

Concrete in the Real World

Now it's time to look at the bigger picture –Your group will be given a real-life situation that has actually occurred on a jobsite. Your job is to look at the problem from each of the players' perspectives:

- the owner
- the architect
- the engineer
- the contractor
- the ready mixed producer
- the QC technician/testing company



Situation #1:

- A 3000 psi mix for an interior slab and a 3000 psi mix for the exterior sidewalk were mistakenly switched. The error was not discovered until shortly after the concrete had been placed.
- What implications does this have on the key players? What are the concerns? How would you have resolved this situation?



Situation #2:

- Concrete is supposed to be delivered every 10 minutes for a containment building in the Washington D.C. area. Because of heavy traffic in the area, ready mixed trucks are starting to arrive anywhere from every 25 minutes to 45 minutes. As a result, the workers are vibrating the concrete just to keep it plastic until the next truck arrives.
- What implications does this have on the key players? What are the concerns? How would you have resolved this situation?



Situation #3:

- During a pour a quarter way up a hyperbolic cooling tower, it has been discovered that the rebar for the first quarter has been placed according to the original shop drawings. These shop drawings were never approved by a licensed engineer, and the approved drawings have had 3 revisions since the original shop drawings came out.
- What implications does this have on the key players? What are the concerns? How would you have resolved this situation?



Situation #4:

- An approved foundation gets a torrential downpour on the morning of the placement. Although the rain has stopped, the time is 6am and concrete is scheduled to arrive at 7am.
- What implications does this have on the key players? What are the concerns? How would you have resolved this situation?