



September 2015 FBPE Structural Rules Committee

Meeting

September 16, 2015 - Immd. After Rules Committee Meeting

FBPE Board Office

2639 N. Monroe St., Ste. B112

Tallahassee, FL, 32303

September 2015 FBPE Structural Rules Committee Meeting Book

September 2015 FBPE Structural Rules Committee Agenda

1. Call to Order
2. Roll Call, Determination of Quorum and Address Absences
3. Introduction of Guests and Announcements
4. Review/Open Rule 61G15-31.004 – Design of Cast-in-Place Post-Tensioned Concrete Structural Systems
(email from June 2015 FBPE Board Meeting)
(Exhibit #4)

Exhibit #4.pdf - Page 3

5. Review/Open Rule 61G15-31.006 – Design of Structural Systems Utilizing Open Web Steel Joists and Joists Girders.
(Exhibit #5)

Exhibit #5 - Rule 61G15-31.006.pdf - Page 4

6. Old Business
7. New Business
8. Adjourn

Rebecca Sammons

From: Desiree C. Perazzo <dperazzo@jeminspections.com>
Sent: Thursday, June 11, 2015 5:05 PM
To: Board
Subject: Question Regarding Delegated Engineer for Post Tension

This is a question/topic that I would like to see answered or addressed in the quarterly newsletter:

The FAC states that the EOR can choose to delegate the design of the post-tensioning system, however it also states that the EOR must show the location of the tendons and the magnitude of the forces. Is it the intention of the code for the EOR to provide a minimum design and then for the delegated engineer to "re-design" ? Can the entire system be delegated with the EOR not providing magnitude of tendon forces and allows the delegated engineer to design the entire system? And if so, can the mild reinforcement design that accompanies the PT system also become a delegated item, since it would be part of the delegated engineer design?

FAC section referenced below:

61G15-31.004 Design of Cast-in-Place Post-Tensioned Concrete Structural Systems.

(1) **Structural engineering documents shall show the nature, type of post-tensioning system, location of the prestressing tendons and the magnitude of all prestressing forces and all design assumptions.**

(2) **If the engineer of record elects to delegate the responsibility for preparation of calculations and installation drawings to a delegated engineer for the post-tensioning system(s), the Engineer of Record shall require the submission of installation drawings for review by the engineer of record. Calculations shall also be submitted by the delegated engineer which show sufficient information to confirm that the number and size of tendons provided are adequate to provide the prestressing forces shown on the structural engineering documents. Installation drawings shall identify the structure and provide all details of post-tensioning materials to be used including necessary accessories and instructions for construction. The installation drawings and calculations shall bear the impressed seal, date, and signature of the delegated engineer who prepared them and shall be reviewed by the engineer of record for the structure. A cover sheet listing the drawings and calculations may be used.**

(3) It is the responsibility of the engineer of record for the structure to review the post-tensioning system installation drawings together with the shop drawings of all required reinforcing steel needed for a complete structural design.

(4) The effect of post-tensioning on other parts of the structure is the responsibility of the engineer of record.

Rulemaking Authority 471.033(2), 471.008 FS. Law Implemented 471.033(1)(g) FS. History--New 1-26-93, Formerly 21H-31.004, Amended 9-28-10.

Thank you,

Desiree C. Perazzo, P.E.
 JEM Inspections & Engineering
 3525 NW 115th Ave. Miami, FL 33178
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dperazzo@jeminspections.com

Notice of Proposed Rule

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

Board of Professional Engineers

RULE NO.: RULE TITLE:

61G15-31.006 Design of Structural Systems Utilizing Open Web Steel Joists and Joist Girders

PURPOSE AND EFFECT: The Board proposes the rule amendment to delete unnecessary language and to add new language to clarify the requirements for the design of structural systems utilizing open web steel joists and joist girders.

SUMMARY: The rule amendment will delete unnecessary language and add new language to clarify the requirements for the design of structural systems utilizing open web steel joists and joist girders.

SUMMARY OF STATEMENT OF ESTIMATED REGULATORY COSTS AND LEGISLATIVE RATIFICATION: The Agency has determined that this will not have an adverse impact on small business or likely increase directly or indirectly regulatory costs in excess of \$200,000 in the aggregate within one year after the implementation of the rule. A SERC has not been prepared by the Agency.

The Agency has determined that the proposed rule is not expected to require legislative ratification based on the statement of estimated regulatory costs or if no SERC is required, the information expressly relied upon and described herein: During discussion of the economic impact of this rule at its Board meeting, the Board, based upon the expertise and experience of its members, determined that a Statement of Estimated Regulatory Costs (SERC) was not necessary and that the rule will not require ratification by the Legislature. No person or interested party submitted additional information regarding the economic impact at that time.

Any person who wishes to provide information regarding a statement of estimated regulatory costs, or provide a proposal for a lower cost regulatory alternative must do so in writing within 21 days of this notice.

RULEMAKING AUTHORITY: 471.033(2), 471.008 FS.

LAW IMPLEMENTED: 471.033(1)(g), (j) FS.

