

Doc ID: FH-ZU2-QU-ITP016

Rev: 0

Principal's: Melbourne Airport (APAM) Prepared By: Abdul Saad Contract No: CP14038

Project: Taxiway Zulu 2.0 Reviewed By: Mukaram Mohammad Date: 02/07/2024

Construction Process: Hot Mix Asphalt Production – Airport Mix Approved By: Angela Julianto Date: 11/09/2024

Specifications: AfPA Performance-Related Airport Asphalt Specification -Version 2.1 (published 9 May 2023)

Structure / Component: Asphalt Pavement

Lot No: Lot Details: Lot size/Quantity: Date:

| Item | Task/Activity | | Inspection/Test | | | | HP/ WP/ | Responsibility | Checl | ked by: | |
|------|--|--------------------------------|--|------------------------------------|------------------------------|----------------------------|------------------|---|-------------------------------|-----------------|------|
| No. | Description | Frequency | Acceptance Criteria | Reference Documents | Inspection / Test Method | Record of conformity | AP/IP/ TP/SCP | | Principal's Representative | Fulton Hogan | Date |
| 1.0 | General | | | | | | | | | | |
| 1.1 | Submission of ITP | Prior to commencing works | All relevant ITPs to be submitted to the Principal's Representative. | AfPA Sec 4.3 Cl 14- 18 | Verify | Aconex Correspondence | НР | Project / Site Engineer Principal's Representative | BecaCPL-GCOF | R-001247 | |
| 1.2 | Change in Mix Design | During the works | Any change in the constituent materials or mixture design must be immediately reported to the Principal's Representative. The Contractor must detail the proposed mixture design verification testing to ensure that the performance of the asphalt has not been adversely impacted by the change. | AfPA Sec 6.2 Cl 75-77 | Test Method and Results | Hold Point Release Form | НР | Project / Site Engineer Principal's Representative | | | |
| 2.0 | Manufacture o | f Asphalt | | | | | | | | | |
| 2.1 | Monitor and Control Asphalt Manufacture | During the works | The Contractor must produce asphalt to be consistent and uniform in temperature, and composition, consistent with the approved Construction Procedure. | AfPA Sec 9.1 Cl 138 - 142 | Plant Process Controls | Process Control Records | TP | Laboratory manager | | | |
| 2.2 | Conformance of manufactured asphalt | For each truck load of Asphalt | Segregated or not fully coated asphalt must not be used in the works. If required, the Principal's Representative is to be advised of steps to be taken to remedy the nonconformance. | AfPA Sec 9.1 Cl 142 | Visual | Delivery Docket | НР | Quality manager | | | |
| 3.0 | Sampling and | Testing during As | phalt Production | 1 | | | 1 | | 1 | | |



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| 3.1 | Coarse Aggregate Testing | During the works at prescribed frequency | Test property Test method Test frequent | gale AfPA Sec 11.2.1 CI 187 - 190 | Test Method and Results | NATA Test Report | TP | Laboratory Manager | | | |
| 3.2 | Fine Aggregate Testing | During the works at prescribed frequency | Test property Test method Test frequence | CI 192 - | Test Method and Results | NATA Test Report | TP | Laboratory Manager | | | |
| 3.3 | Binder Compliance Certificate | Every Delivery to Production Plant | A test certificate to be supplied for every delivery to the asphalt mixing plant. | AfPA Sec 11.2.4.1 Cl 200 - 201 | Test Method and Results | NATA Test Report | TP | Laboratory Manager | | | |
| 3.4 | Binder – Binder Consistency Testing or Confirmation | Every Delivery to Production Plant | For every batch of polymer modified bind production either: a. Provide written confirmation that the ra ingredients are consistent with the modificular used to produce the asphalt mixture. Sample and test the binder according to Clause Cl 204. | 1 01202 - | Written Confirmation/ Test Method and Results | NATA Test Report | TP | Laboratory Manager | | | |



