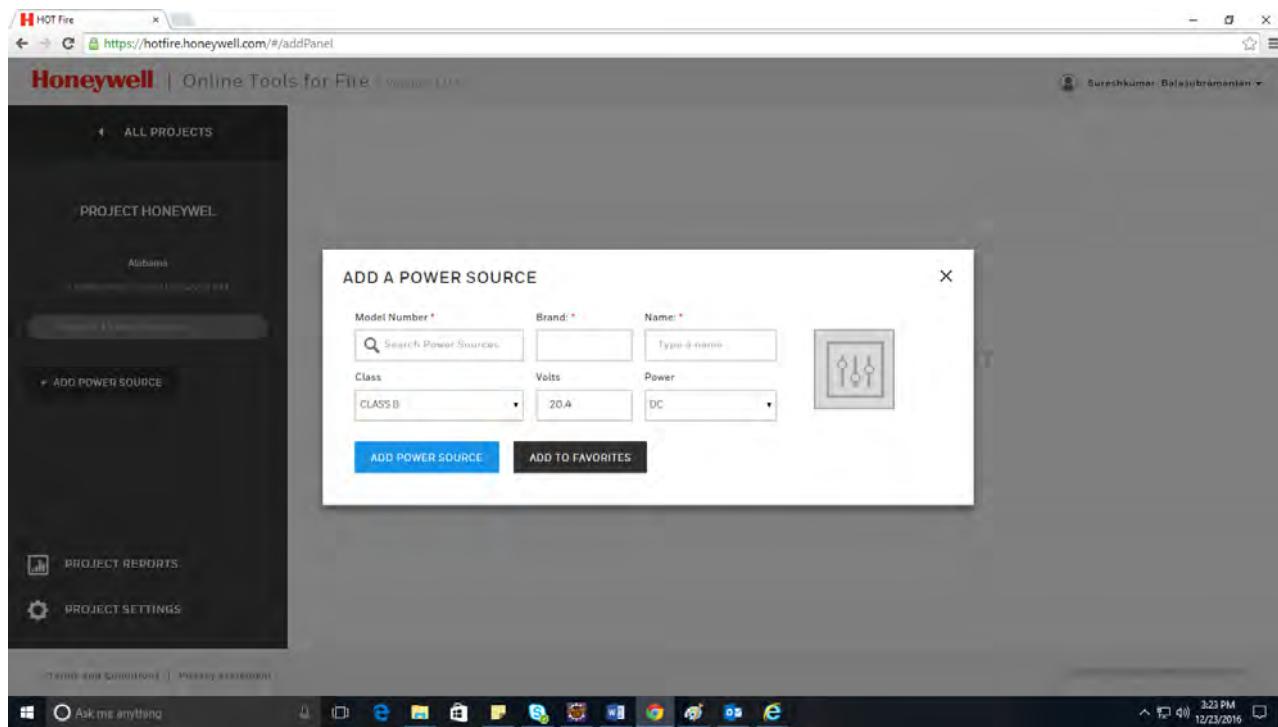


3. Adding a power source

You can add a power source in the newly created project, by clicking on the '+ ADD POWER SOURCE' button.



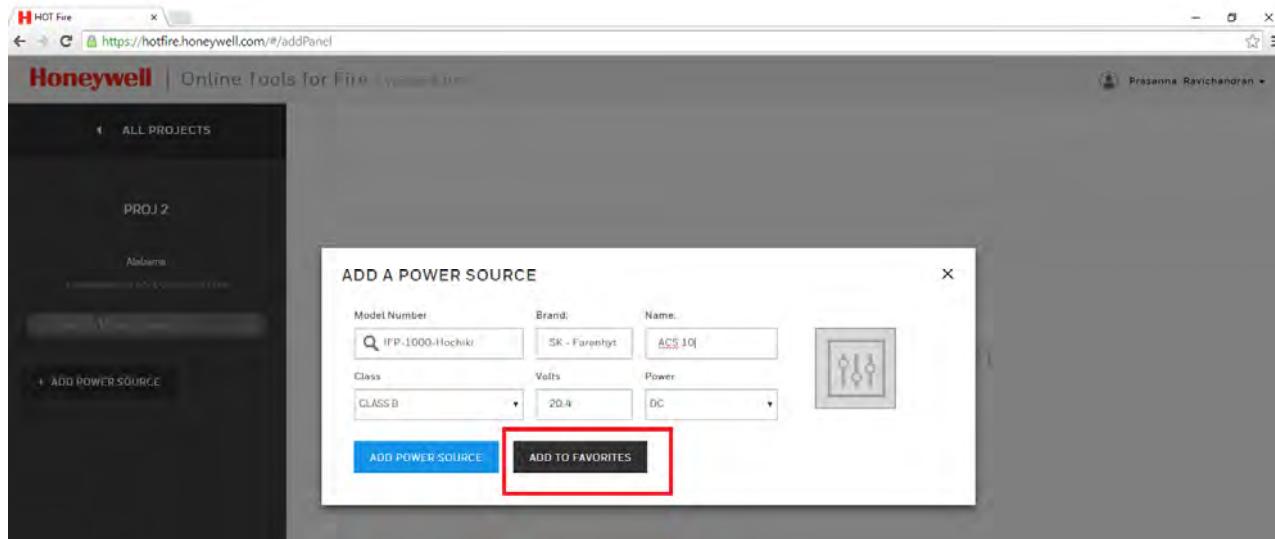
After clicking '+ Add Power Source', the 'Add a Power Source' dialog will be displayed.



On entering the mandatory details in it and clicking on the 'Add power source' button, it will be added to this project.

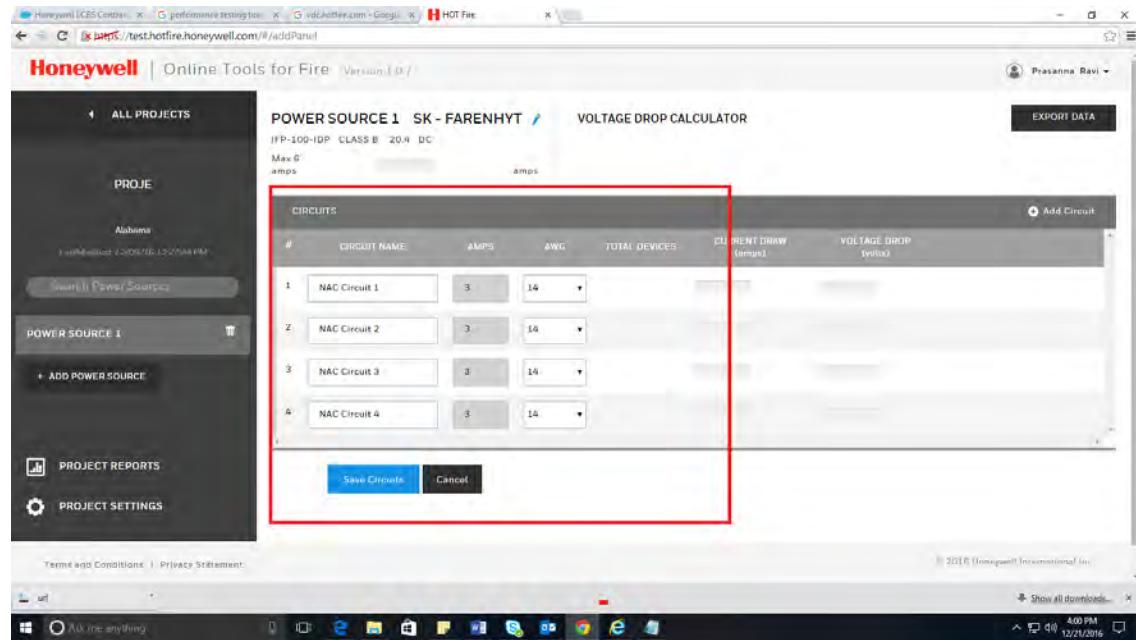
3.1.Add to Favorites:

You can click the 'Add to Favorites' button so that the power source selected will be listed at the top of the list of devices in the future.



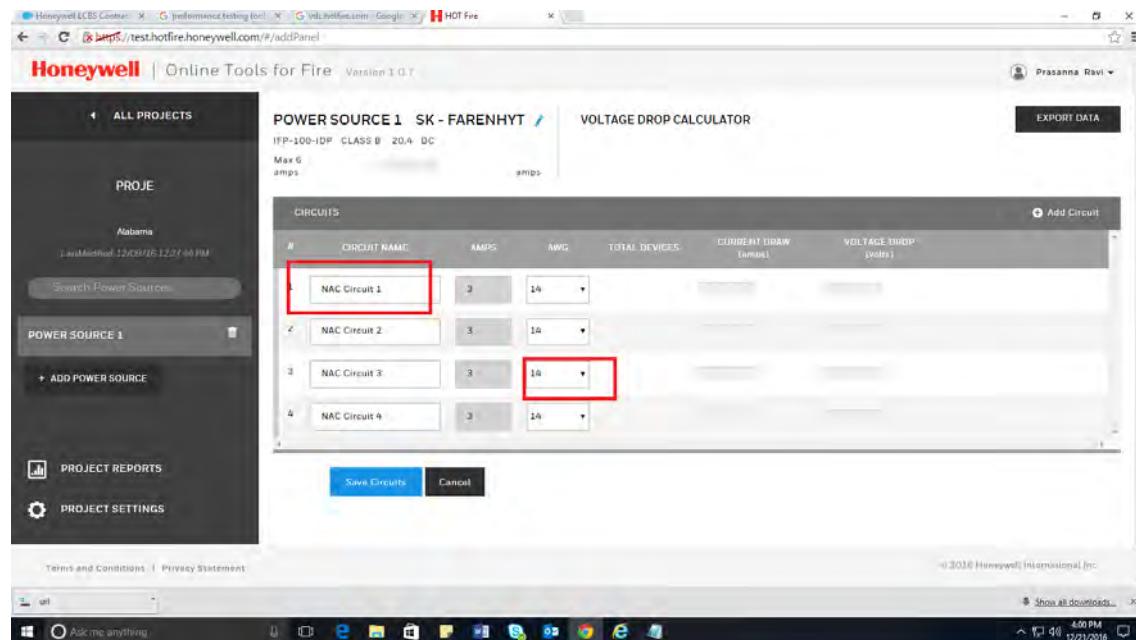
4. Circuits:

After adding a power source to the project, the list of Notification Appliances Circuits (NACs) will be pre-populated based on the power source specs.



#	CIRCUIT NAME	AMPS	AWG	TOTAL DEVICES	CURRENT DRAW (amps)	VOLTAGE DROP (volts)
1	NAC Circuit 1	3	14			
2	NAC Circuit 2	3	14			
3	NAC Circuit 3	3	14			
4	NAC Circuit 4	3	14			

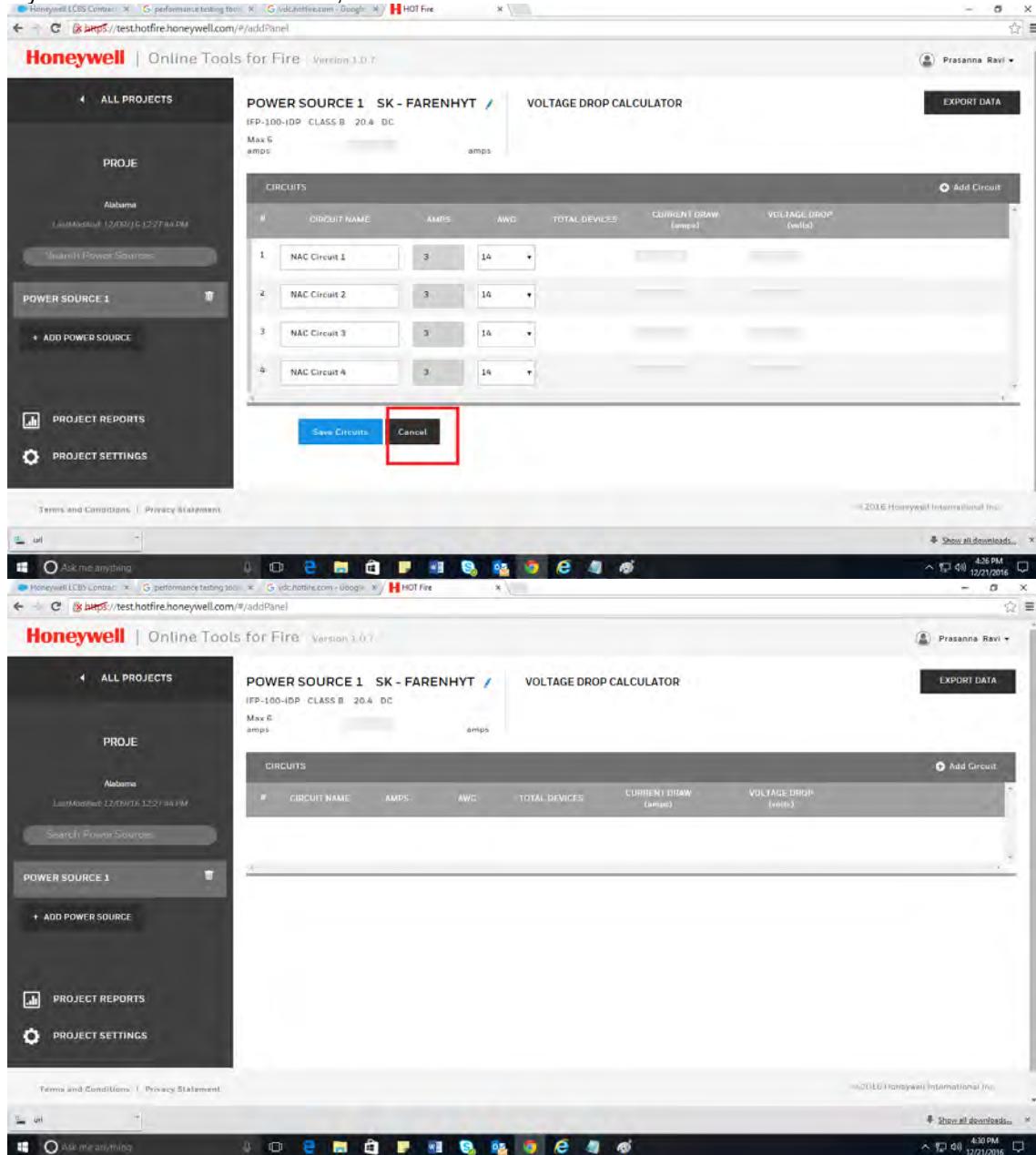
You can edit the names or AWG for each circuit at this point.



#	CIRCUIT NAME	AMPS	AWG	TOTAL DEVICES	CURRENT DRAW (amps)	VOLTAGE DROP (volts)
1	NAC Circuit 1	3	14			
2	NAC Circuit 2	3	14			
3	NAC Circuit 3	3	18			
4	NAC Circuit 4	3	14			

4.1 ‘Cancel’ button:

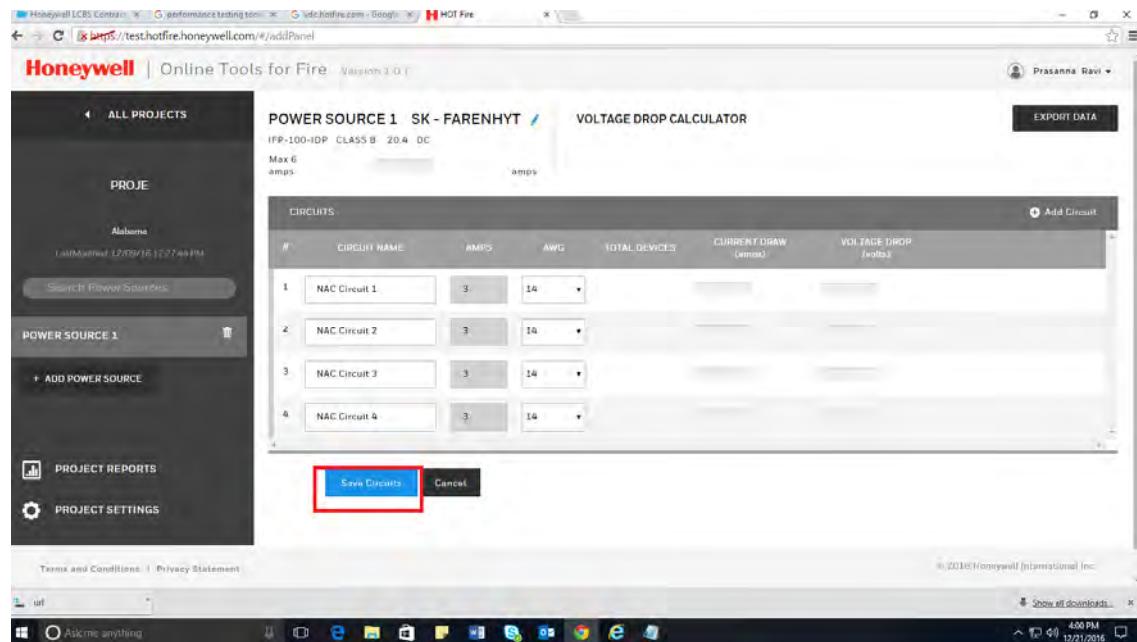
If you click on the ‘cancel’ button, then all the circuits will be deleted.



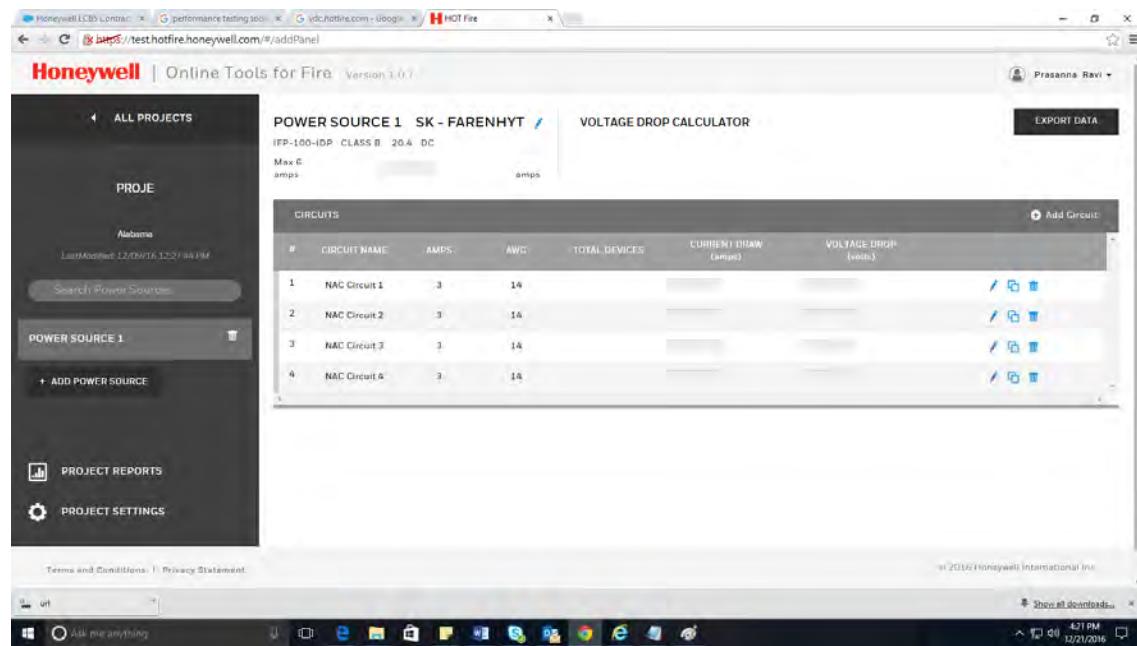
The screenshot shows the Honeywell Online Tools for Fire interface. On the left, there's a sidebar with 'ALL PROJECTS', 'POWER SOURCE 1', and 'PROJECT REPORTS'. The main area is titled 'POWER SOURCE 1 SK - FARENHYT' and 'VOLTAGE DROP CALCULATOR'. It shows a table of circuits with four rows, each containing 'NAC Circuit 1' through 'NAC Circuit 4'. The 'CIRCUITS' table has columns for #, CIRCUIT NAME, AMPS, AWG, TOTAL DEVICES, CURRENT DRAW (amps), and VOLTAGE DROP (volts). At the bottom of the table are 'Save Circuits' and 'Cancel' buttons. The 'Cancel' button is highlighted with a red box. The status bar at the bottom of the browser window shows the URL as <https://test.hotfire.honeywell.com/#/addPanel>.

4.2 'Save Circuits' button:

Then after making the necessary changes to the existing circuits, click the 'Save Circuits' button.

