

THE DEPARTMENT WILL REJECT ANY LOAD THAT DOES NOT HAVE A CORRESPONDING ETICKET UNLESS THE CAUSE IS BEYOND THE CONTRACTOR'S CONTROL. IN SUCH CIRCUMSTANCES, PAPER TICKETS MAY BE PERMITTED.

**SETUP, CALIBRATION, AND DATA INTEGRATION:**  
 SUPPLIERS SHALL COOPERATE WITH THE DEPARTMENT AND THE DEPARTMENT'S ETICKETING VENDOR TO ESTABLISH DIGITAL INFORMATION TRANSFER FROM THE SUPPLIERS TICKETING SYSTEM TO THE DEPARTMENT'S ETICKETING PORTAL. NO EARLIER THAN 14 DAYS AFTER PROJECT EXECUTION BUT NOT LATER THAN 30 DAYS PRIOR TO INITIATING WORK, IDENTIFY IN WRITING THE MATERIAL SOURCE LOAD READ-OUT WEIGHING SYSTEM THE SUPPLIER UTILIZES.

THE MATERIAL SUPPLIER SHALL COOPERATE WITH ODOT'S ETICKETING PORTAL VENDOR IN THE CREATION OF AN APPLICATION PROGRAMMING INTERFACE (API) TO INTEGRATE MATERIAL SOURCE LOAD READ-OUT DATA WITH THE DEPARTMENT'S ETICKETING PORTAL. THE DEPARTMENT'S ETICKETING PORTAL VENDOR SHALL BE RESPONSIBLE FOR LEADING THE API CREATION. UPON API CREATION, UTILIZE THE API TO PROVIDE DIGITAL MATERIAL SOURCE LOAD READ-OUT DATA FROM THE MATERIAL SOURCE LOAD READ-OUT WEIGHING SYSTEM TO THE DEPARTMENT'S ETICKETING PORTAL.

CONDUCT A TEST OF EACH SUPPLIER'S INTEGRATION WITH THE DEPARTMENT'S ETICKETING PORTAL PRIOR TO SHIPPING MATERIAL TO THE PROJECT. COMPLETE TEST AT LEAST 14 DAYS PRIOR TO SHIPPING MATERIAL UNLESS OTHERWISE APPROVED BY THE ENGINEER. THE TEST MUST INVOLVE AT LEAST FOUR TEST ETICKETS FROM EACH SUPPLIER APPROVED FOR USE ON THE PROJECT FOR MATERIAL TO BE USED ON THE PROJECT. THE TEST ETICKETS MUST ACCURATELY REFLECT THE PROPER NOMENCLATURE AND ACCURACY DEFINED; ALL OTHER CATEGORIES SHALL BE MARKED "TEST". AFTER THE ENGINEER CONFIRMS THE TEST ETICKETS HAVE BEEN ENTERED INTO THE DEPARTMENT'S ETICKET PORTAL, VOID THE TEST ETICKETS WITH THE REASON "SETUP TESTING". IF ANY LOAD READ-OUT WEIGHING SYSTEM CHANGES ARE INTENDED BY THE SUPPLIER AFTER THE CREATION OF THE SUPPLIER SPECIFIC API, COORDINATE WITH THE ODOT TO ENSURE API COMPATIBILITY.

ENSURE CONTINUED INTERNET CONNECTIVITY DURING THE API USAGE TO MAINTAIN CONNECTION TO THE DEPARTMENT'S ETICKETING PORTAL DURING MATERIAL PRODUCTION AND DELIVERY TO THE PROJECT, ENSURE DELIVERY OF ETICKET PRIOR TO THE PLACEMENT OF MATERIAL, BUT NOT PRIOR TO THE LOADING OF THE MATERIAL AT THE SOURCE. UPON SUCCESSFUL TESTING OF THE DATA INTEGRATION, PHYSICAL MATERIAL TICKETS FOR THE DEPARTMENT WILL NOT BE REQUIRED.

**PAYMENT:**

FOR INITIAL SETUP OF THE API INTEGRATION, THE MATERIAL VENDORS SHALL ASSUME APPROXIMATELY 16 PERSON HOURS AND SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE MATERIAL. FOR EXTREME SITUATIONS INVOLVING EXCESSIVE ESTABLISHMENT OF THE API AND DIGITAL INFORMATION TRANSFER, NOTIFY THE ENGINEER PER CMS 104.02.