IF REQUESTED WITHIN 21 DAYS OF THE DATE OF THIS NOTICE, A HEARING WILL BE SCHEDULED AND ANNOUNCED IN THE FAR.

THE PERSON TO BE CONTACTED REGARDING THE PROPOSED RULE IS: Zana Raybon, Executive Director, Board of Professional Engineers, 2639 North Monroe Street, Suite B-112, Tallahassee, FL 32303

THE FULL TEXT OF THE PROPOSED RULE IS:

61G15-31.006 Design of Structural Systems Utilizing Open Web Steel Joists and Joist Girders.

(1) The Engineer of Record shall indicate on the Structural Engineering Documents the steel joist and joist girder designations as required in Section 2206 of the Florida Building Code ~~from the 1997 Steel Joist Institute's Specifications and load tables~~ and shall indicate the appropriate standards for joist and joist girder design, layout, end supports, anchorage, bridging requirements, etc., including connections to walls. These documents shall indicate special requirements for concentrated loads, non-uniform loads, openings, extended ends, and resistance to uplift loads.

(2) The steel joist and joist girder manufacturer shall design the steel joist and joist girder members in accordance with as required in Section 2206 of the Florida Building Code ~~the 1997 Steel Joist Institute Specifications and load tables~~ to support the loads per the Engineer of Record's specified joist and joist girder designations and/or special loading diagrams, as set forth in Structural Engineering Documents. The Engineer of Record may require the submission of the steel joist and joist girder design calculations as an indication of compliance. When required to submit the steel joist and joist girder calculations, the steel joist and joist girder manufacturer shall submit a cover letter along with the steel joist and joist girder design calculations. The cover letter shall bear the seal and signature of a Florida registered professional engineer responsible for design of the steel joist and joist girders.

Rulemaking Specific Authority 471.033(2), 471.008 FS. Law Implemented 471.033(1)(g), (j) FS. History–New 1-26-93, Formerly 21H-31.006, Amended 10-19-97,_____.

NAME OF PERSON ORIGINATING PROPOSED RULE: Board of Professional Engineers

NAME OF AGENCY HEAD WHO APPROVED THE PROPOSED RULE: Board of Professional Engineers

DATE PROPOSED RULE APPROVED BY AGENCY HEAD: January 26, 2015

DATE NOTICE OF PROPOSED RULE DEVELOPMENT PUBLISHED IN FAR: March 10, 2015



Representative W. Travis Cummings, Chair
Senator Denise Grimsley, Vice Chair
Senator Aaron Bean
Senator Dwight Bullard
Senator Nancy C. Detert
Senator Geraldine F. "Geri" Thompson
Representative Matt Hudson
Representative Lake Ray
Representative Hazelle P. "Hazel" Rogers
Representative Barbara Watson



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THE FLORIDA LEGISLATURE
**JOINT ADMINISTRATIVE
PROCEDURES COMMITTEE**

April 1, 2015

Mr. Michael Flury
Senior Assistant Attorney General
Department of Legal Affairs
PL-01, The Capitol
Tallahassee, Florida 32399-1050

**Re: DBPR: Board of Professional Engineers
Rule 61G15-31.006, F.A.C.**

Dear Mr. Flury:

I have reviewed the above-referenced proposed rule, which was advertised in the Florida Administrative Register on March 27, 2015. I have the following comments.

61G15-31.006(1): This subsection provides in part that the "Engineer of Record shall indicate on the Structural Engineering Documents the steel joist and joist girder designations as required in Section 2206 of the Florida Building Code" It appears that the date of the Florida Building Code should be referenced in the rule text so that regulated individuals know the requirements expected of them in order to comply with the rule. Also, please provide a copy of section 2206 of the Florida Building Code to the committee for review.

Additionally, it appears that, based on this rule text, compliance with this section of the Florida Building Code is required, and therefore the rule text should specifically state that this section of the Florida Building Code is incorporated by reference in the rule and state how it may be obtained. *See* Fla. Admin. Code R. 1-1.013. Next, this material may only be incorporated by reference as it exists on the date the rule is adopted. *See* § 120.54(1)(i)1., Fla. Stat. Please include the effective date of section 2206 of the Florida Building Code in the rule text. A copy of any incorporated materials should be provided to the committee for review at least 21 days prior to adoption of the rule. *See* § 120.54(3)(a)4., Fla. Stat.

Mr. Michael Flury
April 1, 2015
Page 2

Please incorporate this section of the Florida Building Code by reference in the rule text or explain why it is not required.

61G15-31.006(2): Please explain the board's authority to require that the "steel joist and joist girder manufacturer shall design the steel joist and joist girder members in accordance with [sic] as required in Section 2206 of the Florida Building Code." It does not appear that this board regulates the manufacturers.

It appears that the words "in accordance with" should have been stricken in the rule text.

See comments regarding 61G15-31.006(1).

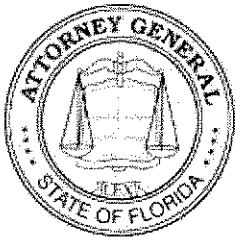
As always, please let me know if you have any questions. Otherwise, I look forward to your response.