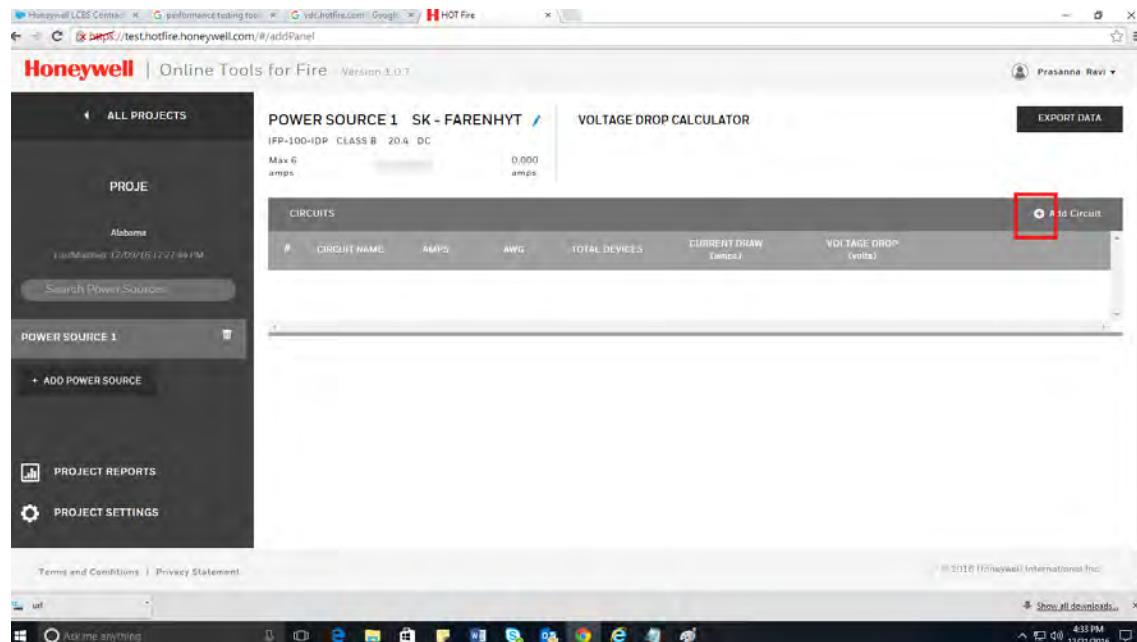


All the circuits' related data will be saved and the 'edit', 'copy' and 'delete' icons will be show at right of each circuit row. The 'Save circuit' button and 'Cancel' button will disappear.

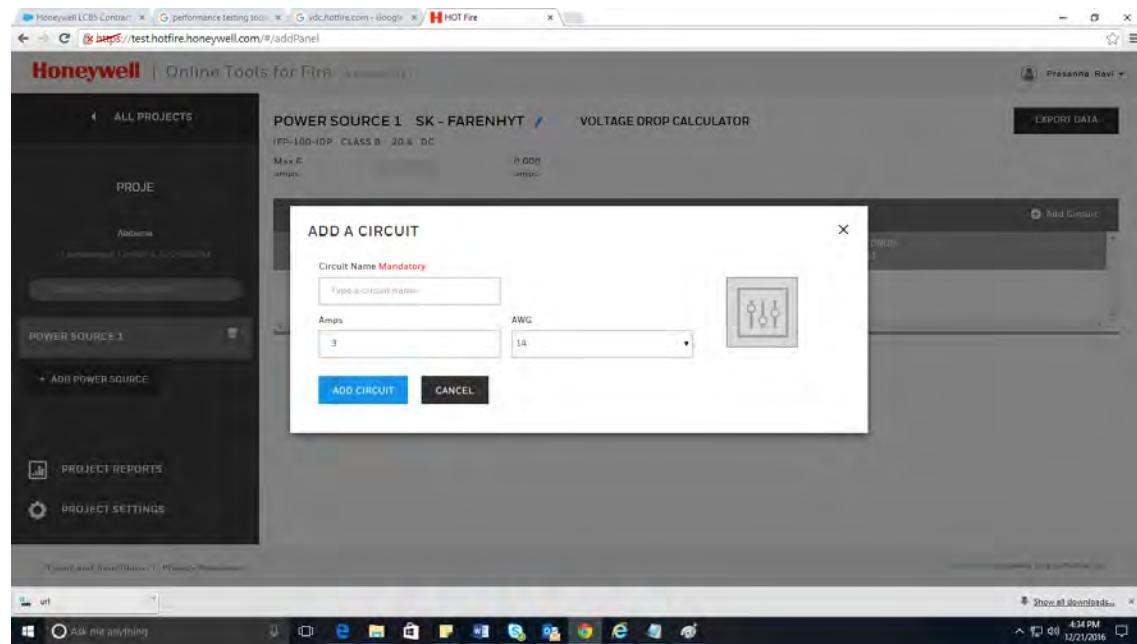


4.3 Adding a circuit manually:

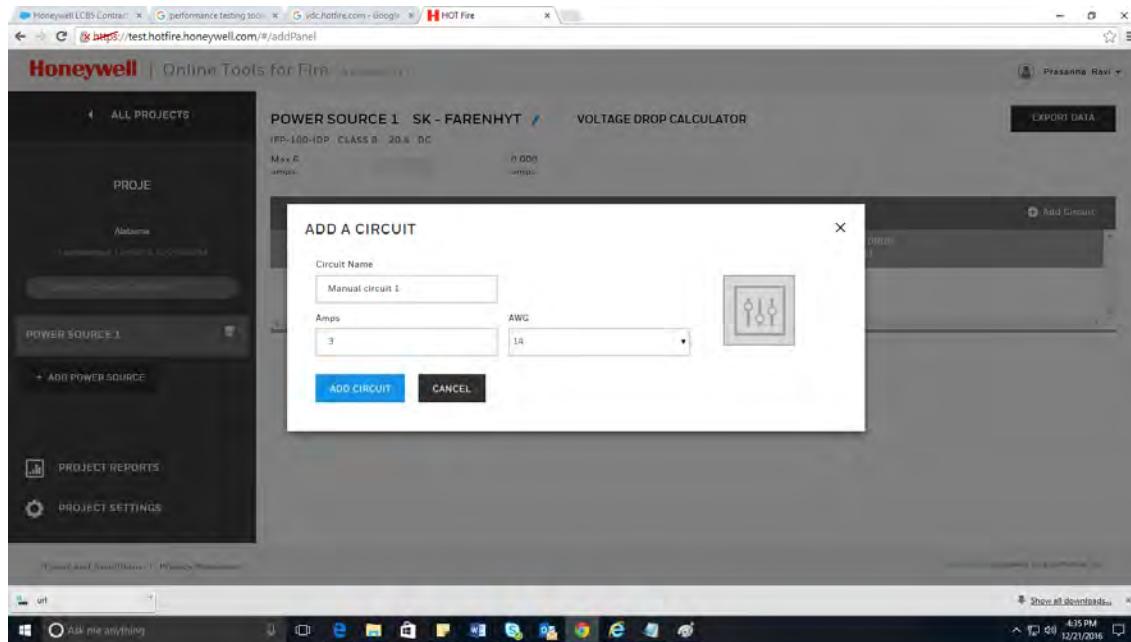
If you want to add a circuit, manually you can do that by clicking on the '+ Add Circuit' button at the top right corner of the circuits table.



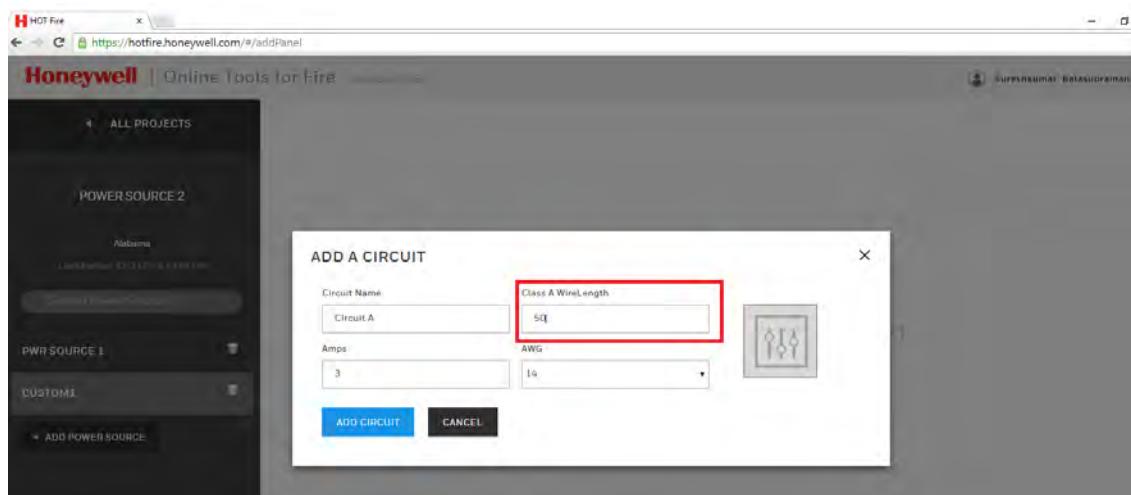
On clicking the '+ Add Circuit' symbol, the dialog below is displayed



User can then enter the 'Circuit Name':

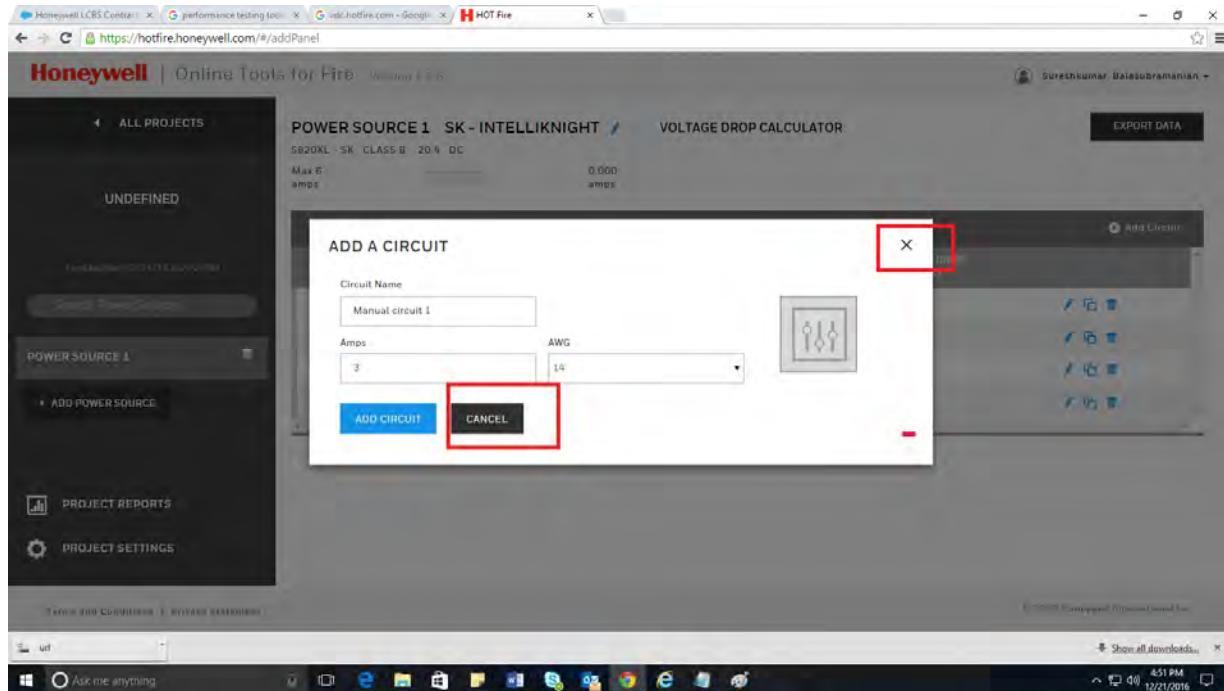


Note: If you add a 'CLASS A' type circuit, then you will see the 'CLASS A wire length' text field. Please see the below screenshot for details.

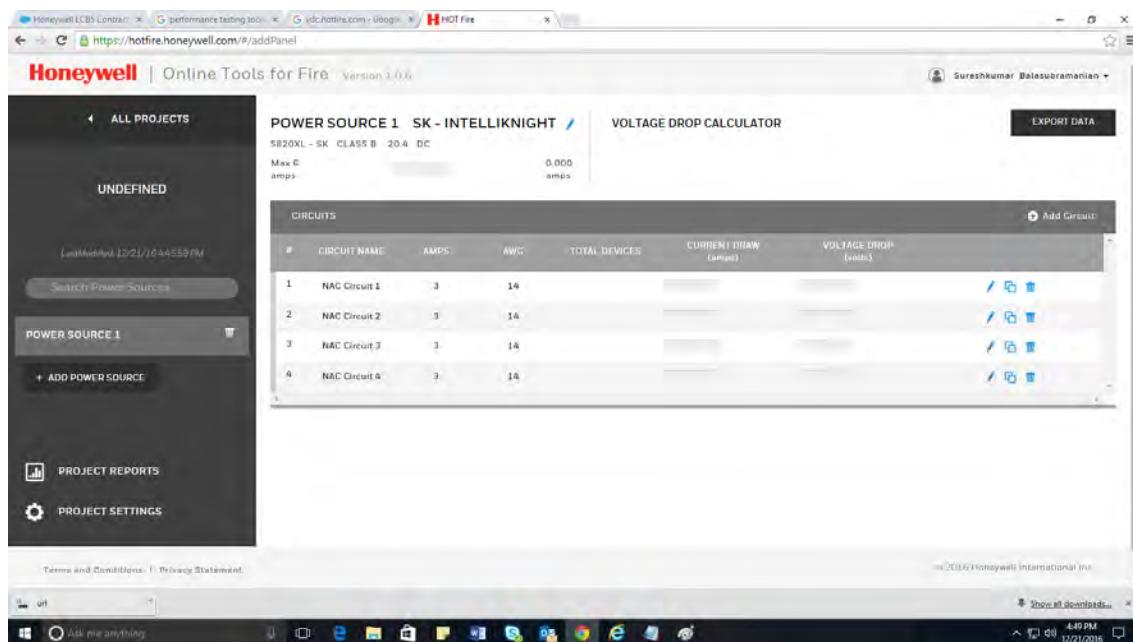


4.3.1 'Cancel' button or close (X) button:

If you click on the 'Cancel' button or close(X) button, then that dialog will be disappeared and the normal screen will be displayed.

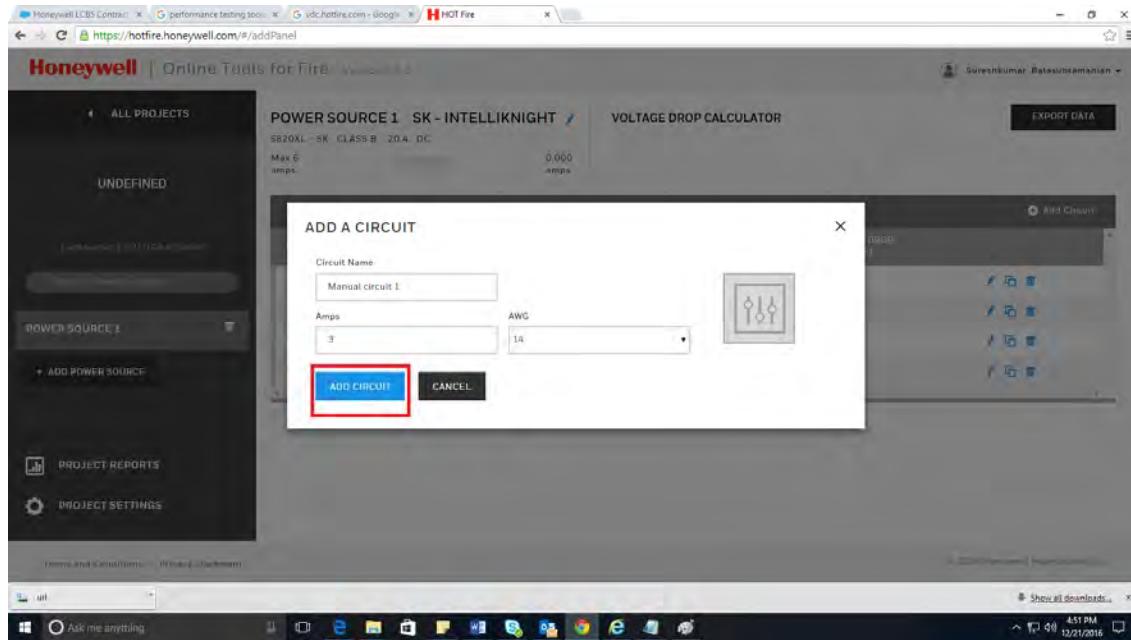


On clicking the 'Cancel' button.

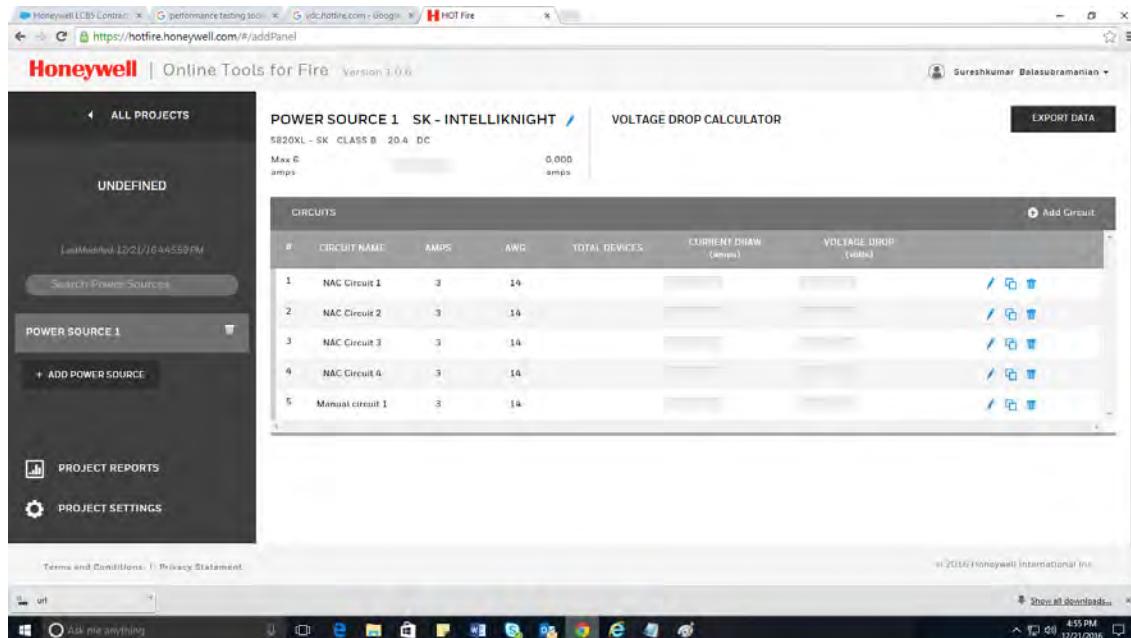


4.3.2 'Add Circuit' button:

If you click on the 'Add circuit' button, then the corresponding circuit has to be added to the circuits table in the last row.



After clicking the 'Add circuit' button, the circuit will be added to the Circuits table.



4.4 Editing an existing circuit values:

If you want to 'edit' a circuit, then you have to click on the 'Edit' icon at the end of the circuit row.

#	CIRCUIT NAME	AMPS	AWG	TOTAL DEVICES	CURRENT DRAW (amps)	VOLTAGE DROP (volts)
1	NAC Circuit 1	3	14			
2	NAC Circuit 2	3	14			
3	NAC Circuit 3	3	14			

After renaming the 'circuit name' and 'AWG', you will click on the 'Save' button.

#	CIRCUIT NAME	AMPS	AWG	TOTAL DEVICES	CURRENT DRAW (amps)	VOLTAGE DROP (volts)
1	NAC Circuit 1_renamed	3	16			

4.4.1 On clicking the Save button:

#	CIRCUIT NAME	AMPS	AWG	TOTAL DEVICES	CURRENT DRAW (amps)	VOLTAGE DROP (volts)
1	NAC Circuit 1_renamed	3	16			
2	NAC Circuit 2	3	14			
3	NAC Circuit 3	3	14			

All the updated values should be saved.

