

Vermont Agency of Transportation

Bituminous Concrete: Plant inspection Request & Pre-Inspection Facility Checklist

This form is to be completed and signed by the responsible QC personnel requesting facility inspection.

Requests shall be submitted a minimum of 10 days prior to the anticipated date of plant inspection via the following link: [AOT - VTrans Mix Designs](#)

General Information

Date _____

Please provide corporate name registered with the Secretary of State's Office and the facility's physical 911 address:

List applicable laboratory credentials, certifications, qualifications, and accreditations:

List the name of laboratory manager and responsibilities:

Type of facility – Pre-existing, new location, or major changes:

Date when the last VTrans inspection was performed:

Please indicate below the applicable specification(s) that you are verifying the facility is in compliance with:

- Marshall Bituminous Concrete Only
- Superpave Bituminous Concrete Only
- Marshall & Superpave Bituminous Concrete

If responding “No” to a question below a response explaining the deficiency is required on page six.

VTrans Specifications – 406.05(a): Requirements for All Plants:

- Is plant equipped with automatic (single button) controls for proportioning, timing, and discharge as well as an approved recording device? Yes No
- Does the recording device print the date, time, project #, truck ID, and Mix Design #? Yes No
- Are you aware that all originals (load tickets) become the property of the State? Yes No

1. Truck Scales

- Is an approved truck scale present on location for checking the accuracy of the recording equipment? Yes No
- Is the scale adequately sized to weigh all haul vehicles used in one draft? Yes No
- Is there a building meeting the required specifications provided to house the scale operator and inspector? Yes No

2. Equipment for Preparation of Bituminous Material

- Is the facility equipped with adequate storage tanks for PG Binder? Yes No
- Are all the storage tanks insulated? Yes No
- Do all tanks have acceptable sampling valves that meet Agency specification 702.01(b)? Yes No
- Are there controls to allow for continuous circulation of binder materials between the storage tank and the proportioning unit during the entire operating period? Yes No
- Is the discharge end of the circulating pipe maintained below the surface of bituminous material of the storage tank to prevent the discharging of hot material into the open air? Yes No
- Are all lines and fittings properly insulated to minimize heat loss? Yes No

3. Feed for the Dryer

- Does the plant have accurate means to mechanically feed materials into the dryer so that uniform production and temperature is obtained? Yes No

4. Dryer

- Is the dryer capable of drying aggregate to Agency specification 406.05(a)(4)? Yes No

5. Screens (batch plants only)

- Is the plant equipped with screens that comply with Agency specification 406.05(a)(5)?
N/A Yes No

6. Cold Storage Bins

- Is the plant equipped with cold bin storage of sufficient capacity to ensure uniform and continuous operation? Yes No
- Are cold storage bins constructed to prevent intermingling of aggregates from one bin to another? Yes No
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7. Hot Bins (batch plants only)

- Is the plant equipped with a minimum of four hot bins with enough capacity to supply the mixer when operating at full capacity? N/A Yes No
- Is each bin equipped with a free-flowing overflow pipe of adequate size and location to remove overflow material which has the potential of contaminating other bins? N/A Yes No
- Are all hot bins equipped with automatic sensor devices to indicate the position of the material within the bin? N/A Yes No

8. Bitumen Control Unit

- Does plant have adequate means of either weighing or metering the proper amounts of bitumen? Yes No
- If equipped with a metering device, does metering device comply with specification 406.05(a)(8) for accuracy? N/A Yes No
- If equipped with a metering device, does the AC line have a 3-way valve and outlet to check accuracy of meter? N/A Yes No

9. Thermometric Equipment

- Does AC line have an accurate armored thermometer in a suitable location near discharge valve? Yes No
- Does plant have an approved recording instrument at the discharge chute of the dryer? Yes No

10. Control of Mixing Time

- Is the plant equipped with positive means to govern the mixing time? Yes No

11. Dust Collectors

- Is plant equipped with adequate dust collectors? Yes No
- If baghouse fines are introduced back into the mixture, is the plant equipped with adequate means of metering or weighing the baghouse fines? N/A Yes No

12. Testing Facilities

- Is the laboratory equipped with an alert messaging system that provides project name and number, truck number, ticket number, a description of the product, load quantity and cumulative daily tonnage? Yes No
- Is the plant equipped with one or more suitable laboratories meeting all current agency requirements? Yes No
- Please list the number of laboratories requesting to be inspected. _____
- Are all laboratories equipped with a suitable high-speed internet connection which meets current agency specifications? Yes No
- Are laboratory buildings permanent or portable structures? Permanent Portable
- If the laboratory buildings are a portable structure, how long have they resided in their current location? _____
- Is all laboratory equipment calibrated/verified in its current location and are all calibration/verification records present and up to date? Yes No

13. Safety Requirements

- Does the plant provide safe and adequate accessibility to all plant operations? Yes No

14. Surge Bins and Silos

- Is the plant equipped with a “Surge Bin” (one used for short term storage, typically not insulated or heated)? N/A Yes
If yes, list how many and capacity. _____
- Is the plant equipped with a “storage silo” (one that is typically heated, Insulated and sealable for long term storage)? N/A Yes
If yes, list how many and capacity. _____
- Do you intend to use the surge bin or storage silo(s) for Agency projects? N/A Yes

15. Other

- Is the plant equipped with means to introduce RAP (recycled asphalt pavement) into the mixture? N/A Yes
If yes, has the system previously been used on Agency projects? N/A Yes No
- Is the plant equipped with means to introduce antistrip additives? N/A Yes
If yes, explain how the additive is introduced into the mix.

