

Client: Melbourne Airport

Contract No: CP14038-01

Prepared By: Jihad Barbar

Project: Taxiway Zulu

Reviewed By: Jamal Khodr

Date: 11/12/2024

Construction Process: IWDI Pole Install

Approved By: Marco Poggenberg

Date: 11/12/2024

Specifications: ZULU-BECA-001-SPC-00004

Structure / Component: AGL

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			Principal's Rep.	FH	Date
1.0	Preliminary Works										
1.1	Check for Correct Documentation	Prior to start	Ensure that all employees and subcontractors are: - using the correct and complete set of drawings. - all drawings are the latest revision.	Drawings / Aconex Register	Verify	Drawings and drawing registers	HP*	Project Engineer / Site Engineer			
1.2	Implementation of all measures and controls	Prior to start	All necessary measures and controls being implemented, that is PSP, EMP, TMP, SWMS & WP	PSP, EMP, TMP, JSEA, SWMS, WP	Visual Inspection	This ITP signed	HP*	Project Engineer / Site Engineer			
1.3	Pre-lift preparation	Prior to start	Prior to Franna lift, the below shall be completed: <ul style="list-style-type: none">APAM Crane PermitMobile Crane ChecklistLift Study (if required)Certification of any lifting lugs/beams/spreaders (if required)Pre lift checklist	PSP, EMP, TMP, JSEA, SWMS, WP	Verify	This ITP signed	HP*	Project Engineer / Site Engineer			

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1.4	Material Submissions and Shop Drawings	Prior to start	Submission and approval of the following: <ul style="list-style-type: none"> Pole Structure Windsock (white) Bird Spikes LED Lamps Isolating Switch Surge Arrestor 	Drawing 07503	Verify	This ITP signed Aconex Reference	HP*	Project Engineer / Site Engineer			
2.0	Installation										
2.1	Pole Install	Each Lot	Pole installed level as per manufacturers specification and design drawings. Rag bolt nuts secured firmly and torqued as per manufacturers specification.	Manufacturers spec Drawing 07503	Visual Inspection	This ITP Signed Avionics Checklist	IP	Site Engineer / Foreman			
2.2	Cabling Works	Each Lot	Install cabling, isolating switch, surge arrestor, earthing and termination box	Drawing 07503	Visual Inspection	This ITP Signed Avionics Checklist	IP	Site Engineer / Foreman			
2.3	Lighting	Each Lot	Install and connect LED lamps	Drawing 07503	Visual Inspection	This ITP Signed Avionics Checklist	IP	Site Engineer / Foreman			

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2.4	Windsock Barrel & Bird Spikes	Each Lot	Windsock & Barell installed and secured to pole, ensuring the windsock is installed 6500mm from the ground as per MOS139 Stainless steel bird spikes installed to floodlight mounting arms	Drawing 07503 MOS139	Visual Inspection	This ITP signed	HP*	Site Engineer / Foreman			
2.5	Assembly	Each Lot	Demonstrate the lowering of pole and making sure the mast assembly isn't damaged when lowering.	Aconex BecaCPL-GCOR-001356	Visual Inspection	This ITP signed	IP	Site Engineer / Foreman			
3.0	Testing and Commissioning										
3.1	Energise IWDI	Each Lot	Perform relevant cable tests prior to energization (not limited to): <ul style="list-style-type: none"> Polarity Check Cable Loop Resistance (Ohms) Insulation Resistance (Core-Core& Core to Earth) Confirm all test measurements are within AS3000 tolerances.	AS3000	Verify	Certificate of Electrical Safety (Non- Prescribed) (CES) Avionics ITC	TP	Site Engineer / Foreman			

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3.2	Testing – Lux Measurement Testing Grid	Each Lot	WITNESS POINT Provide 7 days notice to Principals Rep to attend IWDI shall be fully tested by continuous operation for not less than 24 hrs as a completed system prior to acceptance. The IWDI shall illuminate properly during each portion of the test. LED Lamps to be tested as per MOS139, with each reading between 100 to 600 lux within the testing grid.	ZULU-BECA-001-SPC-00003 cl. 4.6 MOS139	Verify	This ITP signed Test Results Letter of Conformity Avionics ITC	TP WP	Site Engineer / Foreman			
3.3	Testing – Glare/Distracton to Pilots	Each Lot	From an observer's standing position on ground that is level with the base of the pole there should be no glare at a range of 25 m or more. The assessment need only be made from those directions likely to be viewed from landing, taking-off or taxiing aircraft. Qualified individual includes an electrical engineer or a licensed electrician	ZULU-BECA-001-SPC-00003 cl. 4.6 MOS139	Verify	This ITP Signed Avionics ITC	TP HP*	Site Engineer / Foreman			