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| 3.5 | Binder – Point of Production Testing | Every Production Batch | Every production batch of binder must be sampled at the point of production and tested by the Contractor, for: a. Viscosity at 165°C according to ATM-111. b. Torsional recovery at 25°C, 30 s according to ATM-122. c. Softening point according to AG: PT/T131. | AfPA sec 11.2.4.1 Cl 207 - 208 | Test Method and Results | NATA Test Report | TP | Laboratory Manager | | | |
| 3.6 | Binder – Addition Production Testing | Every Ten modified production batches | Additional production testing must be performed at least once every ten modified binder production batches, or once every 250 tonnes of modified binder production, whichever is more often. | AfPA sec 11.2.4.1 Cl 209 - 212 | Test Method and Results | NATA Test Report | TP | Laboratory Manager | | | |



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| 3.7 | Binder – Point of Delivery Sampling | Prior to the commencement of asphalt production | Binder must be sampled for each delivery vessel/tank, not more than four hours prior to the commencement of asphalt production or transfer of binder to the asphalt product plant binder storage tank. A minimum of two samples, each not less than 0.5 L in volume, must be obtained in accordance with ATM-101. | AfPA Sec 11.2.4.5 Cl. 213 - 219 | Test Method and Results | Sampling Process Control Charts | WP | Laboratory Manager | | | |
| 3.8 | Point of Delivery Binder Testing | Before each production shift | The point of delivery sample, to be retained for point of delivery testing, must be tested by the Contractor, prior to the commencement of asphalt production for the work period, for: a. Viscosity at 165°C according to ATM-111. b. Torsional recovery at 25°C, 30 s according to ATM-122. c. Softening point according to AG:PT/T131. | AfPA Sec 11.2.4.6 Cl 220 - 221, Sec 12.2.4. Cl 275 | Test Method and Results | NATA Test Report | НР | Laboratory Manager | | | |
| 3.9 | Point of Delivery Binder Testing | If binder test results nonconforming | If required, the Contractor must prepare and submit a disposition regarding the binder point of delivery test result for approval by the Principal's Representative. | AfPA Sec 12.2.4.6 CI 220 | Test Method and Results | NATA Test Report | НР | Laboratory Manager | | | |
| 3.10 | Tack Coat Testing | Every Delivery to Site | A test certificate which demonstrates that the tack coat complies with AS 1160 or approved modified tack coat production properties, must be supplied for every delivery to site | AfPA Sec 11.2.5 Cl 222 | Test Method and Results | NATA Test Report | TP | Laboratory Manager | | | |
| 3.11 | Asphalt Production Testing | During each production shift as prescribed by Table 16 | Tonnes of Asphalt in the Lot Number of test sets Not greater than 300 tonnes 2 | AfPA Sec 11.3 Cl. 222 - 223 | Test Method and Results | NATA Test Report | TP | Laboratory Manager | | | |



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| 3.12 | Shift Usage Calculations | For each Production Shift | For each production Lot calculate; bitumen usage, mass of asphalt produced & average bitumen content | AfPA Sec 11.3 Cl. 231 | Test Method and Results | Lot Usage Record Sheet | TP | Quality Manager | | | |

Final Inspection

The signature below verifies that this ITP has been completed in accordance with the Fulton Hogan's Quality \System Procedures and verifies lot compliance with specifications.

Print Name: Position: Signature: Date:

Legend:

| HP | Hold Point | Work shall not proceed past the HP until released by the Superintendent | IP | Inspection point | Formal Inspection to be done and recorded |
|-----|----------------------------|---|-----|--------------------------|--|
| HP* | Fulton Hogan Hold Point | Work shall not proceed past the HP* until released by Fulton Hogan | TP | Test Point | Product compliance test to be undertaken and recorded/reported |
| WP | Witness Point | An inspection which must be witnessed by the Superintendent | SCP | Survey conformance point | A qualified surveyor to check product/section/structure and report |
| AP | Approval Point | Written or verbal approval given by the Superintendent | | | |

| Notes | | | |
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