406.05(b) Requirements for Batch Plants Only----- N/A

1. Weigh Box Hopper

- Is weigh box ample size to hold a full batch without running over? Yes No
- Does weigh box appear to be supported properly? Yes No
- Does weigh box hang freely? Yes No
- Does weigh box gate close tightly? Yes No

2. Aggregate Scales

- Are scales a springless dial or load cell with digital readout sensitive to 0.1% of the maximum load that may be required? Yes No
- Are scales plainly visible and readable to the operator at all times? Yes No
- Is there adequate means of checking the accuracy of the scales by the use of ten 50lb test weights certified annually by the Division of Weights and Measures? Yes No
If additional certified weights are provided, please list. _____
- Has the scale been sealed by a licensed scale technician during the current construction season? Yes No

3. Bitumen Bucket

- Is the bucket large enough to hold and weigh the required amount of bitumen in a single weighing? Yes No
- Is the bucket properly insulated? Yes No
- Do spray bars extend over the full length of mixer? Yes No

4. Bitumen Scales

- Are scales a springless dial or load cell with digital readout sensitive to 0.1% of the maximum load that may be required? Yes No
- Are scales plainly visible and readable to the operator at all times? Yes No
- Is there adequate means of checking the accuracy of the scales by the use of ten 50lb test weights certified annually by the Division of Weights and Measures? Yes No

- Is the maximum value of the scale graduation less than or equal to 2.0 pounds? Yes No
- Has the scale been sealed by a licensed scale technician during the current construction season? Yes No

5. Mixer for Batch Method

- Is mixer a twin pugmill type, jacketed or insulated and capable of producing a uniform mixture within the applicable job-mix tolerance? Yes No

6. Recording

- Does the recording system print the mass of the bitumen, the mass of the aggregate, and the total combined mass of both in addition to printing the combined net mass for each load? Yes No
- Does the recording system account for moisture loss attributed from recycled asphalt materials when recording the net mass for each load? N/A Yes No
- Does the recording system print the cumulative actual virgin binder content for calculating asphalt price adjustment? Yes No

406.05(d) Requirements for Drum-Mix/Continuous Mix Plants Only ----- N/A

1. Aggregate Cold Feeders

- Is plant equipped with belt feeders with graduated indicators less than or equal to 0.1 on each cold feed? Yes No
- Is each feeder interlocked so that production is interrupted if one or more cold feed bins become empty or flow is obstructed? Yes No

2. Mineral Filler System

- If plant uses mineral filler, does the plant have means to feed the material accurately and uniformly? N/A Yes No

3. Aggregate Weighing Equipment

- Is the plant equipped with an approved continuous weighing device capable of weighing all materials? Yes No
- Has the scale been sealed by a licensed scale technician during the current construction season? Yes No

4. Bitumen Control Unit

- Is the plant equipped with a bitumen proportioning meter which meets specification 406.05(d)(4)? Yes No

5. Proportioning Control

- Is the plant equipped with a control panel which meets Agency specification 406.05(d)(5)? Yes No
- Is the plant equipped with a master control which meets Agency specification 406.05(d)(5)? Yes No
- Is the plant equipped with proportioning controls which meet Agency specification 406.05(d)(5) for (a) aggregate feed rate, (b) aggregate mass indication, (c) aggregate moisture compensation, (d) bitumen control, and (e) bitumen quantity indication? Yes No

6. Recording of Proportions

- Is the plant equipped with an approved recording device which meets Agency specification 406.05(d)(6)? Yes No

7. Calibration of Feed Rates

- Does the plant have records of current calibration of feed rates for each mix type intended for use? Yes No

8. Automatic Aggregate Sampling Device

- Is plant equipped with an appropriate means of sampling? Yes No

9. Mixer Unit

- Is the plant equipped with mixer unit which meets Agency specification 406.05(d)(9)? Yes No

For each item answered “NO” above, please provide a response below explaining the deficiency and how it impacts facilities’ readiness and timeline for inspection:

I am an authorized representative of the producer and have inspected the above-referenced facility. My responses accurately reflect the condition of the plant, laboratory, and its equipment.

Signature: _____
Printed name: _____
Title: _____

Date: _____