

MATERIALS AND RESEARCH
DELAWARE DEPARTMENT OF TRANSPORTATION
DOVER, DELAWARE (302) 760-2400

ASPHALT PLANT LAB INSPECTION CHECK LIST
Year 2003

Plant Owner/Location/Type _____

Plant Superintendent _____ Telephone _____

Inspection Date _____ Inspectors _____

TEST LAB

- Yes___ No___ 1. Test house must be 600 square feet and be for the exclusive use of lab personnel only. Roof shall be watertight and the floors shall not flood when it rains. The test house shall also be free of all rodents and pests.
- Yes___ No___ 2. Satisfactory heating, and air conditioning shall be supplied to maintain 65 – 75°F. Lighting shall also be supplied.
- Yes___ No___ 3. Restroom with hot and cold running water for the exclusive use by lab personnel only.
- Yes___ No___ 4. Required housekeeping supplies, paper towels, rags, hand cleaner, broom and dust pan, and 4 terry cloth towels.
- Yes___ No___ 5. Other supplies, First Aid Kit, outside thermometer located out of the sun, pencil sharpener, clock, and a filing cabinet with a minimum of two drawers.
- Yes___ No___ 6. All electric boxes covered. No wires of any kind running across the floor.
- Yes___ No___ 7. One fire extinguisher in the lab.
- Yes___ No___ 8. Bottled drinking water in the lab with cooler.
- Yes___ No___ 9. Deep sink inside the lab with a sprayer for washing samples with hot and cold running water.
- Yes___ No___ 10. A suitable size desk with three chairs with a functional phone for the use of the State.
- Yes___ No___ 11. One unsplit phone line in the lab for the exclusive use of the State that we can connect to, so that we can operate a modem. A laser jet printer with the setup CD must also be available for use by the State.

REQUIRED EQUIPMENT

Scales

- Yes___ No___ 1. One digital 10 kg. Capacity scale with scoop and set up to weigh Superpave cores and to weigh a rice bowl in a water bath under the scale. The scale has to measure to the tenth of a gram. The water bath under the scale must be able to be heated to maintain 77 F. There shall also be a water filter on the bath to keep the water clean. Meniscus of the water shall be broken only with a fishing line or a thin wire.
- Yes___ No___ 2. One calibrated test weight for checking digital scales.
- Yes___ No___ 3. One adequate scale for cold feed calibration. (batch plants) A pan or section of belt shall be available to obtain samples.

Thermometers

- Yes___ No___ 1. Six calibrated glass face 50 - 500° F. hot mix thermometers.
- Yes___ No___ 2. One digital thermometer that will read from 1° F. to 400° F. for checking oven and water bath temperatures.

OTHER EQUIPMENT

- Yes___ No___ 1. Four clean metal five gallon buckets for samples.
- Yes___ No___ 2. One mechanical aggregate washer.
- Yes___ No___ 3. Four flat tray 2' x 18" x 1" for rices.
- Yes___ No___ 4. Two nalgene type wash bottles 1000 mil.
- Yes___ No___ 5. One approved ignition oven with an internal scale.
- Yes___ No___ 6. Three stiff spatula blades 4".
- Yes___ No___ 7. Three stiff spatula blades 8".
- Yes___ No___ 8. Two four inch wide spatulas.
- Yes___ No___ 9. Two sieve brushes.
- Yes___ No___ 10. Two sash brushes 1".
- Yes___ No___ 11. Two wire type brushes (kind used for cleaning frying pans).
- Yes___ No___ 12. Ten rectangular stainless steel pans. Large enough for 5500 grams of material.
- Yes___ No___ 13. One oven 400 F. thermostat controlled and large enough to take care of several sets of samples.
- Yes___ No___ 14. One oven 400 F. thermostat controlled large enough to hold at least three sets of core molds or three gyratory molds
- Yes___ No___ 15. One Mary Ann aggregate shaker.
- Yes___ No___ 16. One complete set of U.S. Standard 12" sieves with one extra # 200 sieve. Complete set means 1" ½, 1" 1/4, 1", 3/4", ½", 3/8", # 4, # 8, # 16, # 30, # 50, # 100, # 200. One set of sieves for washing a # 10 and a # 200.
- Yes___ No___ 17. Three pair of welding gloves for handling hot equipment.
- Yes___ No___ 18. Three twelve inch table fans for cooling rices and cores.
- Yes___ No___ 18. Five ten quart buckets. (Batch Plant Only)
- Yes___ No___ 19. Two number 2 aluminum scoops for sampling material.
- Yes___ No___ 20. One large capacity sample splitter one cu. ft. capacity chute 24"w with ½" adjustable bars. Dimensions 19" x 29" x 39" h. lever actuated with two pans.

- Yes___ No___ 21. One vacuum pump with adequate capacity for running specific gravity of bituminous mixtures according to the Rice Method with a manometer connected to monitor vacuum as pictured in T-209.
- Yes___ No___ 22. One approved shaker and two Rice bowls for running rice.
- Yes___ No___ 23. One square point shovel for getting samples from truck.
- Yes___ No___ 24. One approved Gyratory compactor.
- Yes___ No___ 25. Three Gyratory molds (150mm.)
- Yes___ No___ 26. If necessary a wagon or cart will have to be available to get the buckets of hot mix to the lab.
- Yes___ No___ 27. One twelve-inch wash sieve with a number 10 over it for protection for washing samples.

Remarks

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Plant Superintendent or Plant Technician Signature & Date _____

I have read and I am aware of the things I need or repairs I need to make.

State Inspectors Name & Date
