SPECIAL INSPECTIONS CATAWBA COUNTY

(SICC-2009)

2009 Edition

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Administered by

CATAWBA COUNTY, NORTH CAROLINA

BUILDING SERVICES DIVISION

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CHAPTER 2
DEFINITIONS AND ABBREVIATIONS

SICC-201 DEFINITIONS

The following words and terms shall, for the purposes of this SICC-2009, have the meanings shown in this chapter. Terms not defined in this SICC-2009 shall have the meanings ascribed to them in the NCBC and IBC.

Completion letter.
1. A certification by the **SIER** which shall indicate that the construction elements subject to special inspections as identified in the County approved statement of special inspections for a specific material or phase of construction have been inspected prior to concealment, and in the **SIER**'s professional opinion and to the best of the **SIER**'s knowledge, complies with County approved documents and project specifications. A completion letter shall carry the original signature and seal of the **SIER** making the statement.

Designated Seismic System.
Those architectural, electrical & mechanical systems and their components that require design in accordance with Chapter 13 of ASCE 7 and for which the component importance factor, I_p, is greater than 1 in accordance with Section 13.1.3 of ASCE 7.

Fabrication and erection documents. All of the written, graphic and pictorial documents prepared or assembled after issuance of a building permit and in addition to the County approved construction documents, describing the design, location and physical characteristics of the building components or materials necessary for fabrication, assembly or erection of the elements of the project.

Final report of special inspections. A certification by the **SIER** which shall indicate that all construction elements subject to special inspections as identified in the County approved statement of special inspections for all materials or phases of construction have been inspected prior to concealment, and in the **SIER**'s professional opinion and to the best of the **SIER**'s knowledge, a construction project complies with County approved documents and project specifications. The final report of special inspections shall carry the original signature and seal of the **SIER** making the statement.

Inspection and testing agency. An established and recognized agency or agencies, meeting the requirements of ASTM E 329 and accredited, retained by the **Owner**, independent of the contractors performing the work subject to special inspections, and approved by **CCBSD** to perform special inspections and materials testing required by the NCBC, IBC and this SICC-2009. See NCBC-1702.1 **Approved agency**.

Pre-engineered structural elements. Structural elements specified by the **SER** but which may be designed by a specialty **RDP.** Examples are items such as open web steel joists and joist girders; wood trusses; combination wood, metal and plywood joists; precast concrete elements; prefabricated wood or metal buildings; tilt-up concrete panel reinforcement and lifting hardware.

Primary structural system. The combination of elements which serve to support the weight of the building's structural shell, the applicable live loads based upon use and occupancy, and wind, snow, thermal and seismic environmental loads. Items such as curtain wall members, nonloadbearing walls, or exterior facades are not part of the primary structural system.

Secondary structural elements. Building elements that are structurally significant for the function they serve but are not necessary for stability of the primary structure. Examples include: support beams above the primary roof structure which carry a chiller; elevator support rails and beams; retaining walls independent of the primary building; flagpole or light pole foundations; false work required for the erection of the primary structural system; steel stairs or railings; etc., not fully specified on the County approved construction documents.

Special inspection. Inspection or testing of building components requiring special expertise

to "ensure" compliance with County approved documents and NCBC requirements. In this context, "ensure" means "substantiate". See also NCBC-1702.1 **Special inspection**.

Special inspections engineer of record (SIER). Referred to as "Special inspector" in NCBC, the **RDP** who is directly responsible for special inspections, materials testing and related services as described in the County approved Statement of Special Inspections. The **SIER** shall be retained by the **Owner**, independent of the contractors performing the work subject to special inspections, and approved by **CCBSD** to perform special inspections.

Statement of Special Inspections (SSI). The Statement of Special Inspections is a statement prepared by the **Owner** and the appropriate **RDP**s of record **(AR, GER, SER)** and submitted by the permit applicant. The SSI identifies the scope of the special inspections services applicable to a construction project, and the **RDP**s and Inspection and Testing Agencies who will provide those services. The SSI is required as a condition for permit issuance in accordance with NCBC.

Structural engineer of record (SER). The **RDP** retained by the **Owner** to design or specify structural documents in accordance with the NCBC and whose signature and seal appear on the County approved structural construction documents.

NCBC-1702.1 **Special inspection.** Inspection as herein required of the materials, installation, fabrication, erection or placement of components and connections requiring special expertise to ensure compliance with approved construction documents and referenced standards (see Section 1704).

NCBC -1702.1 **Special inspection, continuous.** The full-time observation of work requiring special inspection by an approved special inspector who is present in the area where the work is being performed.

NCBC -1702.1 **Special inspection, periodic.** The part-time or intermittent observation of work requiring special inspection by an approved special inspector who is present in the area where the work has been or is being performed and at the completion of the work.

NCBC-1702.1 **Structural observation.** The visual observation of the structural system by a registered design professional for general conformance to the approved construction documents at significant construction stages and at completion of the structural system. Structural observation does not include or waive the responsibility for the inspection required by Section 109, Section 1704 or other sections of this code.

