



County of Prince George, Virginia

“A global community where families thrive and businesses prosper”

Commercial Plan Review: RDP policy for Electrical Design

In accordance with section 111.1 of the Uniform Statewide Building Code (VUSBC) and Section 54.1-410 of the Code of Virginia, construction documents for electrical systems are required to be prepared and sealed by a registered design professional (architect or engineer) where indicated in chart “B” printed on the back of this document (excerpted from the Building and Fire Code Related Laws Package).

Additionally, VUSBC section 111.1 and Section 54.1-410 of the Code of Virginia (note “a” to chart B on the back of this document) grant authority to the building official to require construction documents be prepared by a registered design professional (RDP) when deemed necessary. In accordance with that authority granted to the building official, the Prince George County Building Inspection Department requires Electrical system construction documents, for all group A occupancies with occupant loads greater than 100, be prepared and sealed by a registered design professional.

Construction documents for electrical systems that are not required to be prepared by a registered design professional must be prepared by a licensed master electrical, or a licensed class A electrical contractor. The name, phone number, address and occupation of the person that prepared the construction documents must be printed on the construction documents.

111.1 When required. In accordance with Section 54.1-410 of the Code of Virginia and under the general authority of this code, the local building department shall establish a procedure to ensure that construction documents under Section 109 are prepared by an RDP in any case in which the exemptions contained in Sections 54.1-401, 54.1-402 or Section 54.1-402.1 of the Code of Virginia are not applicable or in any case where the building official determines it necessary. When required under Section 54.1-402 of the Code of Virginia or when required by the building official, or both, construction documents shall bear the name and address of the author and his occupation.

CHART B – ELECTRICAL DESIGN (cont.)

A proposed electrical system which is classified within any of the categories marked 'Yes' requires an a/e seal on the plans. Those NOT marked 'Yes' may not require an a/e seal only if designed by a licensed master electrician or Class A electrical contractor (see Notes b and c).

Separate requirements apply as to whether the mechanical systems or the general design of such structures require an a/e seal (see Charts A and C).

USE GROUP	BRIEF DESCRIPTION	HEIGHT (STORIES)		OCCUPANT LOAD		VOLTS		AMPS	
		3 OR LESS	OVER 3	100 OR LESS	OVER 100	600 OR LESS	OVER 600	800 OR LESS	OVER 800
A-1	THEATERS	--	YES	--	YES	--	YES	--	YES
A-2	DANCE HALLS	--	YES	--	--	--	YES	--	YES
A-3	RESTAURANTS, ETC.	--	YES	--	--	--	YES	--	YES
A-4	CHURCHES (ONLY)	--	YES	--	--	--	YES	--	YES
A-5	GRANDSTANDS, ETC.	--	YES	--	--	--	YES	--	YES
B	BUSINESS	--	YES	--	--	--	YES	--	YES
E	SCHOOLS & DAY CARE CENTERS	YES	YES	YES	YES	YES	YES	YES	YES
F	FACTORY & INDUSTRIAL	--	YES	--	--	--	YES	--	YES
H	HIGH HAZARD	YES	YES	YES	YES	YES	YES	YES	YES
I	INSTITUTIONAL (GENERAL)	YES	YES	YES	YES	YES	YES	YES	YES
I	DAY NURSERIES & CLINICS W/O LIFE SUPPORT	--	YES	--	--	--	YES	--	YES
M	MERCANTILE	--	YES	--	--	--	YES	--	YES
R	RESIDENTIAL	--	YES	--	--	--	YES	--	YES
S	STORAGE (FARM)	--	--	--	--	--	--	--	--
S	STORAGE (NON-FARM)	--	YES	--	--	--	YES	--	YES
U	UTILITY & MISCELLANEOUS	--	YES	--	--	--	YES	--	YES

Note a. A local building official may require an a/e seal for electrical work even if not required to do so by this chart. **Note b.** The law requires that, where an a/e seal is not present, the plans must be signed by the individual (not company) responsible for the design, including the individual's occupation and address.

Note c. The above chart applies both to new construction and to additions or modeling.

Note d. The exemption for electrical contractors and electricians is applicable only when both design and installation are under their direction or control.