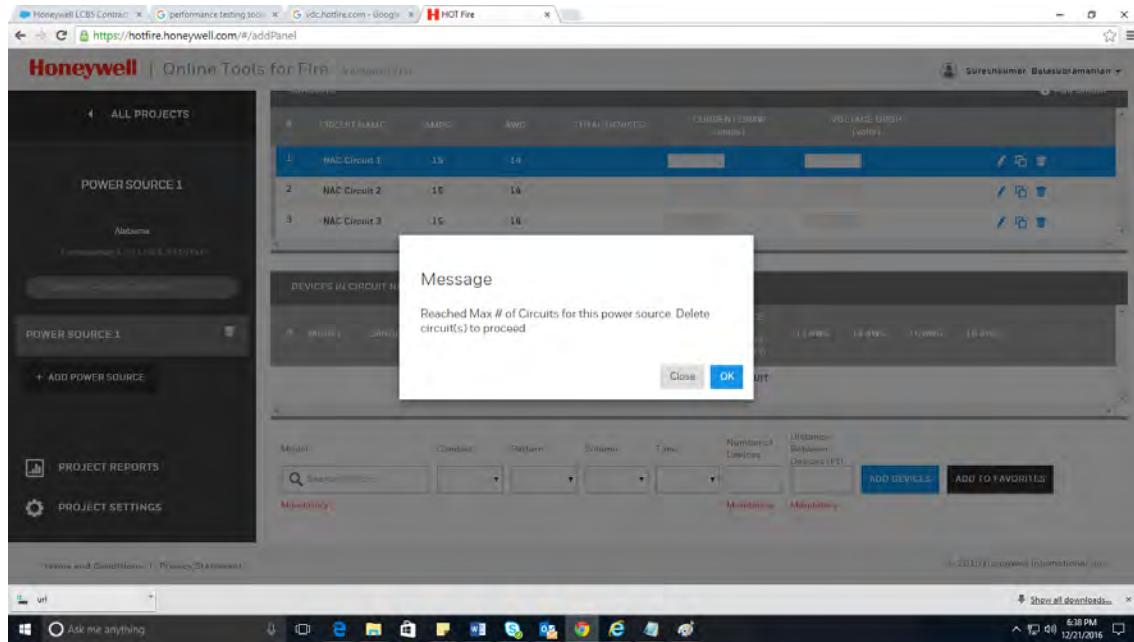
4.4.2 On clicking the 'Cancel' button:

After making changes and then if you don't want those changes to be saved, click on the 'cancel' button.

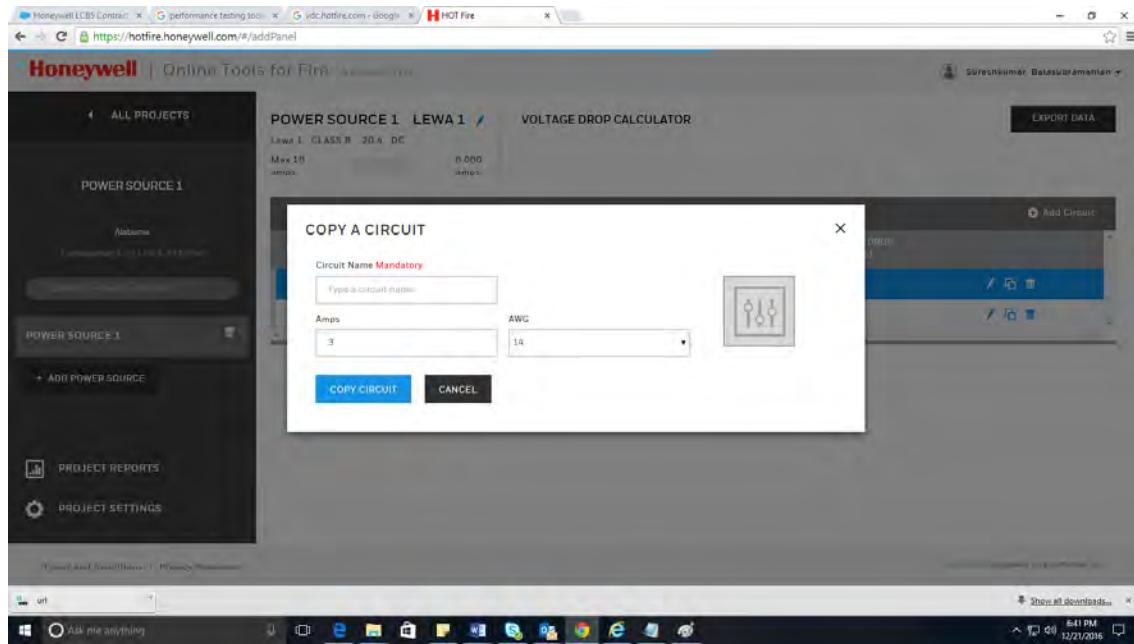
4.5 Copying an existing circuit values:

On clicking the 'copy' icon, a new copy of that circuit should get appended at the bottom of that table in the last row.

If maximum number of circuits are reached for a power source, then a message pops up as displayed below:

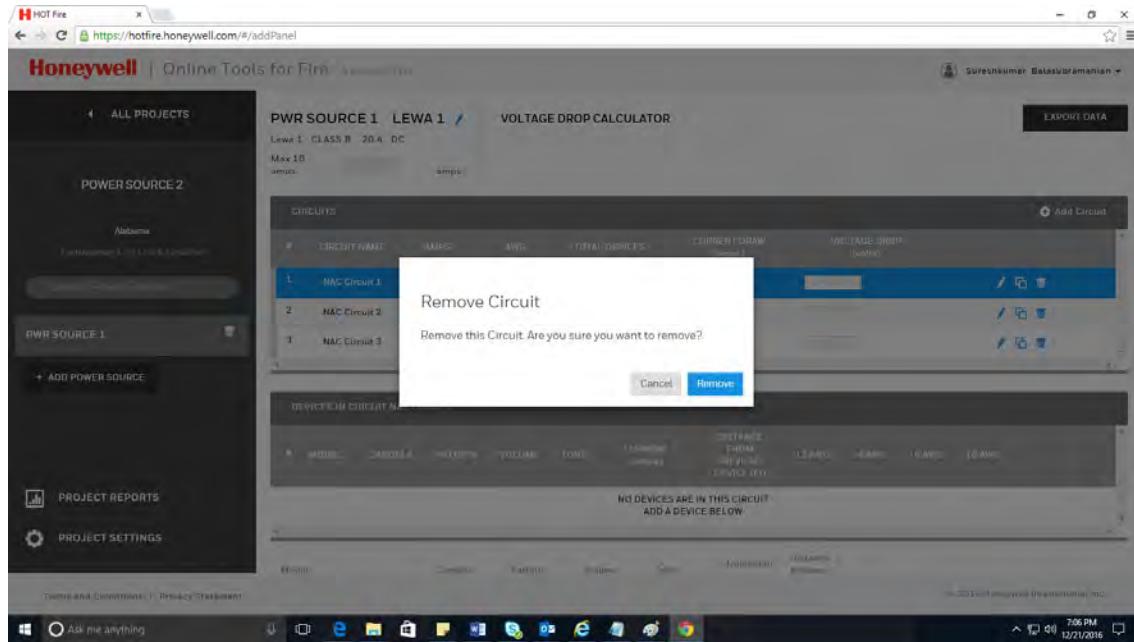


If there are circuits that can be added to that power source then the dialog below will be displayed:

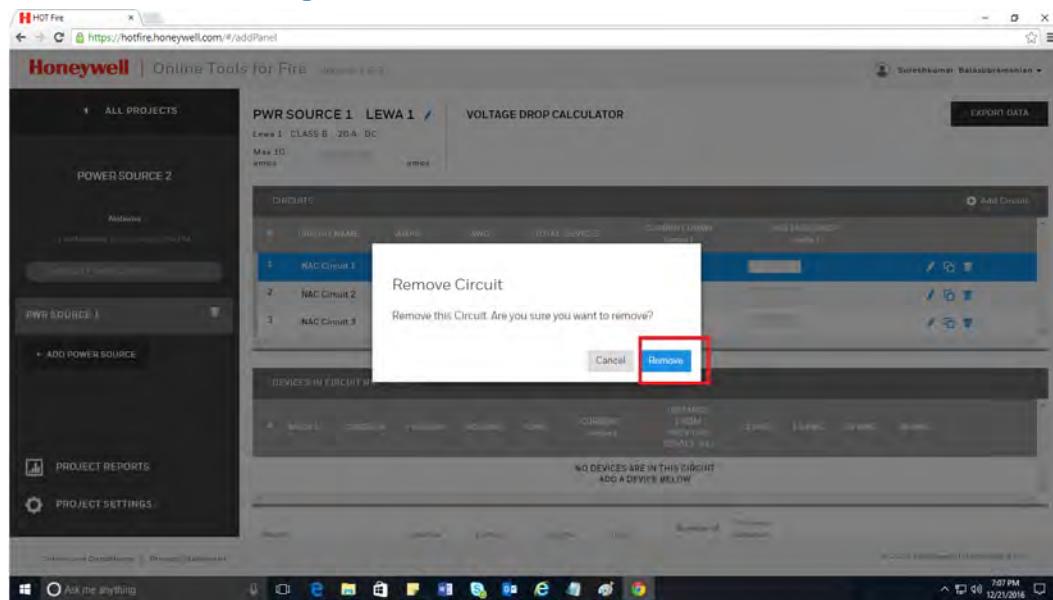


4.6 Deleting a Circuit:

On clicking the 'Delete' icon, at the end of the circuit row, a 'Remove circuit' dialog has to be displayed.



4.6.1 On clicking the 'Remove' button:



The dialog has to be closed and the corresponding circuit has to be removed.

4.7 On clicking clicking on any existing circuit row:

- The row will be highlighted in blue.
- A group of fields has to be displayed at the bottom of the page which is the Devices table and the fields are: 'Model' text box(Mandatory), 'Candela' dropdown, 'Pattern' dropdown, 'Volume' dropdown, 'Tone' dropdown, 'Number of Devices' text field(Mandatory), 'Distance between devices (Ft)' text field(Mandatory), 'Add devices' button and 'Add to Favorites' button.

The screenshot shows the Honeywell HOT Fire software interface. The main window title is "HOT Fire" and the URL is "https://hotfire.honeywell.com/#/addPanel". The top navigation bar includes "Honeywell | Online Tools for Fire" and "Version 1.0.0". A user profile "Sureshkumar Balasubramanian" is visible. The left sidebar has "ALL PROJECTS" and "POWER SOURCE 2" sections, with "Alabama" selected. The "POWER SOURCE 2" section shows "Last Modified 1/22/2016 6:54:08 PM" and a "Search Power Source" button. Below this are "PWR SOURCE 1" and "+ ADD POWER SOURCE" buttons. The main content area has "CIRCUITS" and "DEVICES IN CIRCUIT NAC Circuit 2" sections. The "CIRCUITS" table has two rows:

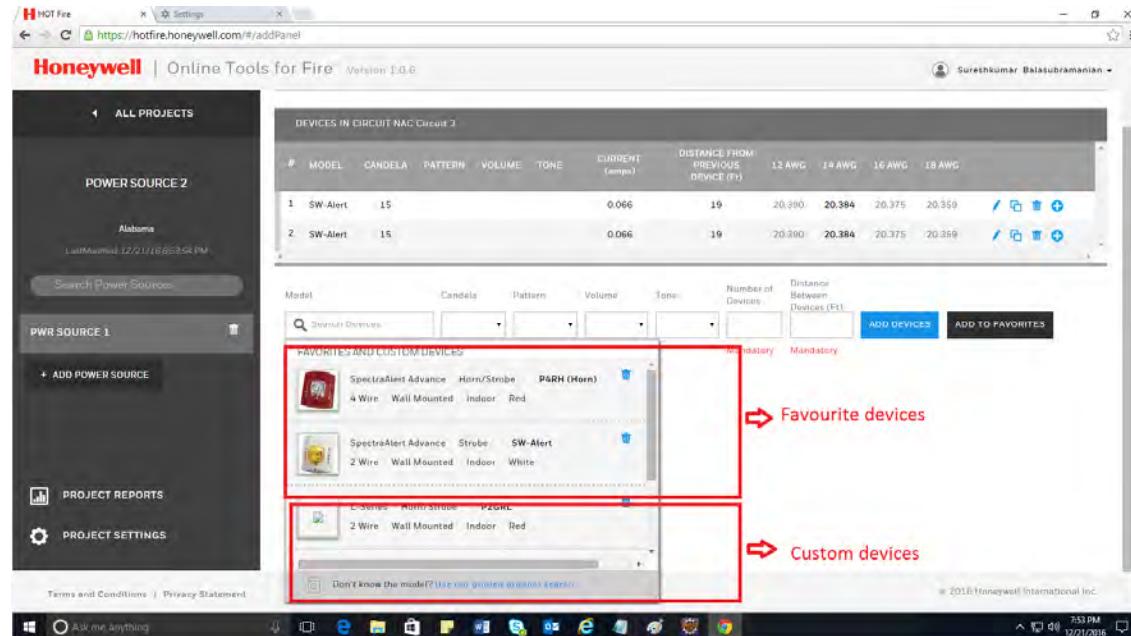
#	CIRCUIT NAME	AMPS	AWG	TOTAL DEVICES	CURRENT DRAW (amps)	VOLTAGE DROP (mV)
1	NAC Circuit 2	15	18			
2	NAC Circuit 3	15	14			

The "DEVICES IN CIRCUIT NAC Circuit 2" section shows a table with columns: #, MODEL, CANDLES, PATTERN, VOLUME, TONE, CURRENT (amps), and DISTANCE FROM PREVIOUS DEVICE (ft). It includes filters for 18 AWG, 19 AWG, 16 AWG, and 10 AWG. A message "NO DEVICES ARE IN THIS CIRCUIT ADD A DEVICE BELOW" is displayed. Below this is a search bar for "Search Device" and buttons for "ADD DEVICES" and "ADD TO FAVORITES".

5. Devices

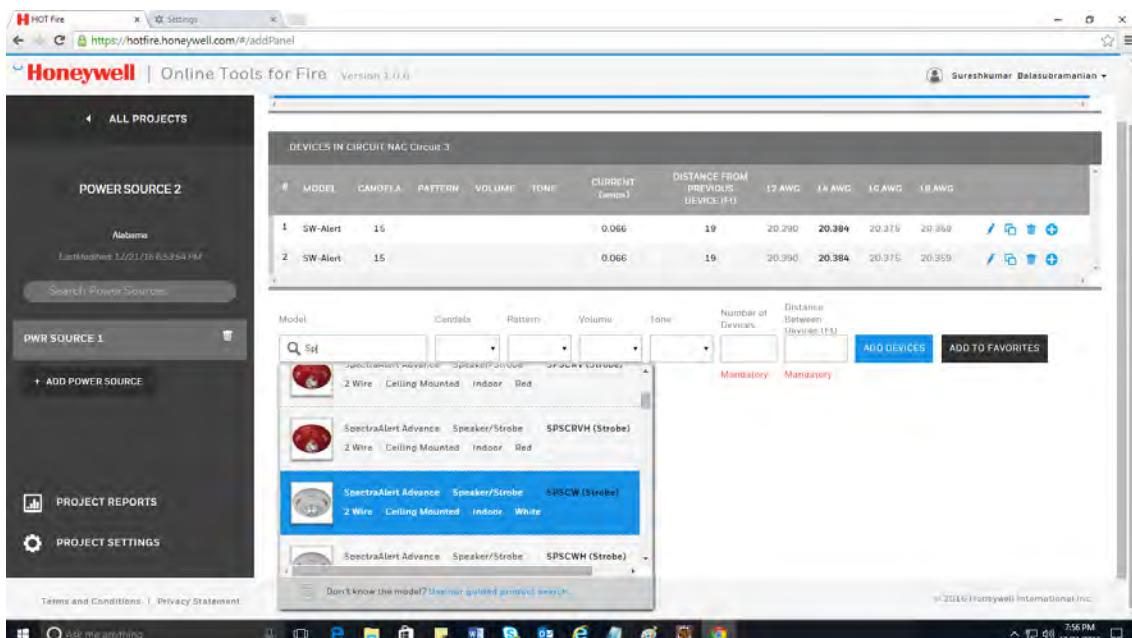
5.1 Adding a device to the circuit:

a) On clicking the 'Model' text box (Mandatory), a drop down with the list of devices is displayed. In the 'Model' dropdown, it has to first display the list of favorite's devices first and then the custom devices.



The screenshot shows the 'Devices in Circuit NAC Circuit 3' table with two entries for 'SW-Alert' devices. Below the table is a search bar and a dropdown menu. The dropdown menu is highlighted with a red box and contains two sections: 'FAVORITES AND CUSTOM DEVICES' and 'CUSTOM DEVICES'. The 'FAVORITES AND CUSTOM DEVICES' section contains three items, with the top two highlighted by red arrows: 'SpectraAlert Advance Horn/Strobe P4RH (Horn)' and 'SpectraAlert Advance Strobe SW-Alert'. The third item in this section is 'E-Alert Horn/Strobe P2RH'. The 'CUSTOM DEVICES' section contains one item: 'E-Alert Horn/Strobe P2RH'. A red arrow points to the 'FAVORITES AND CUSTOM DEVICES' section with the label 'Favorite devices', and another red arrow points to the 'CUSTOM DEVICES' section with the label 'Custom devices'.

b) On entering any specific device name, it will display results as per the searched data and user can select any device by clicking it.



The screenshot shows the 'Devices in Circuit NAC Circuit 3' table with the same two 'SW-Alert' entries. The dropdown menu is now filtered by the search term 'S4'. The results show four items: 'SpectraAlert Advance Speaker/Strobe SPSCRVH (Strobe)', 'SpectraAlert Advance Speaker/Strobe SPSCW (Strobe)', 'KraetaAlert Advance Speaker/Strobe SPSCW (Strobe)', and 'SpectraAlert Advance Speaker/Strobe SPSCWH (Strobe)'. The third item is highlighted with a blue selection bar. A red arrow points to the 'SpectraAlert Advance Speaker/Strobe SPSCW (Strobe)' item with the label 'Custom devices'.

c) If any device has its specific 'Candela' or 'Pattern' or 'Volume' or 'Tone', then those data will be reflected in that corresponding device, once added.

The screenshot shows the Honeywell HOT Fire software interface. On the left, there's a sidebar with 'ALL PROJECTS', 'POWER SOURCE 2' (Alabama, Last Verified: 12/21/2016, 5324 Hrs), 'PWR SOURCE 1' (+ ADD POWER SOURCE), 'PROJECT REPORTS', and 'PROJECT SETTINGS'. The main area has tabs for 'CIRCUITS' and 'DEVICES IN CIRCUIT'. Under 'CIRCUITS', there are two entries: 'NAC Circuit 2' (15A, 14 AWG, Total Devices 1, Current Draw 0.132, Voltage Drop 0.016) and 'NAC Circuit 3' (15A, 14 AWG, Total Devices 2, Current Draw 0.132, Voltage Drop 0.016). Under 'DEVICES IN CIRCUIT NAC Circuit 3', there are two devices: 'SW-Alert' (15A, 19', 20.390, 20.384, 20.375, 20.359). At the bottom, there's a search bar for 'Model' (SPSCW (Strobe)), a 'Candela' dropdown (set to 15, highlighted with a red box), and buttons for 'Pattern', 'Volume', 'Tone', 'Number of Devices' (2), 'Distance Between Devices (FT)' (50), 'ADD DEVICES', and 'ADD TO FAVORITES'.

d) You have to enter the corresponding 'Number of Devices' and 'Distance between Devices (FT)' mandatory fields.

This screenshot is similar to the previous one but with different values in the 'ADD DEVICES' section. The 'Number of Devices' is set to 2 and the 'Distance Between Devices (FT)' is set to 50. The rest of the interface is identical to the first screenshot.

e) On clicking the 'Add Devices' button, those devices will be added to the corresponding circuits at the bottom

The screenshot shows the Honeywell HOT Fire software interface. On the left, there's a sidebar with 'ALL PROJECTS', 'POWER SOURCE 2' (Alabama, Last Modified: 12/21/2016 10:30 AM), 'PWR SOURCE 1', and buttons for '+ ADD POWER SOURCE', 'PROJECT REPORTS', and 'PROJECT SETTINGS'. The main area displays a table for 'POWER SOURCE 2' with columns: #, CIRCUIT NAME, AMPS, AWG, TOTAL DEVICES, CURRENT DRAW (amps), and VOLTAGE DROP (volts). Two rows are listed: 'NAC Circuit 2' (15A, 14 AWG, 4 devices, 0.26A, 0.095V) and 'NAC Circuit 3' (15A, 14 AWG, 4 devices, 0.26A, 0.095V). Below this is a table titled 'DEVICES IN CIRCUIT NAC Circuit 3' with columns: #, MODE, CANDLE, PATTERN, VOLUME, TONE, CURRENT (amps), DISTANCE FROM PREVIOUS DEVICE (ft), and AWG (12 AWG, 18 AWG, 16 AWG, 18 AWG). Two rows are listed: 'SW-Alert' (15A, 14 AWG, 19 ft, 0.066A) and 'SPSCW (Strobe)' (15A, 14 AWG, 50 ft, 0.066A). The 'SPSCW (Strobe)' row is highlighted with a red box. At the bottom, there are search fields for 'Model', 'Candle', 'Pattern', 'Volume', 'Tone', 'Number of Devices', and 'Distance Between Devices (ft)', and buttons for 'ADD DEVICES' and 'ADD TO FAVORITES'.

