

PITTSBURGH TESTING LABORATORY

QUALITY CONTROL PROCEDURES
FOR PLACEMENT OF STRUCTURAL CONCRETE

QUALITY CONTROL PROCEDURE NO. PTL-Q10

"SPECIFICATIONS PLACEMENT OF STRUCTURAL CONCRETE"
GILBERT ASSOCIATES, INC.
SP-5618

MAY, 1969

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COMPLETELY REVISED - OCT., 1972

Approved by: H. L. Bennett
Director - Gen. Const.

Date: _____

CRYSTAL RIVER - UNIT NO. 3
FLORIDA POWER CORPORATION

P/234

C. Field Placement Inspection

1. Testing laboratory inspectors shall perform the following inspections and shall document this inspection on each placement. (Sample inspection form attached.)

a. Formwork for cleanliness, tight joints, form oiling and exposed edges chamfered.

b. Reinforcement for cleanliness, adequate securing and clearances to forms and subgrades.

c. Construction joint surfaces except as noted otherwise hereinafter shall be prepared for the placement of concrete there on by cleaning thoroughly with wire brushes, water under pressure, or by other means to remove all coatings, stains, debris, or other foreign material.

d. Horizontal and vertical construction joints in the reactor building cylindrical shell below 250'0 level shall be prepared for receiving next pour by either sandblasting, air water jet, bush hammering, or other means to remove all coatings, stains, debris or other foreign material. The horizontal joints shall be dampened, then thoroughly covered with cement - sand mortar, of similar proportions in concrete, of approximately 1/2 inch thick and concrete placed before initial set of mortar. Vertical joints shall be dampened before concreting.

e. Construction joint surface in the Ring Girder and Dome at and above 250'0 of the Reactor Bldg. are to be prepared by sandblasting to produce a clean rough surface and the applying an evenly distributed film of Colma Fix 8% adhesive.

f. Conveyance equipment in accordance with ACI 301 Chapter 8 and ASTM C94. All transporting to point of deposit to be without segregation of concrete.

g. Concrete deposited in horizontal layer not exceeding 18" - avoiding inclined joints with maximum free fall of 3 feet. Each layer vibrated together.

h. Placing of concrete shall not cause movement or damage to embedded items.

i. Concrete vibrated adequately and concrete of proper workability to avoid seams or planes of weakness.