SICC-202 ABBREVIATIONS AND PROMULGATING AGENCIES

A2LA	The American Association for Laboratory Accreditation 5301 Buckeystown Pike, Suite 350 Frederick, MD 21704	www.a2la2.net 301-644-3248
ACI	ACI International (American Concrete Institute) P.O. Box 9094 — 38800 Country Club Drive Farmington Hills, MI 48333 — Farmington Hills, MI 48331	www.aci-int.net 248-848-3700
AISC	American Institute of Steel Construction, Inc. One East Wacker Drive, Suite 3100 Chicago, IL 60601-2001	www.aisc.org 312-670-2400
AISC ASD	Manual of Steel Construction – Allowable Stress Design, 9th Edition	
AISC LRFD	Manual of Steel Construction – Load and Resistance Factor Design, 3rd Edition	
AISI	American Iron and Steel Institute 1140 Connecticut Avenue, Suite 705 Washington, DC 20036	www.steel.org 202-452-7100
AR	Architect of Record	
ASCE	American Society of Civil Engineers 1801 Alexander Bell Drive Reston, VA 20191-4400	www.asce.org 800-548-2723

ASNT	American Society for Non-Destructive Testing P.O. Box 28515 1711 Arlingate Lane Columbus, OH 43228-0518	www.asnt.org 800-222-2768
ASTM	American Society for Testing and Materials 100 Barr Harbor Drive West Conshohocken, PA 19428-2959	www.astm.org 610-832-9585
AWS	American Welding Society 550 N.W. LeJeune Road Miami, FL 33126	www.aws.org 800-443-9353
BIA	Brick Industry Association 11490 Commerce Park Drive, Suite 300 Reston, VA 20191-1525	www.bia.org 703-620-0010
CASE	Council of American Structural Engineers American Council of Engineering Companies 1015 Fifteenth Street N.W., 8th Floor Washington, DC 20005-2605	www.acec.org 202-347-7474
CCBSD	Catawba County Building Services Division	828-465-8399
CCRL	Cement and Concrete Reference Laboratory Building and Fire Research Laboratory National Institute of Standards and Technology 100 Bureau Drive, Stop 8600 Gaithersburg, Maryland 20899-8600	www.bfrl.nist.gov 301-975-5900
CRSI	Concrete Reinforcing Steel Institute 933 North Plum Grove Road Schaumburg, IL 60173-4758	www.crsi.org 847-517-1200
EIFS	Exterior Insulation and Finish Systems	
GC	General contractor	
GER	Geotechnical engineer of record	
ICC	International Code Council, Inc. 5203 Leesburg Pike, Suite 600 Falls Church, VA 22041	www.iccsafe.org 703-931-4533
NCACP	North Carolina Administrative Code & Policies 2006 Edition	
NCMA	National Concrete Masonry Association 13750 Sunrise Valley Drive Herndon, VA 20171-4662	www.ncma.org 703-713-1900
NCBC	North Carolina State Building Code 2009 Edition	www.ncdoi.com
NEC	NFPA 70-2008 National Electrical Code	
NFPA	National Fire Protection Association 1 Batterymarch Park Quincy, MA 02169-7471	www.nfpa.org 617-770-3000
NICET	National Institute for Certification in Engineering Technologies 1420 King Street Alexandria, VA 22314-2794	www.nicet.org 888-476-3238
NIST	National Institute of Standards and Technology 100 Bureau Drive, Stop 3460 Gaithersburg, MD 20899-3460	www.nist.gov 301-975-8295
NVLAP	National Voluntary Laboratory Accreditation Program National Institute of Standards and Technology 100 Bureau Drive, Stop 2140 Gaithersburg, MD 20899-2140	www.nist.gov/nvlap 301-975-4016
PCA	Portland Cement Association 5420 Old Orchard Road Skokie, IL 60077	www.portcement.org 847-966-6200

PCI	Precast /Prestressed Concrete Institute 209 West Jackson Boulevard, Suite 500 Chicago, IL 60606	www.pci.org 312-786-0300
PTI	Post-Tensioning Institute 8601 North Black Canyon Highway, Suite 103 Phoenix, AZ 85021	www.post-tension.org 602-870-7540
RCSC	Research Council on Structural Connections c/o American Institute of Steel Construction One East Wacker Drive, Suite 3100 Chicago, IL 60601-2001	www.boltcouncil.org 312-670-2400
RDP	Registered Design Professional	
SDI	Steel Deck Institute P.O. Box 25 Fox River Grove, IL 60021	www.sdi.org 847-458-4647
SER	Structural engineer of record	
SIER	Special inspections engineer of record	
SICC-2009	Special Inspections Catawba County- 2009 Edition	
SJI	Steel Joist Institute 3127 10th Avenue, North Ext. Myrtle Beach, SC 29577-6760	www.steeljoist.org 843-626-1995
SSI	Statement of Special Inspections	
TMS	The Masonry Society 3970 Broadway, Suite 201-D Boulder, CO 80304-1135	www.masonrysociety.org 303-939-9700
TPI	Truss Plate Institute 583 D'Onofrio Drive, Suite 200 Madison, WI 53719	www.tpinst.org 608-833-5900
UL	Underwriters Laboratories, Inc. 333 Pfingsten Road Northbrook, IL 60062-2096	www.ul.com 1-847-272-8800
WACEL	WACEL: An Association Of Engineering Laboratories, Inspection Agencies And Building Officials 7900 Wisconsin Avenue, Suite 305 Bethesda, MD 20814	www.wacel.org 301-652-7925