

# INTERAGENCY QUALITY ASSURANCE COMMITTEE (IQAC) *Material Qualification*



## Concrete Mix Designs

### General

This procedure is to outline the current IQAC policy and procedure for qualification, and quality assurance sampling and testing of Portland Cement Concrete Mix Designs. Please note that final acceptance of materials will be based upon the material sampled in-place at the project site, per Section 106 of the Standard Specifications.

Each individual location or "plant" shall be referred to as a "source". The responsible party will be the governing agency nominated by the IQAC for each individual source. Please contact the governing agency, within whose boundaries the source is located, for information.

The following list of criteria is required for the year 2001 Submittal process for September 2000.

### Qualification Procedure

Mix designs are to be updated and submitted every September 1 st. Any mixes not resubmitted will removed from the list September 30th of each year.

### Mix Renewals

- 1) Must have an updated design with a P.E. stamp
- 2) Ten (10) production sets of 28 day break data from the previous year; the use of multi-lab P.E. review for statistics is acceptable as long as the cover letter is stamped and the cylinder test data noted on the letter with data sheet back-up.
- 3) Renewals with less than Ten (10) breaks will be considered as a new design.

### New Designs

- 1) Must have an updated design with a P.E. stamp
- 2) A trial batch or Water-Cement curve and five (5) production sets of 28 day break data within sixty (60) days.



3) If item #2 not available, the mix may be placed on the list for 90 days until the data is generated. If the 90 data is not submitted, the design will be removed from the list until such time the data is provided.

4) All break data must meet ACI 301.4.2.3.3.b average compressive strength requirement.

### **General**

1) New or renewed mixes submitted 90 days prior to September will be allowed to continue for the following year and will not need to be resubmitted for that September.

2) All submittals need current certifications for admixtures, cement, fly ash and Section 704 "Concrete Aggregate" tests (aggregate data within 90 days is allowable).

3) September 2001 the designs will require full compliance to the ACI 301 guidelines.