

**“NEAUPG MODEL PGAB QC PLAN”**

**PERFORMANCE GRADED ASPHALT BINDER  
QUALITY CONTROL PLAN FOR XYZ ASPHALT PRODUCERS**

**For  
(Insert State Name)**

**For the Year  
200X**

**XYZ Asphalt Producers  
000 Thermal Crack Road  
UpNorth, N.A. 00000**

**Phone:**

**Fax:**

**Submitted By:** \_\_\_\_\_  
QC Plan Administrator Date

**Approved By:** \_\_\_\_\_  
State Materials Engineer Date

**THE FOLLOWING QC PLAN FORMAT CONFORMS WITH  
THE REQUIREMENTS OF AASHTO R-26  
AND HAS BEEN ACCEPTED BY  
THE NORTHEAST ASPHALT USER/PRODUCER GROUP (NEAUPG)**

**1.0 – PGAB Facility and Quality Control Information**

(See R-26, Subsection 9.1)

1.1 - Facility Type & Storage Information:

1.2 – Facility Location(s):

1.3 – QC Authorized Representative Name and Phone #:

1.4 – QC Tests to be Performed on Each PGAB:

1.5 - QC Laboratory Name, Location, and Accreditation/Qualifications

**2.0 – Procedures for PG Binders Not in Compliance**

(See R-26, Subsection 9.2)

2.1 – Agency Notification (Immediate notification of the State required):

2.2 – Identification of Material:

2.3 - Ceasing of Shipment:

2.4 – Notification Prior To Resuming Shipment:

2.5 - Disposition of Non-compliant Material:

(Rev. – May 21, 2003)

### **3.0 – Method and Frequency of Sampling & Testing**

(See R-26, Subsection 9.3)

3.1 – Initial Frequency of Sampling & Testing:

3.2 – Reduced Frequency of Sampling & Testing:

3.3 – Minimum Frequency of Specification Compliance Testing:

3.4 – QC Sampling & Testing for Guiding Manufacturer:

### **4.0 – Documentation and Preparation of Monthly Summary Reports**

(See R-26, Subsection 9.4)

### **5.0 – Procedures and Documentation for Transport Vehicles**

(See R-26, Subsection 9.5)

### **6.0 – Procedures for Use of In-Line Blending**

(See R-26, Subsection 9.6)

6.1 – Initial Frequency of Sampling & Testing of Modified Binder:

6.2 – Reduced Frequency of Sampling & Testing:

6.3 – Minimum Frequency of Specification Compliance Testing:

6.4 – QC Sampling & Testing for Guiding Manufacturer:

6.5 – Record of Proportions of Blended Material:

(Rev. – May 21, 2003)

# **APPENDICES**

**A. Laboratory Accreditation/Qualifications**

**B. Example Random Sampling Report Forms (D 3665 & T 40)**

**C. Example PG Asphalt Binder Worksheet & Test Results Report Form (M 320)**

**D. Example Monthly Summary Report**

**E. Example Bill of Lading & Loading Affidavit**

**F. (Other Appendix Items as Determined Necessary to QC Plan)**

# **APPENDIX A**

## **Laboratory Accreditation/Qualifications**

# **APPENDIX B**

## **Example Random Sampling Report Forms (D 3665 & T 40)**

**IF the facility does not participate in Random sampling , please make a statement to that effect on this Appendix B sheet . NCDOT.**

# **APPENDIX C**

## **Example PG Asphalt Binder Worksheet & Test Results Report Form (M 320)**

# **APPENDIX D**

## **Example Monthly Summary Report**

**Goes Below Zero Asphalt Producers  
PG Asphalt Binder Sampling & Testing – Monthly Summary Report**

TESTS PERFORMED	SAMPLE IDENTIFICATION & TEST RESULTS						
<b>PG Binder Grade:</b>							
<b>Lot No.:</b>							
<b>Sample No.:</b>							
<b>Specific Gravity (T 228):</b>							
<b>Flash Point Temp. (°C) (T 48):</b>							
<b>Rotational Viscosity (T 316):</b>							
<b>Orig. Dynamic Shear (T 315):</b>							
G*/sin $\delta$ , Min. 1.00 kPa							
Test Temp @ 10 rad/s (°C)							
<b>RTFO Percent Change (T 240):</b>							
<b>RTFO Dynamic Shear (T 315):</b>							
G*/sin $\delta$ , Min. 2.20 kPa							
Test Temp at 10 rad/s (°C)							
<b>PAV Dynamic Shear (T 315):</b>							
G*sin $\delta$ , Max. 5000 kPa							
Test Temp @ 10 rad/s (°C)							
<b>PAV Creep Stiffness (T 313):</b>							
S, Max. 300 Mpa							
Test Temp (°C) @ 60 s							
m-value, (slope), Min. 0.300							
<b>PAV Direct Tension (T 314):</b>							
Failure Strain, Min. 1.0%							
Test Temp @ 1.0 mm/min (°C)							
<b>Physical Hardening Index, 24 Hrs.</b>							
S (Mpa)							
Test Temp @ 60 s (°C)							
m-value							