THE COST ASSOCIATED WITH CREATING AND MAINTAINING AN API AND PROVIDING DIGITAL TICKETING DATA IS INCIDENTAL TO THE COST OF THE ITEM UTILIZING THE MATERIAL BEING PLACED.

**AC GAUGE, AS PER PLAN:**

FOLLOW 401 AND 441, EXCEPT AS FOLLOWS:

- \* OFFSET THE AC GAUGE FOR EACH JMF FOR THE PROJECT'S USING 441.09.A AND THE MODIFIED SUPPLEMENT 1043 PROCEDURE BELOW.
- \* DURING S-1043.07 PROCESS, A RAP SAMPLE OBTAINED FROM THE JMF-DESIGNATED RAP PILE WILL BE EXTRACTED IN THE ASPHALT LEVEL 3 LAB TO VERIFY THE RAP AC %. THE RAP AC % WILL BE WITHIN 0.3% OF THE AVERAGE RAP AC % FROM THE JMF. IF RAP AC % IS OUTSIDE OF THE 0.3%, THE VERIFICATION PLAN PROCESS WILL STOP, AND DISTRICT TESTING WILL ALLOW ONE OPPORTUNITY TO REWORK THE RAP PILE AT THE MIX PLANT AND RESAMPLE. RESAMPLING REQUIRES DISTRICT TESTING TO BE PRESENT. IF THE RESAMPLE IS STILL OUTSIDE OF THE 0.3%, THE JMF WILL BE REINDED AND NEED TO BE REDESIGNED.

FOLLOW 441.10 EXCEPT AS FOLLOWS:

- \* ENSURE ASPHALT BINDER CONTENT DOES NOT EXCEED TABLE 441.10-1. ADJUSTMENTS TO MIX PLANT CONTROL SETTINGS MUST BE SUBMITTED TO AND APPROVED BY DISTRICT TESTING PRIOR TO MAKING THE ADJUSTMENT. THE ADJUSTMENT CANNOT EXCEED +/-0.2% FROM DESIGN AC % FROM JMF. DO NOT LOWER VIRGIN BINDER CONTENT OR INCREASE RAP PERCENT. ENSURE PLANT TICKET SHOWS THE ADJUSTMENT AND IS SET TO THE ADJUSTED TOTAL AC % AT ALL TIMES AFTERWARDS.
- \* RECORD THE DAILY VERIFICATION PAN RESULTS IN A SEPARATE WORKSHEET AND MAKE SURE IT'S POSTED IN THE PLANT FACILITY AND AVAILABLE TO THE MONITORS. INCLUDE THE DATE RAN, VERIFICATION PAN RESULT, AND INITIALS OF WHO RAN IT. ENSURE A PRINTOUT OF THE DAILY VERIFICATION PAN IS ALSO INCLUDED WITH THE TE-199.

FOLLOW SUPPLEMENT 1043 FOR AC GAUGE OFFSET, EXCEPT AS MODIFIED BELOW:

- \* FOLLOW 1043.07 EXCEPT AS FOLLOWS:
  - NOTIFY DISTRICT TESTING A MINIMUM OF ONE WEEK PRIOR TO MAKING VERIFICATION PANS.
  - DISTRICT TESTING WILL WITNESS A SOLVENT EXTRACTION FROM A SAMPLE FROM THE RAP PILE THAT IS TO BE USED IN THE JMF TO VERIFY THE RAP AC %. RAP AC % WILL BE WITHIN 0.3% OF RAP AC % DETERMINED IN JMF. IF OUTSIDE OF 0.3% DO NOT PROCEED AND THE JMF WILL NEED TO BE REDESIGNED.
  - DISTRICT TESTING WILL WITNESS THE VERIFICATION PANS BEING BLENDED, MIXED, AND COMPACTED
  - MAKE A MINIMUM OF THREE VERIFICATION PANS FOR THE JMF THAT ARE AT THE JMF ASPHALT BINDER CONTENT. MAKE ONE ADDITIONAL VERIFICATION PAN FOR EACH ADDITIONAL DISTRICT THE JMF WILL BE USED IN.
  - IN ADDITION, TURN POSSESSION OVER OF THE CALIBRATION AC GAUGE PANS USED TO DETERMINE THE FIT COEFFICIENT TO DISTRICT TESTING.

