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

| **Item**  **No.** | **Task/Activity Description** | **Inspection/Test** | | | | | **HP/ WP/ AP/ IP/ TP/ SCP** | **Responsibility**  Project Engineer  Principal’s Representative  Surveyor  Foreman | **Checked by:** | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Frequency** | **Acceptance Criteria** | **Reference Documents** | **Inspection/ Test Method** | **Record of conformity** | **ADB Safegate** | **Principal’s Rep.** | **FH** | **Date** | |
| **1.0** | **Preliminary Works** | | | | | | | | | | | | |
| 1.1 | Enabling works | Prior to Start | The contractor shall provide enabling work details for approval before commencing of any works where existing services to taxiways not part of the works will be affected. | ZULU-BECA-001-SPC-00003 | Verify | Letter of Approval | **AP** | Project Engineer / ADB Safegate / **Principal’s Representative** |  |  |  |  | |
| 1.2 | AGL control system | Prior to Start | Changes to existing AGL or new AGL being integrated into the existing system must be done so in a manner, which allows continual operation of the existing system.  Prepare and submit for review, a detailed implementation plan showing proposed works methodology allowing continual operation of existing systems. This plan must include contingency to revert to a suitable system in the event of faults. | ZULU-BECA-001-SPC-00003  Cl 9.6 | Verify | Works Methodology Plan Submission Reference | **AP** | Project Engineer / ADB Safegate / **Principal’s Representative** |  |  |  |  | |
| **2.0** | **Testing & Commissioning** | | | | | | | | | | | | |
| 2.1 | Constant current regulators | Each Lot | Commissioning shall include:   * Checking all connections * Input voltage check * Output tapping check * Open circuit trip * Over Current trip * Brilliancy Check * Lamp Outage alarms (if applicable) * Earth Fault Alarms (If applicable) | ZULU-BECA-001-SPC-00003  Cl 4.8 | Verify | Commission-ing Checklist | **TP** | Project Engineer / ADB Safegate |  |  |  |  | |
| 2.2 | Circuit insulation tests | Each Lot | The minimum acceptable reading is 1 Giga-Ohm to earth initially upon cable installation and 500 Meg-Ohm to Earth after at completion of the defects liability period  Readings shall be taken before  and after the following task:  a) each new section of cable is laid  b) each section of cable is jointed and buried  c) the connection of the SITs into the circuit  d) prior to connection into supply feeders by others  e) before any “return to service”  Tests to be performed as per the works procedure. | ZULU-BECA-001-SPC-00003  Cl 9.6 | Verify | Test Report | **TP** | Project Engineer /  ADB Safegate / **Principal’s Representative** |  |  |  |  | |
| 2.3 | Photometric performance | Each Lot | Photometric output performance of all AGL light fittings to be in accordance with the requirements of MOS 139. | ZULU-BECA-001-SPC-00003  Cl 4.4.3 | Verify | Test Report | **TP** | Project Engineer /  ADB Safegate / **Principal’s Representative** |  |  |  |  | |
| **3.0** | **Post Construction Submissions** | | | | | | | | | | | | |
| 3.1 | AGL components list & spare parts | Prior to Practical Completion | The Contractor shall supply spare equipment as detailed in the cl 11.3 of Zulu Spec Volume 3. A spares Bill of Quantities (BoQ) shall be provided to APAM OPS at the beginning of the project and be handed over to APAM OPS with a signed hand over sheet at the completion of the project.  Spare equipment shall be as per the levels stated below at the end of the designated Defects Liability Period.  All spares shall be delivered to Building 52 and evidence of quantities and types of spares including handover to APAM OPS shall be included within the Operation and Maintenance Manuals. | ZULU-BECA-001-SPC-00003  Cl 11.3 | Verify | Component List Submission Reference | **IP** | Project Engineer /  ADB Safegate |  |  |  |  | |
| 3.2 | Training airfield maintenance | Prior to Practical Completion | Provide training on all equipment installed under the project to the satisfaction of the airfield maintenance team.  Such instruction shall be at a time and for a period  as necessary to demonstrate the operation and maintenance requirements for all installed equipment  and make the APAM/APAM OPS personnel competent in operating and maintaining those systems.  Contractor to submit a training plan outlining items to be covered during training. | ZULU-BECA-001-SPC-00003  Cl 9.10 | Verify | Operating and Maintenance Manual | **IP** | Project Engineer /  ADB Safegate |  |  |  |  | |
| 3.3 | Certificate of electrical safety | Prior to Practical Completion | Submission of a certificate of electrical safety for all new electrical systems installed in the project | ZULU-BECA-001-SPC-00003  Cl 10.5 | Verify | Certificate of Electrical Safety | **IP** | Project Engineer /  ADB Safegate |  |  |  |  | |
| 3.4 | Handover documentation | Prior to Practical Completion | Submission of all quality assurance documentation including as-builts and schedules to the Project Manager.  Information provided shall include:   * Circuit details including cable route, loading, Quantity per conduit, origin & destination. * Number of series transformers and location of joints. * Equipment and materials used. * Testing and commissioning values for all modified or new equipment. | ZULU-BECA-001-SPC-00003  Cl 11 | Verify | Submission Reference | **HP\*** | Project Engineer |  |  |  |  | |
| 3.5 | Acceptance Testing | Prior to Practical Completion | **HOLD POINT**  Submission of the results and records of the commissioning as well as any further commissioning testing shall be undertaken in the presence of Contract Administrator and representatives of APAM | ZULU-BECA-001-SPC-00003  Cl 9.7 | Verify | Letter of Compliance  Primary Circuit Commissioning Sheet (Testing of Primary Circuits: Existing + New for IR, Continuity)  JCOES (Electrical Safety Certificate for compliance with Electrical Safety Act 1998 and Electrical Safety (Installations) Regulations 2009)  Light Fitting MOS/NATA Reports (Covers MOS compliance for fitting brilliancy)  O&M Manuals for Materials Installed  All standard AS/NZS 3000 cable tests on all power supplied cables  Additional – AC 139.C-11 V1.0 Ground check report to satisfy requirements around ‘flight testing’ etc. | **HP** | Project Engineer / ADB Safegate / BECA |  |  |  |  | |
| **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:**

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| **HP** | Hold Point | Work shall not proceed past the HP until released by the Principal’s Representative | **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 Principal’s Representative | **SCP** | Survey conformance point | A qualified surveyor to check product/section/structure and report |
| **AP** | Approval Point | Written or verbal approval given by the Principal’s Representative |  |  | |

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| **Notes** |  |  |  |  |