# **APPENDIX E**

## **Example Bill of Lading & Loading Affidavit**

(Rev. – February 29, 2000)

**“NEAUPG Model PGAB QC Plan”**  
**Minimum Information Required on a Shipping Ticket (Bill of Lading)**

NEAUPG recognizes that Shipping Tickets/Bills of Lading may vary between Supplier and, accordingly, provides no prescribed format. However, as a minimum, the following information must be clearly provided on all Shipping Tickets/Bills of Lading:

1. The information provided by *the latest* North Carolina Department of Transportation (NCDOT) Standard Specifications for Roads and Structures Section 1020-1, Delivery and Acceptance of Asphalt Materials.
2. Name of Producer/Supplier and location.
3. At statement that the material has been tested and meets AASHTO Specifications or is being provided by an Approved Supplier under Approved Supplier Certification (ASC).
4. The performance grade of the binder material.
5. The rotational viscosity in Pascal-seconds (Pa-S) at 135 and 165 degrees centigrade.
6. The recommended laboratory mixing and compaction temperature (degrees C) for the PGAB.
7. Delivery ticket number.
8. Date shipped.
9. State project or purchase order number.
10. NCDOT assigned batch number.
11. Destination.
12. Name of consignee.
13. Trailer or car number.
14. Producer’s or Supplier’s storage tank and/or batch number.
15. Quantity loaded in tons or gallons (metric tons or liters).
16. Specific gravity or pounds per gallon (kg/L) at 60 deg. F (15.6 deg. C)
17. Loading temperature.
18. Net Gallons at 60 deg. F (15.6 deg. C).
19. Brand, grade, and percentage or quantity of anti-strip additive.
20. Stamp, write or print the NCDOT Supplier’s and NCDOT Transporter’s Certification to the delivery ticket as described in the NCDOT Specification Section 1020. (See the attached, “N.C. DEPT. OF TRANSPORTATION SUPPLIER’S AND TRANSPORTER’S CERTIFICATION”)

(Rev. – June 5, 2006)

**“EXAMPLE LOADING AFFIDAVIT”**

**Loading Affidavit – ANYPLACE, USA Terminal**

Today’s Date: \_\_\_\_\_ Load Ticket # \_\_\_\_\_

Driver Name: \_\_\_\_\_

Company: \_\_\_\_\_

- ◆ I certify that the product in my current load is compatible with product residue from my previous load.

Current Load: \_\_\_\_\_

Previous Load: \_\_\_\_\_

- ◆ I certify that my trailer is dry (free of moisture). YES NO
- ◆ I certify that my truck/trailer is in good mechanical condition. YES NO
- ◆ All valves are operable, dome lids and gaskets are in place, there are no tank or piping leaks, and all drains and unloading valves are closed. YES NO
- ◆ I certify that my trailer is free of retained residue. YES NO
- ◆ I understand that if my truck contains retain which exceeds 0.5% of transport capacity, it cannot be filled without the express permission of authorized ANYPLACE, USA Terminal

\_\_\_\_\_  
Driver Signature Date

(Rev. – February 29, 2000)

**“N.C. DEPT. OF TRANSPORTATION SUPPLIER’S AND TRANSPORTER’S  
CERTIFICATION”**

**”Stamp, write, or print these certifications on the delivery ticket, or attach to the delivery  
ticket.”**

“This is to certify that this shipment of \_\_\_\_\_ gallons/liters or tons/metric tons of \_\_\_\_\_ grade  
asphalt including \_\_\_\_\_ gallons/liters of \_\_\_\_\_ anti-strip meet all requirements of NC  
Department of Transportation specifications.

Signed \_\_\_\_\_  
Authorized Representative of Supplier”

“This is to certify that this transport tank was clean and free from contaminating materials when loaded. The  
material transported on the previous load in this tanker was \_\_\_\_\_.

Signed \_\_\_\_\_  
Authorized Representative of Transporter”

# **APPENDIX F**

**(Other Appendix Items as Determined Necessary to QC Plan)**

**THIS SECTION SHOULD INCLUDE A COPY OF THE EXCEL SPREADSHEET YOU SUBMIT TO NCDOT WITH ALL THE QC AND IANC DATA.**