\* FOR AC CONTENT PAY ACCEPTANCE, REPLACE 1043.08 WITH THE FOLLOWING:

CALCULATE AN AC GAUGE OFFSET AMOUNT FOR EACH JMF AND MIX PLANT IN ACCORDANCE WITH THE FOLLOWING PROCEDURE PRIOR TO START OF ANY PRODUCTION FOR THE JMF. NOTIFY DISTRICT TESTING 24 HOURS PRIOR TO OFFSETTING GAUGE.

1. ENSURE PRINTER IS ON AND PLACE THE FIRST VERIFICATION PAN IN THE AC GAUGE AND RUN.
2. AFTER THE 16-MINUTE TEST, TAKE THE VERIFICATION PAN OUT AND TURN 180 DEGREES AND PLACE BACK IN AC GAUGE AND RUN.
3. REPEAT STEPS 1 AND 2 WITH THE SECOND AND THIRD VERIFICATION PANS.
4. FOR EACH RUN, TAKE THE JMF ASPHALT BINDER CONTENT MINUS THE AC GAUGE AC % TO OBTAIN THE OFFSET FOR THAT RUN.
5. AVERAGE ALL OFFSETS FOR A FINAL OFFSET.
6. RETAIN ALL OF THE VERIFICATION PANS. AFTER THE FINAL OFFSET IS DETERMINED, DISTRICT TESTING WILL CHOOSE TWO OF THE VERIFICATION PANS AND SEND ONE OF THESE TWO TO OMM TO EXTRACT AND REFLUX.
7. DISTRICT TESTING WILL USE THE TWO VERIFICATION PANS TO OFFSET THEIR AC GAUGE.

BEFORE THE BEGINNING OF A PRODUCTION DAY, RUN THE VERIFICATION PAN IN THE AC GAUGE TO ENSURE THE OFFSET AC GAUGE AMOUNT IS WITHIN 0.14% OF THE JMF ASPHALT BINDER CONTENT. DURING THE START OF PRODUCTION FOR THE JMF, SOLVENT EXTRACT THE FIRST TWO OC SAMPLES AND COMPARE TO THE OFFSET AC GAUGE. ENSURE SOLVENT EXTRACTION IS WITHIN 0.3% OF OFFSET AC GAUGE. IF MORE THAN 0.3% OFF, IMMEDIATELY RESAMPLE AND RUN AC GAUGE AND SOLVENT EXTRACT IMMEDIATELY. IF TWO CONSECUTIVE SAMPLE ARE MORE THAN 0.3% OFF, IMMEDIATELY STOP PRODUCTION, CONTACT MONITORING TEAM, AND INVESTIGATE THE REASON FOR THE PROBLEM. ONCE TWO CONSECUTIVE OC SAMPLES ARE WITHIN 0.3% OF OFFSET AC GAUGE, THE FINAL OFFSET GAUGE IS CONFIRMED.

AFTER CONFIRMING THE AC GAUGE OFFSET AMOUNT PROCEED WITH DETERMINING AC CONTENTS OF PRODUCTION SAMPLES BY THE AC GAUGE ACCORDING TO 1043.09.

ONLY DETERMINE ONE AC GAUGE OFFSET AMOUNT PER JMF. IF MORE THAN 30 DAYS HAS LAPSED SINCE THE JMF WAS LAST TESTED, RE-DO THE OFFSET PROCEDURE ABOVE WITH TWO VERIFICATION PANS (ONE FROM THE CONTRACTOR AND ONE FROM THE DISTRICT). IF AN AC GAUGE OFFSET AMOUNT IS LATER DETERMINED, BY AN INVESTIGATION OF BOTH THE CONTRACTOR AND THE DISTRICT, TO BE INCORRECT RE-DO THE OFFSET PROCEDURE.

IN ADDITION, ALSO DETERMINE THE AC GAUGE OFFSET FOLLOWING THE CURRENT PROCEDURE AS OUTLINED IN SUPPLEMENT 1043 DATED JANUARY 18, 2019 AND PROVIDE THE INFORMATION TO THE DEPARTMENT. THIS AC GAUGE OFFSET NUMBER WILL BE USED DURING OC TESTING.