5.1.1 Recalculation of device voltage values - Scenarios:

You can make any changes to existing parameters of devices and notice that the corresponding voltage values in the AWG columns of the device table are updated.

The Voltage values in the AWG column are recalculated in the following scenarios:

- When the user edits any device value/values.
- When the user copies a device.
- When the user deletes a device.
- When the user inserts a device.
- When the user adds a new device to the circuit.

5.2 Adding a Device to Favorite list:

- On selecting any other device and entering the mandatory fields and clicking on 'Add to Favorites' button, those should be added to the Favorites list which will be shown next time, when clicking 'Model' text field.

CIRCUITS

#	CIRCUIT NAME	AMPS	AWG	TOTAL DEVICES	CURRENT DRAW (amps)	VOLTAGE DROP (volts)
1	NAC Circuit 2	15	14	4	0.264	0.096
2	NAC Circuit 3	15	14	5	0.318	0.170

DEVICES IN CIRCUIT NAC Circuit 3

#	MODEL	CANDLEPOWER	PATTERN	VOLUME	TONE	CURRENT (amps)	DISTANCE FROM PREVIOUS DEVICE (ft)	12 AWG	14 AWG	16 AWG	18 AWG
1	SW-Alert	15				0.066	19	20.380	20.368	20.349	20.319
2	SW-Alert	15				0.066	19	20.380	20.368	20.349	20.319
3	SPSCW (Strobe)	15				0.066	50	20.392	20.326	20.282	20.212
4	SPSCW (Strobe)	15				0.066	50	20.340	20.305	20.248	20.169
5	P2GRL	15	Temporal	High	Electromechanical	0.054	100	20.293	20.230	20.129	19.968

Model: P2GRL | Candlepower: 15 | Pattern: Temporal | Volume: High | Tone: Electromechanical | Number of Devices: 1 | Distance Between Devices (ft): 100 | ADD DEVICES | ADD TO FAVORITES

b) Corresponding device added to its circuit at the bottom:

CIRCUITS

#	CIRCUIT NAME	AMPS	AWG	TOTAL DEVICES	CURRENT DRAW (amps)	VOLTAGE DROP (volts)
1	NAC Circuit 2	15	14	4	0.264	0.096
2	NAC Circuit 3	15	14	5	0.318	0.170

DEVICES IN CIRCUIT NAC Circuit 3

#	MODEL	CANDLEPOWER	PATTERN	VOLUME	TONE	CURRENT (amps)	DISTANCE FROM PREVIOUS DEVICE (ft)	12 AWG	14 AWG	16 AWG	18 AWG
2	SW-Alert	15				0.066	19	20.376	20.361	20.339	20.302
3	SPSCW (Strobe)	15				0.066	50	20.339	20.302	20.245	20.152
4	SPSCW (Strobe)	15				0.066	50	20.311	20.260	20.180	20.045
5	P2GRL	15	Temporal	High	Electromechanical	0.054	100	20.293	20.230	20.129	19.968

Model: P2GRL | Candlepower: 15 | Pattern: Temporal | Volume: High | Tone: Electromechanical | Number of Devices: 1 | Distance Between Devices (ft): 100 | ADD DEVICES | ADD TO FAVORITES

c) Added to the Favorite list also.

The screenshot shows the Honeywell HOT Fire software interface. On the left, there's a sidebar with 'ALL PROJECTS', 'POWER SOURCE 2' (Alabama, last modified 12/21/2016 10:45 AM), 'PWR SOURCE 1' (+ ADD POWER SOURCE), 'PROJECT REPORTS', and 'PROJECT SETTINGS'. The main area displays a table of devices with columns: Model, Candela, Pattern, Volume, Tone, Current (amps), Distance from Previous Device (Ft), and AWG sizes (12, 14, 16, 18). The table includes rows for SW-Alert, SPSCW (Strobe), SPSCW (Strobe), and P2GRL. Below the table is a 'FAVORITES AND CUSTOM DEVICES' section with a search bar and buttons for 'ADD TO FAVORITES' and 'ADD TO FAVORITES'. A red box highlights the 'P2GRL' entry in the favorites list, with an arrow pointing to it labeled 'Newly added Favourite device'.

5.3 Editing a device details:

To edit an existing device click on the “Edit” icon at the right side of each row.

The screenshot shows the Honeywell HOT Fire software interface. The left sidebar is identical to the previous screenshot. The main area shows a table of devices in a circuit, with columns: Model, Candela, Pattern, Volume, Tone, Current (amps), Distance from Previous Device (Ft), and AWG sizes (12, 14, 16, 18). The table includes rows for NAC Circuit 2 and NAC Circuit 3. Below the table is a 'DEVICES IN CIRCUIT' section with a search bar and buttons for 'ADD TO FAVORITES' and 'ADD TO FAVORITES'. A red box highlights the 'Edit' icon for the first device in the list, located in the top right corner of the device row.

Clicking the ‘Edit’ button will change the following fields into editable ones: ‘Candela’ drop down, ‘Pattern’ drop down, ‘Volume’ dropdown field, ‘Tone’ dropdown field and ‘Distance from Previous Device (Ft)’ text box.

Devices in Circuit NAC Circuit 3

#	Model	Candela	Pattern	Volume	Tone	Current (amps)	Distance From Previous Device (ft)	12 AWG	14 AWG
2	SW-Alert	30				0.066	20	20.376	20.361
3	SPSCW (Strobe)	15				0.066	50	20.339	20.302
4	SPSCW (Strobe)	15	Temporal	High	Electromechanical	0.066	50	20.315	20.264
5	P2GRL	15				0.054	100	20.293	20.230

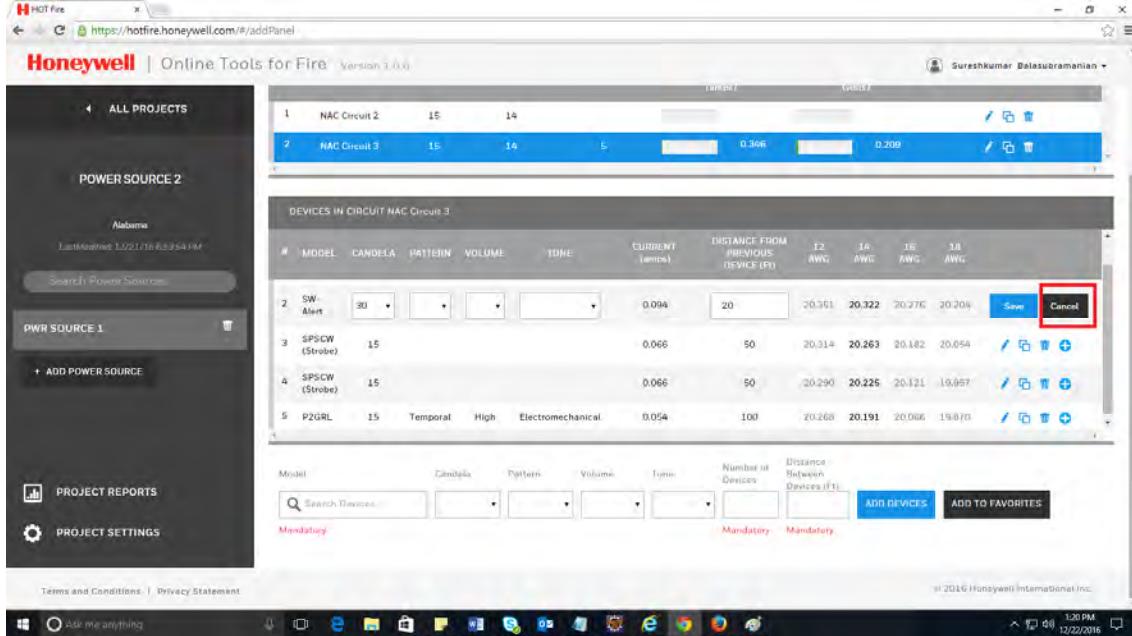
5.3.1 On clicking the Save button:

Those changed values will be saved.

#	Model	Candela	Pattern	Volume	Tone	Current (amps)	Distance From Previous Device (ft)	12 AWG	14 AWG
2	SW-Alert	15				0.094	20	20.351	20.322
3	SPSCW (Strobe)	15				0.066	50	20.314	20.263
4	SPSCW (Strobe)	15				0.066	50	20.290	20.225
5	P2GRL	15	Temporal	High	Electromechanical	0.054	100	20.268	20.191

5.3.2 On clicking the 'Cancel' button:

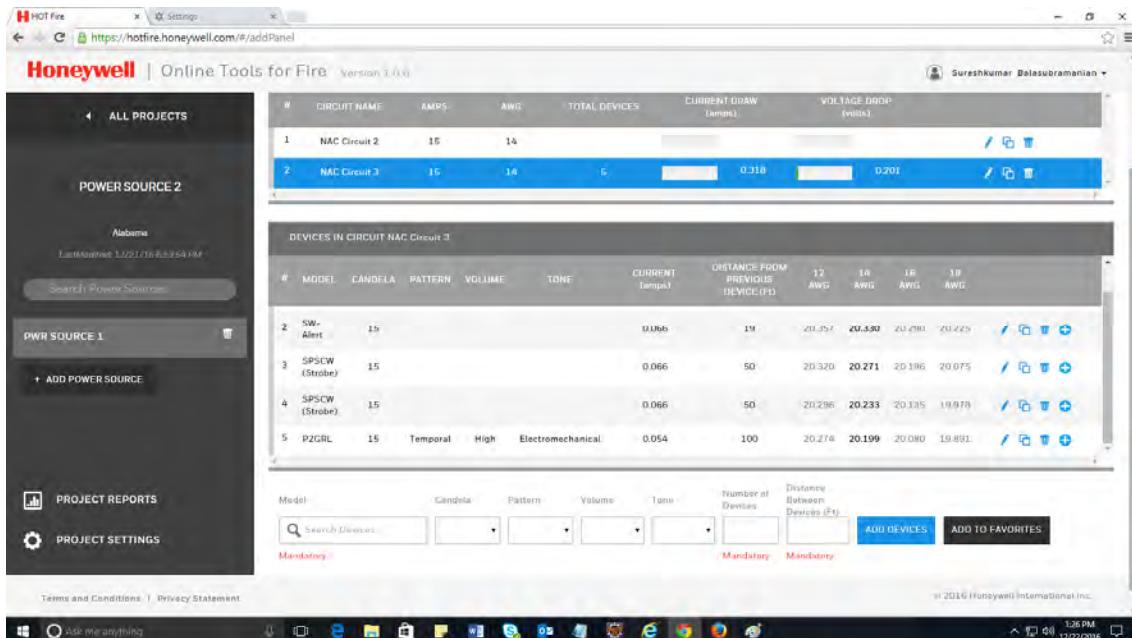
On entering the cancel button, those values will not be updated.



The screenshot shows the 'Devices in Circuit' table for NAC Circuit 3. The table includes columns for #, Model, Candela, Pattern, Volume, Tone, Current (amps), Distance from Previous Device (ft), and AWG sizes (12, 14, 16, 18, 20). The 'Cancel' button is highlighted with a red box in the top right corner of the table area.

#	Model	Candela	Pattern	Volume	Tone	Current (amps)	Distance from Previous Device (ft)	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG
2	SW-Alert	90				0.094	20	20.351	20.322	20.276	20.204	
3	SPSCW (Strobe)	15				0.066	50	20.314	20.263	20.182	20.054	
4	SPSCW (Strobe)	15				0.066	50	20.290	20.225	20.121	19.957	
5	P2GRL	15	Temporal	High	Electromechanical	0.054	100	20.268	20.191	20.066	19.873	

New entered values not saved due to cancel operation.



The screenshot shows the 'Devices in Circuit' table for NAC Circuit 3. The table includes columns for #, Model, Candela, Pattern, Volume, Tone, Current (amps), Distance from Previous Device (ft), and AWG sizes (12, 14, 16, 18, 20). The 'Cancel' button is highlighted with a red box in the top right corner of the table area.

#	CIRCUIT NAME	AMPS	AWG	TOTAL DEVICES	CURRENT DRAW (amps)	VOLTAGE DROP (volts)
1	NAC Circuit 2	15	14			
2	NAC Circuit 3	15	14	5	0.318	0.201

5.4 Copying a Device:

When clicking the 'Copy' icon for a row, that device will be copied in the last row of the device table. After copying a device all the values will be recalculated.

CIRCUITS

CIRCUIT NAME	NAME	TYPE	TOTAL DEVICES	CURRENT DRAW (amps)	VOLTAGE DROP (volts)
1 NAC Circuit 2	15	14	6	0.38A	0.310
2 NAC Circuit 3	15	14	6	0.38A	0.310

DEVICES IN CIRCUIT NAC Circuit 3

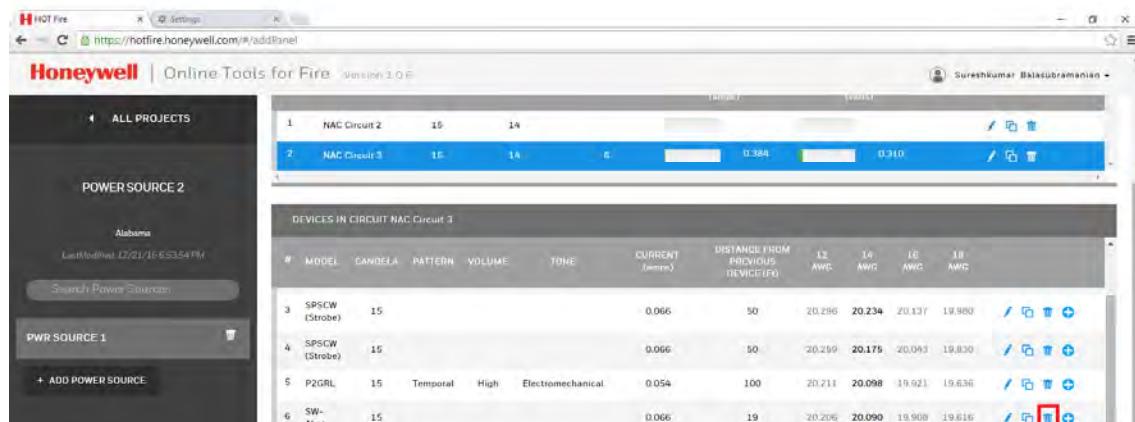
#	MODEL	CANDLEA	PATTERN	VOLUME	TONE	CURRENT (amps)	DISTANCE FROM PREVIOUS DEVICE (ft)	12 AWG	18 AWG	16 AWG	18 AWG
1	SW-Alert	15				0.066	19	20.373	20.353	20.326	20.282
2	SW-Alert	15				0.066	19	20.347	20.314	20.265	20.184
3	SPSCW (Strobe)	15				0.066	50	20.296	20.234	20.137	19.989

Device copied

Model: SPSCW (Strobe) CANDLEA: 15 Pattern: Volume: Tone: Number of Devices: 1 Distance Between Devices (ft): 50 ADD DEVICES ADD TO FAVORITES

5.5 Deleting a Device from a NAC:

On clicking the 'Delete' icon in a row will bring up the 'Remove Device' dialog. After deleting a device all the values will be recalculated automatically.



Devices in Circuit NAC Circuit 3

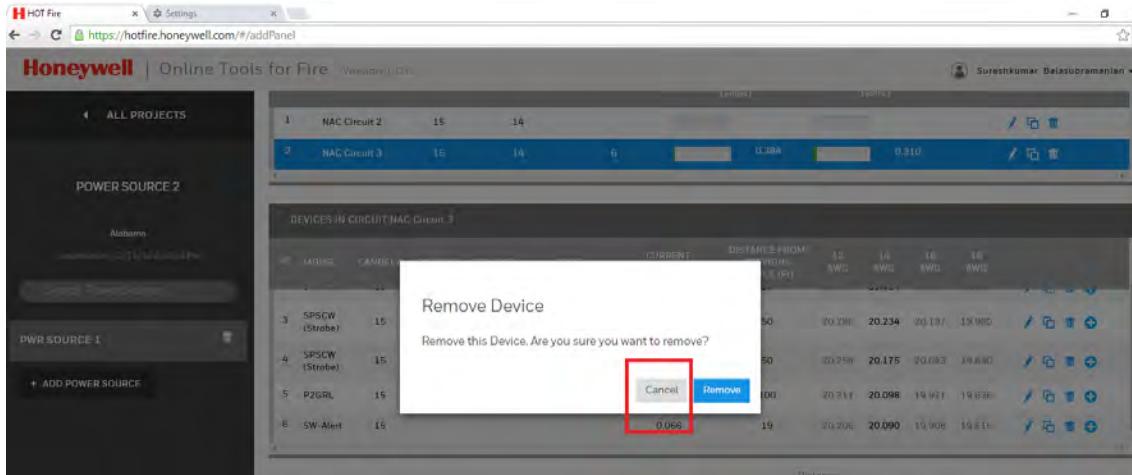
#	Model	Category	Pattern	Volume	Tone	Current (Amps)	Distance from Previous Device (ft)	12 AWG	14 AWG	16 AWG	18 AWG
3	SPSCW (Strobe)	15				0.066	50	20.296	20.234	20.137	19.980
4	SPSCW (Strobe)	15				0.066	50	20.299	20.175	20.093	19.830
5	P2GRL	15	Temporal	High	Electromechanical	0.054	100	20.211	20.098	19.921	19.636
6	SW-Alert	15				0.066	19	20.206	20.090	19.908	19.616

Remove Device

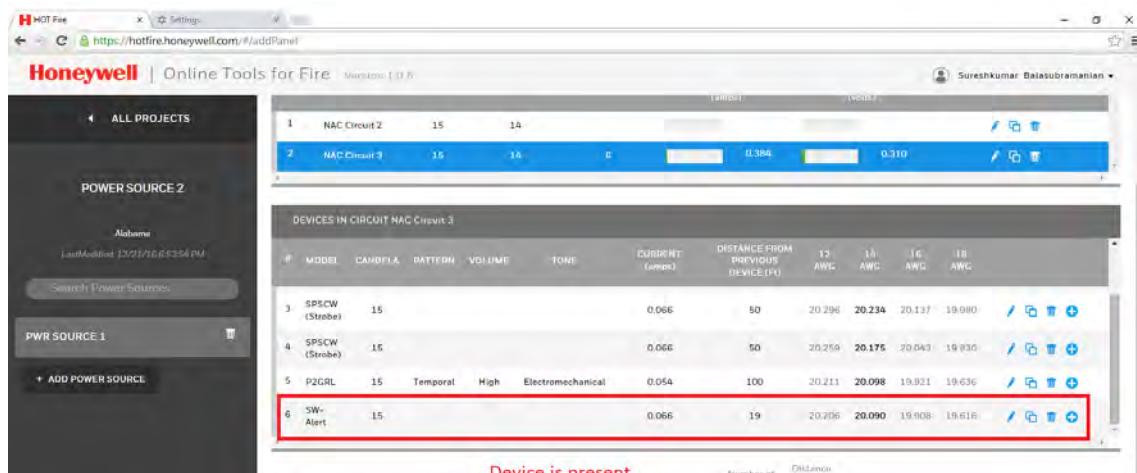
Remove this Device. Are you sure you want to remove?

5.5.1 On clicking the 'Cancel' button in Remove Device dialog:

On clicking the 'Cancel' button in the 'Remove Device' dialog, the delete operation will be cancelled and that particular device should be present in the device table, even after the dialog is closed.

