



CITY OF NORTH MIAMI BEACH BUILDING DEPARTMENT

Commercial Plan Review Guidelines

(Electrical Review)

Project Address: _____

Instructions for using this form:

1. This form provides a list of code requirements that must be verified by the Building Department before the issuance of a building permit.
2. Code references are to the 2007 Florida Building Code (unless otherwise noted). Suffixes identify the code volume as follows:
Building (BI) - Existing (Ex) - Fuel/Gas (Gs) - Mechanical (Me) - NFPA-70 (05)/National Electric Code (NEC) - Plumbing (PI) Residential (Re)
3. Provide the drawing number (Dwg. No.) where compliance with the referenced code section may be verified or check the N.A. box whenever the code provision is not applicable.

Electrical Review

General Requirement	Specific Code Requirement	Code Section(s)	Dwg. No.	N.A.	Other Information
Electrical equipment, appliances, materials and installations	Construction documents submitted	106.1, 106.3 (BI)			
	Equipment approval, listing and installation instructions	110.2-3 (NEC), 2701.1 (BI)			
Wiring methods and materials	Required	300 (NEC)			
	Shown	106.3 (BI)			
Service	Number of services	230.2 (NEC)			
	Conductor size/rating				
	• Overhead	230.23 (NEC)			
	• Underground	230.31 (NEC)			
	Insulation of service conductors	230.22, 230.30, 230.41 (NEC)			
	Available fault current	110.9, 110.0 (NEC)			
	Working space	110.26, 110.32, 110.34 (NEC)			
	Disconnecting means	230.70(A)(B)(C) (NEC)			
	Number of disconnects	230.71 (NEC)			
	Grouping of disconnects	230.72 (NEC)			
	Ground fault protection	230.95 (NEC)			
Over current protection	Protection of conductors rated				
	• 800 amperes or less	240.4(B) (NEC)			
	• Over 800 amperes	240.4 (C) (NEC)			
Grounding	Where required	230.90 (NEC)			
	Location	230.91 (NEC)			
Separately derived AC systems	Grounded conductor to service equipment	250.24(B) (NEC)			
	Electrode system	250 III (NEC)			
	Conductors	250.66 (NEC)			
	Grounding	250.20 (D), 250.30 (NEC)			
	Transformer overcurrent protection 600 volt nominal or less	450.3 (NEC)			
Means of Egress	Primary/secondary	450.3(A)(B)(C)((NEC)			
	Ventilation	450.9, 450.45 (NEC)			
	Exit signs and lights	1006.1, 1006.3 (BI)			

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	Lighting	1006.1, 1006.2, 1006.3 (BI)			
Emergency systems	Where required	2702 (BI)			
	Power source	700 III (NEC)			
	Independent wiring	700.9 (B) (NEC)			
	Storage battery	700.12(A), 480 (NEC)			
	Generator set	700.12(B) (NEC), 2702.1 (BI)			
	Separate service	700.12(D) (NEC)			
	Unit equipment	700.12(E) (NEC)			
	Signs	700.8, 701.9 (NEC)			
	Loads on emergency branch circuits	700.15 (NEC)			
	Standby Systems	Where required	701 (NEC), 2702 (BI)		
Capacity and rating		701-6 (NEC)			
Power source		701 III (NEC)			
Storage battery		480, 701.11 (NEC)			
Generator set		701.11(B) (NEC), 2702 (BI)			
Separate service		701.11(D) (NEC)			
Connect ahead of service disconnect		701.11(E) (NEC)			
Miscellaneous requirements	Unit equipment	701.11(F) (NEC)			
	Wiring in ducts, plenums and other air handling spaces	300.22 (NEC) 602.2.1 (Me)			
	Roof top receptacle	210.63, 210.8 (NEC)			
	Fixture supports	410 IV (NEC)			
	Identification	110.22 (NEC), 106.1 (BI)			
	Conduit seals	300.7 (NEC)			
	Penetrations	300.21 (NEC), 106.1, 712 (BI)			
	Appliance access	110.26, 422 (NEC)			
	Boiler control requirements	1005, 1006 (Me), 422, 424 III (NEC)			
	Disconnect Means	Motors	430 IX (NEC)		
Appliances		422 III (NEC)			
Elevators		620 VI (NEC)			
Wet Locations	Electric metallic tubing	358C (NEC)			
	Conductors	310.8, Table 310.13 (NEC)			
	Lighting fixtures	410.4(A) (NEC)			

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Fire Protection Systems					
• Smoke detection	Smoke alarms	101.4.6, 907, 909 (BI), 760 (NEC)			
	Smoke control system Single/multiple station smoke alarm	909, 2702, 907.2.10 (BI)			
• Fire alarm and detection system					
	Assembly	907.2.1 (BI)			
	Business	907.2.2 (BI)			
	Educational	907.2.3 (BI)			
	Factory	907.2.4 (BI)			
	High-hazard	907.2.5 (BI)			
	Institutional	907.2.6 (BI)			
	Mercantile	907.2.7 (BI)			
	Residential	907.2.8, 907.2.9 (BI)			
	High-rise buildings	907.2.13 (BI)			
	Atriums	907.2.13 (BI)			
	Other buildings/areas	907.2.14-907.2.23 (BI)			