

DM-DCLD Certification of Ready Mixed Concrete Production and Transport Facilities

PRE-AUDIT REQUIREMENTS TO BE SUBMITTED TO DCLD

- Documents that the Company should have ready prior to Plant and Trucks Audit:
 1. Copy of scale calibration report and certificate for all scales (cement, aggregates, water, additions, admixtures...) not less than 12 months old. The calibration report should show that each scale was checked through the range of use and at least in the 4 quarters of the capacity of the scale.
 2. If the test weights used for calibration of the scales are property of the ready-mixed concrete facility, a copy of the test weight certification, less than 2 years old, will also be needed (test weights shall be accurate within $\pm 0.01\%$ of indicated value)
 3. Copy of MSDS sheets for each chemical admixture stored at the batch plant.
 4. Copies of 2 sets of 10 consecutive batch quantity printouts will be needed for the analysis of batch accuracies of each material (these data are confidential). Those records will be collected by the Engineer during inspection.
 5. Zero balance records if printable: i.e. for each batch, the scale will start with an amount of material retained in it and end with different amount or zero. The record will show the start and end weights of retained material in each scale (cement, aggregate, micro silica...)
 6. A copy of the manufacturer's specification sheet for each load cell of each scale is to be provided in order to check temperature range, load capacity and safe overload.
 7. Record of moisture probe (if used) calibrations for the last six months. Record of aggregate moisture data for aggregates not controlled by a moisture probe at least the last one month. Company technician should demonstrate competence in testing and calculating the moisture content of aggregates.
 8. Copy of delivery ticket
 9. List of truck numbers with name of drum manufacturer for each transit mix truck included as a part of the plant certification process.
- Other Requirements:
 10. Plant personnel need to be present to operate the plant and truck mixers. Control System provider may need to be contacted to get information about scales and material batching tolerances.
 11. All operational truck mixers shall be available for inspection. A torch lamp will be required and a platform shall be provided for the Engineer to inspect the trucks. The Engineer may request to temporarily remove the drum hatches on selected units in order to check the interior of the drum.
 12. Technical department shall arrange for the following tests on concrete: Slump, air content, density, coarse aggregate content and making concrete specimens for strength. The below instruments and apparatus will be required:
 - Slump test set
 - Pressure meter
 - Balance
 - Empty buckets, plastic bags
 - Two wheel barrows
 - 4.75mm sieve (of large diameter)
 - Cylinder/Cube moulds (at least 6)