Sincerely,

A handwritten signature in blue ink that reads "Marjorie C. Holladay". The signature is written in a cursive, flowing style.

Marjorie C. Holladay
Chief Attorney

MCH:SA WORD/MARJORIE/61G15_31.006LS040115_157984



PAM BONDI
ATTORNEY GENERAL
STATE OF FLORIDA

OFFICE OF THE ATTORNEY GENERAL
Administrative Law Bureau

Lawrence D. Harris
Assistant Attorney General
PL-01 The Capitol
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Lawrence.Harris@myfloridalegal.com

June 23, 2015

Ms. Marjorie C. Holladay
Chief Attorney
Joint Administrative Procedures Committee
Room 680, Pepper Building
111 W. Madison Street
Tallahassee, Florida 32399-1400

Re: Department of Business and Professional Regulation
Board of Professional Engineers Rule 61G15-31.006, F.A.C.

Dear Ms. Holladay:

I am writing to supplement my May 27, 2015, correspondence regarding the above-referenced rule. As promised, your April 1 and May 12, 2015, correspondence was considered by the Board at its June 17, 2015, meeting. Given the substantive nature of your concerns, the Board determined that the rule should be referred back to the Board's Rules Committee, which will make the appropriate changes to the language as proposed. The Rules Committee's language will then go back to the full Board for final decision. The Rules Committee is next scheduled to meet on July 15, 2015, and the next Board meeting is scheduled for August 12, 2015. I will promptly update you on the Board's decision thereafter.

Thank you for your comments and assistance regarding the Board's rulemaking endeavors. As always, please do not hesitate to contact me if you have any questions or further concerns.

Sincerely,

Lawrence D. Harris
Assistant Attorney General
Counsel to the Florida Board of Professional Engineers

cc: Zana Raybon, Executive Director
Tammie Britt, Paralegal Specialist



PAM BONDI
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STATE OF FLORIDA

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August 27, 2015

Ms. Marjorie C. Holladay
Chief Attorney
Joint Administrative Procedures Committee
Room 680, Pepper Building
111 W. Madison Street
Tallahassee, Florida 32399-1400

Re: Department of Business and Professional Regulation
Board of Professional Engineers Rule 61G15-31.006, F.A.C.

Dear Ms. Holladay:

I am writing to supplement my July 20, 2015, correspondence regarding the above-referenced rule. As I indicated, the full Board did meet on August 12, 2015, and considered this rule, as well as your comments. After discussion, the Board determined that there are a number of substantive issues with the proposed rule, which require additional attention by the Board's newly created Structural Rules Committee. Accordingly, the Board determined to refer this rule and your comments to that Committee for further consideration and resolution. After the Structural Rules Committee formulates language, the rule will be re-presented to the full Board for a decision on further proceedings. I will promptly update you on the Board's decision thereafter.

Thank you for your comments and assistance regarding the Board's rulemaking endeavors. As always, please do not hesitate to contact me if you have any questions or further concerns.

Sincerely,

Lawrence D. Harris
Assistant Attorney General
Counsel to the Florida Board of Professional Engineers

cc: Zana Raybon, Executive Director
Tammie Britt, Paralegal Specialist

RECEIVED
2015 SEP -1 PM 2:44
ADMINISTRATIVE
REGULATIONS DIVISION

Changes to Rule as proposed from July 15, 2015 Rules Committee meeting.

61G15-31.006 Design of Structural Systems Utilizing Open Web Steel Joists and Joist Girders.

(1) The Engineer of Record shall indicate on the Structural Engineering Documents the steel joist and joist girder designations as required in Section 2207 of the Florida Building Code, Building, 5th Edition (2014), incorporated by reference in Rule 61G20-1.001, F.A.C. (6-30-15) ~~from the 1997 Steel Joist Institute's Specifications and load tables~~ and shall indicate the appropriate standards for joist and joist girder design, layout, end supports, anchorage, bridging requirements, etc., including connections to walls. These documents shall indicate special requirements for concentrated loads, non-uniform loads, openings, extended ends, and resistance to uplift loads.

(2) The Engineer of Record is responsible for ensuring the steel joist and joist girder manufacturer shall design the steel joist and joist girder members as required in Section 2207 of the Florida Building Code, Building, 5th Edition (2014), incorporated by reference in Rule 61G20-1.001, F.A.C. (6-30-15), in accordance with the 1997 Steel Joist Institute Specifications and load tables to support the loads per the Engineer of Record's specified joist and joist girder designations and/or special loading diagrams, as set forth in Structural Engineering Documents. The Engineer of Record may require the submission of the steel joist and joist girder design calculations as an indication of compliance. When required to submit the steel joist and joist girder calculations, the Engineer of Record shall ensure the steel joist and joist girder manufacturer shall submit a cover letter along with the steel joist and joist girder design calculations. The cover letter shall bear the seal and signature of a Florida registered professional engineer responsible for design of the steel joist and joist girders.

Rulemaking Specific Authority 471.033(2), 471.008 FS. Law Implemented 471.033(1)(g), (j) FS. History--New 1-26-93, Formerly 21H-31.006, Amended 10-19-97,_____.