

**1050808, Supervisory Personnel – Bridge Structures, Post Tensioning
Comments from Industry Review**

Ghulam Mujtaba, P.E., C.P.M.
(352) 955-6685

Comments:

- 1- In the first sentence it has been specified that the technicians are the supervisors of the field operations. In the last sentence of the same paragraph it has been specified that Level II Crew supervisor may supervise the performing of the tensioning and grouting operations. These two requirements are in conflict with each other. The work should be performed and supervised by the crew members and their supervisor, respectively. The duties of the technicians should be to “observe” and inspect. The duties of the technicians should not be “supervision” or “management” of the work.
- 2- In the last sentence of the first paragraph it has been specified that “one of the crew members may be the Level II Supervisor”. The word “may” indicates that the contractor has the permission or choice to appoint one of the crew members as the Level II supervisor, but, it is a requirement. I suggest that the word “may” should be changed to “shall” or “must”, if we want contractor to have a Level II supervisor.
- 3- The qualifications of Level II Supervisor should be defined.
- 4- In the second paragraph, the terminology “crew foreman” has been mentioned. It is not clear if the “crew foreman” and Level II supervisor are the same person or different.

Ivan Lasa

Comment:

As I understand the second sentence, in addition to three sentence above, the Contractor chooses when to have the two technician present (either post-tensioning OR grouting). Is that the intent?

Robert V. Robertson, Jr., P.E.
(850) 414-4267

Comment:

Why do the workers have to be qualified if working under the DIRECT supervision of a qualified technician? I think we are getting way to deep with qualifying everyone. If this continues there will not be enough qualified workers to perform the work. When you get into electrical or plumbing work they all have “OJT” and so must construction.

Keith Waugh
Leware Construction Company
352-787-1616
kwaugh@lewarecc.com

Comment:

Why would the crew members need to be CTQP certified if the Technicians are certified? I'm against certification of the workers doing the work when the inspector (Technician) is certified. Eventually the Specs will want every worker CTQP certified in something and the cost of building roads will escalate.

Ed Koroshetz, P.E.
URS
727-639-0198
ed_koroshetz@urscorp.com

Comment:

I perceive a lack of clarification that can be argued by a person wishing to take a confrontational position with the article. It states in line five "Provide a minimum of two CTQP work crew members when performing post tensioning or grouting operations. One of the work crew members may be the Level II supervisor."

This does not clarify what the two CTQP qualified persons must be qualified in. It is assumed that it is in the areas of post tensioning or grouting based on the operation being performed however it does not make a definitive statement.

It just says a CTQP work crew member.

Are they level 1 or 2?

What area of qualification are they? Earthwork, post tensioning, pile driving etc.

Suggestion : ***"Provide a minimum of two work crew members that are qualified in CTQP Post Tensioning Level 1 or Grouting Level 1 when performing associated operations. One of the qualified work crew may be the Level II supervisor."***

Randy Cropp
772-871-1804
rcropp@conegraham.com

Comments:

Only the Supervisor/foreman should need to be qualified. This specification if adopted is a complete overkill and a waste of the taxpayers money. SUPERVISORY PERSONNEL-BRIDGE STRUCTURES, POST TENSIONING. (REV 5-12-09) SUBARTICLE 105-8.8.7 (of the Supplemental Specifications) is deleted and the following substituted: 105-8.8.7 Post Tensioning: Perform all post-tensioning field operations under the direct supervision of a CTQP qualified Level II Qualified Post-Tensioning Technician for posttensioning operations, and a CTQP qualified Level II Grouting Technician for grouting operations qualified through the Department's Construction Training Qualification Program (CTQP). In addition, provide a minimum of two CTQP qualified work crew members that are CTQP Level I Qualified when performing post-tensioning and grouting operations. One of the work crew

members may be the Level II supervisorAll personnel involved in grouting must attend a grouting training session provided by the Department not less than seven days prior to the start of the first stressing or grouting operation of the project. Perform all vacuum grouting operations under the direct supervision of a crew foreman who has been trained and has experience in the use of vacuum grouting equipment and procedures. Submit the crew foreman's credentials to the Engineer prior to performing any vacuum grouting operations. Conduct all stressing and grouting operations in the presence of the Engineer. Coordinate and schedule all post-tensioning activities to facilitate inspection by the Engineer.

Ken Zinck
386-740-3471
ken.zinck@dot.state.fl.us

Comment submitted by Tammie Andrews of Orlando Construction:

It has been our experience that the video (training session) provided good information and a refresher of grouting operations. The contractor was provided with the tape and signed off that the necessary personnel attended the training session. There is no value to us by eliminating the review training session and I would NOT recommend removing the last sentence in Spec. 105-8.8.7 Post Tensioning as proposed. Suggest Not Deleting: "All personnel involved in grouting must attend a grouting training session provided by the Department not less than seven days prior to the start of the first stressing or grouting operation of the project."