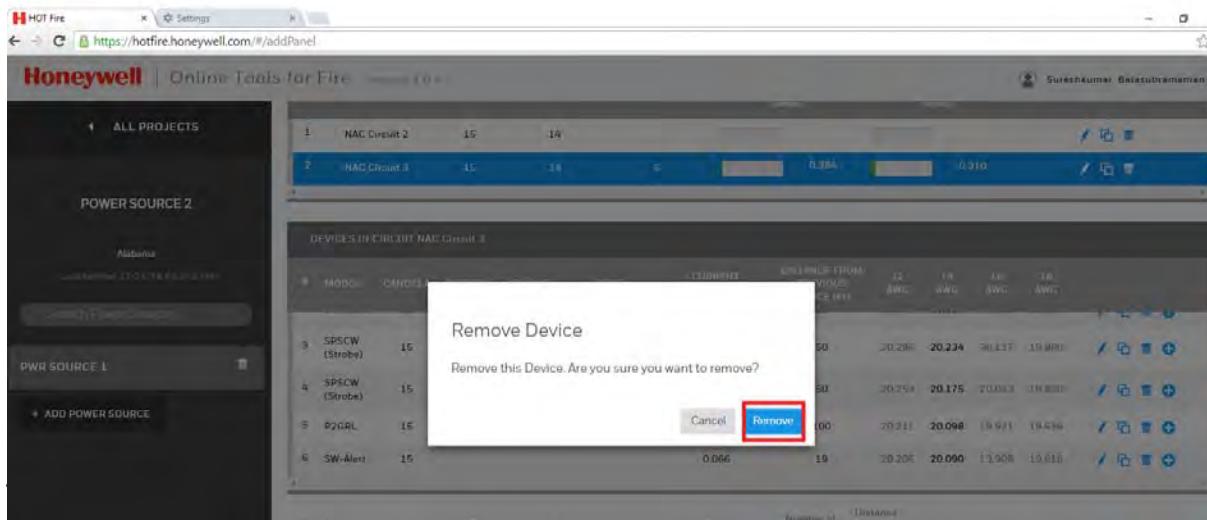


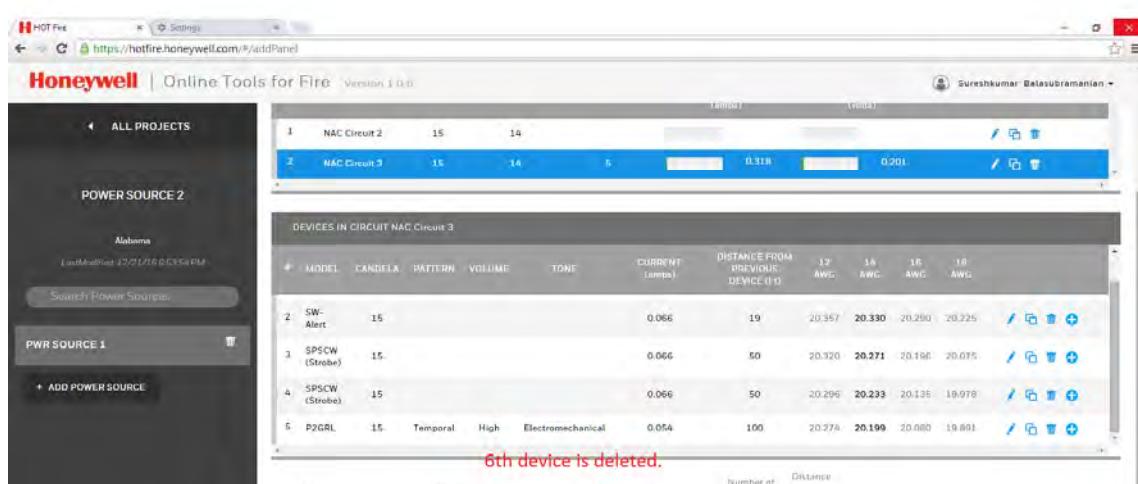
On clicking the Cancel button, the device will not be deleted and the 'Remove Device' dialog will close.



5.5.2 On clicking the 'Remove' button in the Remove device dialog:

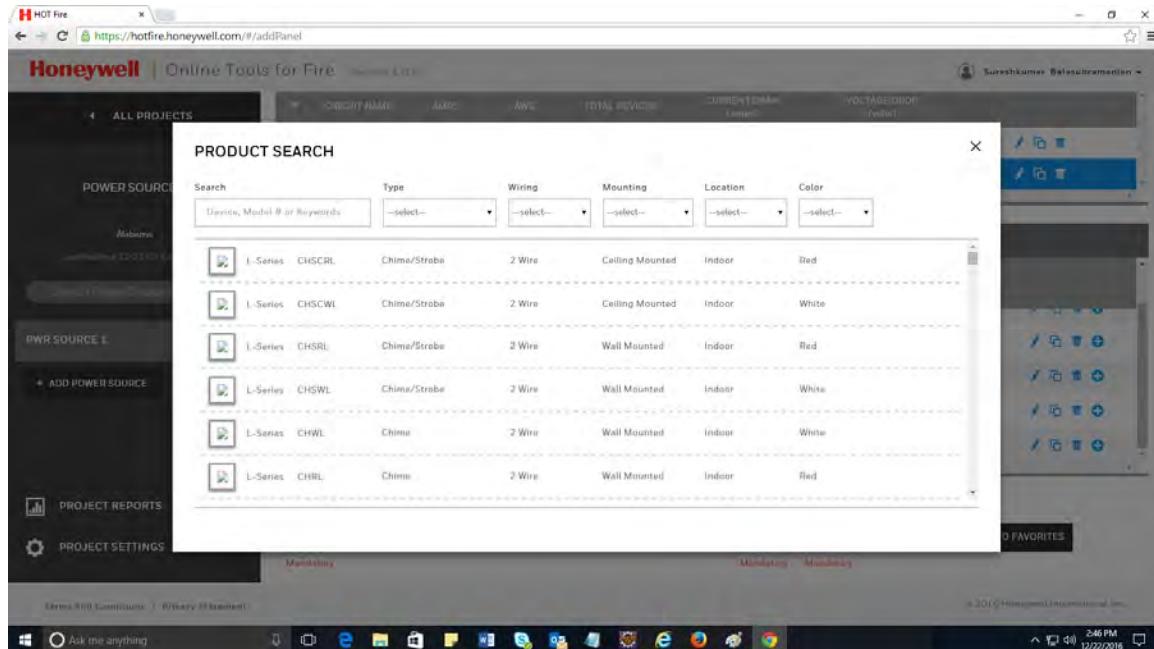
When clicking the 'Remove' button in the 'Remove Device' dialog, the dialog will close and that particular device will be deleted from the NAC.





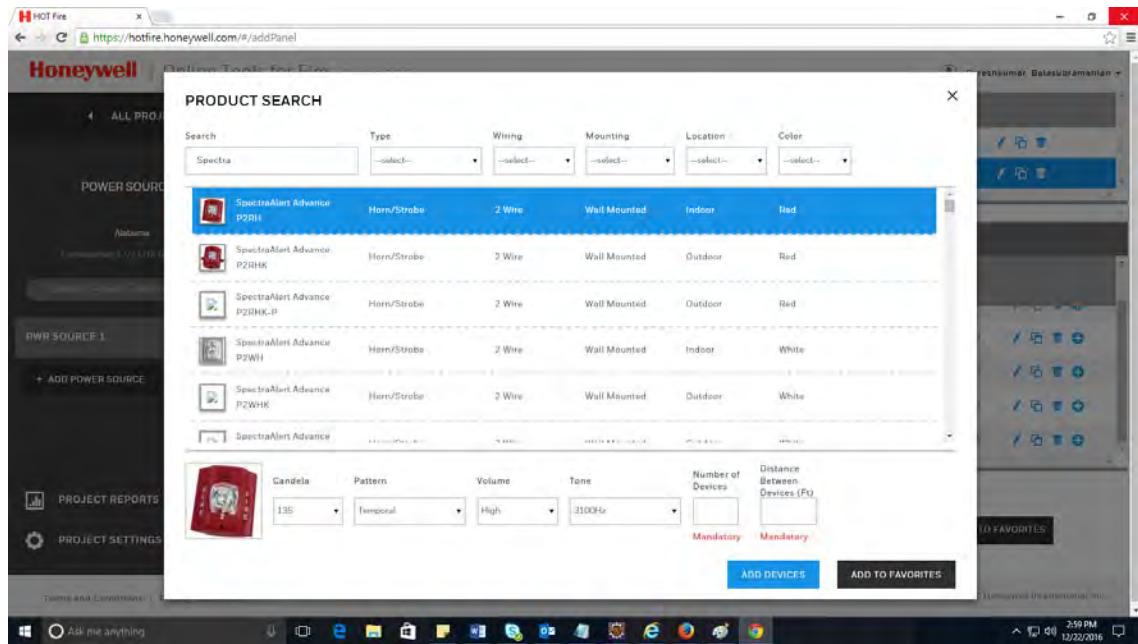
5.6 Inserting a device:

On clicking the 'Insert' icon at the end of a device row, it should display the 'Product Search' dialog which is shown below. After providing all details in the dialog and inserting device(s), all the values in the device table are recalculated.



5.7 Product Search Dialog

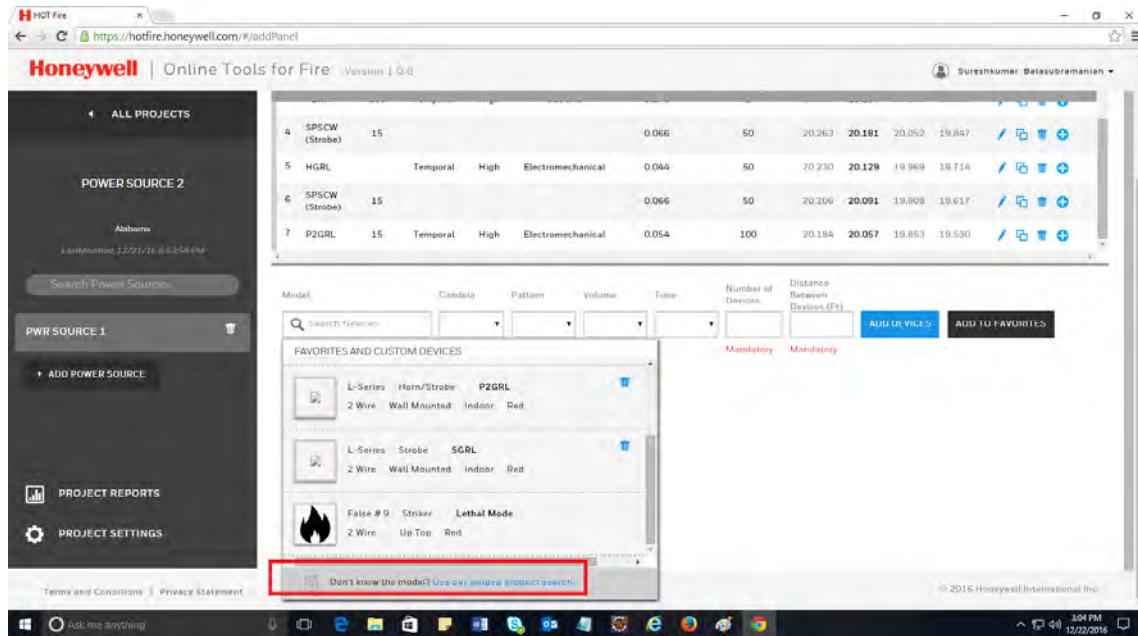
You can search for devices using this dialog by entering the device name in the Search bar shown below.



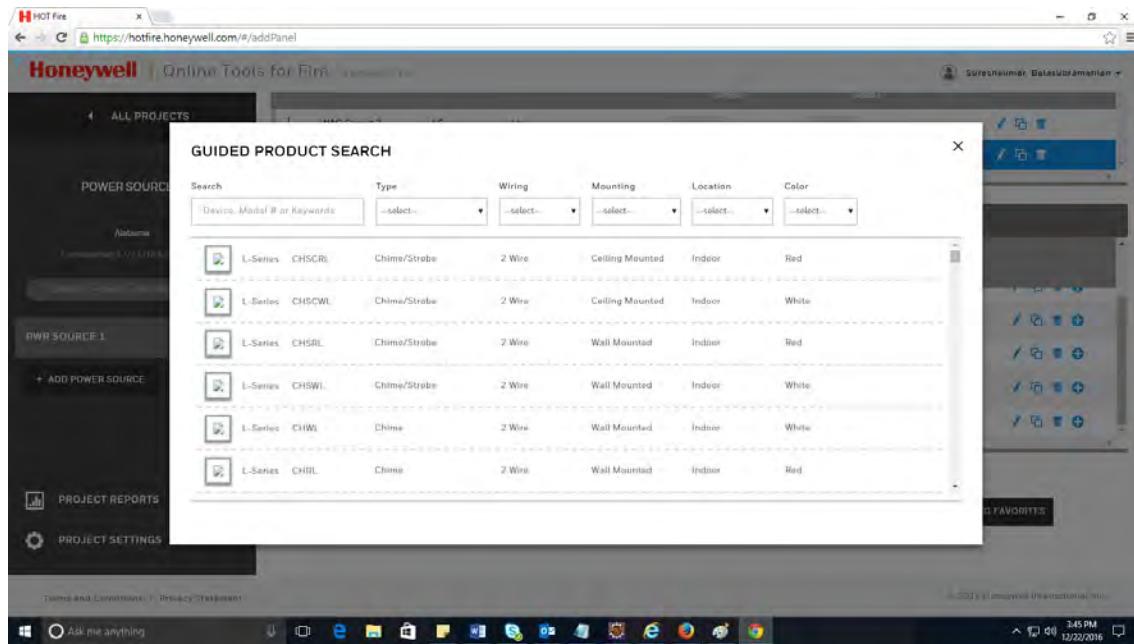
And then enter the mandatory fields and click on the 'Add Devices' button.

5.8 Guided Product search

For users who are not familiar with device models, the tool offers a 'Guided Product Search' option on clicking the 'Use our guided product search' link present at the bottom of the 'Model' field in Devices table (shown below).



Clicking that link opens a new dialog named 'Guided Product Search'.



6. Reports

Clicking the 'Project Reports' link on left navigation to go to the screen below.

Honeywell | Online Tools for Fire Version 1.0.6

PREPARED BY
Sureshkumar Balasubramanian

SELECT POWER SOURCES AND CIRCUITS

POWER SOURCE:	VOLTS	POWER		
CIRCUIT:	AMPS	AWG	0 DEVICES	AMPS USED
POWER SOURCE 1				
+ ADD POWER SOURCE				

No data found

POWER SOURCE 1

+ ADD POWER SOURCE

PROJECT REPORTS

PROJECT SETTINGS

© 2016 Honeywell International Inc.

On clicking 'Select Power Sources and Circuits' link, a dialog "Report Selection" opens up and it will display the list of all power sources and corresponding circuits in a particular project.

Honeywell | Online Tools for Fire Version 1.0.6

PREPARED BY
Sureshkumar Balasubramanian

REPORT SELECTION

Available Power sources and Circuits for Honeywell ACS.

- Power source 1
 - NAC Circuit 1
 - NAC Circuit 2
 - NAC Circuit 3

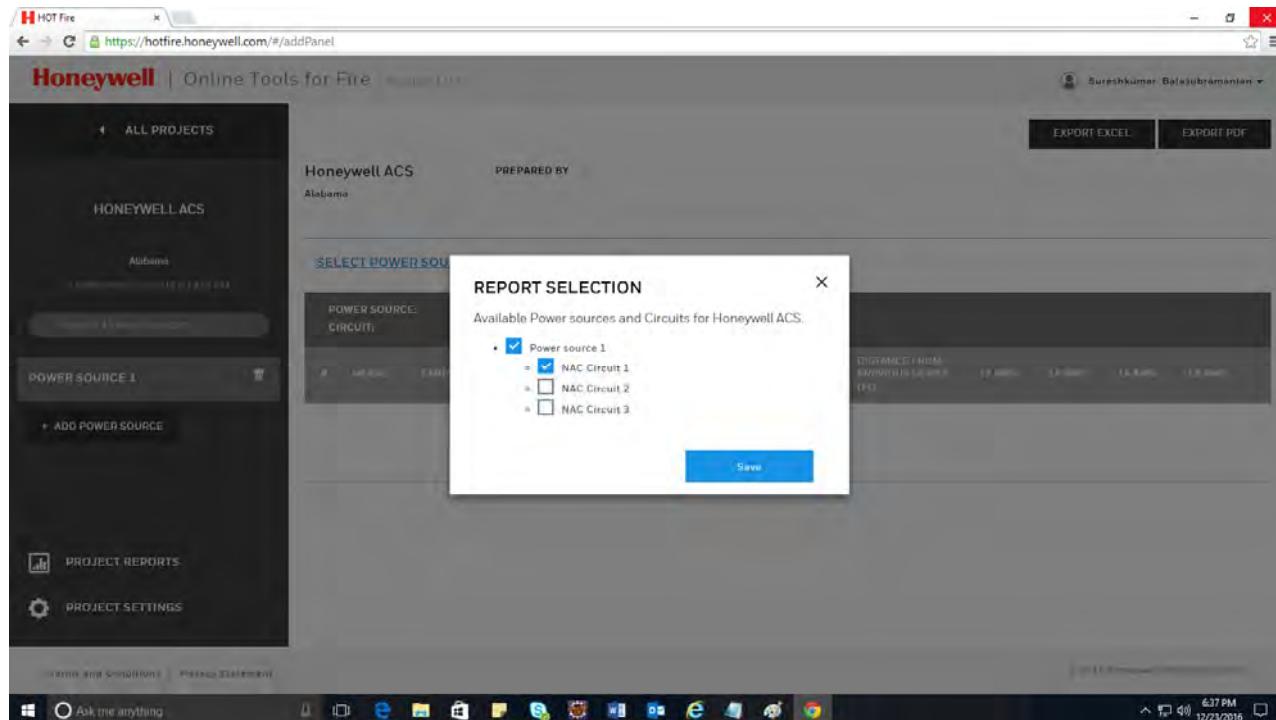
POWER SOURCE 1

+ ADD POWER SOURCE

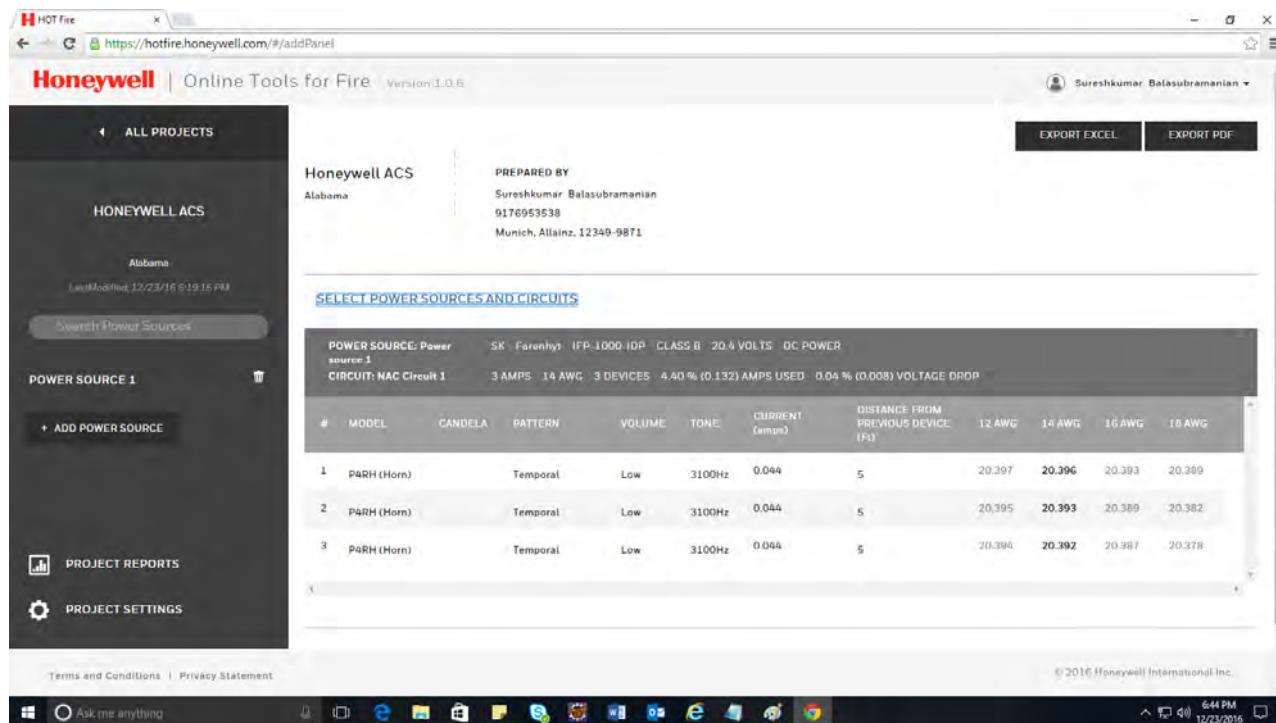
PROJECT REPORTS

© 2016 Honeywell International Inc.

