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It is necessary to understand the capacity and electrical load of the power net if you are going to make significant electrical changes in your house or provide a service for a new residential unit. Although some electrical terms may seem difficult, we assure you that it is possible to calculate how much power is enough for the successful running of all electrical devices in your house. The United States of America has adopted a standard for the installation of electrical systems (known as the National Electrical Code or NEC). Its primary purpose is to ensure the safety of all homeowners and their property and protect them from electrical overloads. On the Internet, there are special templates that take into account all the NEC requirements and updates. In this article, we will dwell on the load calculation requirements for single-family dwelling units, provide general recommendations on how to determine the electrical load in your residence, and figure out if you need to change the electrical service. How to Fill out the Worksheet If you are not an electrician, you might find it complicated to complete the electrical load calculation sheet on your own. We advise you to go through the template without haste as even one little mistake can lead to serious miscalculations. Make sure that you have obtained a correct template that satisfies all the NEC updated requirements. We encourage you to utilize our advanced and automated form-building software to find the relevant template or generate it yourself. Our PDF editor makes the process of filling out an online form much easier. Below, we present detailed recommendations and instructions on how to complete the form step-by-step. Following the steps ensures successful and accurate calculations. Enter the Name of the Owner In the first blank line at the top of the document, you are to insert the full legal name of the person to whom the dwelling unit belongs. Provide Basic Information about the Dwelling Unit In the following two blank lines, you are to give the basic description of your dwelling unit (a house, an apartment, and so on). The description includes the full address indicating the location of the unit and the total floor area measured in square feet (multiply the width of each room by its length and sum up areas of all the rooms in the unit). Calculate General Lighting Load Now, you can proceed to calculations. Begin with the General Lighting section (the term refers to the background, overall illumination in a house). To calculate the load correctly, take the following steps: Write the total floor area (in square feet) and multiply by three volt-amperes (the apparent power for current systems). Enter the resulting product in the VA column. Write the number of small appliances circuits (according to the Code, you should include at least two branch circuits) and multiply it by 1,500 VA. Write the product in the second column. Make similar calculations for laundry circuits. Keep in mind that NEC requires that you enter a minimum of one branch circuit). Sum up all the products in the first three lines and write the total sum in the second column. Subtract 3,000 from the total load and multiply the difference by 0.35. Enter the numbers in line 6. Write the net general lighting load in line 7 (sum up the results from lines 6 and 5 and insert the total amount). Specify What Fixed Appliances You Have In this section, you are provided with a list of fixed appliances and 'Yes' and 'No' boxes. If you have any electrical appliances in your residential unit, check the 'Yes' box and write the load for this device. If the number of your appliances exceeds the one provided in the list, write the names of all devices you have in the 'Other' section and indicate their load (in VA). If the space in the sheet is not enough, use the back of the template). Sum up the designated loads of all the appliances in the premises and write down the total electrical power consumed in the VA column. If you have fewer than four units, you do not need to make further calculations; just put the total load in line 8. If the number of units is four or more, you are to multiply the total VA by 0.75 and enter the product in line 8. Indicate the Load of Other Equipment Like in the preceding section, you are to select either the 'Yes' or 'No' box. If you check the 'Yes' box, include the VA rating (or installed capacity). If you have the equipment, the name of which is not presented in the list, write it in the 'Other' line. Determine equipment with the largest motor load and calculate the 25 percent of it. Write the result in line 16. Calculate the Total Service Load and Service Rating Sum up the results from lines 7, 8, 9-16, and you will get the total service load in volt-amperes. Divide the result by 240 and write the total service load in the next line (in amperes). Enter the electrical service rating and compare it with the service load. Service rating should be equal to or greater than the load. 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