		Inspection and Test Plan - Template - AU				Doc ID: FH-927-QU-ITP002	
Client: Australia Pacific Airports Melbourne			Contract No: CP1024		Prepared By: J.Kremers		
Project: Runway 09/27 Overlay					Reviewed By:		Date:
Construction Process: Pavement Markings					Approved By:		Date:
Specifications: Standard Specification for Airside Works (Rev0.1)							
Structure / Component: Linemarking Application and Removal							

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 Superintendent Surveyor Foreman	Checked by:			
		Frequency	Acceptance Criteria	Reference Documents	Inspection/ Test Method	Record of conformity			Client	Fulton Hogan	GHD	Date
1	Materials											
1.1	Supply of paints for pavement marking.	Not less than 1 month prior to the commencement of pavement marking.	Submission of conformance test reports for the proposed paints to the Contract Administrator which demonstrate compliance to Section 2 of this ITP.	CI 7103(b) HP7103-1	Document	Aconex Submission	HP	Site Engineer				
2	Paint Properties											
2.1	Runway marking paint and taxiway and apron marking paint type and packaging	Prior to the commencement of pavement marking works.	Paint is pre-mixed acrylic co-polymer water-based paint, packaged in 20 L containers. Containers are of durable construction and labelled with manufacturer's name and a complete description of the contents. Paint is of a consistency suitable for application by brushing and spraying, and capable of being used as supplied or diluted with water. Dilution information and coverage is stated by the manufacturer on the packaging.	CI 7103(a)(c)(d)(h)	Inspection	This ITP signed by Contractors Quality Representative	IP	Site Engineer				
2.2	Condition upon delivery	Prior to the commencement of pavement marking works, at the time of delivery of paint.	Hand stirring of the paint readily produces a smooth uniform product.	CI 7103(f)(g)(i)(j)(k)	Inspection	This ITP signed	IP	Site Engineer				

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2.3	Paint Surface Finish	Prior to the commencement of pavement marking works.	The dried surface of painted areas on aircraft aprons is not slippery under foot. The surface finish of the dried film of paint is a non-gloss matte finish.	CI 7103(l)(m)	Inspection	This ITP signed	IP	Site Engineer				
3.0	Trials											
3.0	Demonstration of process and equipment for removal of pavement paint markings.	Not less than 1 working day prior to the commencement of full-scale paint removal works. Prior notice (24 hours minimum) of trial to be given to Contract Administrator.	A trial conducted in an area agreed with the Contract Administrator of not less than 5 m2 demonstrates removal of pavement marking without chemical methods, without causing disintegration of the pavement surface and in compliance with the requirements of Section 4 of this ITP.	CI 7104(f) HP7104-F	Inspection	This ITP signed by Contract Administrator	HP	Site Engineer				
4.0	Removal of Pavement Paint Markings											
4.1	Plant Performance Check	Prior to the commencement of paint marking removal work in each work period.	All plant is in working order, free from leaks, and capable of removing all paint from the pavement surface without filling voids with debris, removing joint sealants or otherwise damaging the pavement surface.	CI 7104(b)(c) WP7104-1	Inspection	Daily Plant Verification Checklist	WP	Site Engineer				

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4.2	Weather Conditions	Prior to the commencement of paint marking removal work in each work period.	Pavement surface is free of snow, ice or slush, with a surface temperature of at least 5oC and rising at the beginning of operations (except for where shot- or sand-blasting is used for which a lower surface temperature may be accepted). Work is not occurring during a thunderstorm. Work is not occurring during rainfall, except for water-blasting and removal of previously applied chemicals.	CI 7104(e)	Inspection	This ITP signed by Contractors Quality representative	IP	Site Engineer				
4.3	Surface Texture	Prior to the commencement of paint marking removal work in each work period.	The surface texture of the cleaned removal area is comparable to a standard area of pavement in the removal trial area selected by the Contract Administrator.	CI 7104(f)	Inspection	This ITP signed by Contractors Quality representative	IP	Site Engineer				
4.4	Clean up and waste disposal	At the completion of paint marking removal work in each work period.	Debris and waste materials have been collected, removed from site and disposed of at an appropriately licensed waste disposal site.	CI 7104(f)	Inspection	This ITP signed by Contractors Quality representative	IP	Site Engineer				
5.0	Application of Pavement Markings											