Select the appropriate circuits for which you need the report and click on the 'Save' button. Then the respective power source, circuit details, devices and their current draw, voltage drop will be calculated and displayed in the Reports screen.



Report Selection results displayed in Reports Screen (see below)



6.1 Exporting to Excel

If you click on the 'Export Excel' button, the report will be downloaded in an excel format.

The screenshot shows the Honeywell Online Tools for Fire interface. The main content area displays a report for a Honeywell ACS project in Alabama. The report includes a table titled 'SELECT POWER SOURCES AND CIRCUITS' with the following data:

POWER SOURCE	source:1	SK	Farenhyt	IFP-1000 IDP	CLASS B	20.4 VOLTS	DC POWER
CIRCUIT: NAC Circuit 1	3 AMPS	14 AWG	3 DEVICES	4.40 % (0.132)	AMPS USED	0.04 % (0.008)	VOLTAGE DROP
#	MODEL	CANDELA	PATTERN	VOLUME	TONE	CURRENT (amps)	DISTANCE FROM PREVIOUS DEVICE (ft)
1	P4RH (Horn)		Temporal	Low	3100Hz	0.044	5
2	P4RH (Horn)		Temporal	Low	3100Hz	0.044	5
3	P4RH (Horn)		Temporal	Low	3100Hz	0.044	5

At the bottom left of the browser window, a download dialog box is visible with the file name 'Honeywell ACS-2016-12-23.xls'. The dialog box contains the message: 'The file format and extension of "Honeywell ACS-2016-12-23.xls" don't match. The file could be corrupted or unsafe. Unless you trust its source, don't open it. Do you want to open it anyway?' with 'Yes', 'No', and 'Help' buttons.

On opening the excel report, it will display a dialog as shown below. Click 'Yes'.

The screenshot shows a Microsoft Excel window with a warning dialog box in the foreground. The dialog box contains the message: 'The file format and extension of "Honeywell ACS-2016-12-23.xls" don't match. The file could be corrupted or unsafe. Unless you trust its source, don't open it. Do you want to open it anyway?' with 'Yes', 'No', and 'Help' buttons. The 'Yes' button is highlighted with a red box.

The reports will then be opened in an excel file, which shows the selected circuit and device details and the voltage drop calculations.

NOTE: If you want to use this report to Copy/Paste data to CAD, please format the column widths so that CAD can display the information properly

1 HONEYWELL | Online Tools for Fire
2 1.0.6
3
4
5 PROJECT DETAILS
6 Honeywell ACS
7
8 Alabama
9
10 PREPARED BY
11
12 Suresh Kumar Balasubramanian
13 9.18E+09
14 Munich, Alteinz, Stadium, 12349-9871
15
16
17 POWER SC MODEL N BRAND: SI CLASS: CL1 VOLTS: 20 POWER: DC
18 CIRCUIT N AMPS: 3 AWG: 14 TOTAL DE 4.4 % (0.11.04 % (0.008) VOLTAGE DROP
19
20 # MODEL CANDLA PATTERN VOLUME TONE CURRENT DISTANCE 12 AWG 14 AWG 16 AWG 18 AWG
21 1 P4RH (Horn) Temporal Low 3100Hz 0.044 5 20.397 20.396 20.393 20.399
22 2 P4RH (Horn) Temporal Low 3100Hz 0.044 5 20.395 20.393 20.389 20.382
23 3 P4RH (Horn) Temporal Low 3100Hz 0.044 5 20.394 20.392 20.387 20.378
24 VOLTAGE 0.006 0.008 0.013 0.022
25
26
27
28
29
30
31
32
33

6.2 Exporting to PDF

On clicking the 'Export PDF' button, the report will be exported in a PDF file and will be downloaded automatically.

HONEYWELL ACS

POWER SOURCE 1

POWER SOURCE: Power source 1 SK - Farenhyt IPF-1000 IDP CLASS B 20.4 VOLTS DC POWER

CIRCUIT: NAC Circuit 1 3 AMPS 14 AWG 3 DEVICES 4.40 % (0.132) AMPS USED 0.04 % (0.008) VOLTAGE DROP

#	MODEL	CANDELA	PATTERN	VOLUME	TONE	CURRENT (amps)	DISTANCE FROM PREVIOUS DEVICE (ft)	12 AWG	14 AWG	16 AWG	18 AWG
1	P4RH (Horn)		Temporal	Low	3100Hz	0.044	5	20.397	20.396	20.393	20.389
2	P4RH (Horn)		Temporal	Low	3100Hz	0.044	5	20.395	20.393	20.389	20.382
3	P4RH (Horn)		Temporal	Low	3100Hz	0.044	5	20.394	20.392	20.387	20.378

[Honeywell ACS-2016.pdf](#)

On opening the PDF file, user will see the selected circuits, device details and other voltage drop related calculations.

PROJECT DETAILS

Project Name: Honeywell ACS
Project Code: 9176953538
Project Location: Munich, Allainz, Stadium, (2349-9871), Alabama

POWER SOURCE: Power source 1 MODEL: NUMB#B1; IPF-1000-IDP BRAND: SK - Farenhyt CLASS B 20.4 VOLTS DC POWER

CIRCUIT: NAC Circuit 1 3 Amps 14 AWG 3 DEVICES 4.4 % (0.132) AMPS USED 0.04 % (0.008) VOLTAGE DROP

#	MODEL	CANDELA	PATTERN	VOLUME	TONE	CURRENT (amps)	DISTANCE FROM PREVIOUS DEVICE (ft)	12 AWG	14 AWG	16 AWG	18 AWG
1	P4RH (Horn)		Temporal	Low	3100Hz	0.044	5	20.397	20.396	20.393	20.389
2	P4RH (Horn)		Temporal	Low	3100Hz	0.044	5	20.395	20.393	20.399	20.382
3	P4RH (Horn)		Temporal	Low	3100Hz	0.044	5	20.394	20.392	20.397	20.378

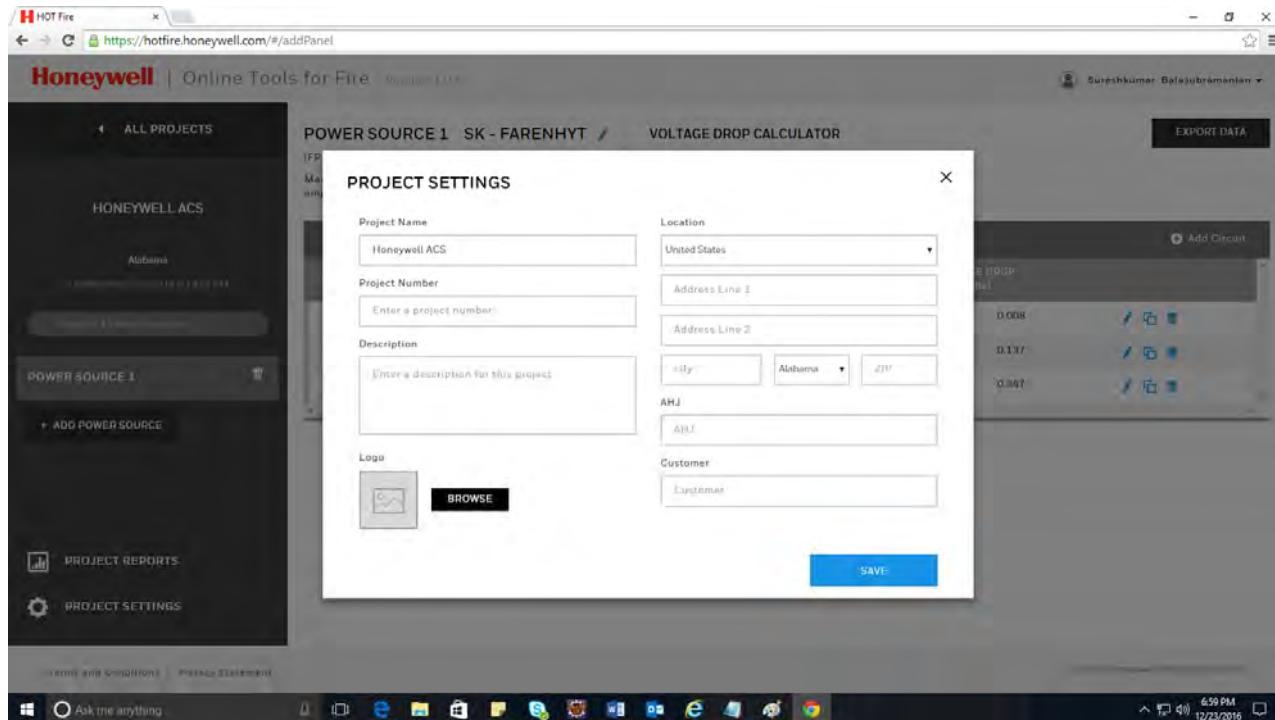
	Voltage Drop	0.006	0.008	0.013	0.022
--	--------------	-------	-------	-------	-------

7. Other Functionalities

There are few other operations that can be performed in HOT Fire application. Please see those details below.

7.1 Project Settings

On selecting the 'Project Settings' link on left navigation, the 'Project settings' dialog displays the project details, given while creating the project.



You can use this dialog to edit the parameters and save the changes.

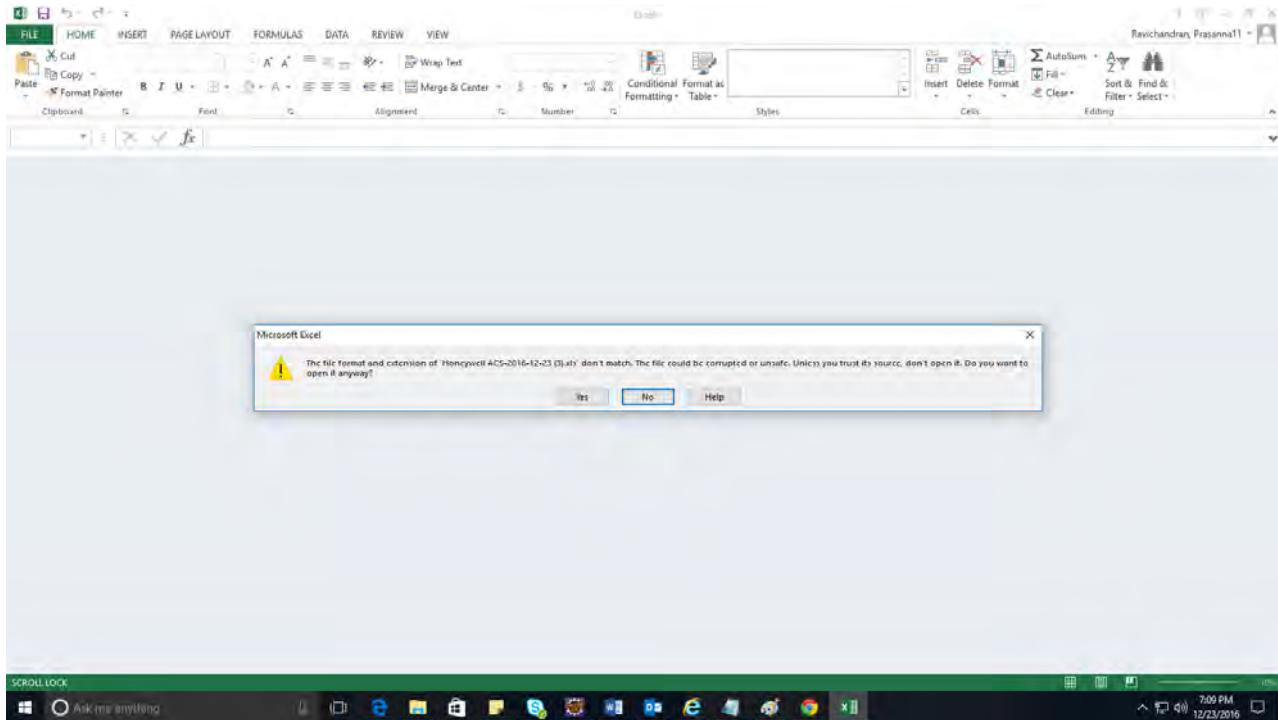
7.2 Exporting a project

After creating a project and making changes in it, the corresponding project will be exported to an excel file, by clicking on the “Export Data” button, which is present at the top right corner.

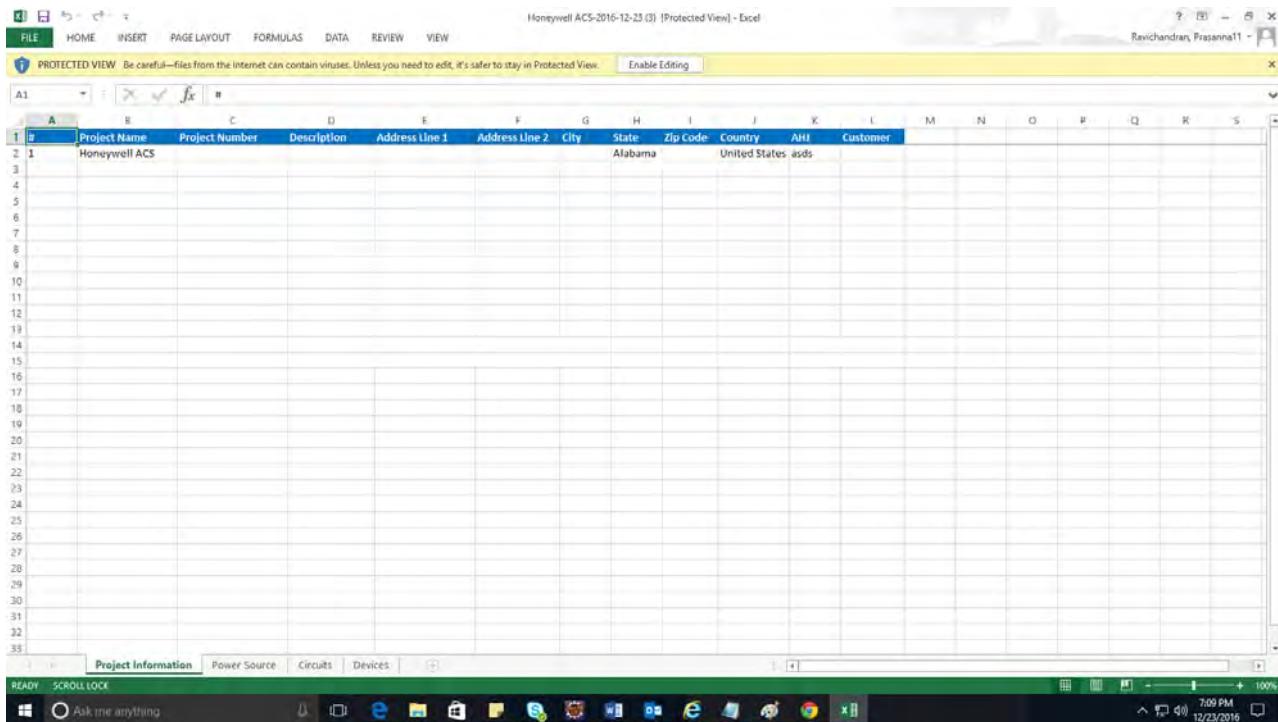
#	CIRCUIT NAME	AMPS	AWG	TOTAL DEVICES	CURRENT DRAW (amps)	VOLTAGE DROP (volts)
1	NAC Circuit 1	3	14	3	0.132	0.008
2	NAC Circuit 2	3	14	4	0.172	0.137
3	NAC Circuit 3	3	14	5	0.605	0.347

On clicking ‘Export Data’, the corresponding project details will be exported to an excel file and saved.

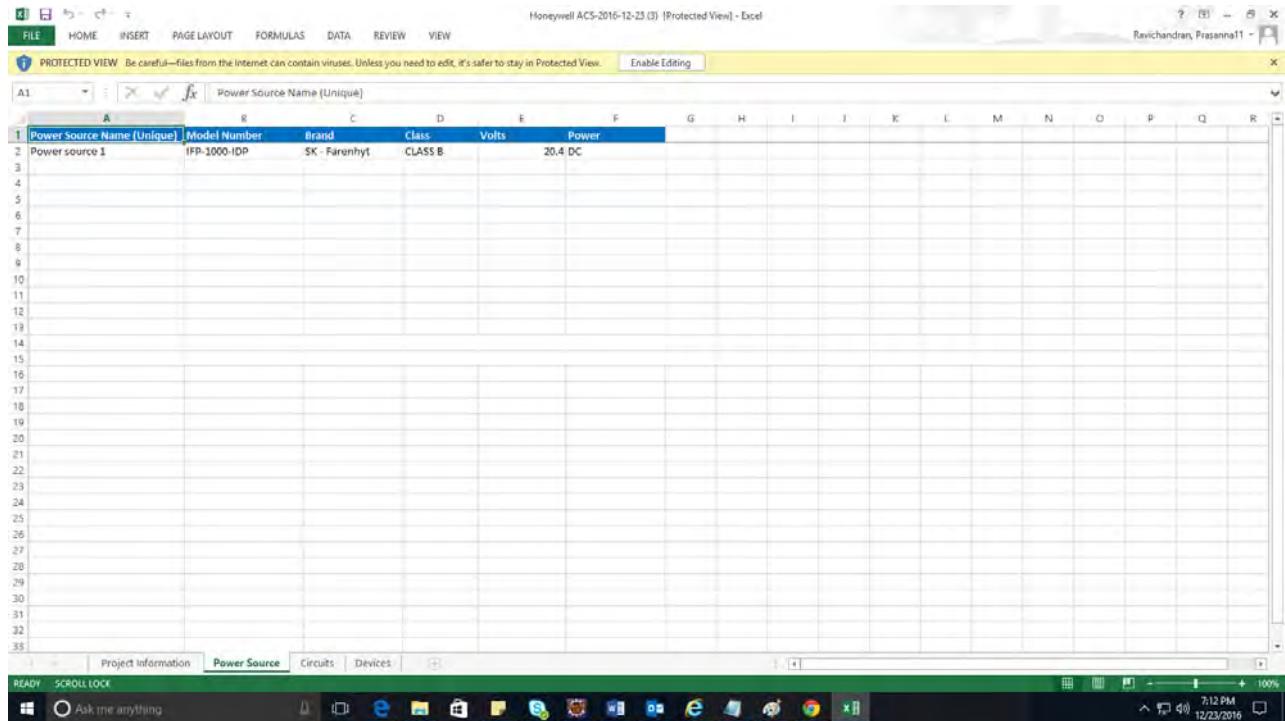
On opening that excel file, it will show a dialog, and click on 'Yes' button.



