

# SECTION 6 CONTROL

## GENERAL RULES FOR QUALITY CONTROL

### CHAPTER XIV

#### **Article 80    Quality control**

The main purpose of Section 6 of this Instruction is to establish the acceptance control which is performed on behalf of the Administration or the Owner, as applicable.

This Instruction establishes the mandatory acceptance control with regards to the quality of the concrete and its constituent materials, the steel (reinforcement and prestressing steel), the anchorages, couplers, sheaths, equipment and other accessories that are characteristics of the prestressing technique, the grouting and the execution of the work.

The purpose of this control is to verify that the finished work possesses the quality characteristics specified in the design, which shall be the general characteristics of this Instruction, plus those specific characteristics contained in the Project Specifications. It should be understood that any approval that results from quality control are conditional on the correct performance of the work during the legally established time periods.

The final effectiveness of quality control results from the complementary actions of the control performed by the producer (internal control) and the control carried out by the receiver (external control).

#### **COMMENTS**

The following types of control may be distinguished on the basis of the representative parts:

- a) Internal control. This is carried out by the designer, contractor, subcontractor or supplier, each one within the scope of the specific task in the construction process, which could be:
  - by own initiative;
  - in accordance with rules established by the customer or by an independent organisation (body).
- b) External control. External control, which consists of all the measures established by the Owners, are carried out by an independent professional or organisation, which assumes responsibility for the job at the request of the Owners or the competent authority. This control consists of:
  - verifying the internal control measures;
  - the establishment of additional controls that are independent of the internal control systems.

With regards to the controlled task, quality control may be classified into:

- a) Project control. This is carried out by the supervision offices in the case of official works, or by independent organisations authorised by the customer, having the mission of verifying the theoretical quality levels of the works.
- b) Materials control. The purpose of this control is to verify that all materials comply with the project specifications.
- c) Execution control. This control is aimed at verifying that the established project specifications are respected, together with those contained in this instruction.

As has already been stated, the articles in this Instruction basically refer to external control. In addition to external control, it is recommended that in all cases there be an internal control, performed by the designer, manufacturer or constructor, as applicable.