


Client: Melbourne Airport		Contract No: CP14038		Prepared By: Giuliano Follacchio	
Project: Taxiway Zulu Program			Reviewed By: Jason Lee		Date: 06/11/2024
Construction Process: AGL General Works, Testing & Commissioning			Approved By: Giuliano Follacchio		Date: 06/11/2024
Specifications: ZULU-BECA-001-SPC-00003					
Structure / Component: AGL					

Lot No:	Lot Details:	Lot size/Quantity:	Date:
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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	Principals 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 CI 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	ZULU-BECA-001-SPC-00003	Verify	Commission-ing Checklist	TP	Project Engineer / ADB Safegate				

		Inspection and Test Plan - Control and Supervision of the Works		Doc ID: FH-ZU2-QU-ITP 026 REV: 0	
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			- Output tapping check - Open circuit trip - Over Current trip - Brilliancy Check - Lamp Outage alarms (if applicable) - Earth Fault Alarms (If applicable)	CI 4.8								

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2.2	Circuit insulation tests	Each Lot	<p>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</p> <p>Readings shall be taken before and after the following task:</p> <p>a) each new section of cable is laid</p> <p>b) each section of cable is jointed and buried</p> <p>c) the connection of the SITs into the circuit</p> <p>d) prior to connection into supply feeders by others</p> <p>e) before any "return to service"</p> <p>Tests to be performed as per the works procedure.</p>	ZULU-BECA-001-SPC-00003 CI 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 CI 4.4.3	Verify	Test Report	TP	Project Engineer / ADB Safegate / Principal's Representative				

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3.0	Post Construction Submissions											
3.1	AGL components list & spare parts	Prior to Practical Completion	<p>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.</p> <p>Spare equipment shall be as per the levels stated below at the end of the designated Defects Liability Period.</p> <p>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.</p>	ZULU-BECA-001-SPC-00003 CI 11.3	Verify	Component List Submission Reference	IP	Project Engineer / ADB Safegate				
3.2	Training airfield maintenance	Prior to Practical Completion	<p>Provide training on all equipment installed under the project to the satisfaction of the airfield maintenance team.</p> <p>Such instruction shall be at a time and for a period</p>	ZULU-BECA-001-SPC-00003 CI 9.10	Verify	Operating and Maintenance Manual	IP	Project Engineer / ADB Safegate				

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			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.									
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 CI 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: <ul style="list-style-type: none"> - Circuit details including cable route, loading, Quantity per conduit, origin & destination. - Number of series transformers and location of joints. - Equipment and materials used. 	ZULU-BECA-001-SPC-00003 CI 11	Verify	Submission Reference	HP*	Project Engineer				

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			- Testing and commissioning values for all modified or new equipment.									
3.5	Acceptance Testing	Prior to Practical Completion	<u>HOLD POINT</u> 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 CI 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	HP	Project Engineer / ADB Safegate / BECA				

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						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.						

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			

Notes	
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