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Fire, Building & Life Safety Section

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CODE INTERPRETATION

Subject:	Signing Electrical Drawings	**Code Interpretation**	08-NEC-002
Code:	IBC 106.1	**Effective Date:**	10/9/08
Edition:	2006	**Revised Date:**	

A. Code Requirement

The International Building Code Section 106.1 requires submittal documents to be prepared by a Registered Design Professional where required by statute or where special conditions as determined by the building official.

The Arizona State Board of Technical Registration Rules Section R4-30-304 requires a registrant to design a new electrical system or addition or modification of an existing system when the service and associated electrical feeders exceed 600 amps 120/240 volts single phase or 225 amps 120/208 volts three phase and fault currents exceed 10,000 AIC as well as for hospitals and hazardous locations.

B. Interpretation

Any electrical system in a commercial project with a 120/240 volt service of greater than 600 amps, 120/208 volt service greater than 225 amps, 277/480 volt service of any size, or other installations per R4-30-302(B) must be designed by a registrant.

Any electrical system in a residential project with a 120/240 volt service over 400 amps, 120/208 volt service of any size, or 277/480 volt service of any size must be designed by a registrant.

C. Rationale

The requirements for commercial projects are based upon BTR Rule R30-30-302.

The requirements for residential projects are based upon installations of these types being considered to be special conditions per IBC 106.1 and IRC R106.1.

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