

Airport Name  
Illinois Project Number

### **Concrete Quality Control Responsibilities**

- I. Minimum Personnel Requirements
  - A. Quality Control Officer: (Q.C.O.)
  - B. Quality Control Technician-Plant (Q.C.T.P.)
    - 1. Recommended minimum 2 required
  - C. Quality Control Technicians (Q.C.T.)
    - 1. Recommended minimum 4 Technicians
  - D. Quality Control Technician-Lab (Q.C.T.L.)
    - 1. Recommended minimum 2 required
  
- II. Personnel Responsibilities/Duties
  - A. Q.C.O.
    - 1. Coordinate and oversee Quality Control (Q.C.)
      - a. Supervising Plant Q.C. Operations
        - 1. Review the testing procedures and work of Q.C.T.P.
        - 2. Review ongoing Q.C. test results daily
        - 3. Assure that Q.A.E. receives all required test results
        - 4. Train Q.C. personnel assigned to the plant
        - 5. Review control charts and take appropriate action.
      - b. Supervising Q.C.T. (at Paver)
        - 1. Train Q.C. Personnel at paver
        - 2. Observe sampling, preparation of beams and cylinders, and testing on an ongoing basis.
        - 3. Assure proper equipment is on hand and in good working order
        - 4. Works with Q.A.E. to resolve failing test-make adjustments, etc.

- c. Supervise Q.C.T.L.
      - 1. Train Q.C. personnel assigned to lab
      - 2. Monitor daily the daily duties of the Q.C.T.L. as defined herein
  - 2. Review beam break test data and keep contractor informed.
- B. Q.C.T.P.
  - 1. Provide Q.C. inspection and testing at the plant
    - a. Inspect construction of stockpile
      - 1. Three foot layers
      - 2. Location of stockpiles
      - 3. Loading out from stockpiles
    - b. Sampling and Testing
      - 1. Gradation
      - 2. Moisture
    - c. Proportioning (in accordance w/IDOA Procedures and Policy Memo 87-3)
      - 1. Determine batch weights based on moisture
      - 2. Give all changes in batch weights to weigh man in writing
      - 3. Perform mix verification
      - 4. Maintain Quality Control Charts
      - 5. Perform slump and air tests
      - 6. Fill out Forms: M-6, M-7 and M-4, daily
- C. Q.C.T. (At Paver)
  - 1. Sample and Prepare test specimens at paver
    - a. Perform testing per subplot
      - 1. Slump
      - 2. Air
      - 3. Temperature
    - b. Sample and Prepare test specimens
      - 1. Cast beams and cylinders (when required)
      - 2. Onsite curing of beams-wet burlap or beam covers

2. Inform Q.A.T.P. of FAILING TESTS

D. Q.C.T.L.

1. Transport test specimens
  - a. Paver to curing facilities
  - b. Curing to test machines
2. Mark test specimens per attached ticket
3. Clean and maintain beam boxes

## Sample Frequency/Testing

### Start-Up

1. Plant
  - a. Aggregate Stock Piles & PCC Mixture
    1. Gradation (4) four/day/agg
    2. Moisture (1) one/hour/agg
    3. Slump, air, temp (8) eight/day
    - 4.
  2. Paver
    - a. Slump as needed—one/sublot
    - b. Air as needed—one/sublot
    - c. Temp as needed—one/sublot
    - d. Beams—eight/sublot
    - e. Cylinders

### Ongoing Construction

1. Plant
  - a. Stockpiles
    1. Gradation (2) two/day or as needed
    2. Moisture (4) four/day or as needed
    3. Slump, air, temp (4) four/day or as needed
  2. Paver
    - a. Slump, Air, Temp (1) one/sublot (minimum)
    - b. Beams (8) eight/sublot
    - c. Cylinders as needed

