

# **SPECIAL INSPECTIONS CATAWBA COUNTY**

**(SICC-2009)**

**2009 Edition**

**Effective: July 1<sup>st</sup> 2009**

**Based on North Carolina State Building Code (2009) Edition,  
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**Administered by**

**CATAWBA COUNTY, NORTH CAROLINA**

**BUILDING SERVICES DIVISION**

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## APPENDIX B

### Qualifications of Inspectors

The designated Special Inspections Engineer of Record (SIER) shall be a North Carolina Professional Engineer or a North Carolina Registered Architect for the following inspections. Individuals other than the registered engineer or architect performing daily inspections shall meet the following minimum criteria of certification and /or documented experience. Work experience must be related to the field of which the individual is being utilized. The designated (SIER) shall be responsible for collecting and submitting the documentation of qualifications for these individuals to the CCBSD prior to commencement of special inspections.

#### Section 1704.2 Inspection of Fabricators

- Precast: Current ICC Reinforced Concrete Special Inspector or ACI Concrete Construction Special Inspector or NICET Concrete Level III with two years experience or EI with one year related experience
- Bar Joists: Current AWS Certified Welding Inspector or Current ICC Structural Welding Special Inspector
- Metal Buildings: Current AWS Certified Welding Inspector or ICC Structural Welding Special Inspector
- Structural Steel: Current AWS Certified Welding Inspector or ICC Structural Welding Special Inspector
- Wood Construction: EI with one year of related experience

#### Section 1704.2.2 Registered and Approved Fabricators ( Special Inspections exempt)

##### *Metal Buildings Fabrication*

Current American Institute of Steel Construction- Metal Building Systems Certification  
International Code Council Evaluation Service

##### *Precast Concrete Fabrication*

Current National Precast Concrete Association Plant Certification

##### *Prefabricated Trusses*

Current Truss Plate Institute Certification

##### *Steel Bar Joist Fabrication*

Current Steel Joist Institute Certification

##### *Structural Steel Fabrication*

Current American Institute of Steel Construction – Conventional Steel Building Structures

Current American Institute of Steel Construction – Complex Steel Building Structures

Current American Institute of Steel Construction – Simple Steel Bridges (Non DOT Projects)

Current American Institute of Steel Construction – Major Steel Bridges (Non DOT Projects)

#### NCBC Section 1704.3 Steel Construction

*Welding & Steel Frame* Table 1704.3 Section 3, 4, 5, 6; Table 1704.4 Item 2; 1707.2

- Current AWS Certified Welding Inspector or
- Current ICC Structural Welding Special Inspector
- EI with one year of related experience

*High Strength Bolting & Steel Frame* Table 1704.3 Items 1, 2, 3, 6

- Current ICC Structural Steel and Bolting Special Inspector Certificate, or
- EI with one year of related experience

#### Section 1704.4 Concrete Construction

*Reinforced Concrete:* NCBC 1704.4, 1805, Table 1704.4 Items 1, 2, 3, 4, 5, 6, 7

- Current ICC Reinforced Concrete Special Inspector and ACI Concrete Field Testing Technician, Grade 1 or
- ACI Certification, Concrete Construction Special Inspector or
- NICET Concrete Level III with two years experience or
- EI with one year related experience

*Pre-stressed Concrete* NCBC Table 1704.4 Items 8 and 10

- Pretension Tendons: Requirements for Reinforced Concrete plus current ICC Pre-stressed Concrete Special Inspector Certificate, or EI with one year of related experience.
- Post-tension Tendons: Current Post-Tensioning Institute Certification or EI with one year related experience.

*Pre-Cast Concrete* NCBC Table 1704.4 Item 9

- Connections: Current AWS Certified Welding Inspector or Current ICC Structural Welding Special Inspector
- Size and location of Members: EI with one year of related experience, or ICC Reinforced Concrete Inspector

*Post Tension Slabs-on-Grade* and NCBC 1805.8.2

- Current Post-Tensioning Institute Certification or EI with one year related experience.

Section 1704.5 Masonry Construction

*Structural Masonry* NCBC 1704.5, Table 1704.5.1 all items except 2.d, Table 1704.5.3 all items except 2.d

- Current ACI Certification, Concrete Construction Special Inspector or
- Current ICC Structural Masonry certificate or
- EI with one year related experience

*Structural Masonry* NCBC 1704.5, Table 1704.5.1 Item 2.d, Table 1704.5.3 Item 2.d

- Current AWS Certified Welding Inspector certification
- Current ICC Structural Welding Special Inspector

Section 1704.6 Wood Construction

- Current ICC Commercial Building Inspector or Plans Examiner
- EI with one year related experience

Section 1704.7 Soils

- Current NICET certification in geotechnical engineering technology (Construction Materials- Soils), Level II, or
- EI or GIT with one year related experience

Section 1704.8 Pile Foundations and Section 1704.9 Pier Foundations

- Current NICET certification in geotechnical engineering technology, Level II, or
- EI or GIT with one year related experience

Section 1704.10 Sprayed Fire Resistant Materials & Section 1704.11 Mastic & Intumescent Fire Resistant Coatings

- Current ICC Spray-Applied Fire Proofing certificate, or
- Current ICC Commercial Building Inspector or Plans Examiner
- EI with one year related experience

Section 1704.12 Exterior Insulation and Finish System

- EI with one year related experience, or
- Association of the Wall and Ceiling Industry (AWCI) EIFS Inspector, or
- Exterior Design Institute (EDI) Certification as EIFS Third Party Inspector

Section 1704.13 Special Cases

- As identified by the SER, on a case by case, in the Statement of Special Inspections.

Section 1704.04 Special Inspection for Smoke Control

Shall be a NC Registered Mechanical Engineer or Fire Protection Engineer with a certification as air balancers.

- Certification as required in Section 1704.14.2

Section 1707, 1708, 1709 Special Inspections for Seismic Resistance

- Professional Engineer registered in the State of North Carolina as recognized above for specific type of component (steel, concrete, masonry, etc.)