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MAINTENANCE PROGRESS

We are pleased to provide members of the public with more information on the new maintenance method we have been piloting over the last few months.

Grouting injection has been introduced to replace the installation of precast slabs. The pilot project began in August 2015 at Bay Q17 and has proven to be a success.



A part from causing less disruption to airport operations as no open excavation works is required, it also showed significant improvement in the occurrence of sudden depression - whereby it has reduced from 14mm to 9mm per month.

GROUTING INJECTION WORKS

What is grouting injection?

Grouting injection is a process of filling the cracks, voids or honeycombs, either in or underneath concrete, with cement grout in order to reduce the severity of the depression.

Comparison between grouting injection and precast slab

	GROUTING INJECTION	PRECAST SLAB
Work Duration	1 week per bay	4 weeks per bay
Work Method	 <ul style="list-style-type: none"> No excavation required. Only drilling and injection works Does not require movement of heavy machineries Quick curing period* (24 hours) 	 <ul style="list-style-type: none"> Requires open trench excavation Requires movement of heavy machineries (backhoe, breaker, lorry) Long curing period* (28 days)

* Curing period is the length of time an area can be reopened for operations after work have been completed.

Maintenance Masterplan and its current progress as at 30 November 2015

50 locations have been identified for grouting injection. As at 30 November 2015, five out of nine locations scheduled for grouting injection works in 2015 have been completed.



GROUTING INJECTION MASTERPLAN

Total number of locations:
2015 - 9
2016 - 41 } 50 Locations

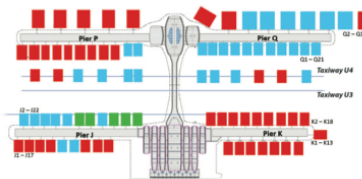
Taxiway
4 locations

Parking Apron
46 Bays

2015 - 0 Locations
2016 - 4 Locations

2015 - 9 Bays
2016 - 37 Bays

PROGRESS OF GROUTING INJECTION FOR 2015



Completed Area (Precast Slab)
Completed Area (Grouting Injection)
Planned Area (Grouting Injection)

Completed:
5 locations (56%)
- Bay:
5/9 bays (56%)



IMPROVEMENT ACHIEVED



Bay J02 free from water ponding after the completion of grouting injection works.



Bay J04 free from water ponding after the completion of grouting injection works.



Malaysia Airports takes our responsibility towards public safety very seriously. Thank you for your patience and understanding.