

IN-HOUSE PROCEDURE # _____

PROCEDURE FOR VERIFYING CONCRETE CURING TANKS

Item:

Concrete Curing Tank

CALIBRATION / VERIFICATION

Purpose:

This method provides instructions for verifying the temperature of a curing/water tank.

Inspection Equipment Required:

1. Reference thermometer readable to 0.5 °C.

Tolerance:

Equipment shall meet the temperature tolerances specified in the applicable test method.

Procedure:

1. Position the reference thermometer in the water tank so that it may be read without further movement and in such a manner so that no contact with the tank sides are made. Allow the thermometer to stabilize for at least 5 minutes.
2. Without moving the thermometer, read the indicated temperature of the water to the nearest 0.5 °C.

MAINTENANCE

Purpose:

This method provides instructions for stirring, cleaning, and refilling water tanks.

Maintenance Equipment Required:

1. Class G-5 scale
2. Calcium hydroxide
3. Spoon
4. Personal Protective Equipment

Procedure:

STIRRING TANK (weekly)

1. Stir tank with spoon to bring calcium hydroxide into suspension. Safety glasses and gloves should be worn to prevent injury.

CLEANING / REFILLING TANK (24 months)

1. Drain tank and clean by scrubbing if necessary.
2. Add clean water to normal level. Determine the volume of the water after filling by estimation or measurement based on the total volume of the tank.
3. Add 3 grams of calcium hydroxide per liter of water in the tank. This is approximately equivalent to 0.025 lb./gal. or 0.1335 oz./gal. To convert from gallons to liters, multiply the number of gallons by 3.7854.
4. Weigh the calcium hydroxide on the scale.
5. Add the calcium hydroxide to the water slowly while stirring. Wear gloves and safety glasses to prevent injury.