



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
DIVISION OF MATERIALS AND TESTS
 6601 CENTENNIAL BLVD.
 NASHVILLE, TENNESSEE 37243-0360

Precast Inspection Checklist

Date _____ Time _____

Producer _____ Location _____ Region _____

Plant Representative _____ Plant Manager _____

Plant Address _____

Phone/Email _____

Regional M&T Inspector _____ HQ M&T Inspector _____

General Information

1. Are there deficiencies noted on the last Region Inspection Report?..... Yes No
2. Are there deficiencies noted on the last HQ Audit?..... Yes No
3. Are there deficiencies noted on the last audit performed by certifying agency?..... Yes No
4. Is previous precast inspection checklist readily available?..... Yes No
5. Are deficiencies from previous audits or inspections recurring?..... Yes No
6. ACPA / NPCA / PCI Certification (circle one) Expiration Date: _____
7. List all TDOT products made at facility:

8. Is the plant certified to produce each of these products?..... Yes No
9. Is there a mix design for each type of product being produced?..... Yes No
10. According to which of the following are products being manufactured?
 - a. TDOT Standard Drawing..... Yes No
 - b. Approved Alternate Drawing..... Yes No
 - c. Contract Plans..... Yes No
 - d. ASTM/AASHTO Specifications..... Yes No

Comments: _____

Materials

1. Check materials against approved mix design (ask for material delivery tickets):
Cement _____ Fly Ash _____
GGBFS _____ Chemical Admixtures _____
Coarse Aggregate _____ Fine Aggregate _____
2. Are all constituent materials approved on QPL or Producer List?.....Yes No
3. Is patching material approved on QPL?.....Yes No
4. Is documentation of aggregate properties (i.e. specific gravity and absorption) readily available?
.....Yes No
5. Is steel used at the plant on the Producer List and mill certs readily available?.....Yes No
6. Does the plant use drawn down wire?.....Yes No
7. If yes, are certs readily available?.....Yes No
8. Does Plant use municipal or non-municipal water?.....Municipal Non-municipal
9. If non-municipal water, are test records kept on file?Yes No

Comments: _____

Quality Control Program

1. Is Quality Control Manual readily available?.....Yes No
2. Is organizational chart readily available and current?Yes No
3. Main QC Inspector Name: _____
 - a. TDOT/ACI Level 1 Expiration Date: _____
 - b. TDOT Level 2 Expiration Date: _____
 - c. ACPA/NPCA/PCI QC Training Expiration Date: _____
4. Backup QC Inspector Name: _____
 - a. TDOT/ACI Level 1 Expiration Date: _____
 - b. TDOT Level 2 Expiration Date: _____
 - c. ACPA/NPCA/PCI QC Training Expiration Date: _____
5. Mix Design Technician Name: _____
 - a. TDOT/ACI Level 1 Expiration Date: _____
 - b. TDOT Level 2 Expiration Date: _____
 - c. ACPA/NPCA/PCI QC Training Expiration Date: _____
 - d. TDOT Level 3 Expiration Date (if applicable): _____
 - e. PE License # & Expiration (if applicable): _____
6. Does the plant keep a record of the following tests/inspections performed by QC personnel?
 - a. Pre-Pour.....Yes No
 - b. During.....Yes No
 - c. Post-Pour.....Yes No
7. Are gradations on aggregate being performed at least once per month?.....Yes No

Comments: _____

Laboratory Equipment

1. All lab equipment easily fits in space and is accessible.....Yes No
- | | |
|---|--|
| Scoop..... <input type="checkbox"/> | 4"x8" cylinder molds..... <input type="checkbox"/> |
| Sample reduction equipment.... <input type="checkbox"/> | Square blade shovel..... <input type="checkbox"/> |
| Slump cone with base..... <input type="checkbox"/> | Pan..... <input type="checkbox"/> |
| Tamping rod..... <input type="checkbox"/> | Thermometers..... <input type="checkbox"/> |
| Air meter with case..... <input type="checkbox"/> | Wheelbarrow..... <input type="checkbox"/> |
2. Space is floored, roofed, sealed inside, weather-tight, and furnished with electricity....Yes No
3. Laboratory equipped with heat source capable of maintaining a temperature of 230°F +/- 9°F?.....
- a. Oven.....
 - b. Stovetop.....
 - c. Hot Plate.....
4. Appropriate lights, electrical outlets, and HVAC is provided for tests being performed..Yes No
5. Scales (2 kg capacity, 0.2% sensitivity, 0.5% accuracy) available.....Yes No
6. Scales (100 lbs capacity, 0.2% sensitivity, 0.5% accuracy) available.....Yes No
7. Appropriate size and mesh screens are available to perform gradations.....Yes No

Coarse Series

- 2"
- 1 1/2"
- 1"
- 3/4"
- 1/2"
- 3/8"
- #4
- #8
- Tray

Fine Series

- 3/8"
- #4
- #8
- #16
- #30
- #50
- #100
- #200
- Pan

8. Mechanical shaker (Coarse Aggregate).....Yes No
9. Mechanical shaker (Fine Aggregate).....Yes No
10. Adequate and suitable water supply is available to perform wash tests in accordance with AASHTO T-11, if necessary.Yes No

Comments: _____

Testing Equipment

1. Is facility certifying products for acceptance?.....Yes No
2. If yes, has the following equipment been calibrated within the last 12 months?
 - a. Compression MachineYes No
 - i. Date Calibrated: _____
 - b. Three-Edge BearingYes No
 - i. Date Calibrated: _____

Comments: _____

Concrete Batching/Central Mixing Plant

1. If facility batches its own concrete,
 - a. Have the scales, weighing devices, and/or metering devices been calibrated within the last 6 months?.....Yes No
 - i. Date(s) Calibrated: _____
 - b. Chemical admixture dispensers calibrated within the last 12 months?.....Yes No
 - i. Date Calibrated: _____
 - c. If using aggregate moisture probes, is accuracy verified with AASTHO T-255 weekly?
.....Yes No
 - d. Stockpile maintenance
 - Labeled.....Yes No
 - OverflowingYes No
 - PartitionsYes No
 - Coned.....Yes No
 - SegregatedYes No
 - Blending.....Yes No
2. If using concrete from RM plant, expiration date of NRMCA certification: _____

Comments: _____

Acceptance Testing

- 1. Are the following acceptance tests being performed at minimum frequencies listed in SOP 5-3?
 - a. Compressive Strength Yes No
 - b. Absorption Yes No
 - c. D-Load Yes No
 - d. Ultimate Load Yes No
- 2. Are daily reports documenting type/quantity of product made each day available? Yes No
 - a. Do daily reports contain all acceptance test results? Yes No
 - b. Do daily reports contain inspection of dimensional tolerances? Yes No
- 3. Are acceptable products marked by stamp, etch, or label? Yes No

Precast

- Date of Manufacture
- AASHTO/ASTM Designation/Class
- TDOT Standard Drawing #
- Approved Alternate Drawing #
- Project/Contract #
- Plant's Unique Stamp
- NPCA/ACPA/PCI Stamp

Pipe

- Date of Manufacture
- Diameter
- AASHTO/ASTM Designation/Class
- Plant's Unique Stamp
- NPCA/ACPA/PCI Stamp

Comments: _____

Date _____ Time _____

Producer _____ Location _____ Region _____

Plant Representative _____ Plant Manager _____

Plant Address _____

Phone/Email _____

Regional M&T Inspector _____ HQ M&T Inspector _____

Discussion of Findings

Discuss summary of findings with plant representative.

1.

2.

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TDOT Auditor Signature _____

Plant Representative Signature _____