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5.1	Setting out of pavement markings	At the completion of setting out and prior to application of pavement markings. Prior notice (minimum 24 hours) of commencement of setting out is given to the Contract Administrator.	Survey for setting out new pavement markings has been completed as shown on the Drawings by a suitably qualified surveyor, to a horizontal accuracy of ± 25 mm. Spotting indicates the location and extent of new markings in sufficient detail for the painting of the required markings to the tolerances specified.	CI 7105 HP7105-1	Inspection / Statement of compliance by contractor's PQR	This ITP Signed by Contract Administrator	HP	Site Engineer				
5.2	Surface preparation	Prior to the commencement of pavement marking in each work period. Prior notice (minimum 24 hours) of the commencement of pavement marking is given to the Contract Administrator.	The surface to be painted has been thoroughly cleaned using vacuum sweepers, hand brooming, and/or high pressure water jetting as required, and all existing paint not strongly adhering to the pavement has been removed.	CI 7106(b) HP7106-1	Inspection / Statement of Compliance by Contractor's PQR	This ITP Signed by Contract Administrator	HP	Site Engineer				
5.3	Weather conditions	Prior to the commencement of pavement marking in each work period.	The pavement surface is not wet and wet weather conditions are unlikely during the work period, the air and pavement temperatures are not less than 15oC, the relative humidity is not greater than 85%, the wind speed is not greater than 20km/hr,	CI 7106(c)	Inspection	This ITP Signed by Contract Administrator	IP	Site Engineer				

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			and wind conditions are unlikely to affect the application of the paint.									
5.4	Pavement marking adjacent to in-pavement light fittings	During pavement marking works.	Any in-pavement light fittings in the vicinity of pavement marking works have been protected to avoid contamination with paint. Markings in line with light fittings extend to the edge of the fitting but not on to the fitting. The gap between the end of painted line and edge of a light fitting is not more than 25 mm.	CI 7106(d)	Inspection	This ITP signed by Contractor Quality representative	IP	Site Engineer				
5.5	Application of Paint	During Pavement works.	Paint is applied by spraying, except for small markings, isolated repairs, and stencilling of letters and numerals where brushing is permitted. Paint is applied in 2 even coats to give a minimum total dry film thickness of 120 µm. The edges of markings are straight or smooth even curves, with crisp even lines without side spatter at the edges and ends of markings.	CI 7106(d)	Inspection	This ITP signed by Contractor Quality representative	IP	Site Engineer				
5.6	Application of glass beads	During Pavement Works.	Glass beads are not used on any pavements with the exception of	CI	Inspection	This ITP signed by	IP	Site Engineer				

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			areas specified within standard MAS-CVL-002 for Pavement & Pavement Markings (Airside). Where glass beads are specified on taxiway pavement markings, the minimum application rate is 300 g/m ² .	7106(d) SP7103(n)		Contractor Quality representative						
5.7	Paint Application	At the completion of paint marking removal work in each work period.	Paint usage and area of coverage for each work period are recorded.	CI 7107	Inspection	Daily Shift Report.	IP	Site Engineer				
5.8	Daily records of Paint Usage and Area covered.	Each shift	Daily records of paint usage and the area covered must be maintained by the Contractor to ensure that the specified application rate of the paint is being achieved consistently.	CL7107	Review of Daily Records.	This ITP Signed by Contractors Quality representative.	IP	Site Engineer				
5.9	Removal of Non-conforming Pavement markings	As required	Any pavement markings that do not comply with the requirements of this Specification must be deemed non-conforming and must be removed by the contractor in accordance with the requirements of Clause 7104 and reinstated.	CL7108	Verification of Removal	This ITP Signed by Contract Administrator	WP	Site Engineer				

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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: / /
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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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