Then it will open a excel file with four tabs - 'Project Information', 'Power Source', 'Circuits' and 'Devices' containing details of the selected project

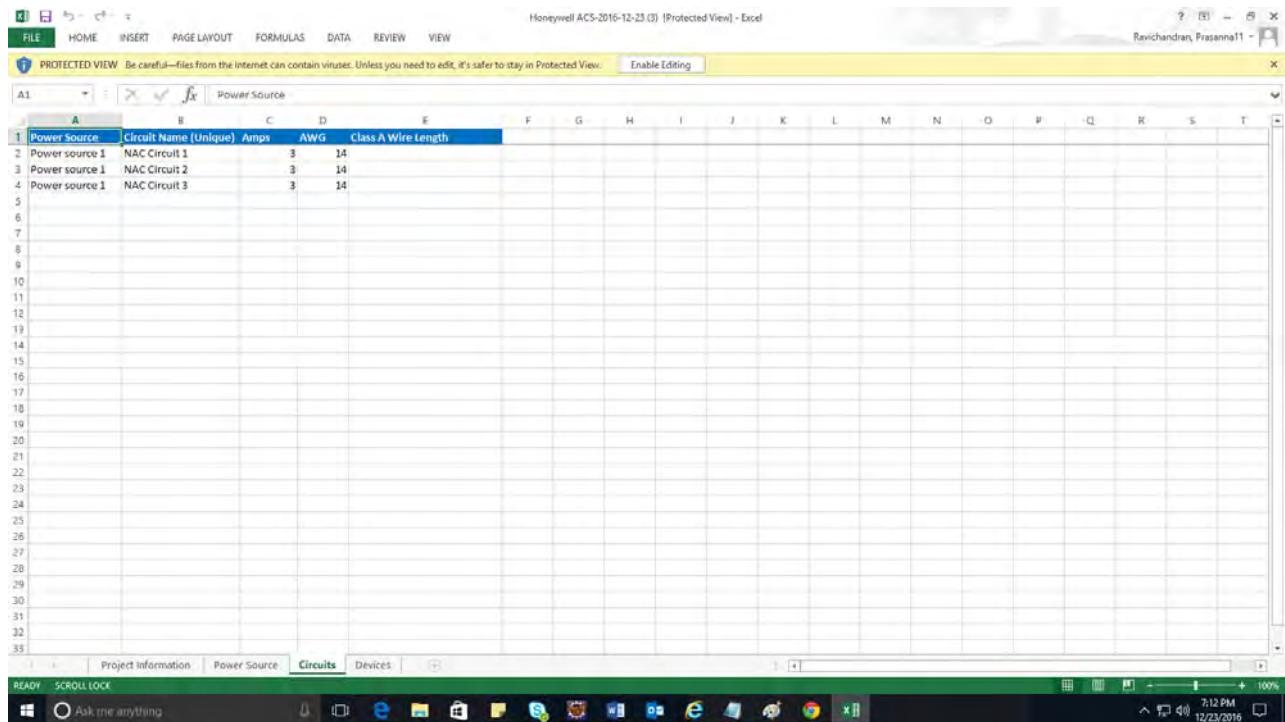


'Power Source' tab:



Power Source Name (Unique)	Model Number	Brand	Class	Volts	Power
Power source 1	IFP-1000-IDP	SK - Farenhyt	CLASS B	20.4	DC
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					

'Circuits' tab:



Power Source	Circuit Name (Unique)	Amps	AWG	Class A Wire Length
Power source 1	NAC Circuit 1	3	14	
Power source 1	NAC Circuit 2	3	14	
Power source 1	NAC Circuit 3	3	14	
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				

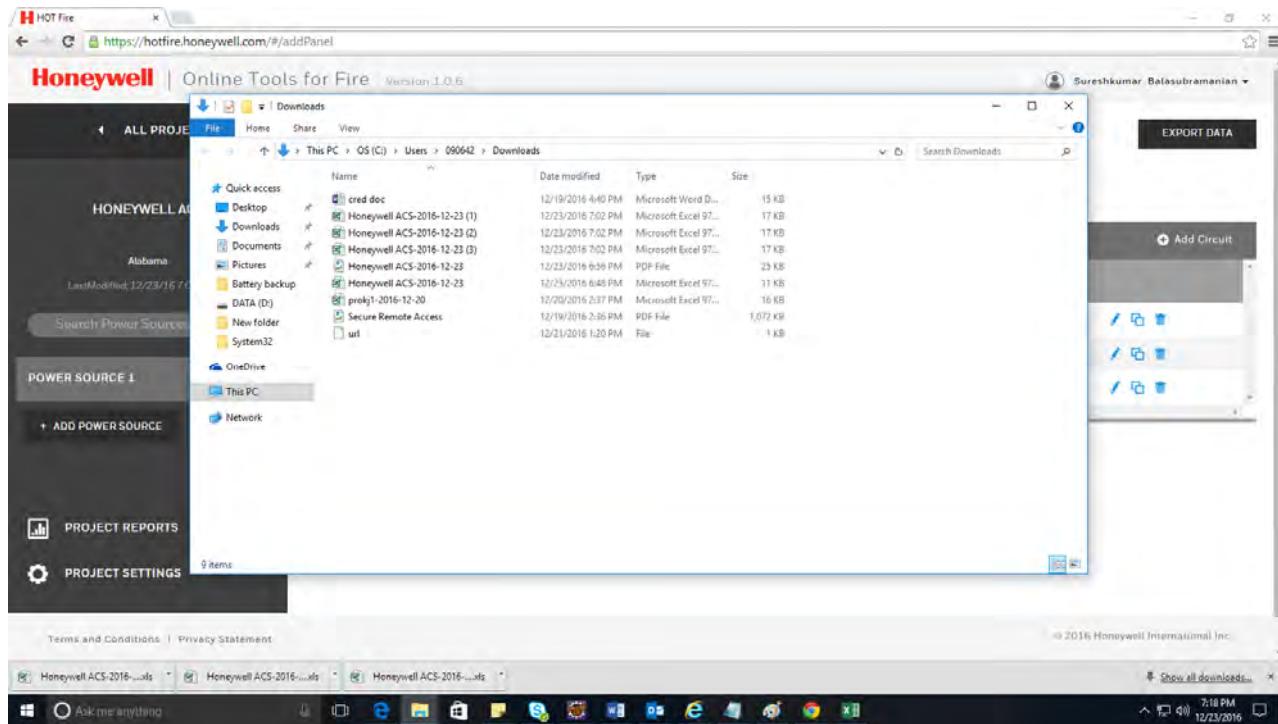
'Devices' tab:

Power Source	Circuit Name	Model ID	Candela	Tone	Volume	Pattern	Distance from previous device	Wire
2	Power source 1	NAC Circuit 1	P4RM (Horn)	3100Hz	Low	Temporal	5	4
3	Power source 1	NAC Circuit 1	P4RM (Horn)	3100Hz	Low	Temporal	5	4
4	Power source 1	NAC Circuit 1	P4RM (Horn)	3100Hz	Low	Temporal	5	4
5	Power source 1	NAC Circuit 2	SGRL	15			50	2
6	Power source 1	NAC Circuit 2	SGRL	15			50	2
7	Power source 1	NAC Circuit 2	SGRL	15			50	2
8	Power source 1	NAC Circuit 2	SGRL	15			50	2
9	Power source 1	NAC Circuit 3	SGRL	95			30	2
10	Power source 1	NAC Circuit 3	SGRL	95			30	2
11	Power source 1	NAC Circuit 3	SGRL	95			30	2
12	Power source 1	NAC Circuit 3	SGRL	95			30	2
13	Power source 1	NAC Circuit 3	SGRL	95			30	2

7.3 Importing a project

After opening and saving the exported project in Excel, you can edit the Excel document and re-import that project. Advance users can create project in Excel and import it to obtain the calculations and reports by following the Excel template.

Opening the exported excel file location: (Usually it is saved in Downloads)



Saving it atleast once and closing it.

The screenshot shows an Excel spreadsheet titled 'Honeywell ACS-2016-12-23 (1) - Excel'. The spreadsheet contains a table with 13 rows of data, each representing a power source. The columns are labeled: Power Source, Circuit Name, Model ID, Candela, Tone, Volume, Pattern, Distance from previous device, and Wire. The data shows multiple entries for 'Power source 1' using different NAC models (NAC Circuit 1, 2, 3) and various settings for Candela, Tone, Volume, and Pattern. The 'Distance from previous device' and 'Wire' columns are mostly blank or contain the value '5'.

Power Source	Circuit Name	Model ID	Candela	Tone	Volume	Pattern	Distance from previous device	Wire
Power source 1	NAC Circuit 1	P4RH (Horn)	3100Hz	Low	Temporal		5	4
Power source 1	NAC Circuit 1	P4RH (Horn)	3100Hz	Low	Temporal		5	4
Power source 1	NAC Circuit 1	P4RH (Horn)	3100Hz	Low	Temporal		5	4
Power source 1	NAC Circuit 2	SGRL	15				50	2
Power source 1	NAC Circuit 2	SGRL	15				50	2
Power source 1	NAC Circuit 2	SGRL	15				50	2
Power source 1	NAC Circuit 2	SGRL	15				50	2
Power source 1	NAC Circuit 3	SGRL	95				30	2
Power source 1	NAC Circuit 3	SGRL	95				30	2
Power source 1	NAC Circuit 3	SGRL	95				30	2
Power source 1	NAC Circuit 3	SGRL	95				30	2

Click on 'Create New Project'

MY ACTIVE PROJECTS MY ARCHIVED PROJECTS

CREATE NEW PROJECT

PROJECT NAME	CUSTOMER	PROJECT NUMBER	LOCATION	LAST UPDATED	DESCRIPTION
Honeywell ACS			Alabama	2016-12-23	
Project Honeywel			Alabama	2016-12-23	
Power source 2			Alabama	2016-12-21	
Power source 1			Alabama	2016-12-21	
sfsgsf			Alabama	2016-12-21	
undefined				2016-12-21	
undefined				2016-12-21	
new project			Alabama	2016-12-20	
visnu machine	34	visnu machine	visnu machine	2016-12-15	visnu machine
import			Alabama	2016-12-09	
test for export new			Alabama	2016-12-05	

Terms and Conditions | Privacy Statement

© 2016 Honeywell International Inc.

Honeywell ACS-2016.xls Honeywell ACS-2016.xls Honeywell ACS-2016.xls Show all downloads 7:25 PM 12/23/2016

Then click on the 'Import Project Data' link as shown below

CREATE NEW PROJECT

Project Name **Mandatory**

Enter a project name:

Project Number

Enter a project number:

Description

Enter a description for this project:

Location

United States

Address Line 1:

Address Line 2:

City: Alabama ZIP:

AHJ

Alt:

Logo:

Customer:

Import Project Data

Alabama 2016-12-05

© 2016 Honeywell International Inc.

Honeywell ACS-2016.xls Honeywell ACS-2016.xls Honeywell ACS-2016.xls Show all downloads 7:26 PM 12/23/2016

Then navigate to the corresponding "Downloads" folder, click on the saved project excel file and then click on 'Open' button in that dialog.

Note: If that project name already exists, then provide a different project name.

After clicking 'Next', the corresponding power source, circuits and the devices will be displayed in the 'Import Project' grid. Users can edit any details on this grid. Once ready, click on 'Validate' button and upon successful validation, click on the 'Save' button to complete importing the project.

IMPORT PROJECT

Power Source

#	POWER SOURCE	MODEL NUMBER	BRAND	CLASS	VOLTS	POWER
1	Power source 1	IFP-1000-IDP	SK - Farenhyt	CLASS B	20.4	DC

Circuits

#	POWER SOURCE	CIRCUIT	AMPS	CLASS A RETURN LENGTH (FT)	AWG
1	Power source 1	NAC Circuit 1	3		14
2	Power source 1	NAC Circuit 2	3		14
3	Power source 1	NAC Circuit 3	3		14

Devices

Validate **Save**

MY ACTIVE PROJECTS **MY ARCHIVED PROJECTS**

Search Active Projects **CREATE NEW PROJECT**

PROJECT NAME	CUSTOMER	PROJECT NUMBER	LOCATION	LAST UPDATED	DESCRIPTION
Honeywell ACS2			Alabama	2016-12-23	
Honeywell ACS			Alabama	2016-12-23	
Project Honeywel			Alabama	2016-12-23	
Power source 2			Alabama	2016-12-21	
Power source 1			Alabama	2016-12-21	
stgsgf			Alabama	2016-12-21	
undefined					

POWER SOURCE 1 SK - FARENHYT / VOLTAGE DROP CALCULATOR

#	CIRCUIT NAME	AMPS	AWD	TOTAL DEVICES	CURRENT DRAW (amps)	VOLTAGE DROP (volts)
1	NAC Circuit 1	3	14	3	0.132	0.008
2	NAC Circuit 2	3	14	4	0.172	0.137
3	NAC Circuit 3	3	14	5	0.605	0.347

7.4 User settings:

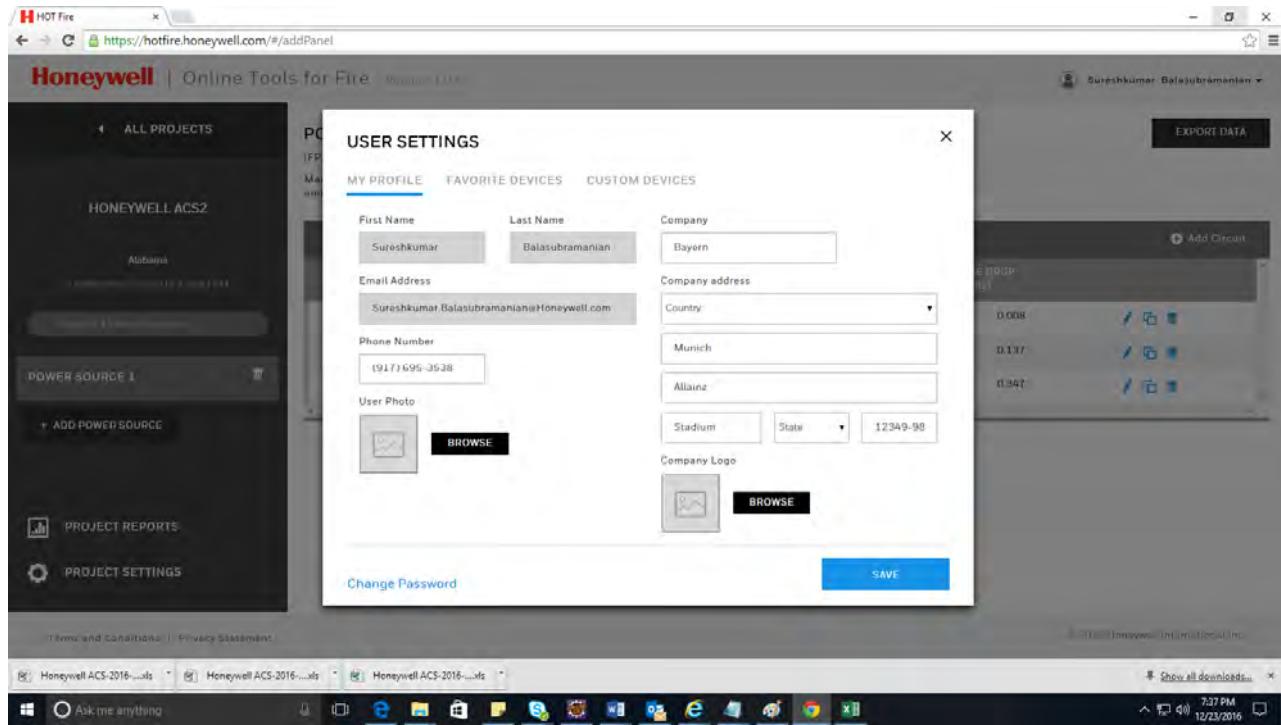
User Settings is available below the User Name at the top right corner.

User Settings

Sign-out

Clicking 'User Settings' will open the 'User settings' dialog, which will have three tabs - 'My Profile', 'Favorite Devices', 'Custom Devices'.

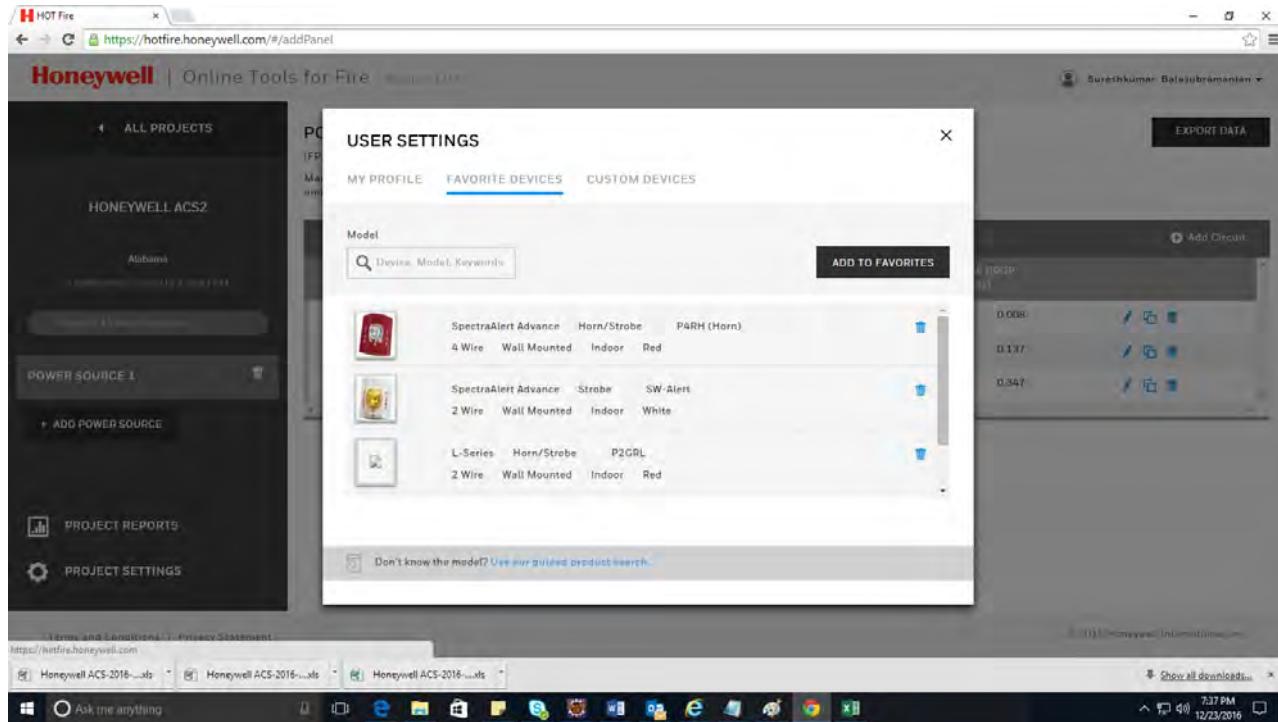
7.4.1 My Profile:



User is allowed to change any of their details and save the changes in this tab as shown above.

7.4.2 Favorite Devices:

On clicking the 'Favorite Devices' tab, you will see the list of favorite devices added by that user. Also, if you want to add any specific device as a favorite, you can search for it through the 'Model' search field and then click on the 'Add to Favorites' button.

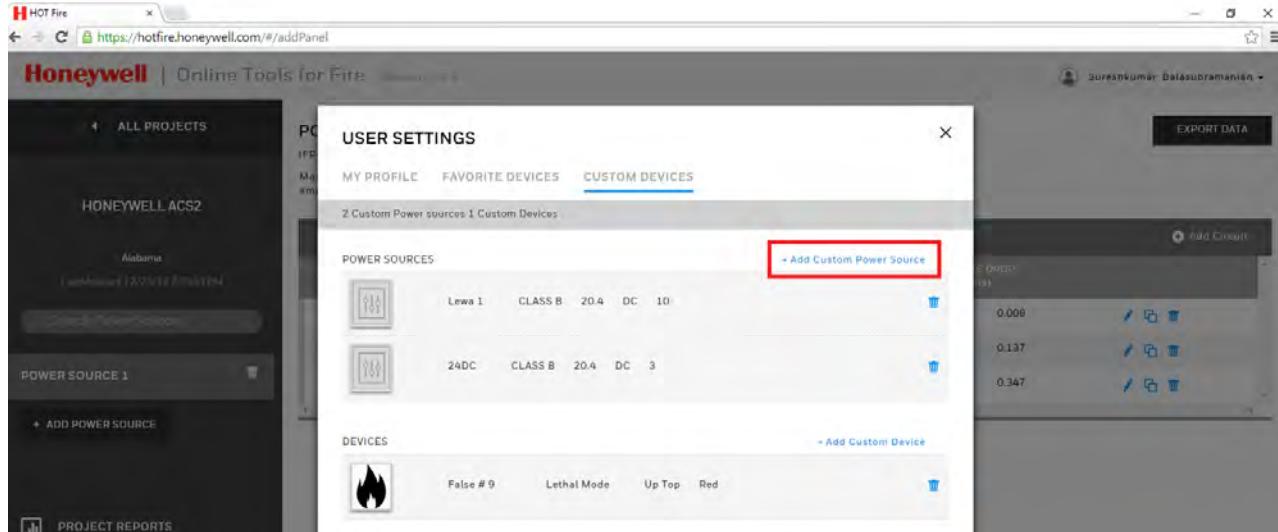


7.4.3 Custom Devices:

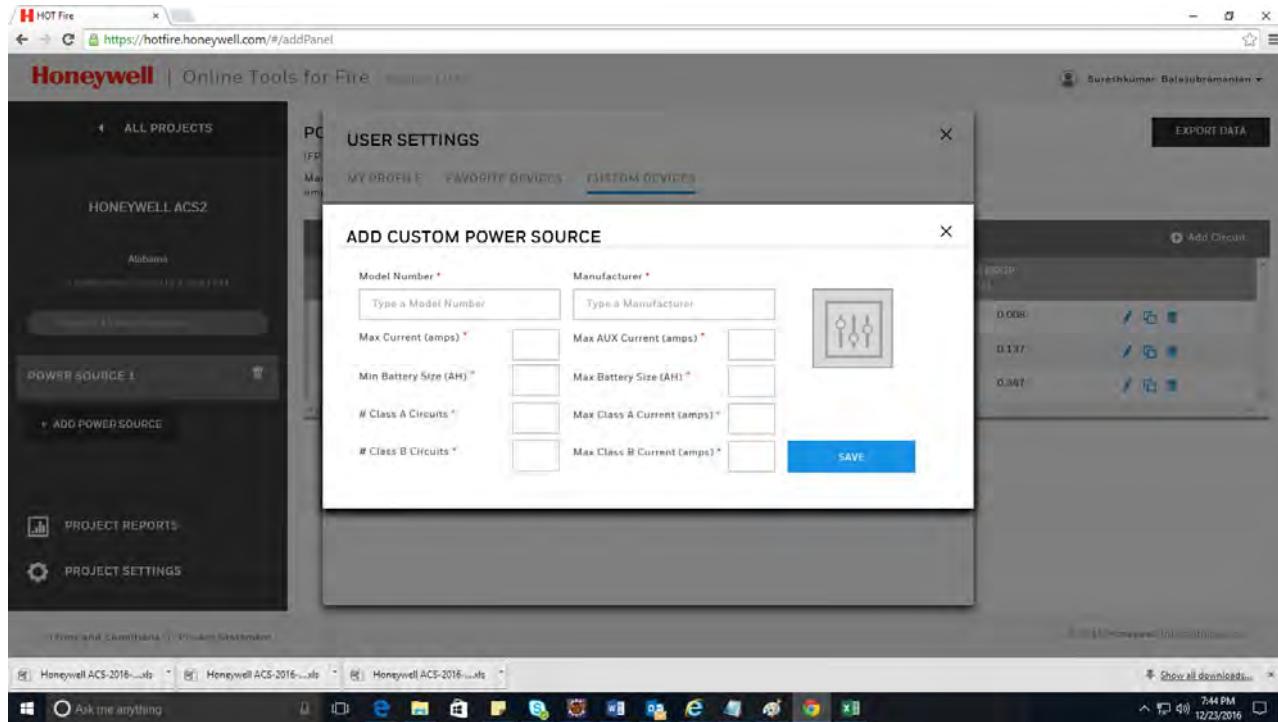
If you click on the 'Custom Devices' tab, you see the list of custom power sources and custom devices added by that user.

7.4.3.1 Adding Custom Power Source:

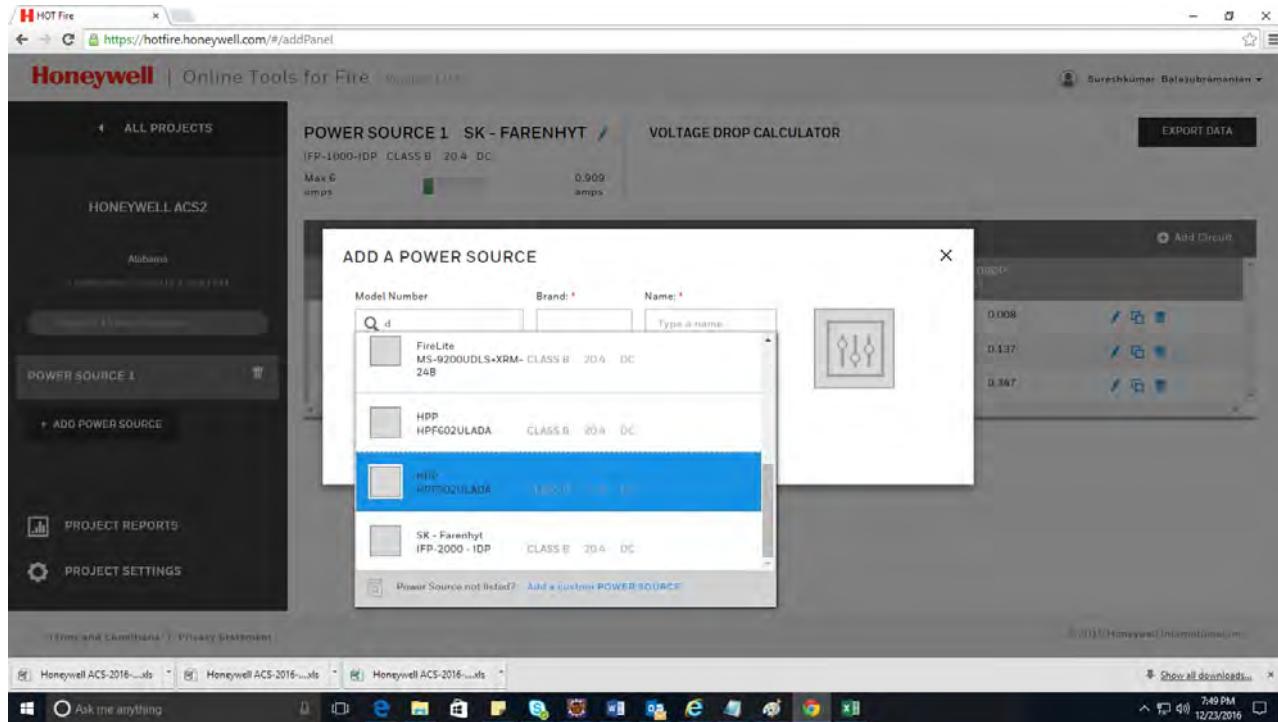
You can add a custom power source, by clicking on the 'Adding Custom Power Source' link in the 'Custom Devices' tab.



Clicking it will open the 'Add Custom Power Source' dialog

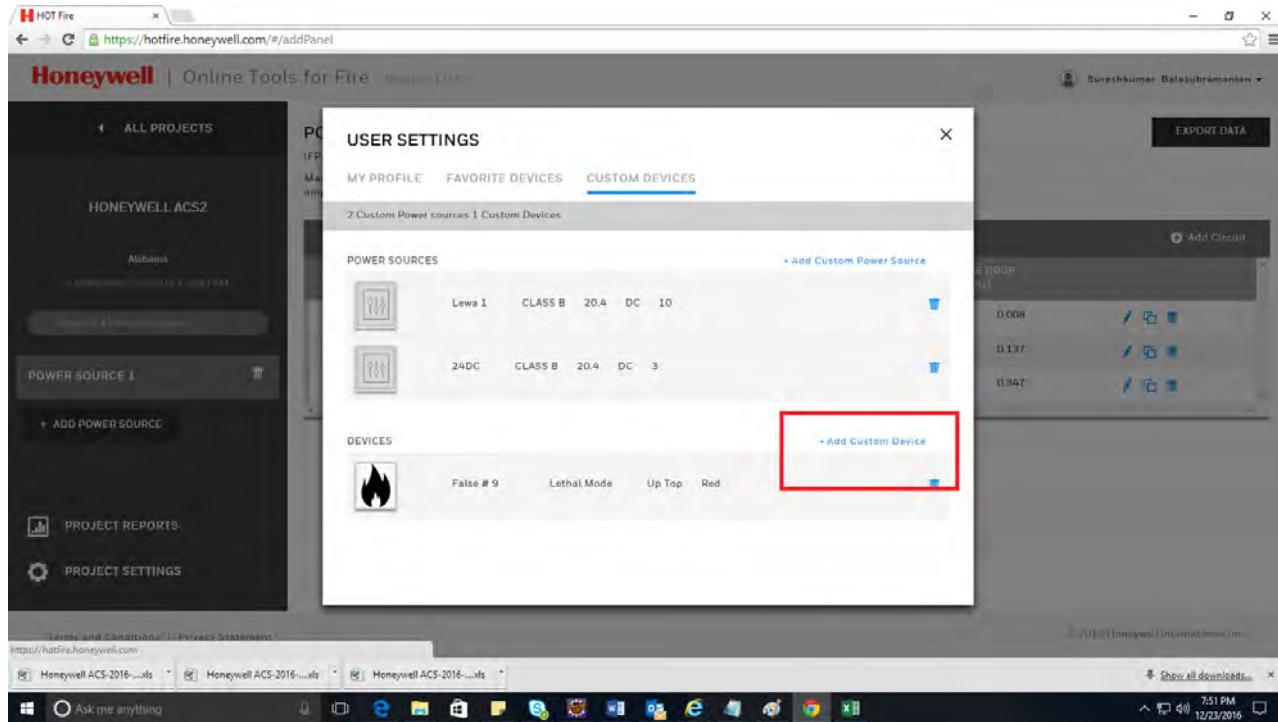


After entering the required details and saving it, the custom power source will be added to the custom power source list of that user. This added custom power source will also be displayed when clicking the 'Model Number' field in the 'Add a Power source' dialog, below the list of Favorite power sources as shown below

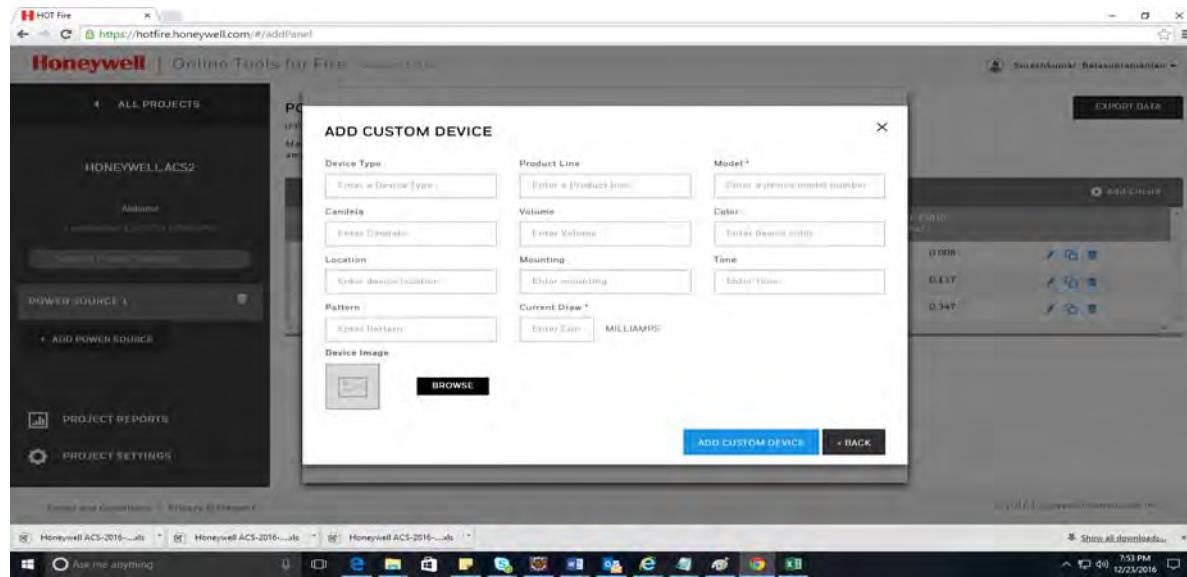


7.4.3.2 Adding Custom Device:

You can also add a custom device by clicking on the 'Add Custom Device' link in the 'Custom Devices' tab in the 'User Settings' dialog.



On clicking it, you will see the 'Add Custom Device' dialog as shown below.



Entering all required information and saving it will create a custom device. This newly created custom device will be displayed below the list of Favorite devices when clicking the 'Model' field in the 'Device' table.

The screenshot shows the Honeywell Online Tools for Fire interface. On the left, there's a sidebar with 'ALL PROJECTS', 'HONEYWELL ACS2', 'Alabama', 'LastModified: 12/23/16 7:29:43 PM', 'Search Power Sources', 'POWER SOURCE 1' (with '+ ADD POWER SOURCE'), 'PROJECT REPORTS', and 'PROJECT SETTINGS'. The main area shows a table of devices with columns: #, MODEL, CANDELA, PATTERN, VOLUME, TONE, CURRENT (amps), DISTANCE FROM PREVIOUS DEVICE (ft), and AWG sizes (12, 14, 16, 18). Three entries for 'P4RH (Horn)' are listed. Below the table is a 'FAVORITES AND CUSTOM DEVICES' section. A 'Custom Device' entry is highlighted in blue, showing 'Model: P2GRL', 'Candela: L-Series', 'Pattern: Horn/Strobe', 'Volume: 2 Wire', 'Tone: Wall Mounted', 'Number of Devices: 1', 'Distance Between Devices (ft): 5', and 'Mandatory: Mandatory'. At the bottom, there's a note 'Don't know the model? Use our guided product search.' and a copyright notice '© 2016 Honeywell International Inc.'

7.5 Progress Bar:

There is progress bar below the power source title. It shows the amount of the current drawn in that power source. It is calculated by the summation of the current drawn at all the circuits in that power source to the max current drawn for that power source. The Max current drawn for a power source will be taken from the library of the power source model selected. In case of Custom Power Source, the max current drawn will be entered by the user. The progress bar will be highlighted in red, if the current drawn at the power source exceeds the max current draw for that power source.

The screenshot shows the Honeywell Online Tools for Fire interface. The left sidebar includes 'ALL PROJECTS', 'PROJECT 1', 'Alabama', 'LastModified: 12/23/16 3:45:04 PM', 'Search Power Sources', 'TEST 1', 'HONEYWELL ACS', and 'HONEYWELL ACS'. The main area features a 'HONEYWELL ACS NOTIFIER' section with 'FCPS-24S6 CLASS B 20.4 DC' and a progress bar showing 'Max 6 amps' and '8.275 amps'. Below this is a 'VOLTAGE DROP CALCULATOR' section. A 'CIRCUITS' table lists four circuits: 'NAC Circuit 1', 'NAC Circuit 2', 'NAC Circuit 3', and 'NAC Circuit 4'. The table includes columns for '#', 'CIRCUIT NAME', 'AMPS', 'AWG', 'TOTAL DEVICES', 'CURRENT DRAW (amps)', and 'VOLTAGE D (volts)'. The 'NAC Circuit 2' row shows a red progress bar with the value '7.900' and a red 'VOLTAGE D (volts)' bar. The 'NAC Circuit 4' row shows a green progress bar with the value '0.375' and a green 'VOLTAGE D (volts)' bar.

The progress bar will be displayed in green, if the current drawn at the power source is lesser than the max current draw for that power source

7.6 Current Draw:

The current draw is calculated by the summation of the current in all the devices. For example, in the above screenshot, the current draw is equal to 0.088 Amps, because of the summation of the current from the first device (0.044 Amps) and the current from the second device (0.044 Amps), so on summation of these two devices, Current draw is 0.088 Amps.

The progress bar near the current draw symbolizes the calculated current drawn to amps of the corresponding circuit. The Amps of the circuit will be entered manually, in case, if the circuit added manually through the 'Add circuit' button. Otherwise, the Amps of the circuit is taken from the library based on the power source selected.

7.7 Voltage Drop:

The voltage drop (volts) is calculated by computing the difference between the actual voltage entered and the minimum device voltage for the selected AWG.

For example, in the below screenshot, the voltage entered is 20.4 Volts. Here the AWG selected is 14. For that AWG, the first device has a voltage of 16.993 V. The difference, or voltage drop, is $20.4V - 16.993V = 3.407V$.

TEST 1 NOTIFIER VOLTAGE DROP CALCULATOR

FCPS-2456 CLASS B 20.4 DC

User entered voltage

Max 6 amps 0.534 amps

Voltage drop progress bar

Calculated voltage drop

CIRCUITS

#	CIRCUIT NAME	AMPS	AWG	TOTAL DEVICES	CURRENT DRAW (amps)
1	Circuit 1	3	14	6	0.534
2		4	14		

DEVICES IN CIRCUIT Circuit 1

#	MODEL	CANDELA	PATTERN	VOLUME	TONE	CURRENT (amps)	DISTANCE FROM PREVIOUS DEVICE (FT)	12 AWG	14 AWG	16 AWG	18 AWG
1	P2R	115	Temporal	High	3100Hz	0.218	1500	18.253	16.993	4.975	11.771
2	P2R	15	Temporal	High	3100Hz	0.079	1000	16.983	14.977	1.764	8.664
3	P2R	15	Temporal	High	3100Hz	0.079	1000	16.030	13.465	9.356	2.834
4	P2R	15	Temporal	High	3100Hz	0.079	25	16.014	13.440	9.316	2.770

The progress bar near the voltage drop symbolizes the ratio of the calculated voltage drop of the circuit to the voltage limit of that circuit.

The voltage values of the user selected AWG column will be highlighted in bold.

TEST 1

NAC Circuit 1 **NAC Circuit 2** **NAC Circuit 3** **NAC Circuit 4**

DEVICES IN CIRCUIT NAC Circuit 4

#	MODEL	CANDELA	PATTERN	VOLUME	TONE	CURRENT (amps)	DISTANCE FROM PREVIOUS DEVICE (FT)	12 AWG	14 AWG	16 AWG	18 AWG
1	NB233_B					0.025	15	20.377	20.364	20.343	20.309
2	NB233_B					0.025	15	20.356	20.331	20.290	20.224
3	NB233_B					0.025	15	20.336	20.300	20.240	20.145
4	NB233_B					0.025	15	20.318	20.271	20.184	20.072
5	NB233_B					0.025	15	20.301	20.245	20.152	20.005

The voltage values in the selected AWG column will be highlighted in red color if it goes below 16 V for starting voltages >16V and it is red for voltages below 8V for 12V applications.

The screenshot shows the HOT Fire application interface. In the top right, a user profile for 'Prasanna Ravichandran' is visible. The main area displays a table for 'CIRCUIT NAME' with one entry: 'Circuit 1' with 'AMPS' 3, 'AWG' 14, 'TOTAL DEVICES' 5, 'CURRENT DRAW (amps)' 0.634, and 'VOLTAGE DROP (volts)' 6.072. A red box highlights the '6.072' value. Below this is a table for 'DEVICES IN CIRCUIT Circuit 1' with five rows of data. The last row is also highlighted with a red box. The table includes columns for Model (P2R), Candela (115), Pattern (Temporal), Volume (High), Tone (3100Hz), Current (amps) (0.218), Distance from Previous Device (ft) (1500), and four columns for AWG sizes (12 AWG, 14 AWG, 16 AWG, 18 AWG) with corresponding voltage drop values.

#	CIRCUIT NAME	AMPS	AWG	TOTAL DEVICES	CURRENT DRAW (amps)	VOLTAGE DROP (volts)	Calculated voltage drop
1	Circuit 1	3	14	5	0.634	6.072	
2		3	14				
3		3	14				
4		3	14				
5		3	14				

#	MODEL	CANDELA	PATTERN	VOLUME	TONE	CURRENT (amps)	DISTANCE FROM PREVIOUS DEVICE (ft)	12 AWG	14 AWG	16 AWG	18 AWG
1	P2R	115	Temporal	High	3100Hz	0.218	1500	18.253	16.993	14.975	11.771
2	P2R	15	Temporal	High	3100Hz	0.079	1000	16.983	14.977	11.764	8.684
3	P2R	15	Temporal	High	3100Hz	0.079	1000	16.030	13.465	9.356	2.834
4	P2R	15	Temporal	High	3100Hz	0.079	25	16.014	12.440	9.316	2.770
5	P2R	15	Temporal	High	3100Hz	0.079	25	16.000	13.427	9.296	2.738

7.8 Logging Out

Users can log out from the HOT Fire application by clicking on the 'Sign-out' button below the 'User Name' dropdown at the top right corner as shown below. Then the corresponding user will be logged out from the session.

The screenshot shows the HOT Fire application interface for a user named 'Sureshkumar Balasubramanian'. In the top right, the user name is displayed with a dropdown arrow, and a red box highlights the 'Sign-out' button next to it. The main area displays a table for 'CIRCUIT NAME' with three entries: 'NAC Circuit 1', 'NAC Circuit 2', and 'NAC Circuit 3'. Below this is a table for 'DEVICES IN CIRCUIT NAC Circuit 1' with three rows of data. The last row is highlighted with a red box. The table includes columns for Model (P4RH (Horn)), Candela (Temporal), Pattern (Low), Volume (3100Hz), Tone (0.044), Current (amps) (0.044), Distance from Previous Device (ft) (5), and four columns for AWG sizes (12 AWG, 14 AWG, 16 AWG, 18 AWG) with corresponding voltage drop values.

#	CIRCUIT NAME	AMPS	AWG	TOTAL DEVICES	CURRENT (amps)	VOLTAGE DROP (volts)	Sign-out
1	NAC Circuit 1	3	14	3	0.132	0.000	
2	NAC Circuit 2	3	14	4	0.172	0.137	
3	NAC Circuit 3	3	14	5	0.605	0.347	

#	MODEL	CANDELA	PATTERN	VOLUME	TONE	CURRENT (amps)	DISTANCE FROM PREVIOUS DEVICE (ft)	12 AWG	14 AWG	16 AWG	18 AWG
1	P4RH (Horn)	Temporal	Low	3100Hz	0.044	0.044	5	20.397	20.396	20.393	20.389
2	P4RH (Horn)	Temporal	Low	3100Hz	0.044	0.044	5	20.395	20.393	20.389	20.382
3	P4RH (Horn)	Temporal	Low	3100Hz	0.044	0.044	5	20.394	20.392	20.387	20.378