

OAN 114/2018 MAN-TP PP16 HV & AGL PIT & DUCT INSTALLATION

This OAN replaces OAN 106-2018 with immediate effect.

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|------------------------------|----------|------------------------|------------|-------------------------|------------|
| OAN REF:- | 114/2018 | DATE OF ISSUE:- | 13/11/2018 | EFFECTIVE DATE:- | 13/11/2018 |
| MANUAL REFERENCE(S):- | N/A | | | EXPIRY DATE:- | 19/02/2019 |

PLEASE ENSURE THIS INFORMATION IS PROMULGATED TO ALL STAFF

1.0 SUMMARY

- 1.1 As part of the MAN-TP transformation, a seventeen-week programme of works to install new pits and ducts for High Voltage (HV) and Aeronautical Ground Light (AGL) cables from the existing Substation B1D at Stand 101 to the new Substation A1 under construction at the head of Stand 61.

2.0 PROGRAMME

- 2.1 The overall programme of work will commence on Thursday 25th October until Tuesday 19th February 2019. Day shifts will be Monday to Friday, working 07:00-18:00; night shift will be Sunday to Thursday, working hours 22:00-06:00 local.

2.1.1 Day shift programme of works

| | Start date | Task | Days | Operational considerations |
|----|------------|---|------|---|
| 1 | 25/10/18 | Dig new launch/receive pits Std 101 & 61 | 2 | Work within compounds. |
| 2 | 29/10/18 | Directional drill recommences | 30 | 4 Short closures of TWY Delta. |
| 3 | 29/10/18 | Duct run A1 Substation to edge of WMA PQ. | 5 | 20 min notice required for A/C to access WMA. |
| 4 | 13/11/18 | Duct run across WMA access | 3 | WMA TWY closed. Access for emergency vehicles. |
| 5 | 16/11/18 | Duct run DP04 to edge of WMA PQ. | 3 | 20 min notice required for A/C to access WMA. A380 dep. |
| 6 | 21/11/18 | Duct run from DP05 to DP04 | 3 | RFFS emergency track open. A380 dep |
| 7 | 27/11/18 | Install DP05 | 3 | RFFS emergency track open. A380 dep |
| 8 | 30/11/18 | Install DP04 | 3 | RFFS emergency track open. A380 dep |
| 9 | 05/12/18 | Install DP013 | 3 | Within compound on Std 61. |
| 10 | 10/12/18 | Install HV cables DP05 to substation A1 | 2 | RFFS emergency track open. A380 dep |
| 11 | 10/12/18 | Install DP01 | 5 | Within compound on Std 61. |
| 12 | 17/12/18 | Backfill launch pit and reinstate PQ | 5 | Within compound on Std 61. |
| 13 | 17/12/18 | Install DP06 | 3 | Within compound Stand 101 |

2.1.2 Night shift working hours

| | Start date | Task | Days | Operational considerations |
|----|------------|---|------|---|
| 1 | 01/11/18 | Excavate and lay ICT ducts DP11-DP10 | 3 | |
| 2 | 06/11/18 | Duct run DP11 to DP12 | 3 | D4-D5 downgraded to Code E ASTL Stand 100 closed |
| 3 | 11/11/18 | Duct run DP10 to existing pit abeam TWY Lima | 2 | TWY Lima closed Std 21-6 Night stopping A/C |
| 4 | 13/11/18 | Install DP12 | 3 | D4-D5 downgraded to Code E ASTL |
| 5 | 18/11/18 | Install DP11 | 3 | Outside ASTL Code E strip (40m) |
| 6 | 21/11/18 | Install DP10 | 3 | Outside ASTL Code E strip (40m) |
| 7 | 25/11/18 | Duct run from DP12 to existing pit in road. <i>(Contractor to advise when PQ is trafficable)</i> | 6 | TWY Delta closed D5 D/L junction Std 100 entrance closed Traffic management required. |
| 8 | 25/11/18 | Duct run DP12 to existing pit D-IC-2 <i>(Contractor to advise when PQ is trafficable)</i> | 14 | Std 100 entrance closed Road closures |
| 9 | 11/12/18 | Install HV cable DP12 to existing pit near DP10 | 4 | Stand 100 entrance closed |
| 10 | 17/12/18 | Install HV cable DP12 to existing pit D-IC-2 | 2 | TWY Delta closed D5-D/L junction |
| 11 | 17/12/18 | Duct run DP06 to existing AGL pit | 4 | Within compound Stand 101 |
| 12 | 21/12/18 | Install AGL cabling | 35 | Within compounds |

3.0 LOCATION & SCOPE OF WORKS

3.1 All works will be located around Stand 100, in the UKPNS compounds on Stands 101 and 61, in the grass in front of the Air Traffic Control (ATC) tower and across the entrance into the Western Maintenance Area (WMA).

3.2 The overall scope of works will involve the following tasks:

- Install marker posts at 40m from Taxiway (TWY) Delta and Lima centrelines.
- Excavation of launch and receive pits Stand 61 & Stand 101.
- Directional drilling from Stand 61 to Stand 101.
- Excavation and installation of pits.
- Excavation of trenches and installation of ducts.
- Excavation and connection to existing pits in TWY's Lima & Delta strips.
- Cable pull.

4.0 OPERATIONAL IMPLICATIONS

4.1 Stand Closures and Restrictions

4.1.1 Stand 101 will be closed for the duration of the works. Access to the B1d substation will be maintained for engineering staff.

- 4.1.2 Stand 100 will be closed for the concrete excavation/reinstatement across the mouth of the stand. It may be possible to park aircraft on Stand 100 at times by pushing them back into the stand via TWY Lima with Airfield Operations assistance. No aircraft to taxi off Stand 100 during the excavation works.
- 4.1.3 The access road from Stand 61 to 100 will be closed for two nights while the duct is excavated from DP12 to D-IC-2. UKPNS Site Supervisor will advise ADM of nights affected. *See item 8 of night shift programme.*
- 4.1.4 Traffic management may be required while the duct run from DP12 to the existing pit in the road between Stand 100 and Stand 61 is connected. *See item 7 of night shift programme.*

4.2 Taxiway closures and Restrictions

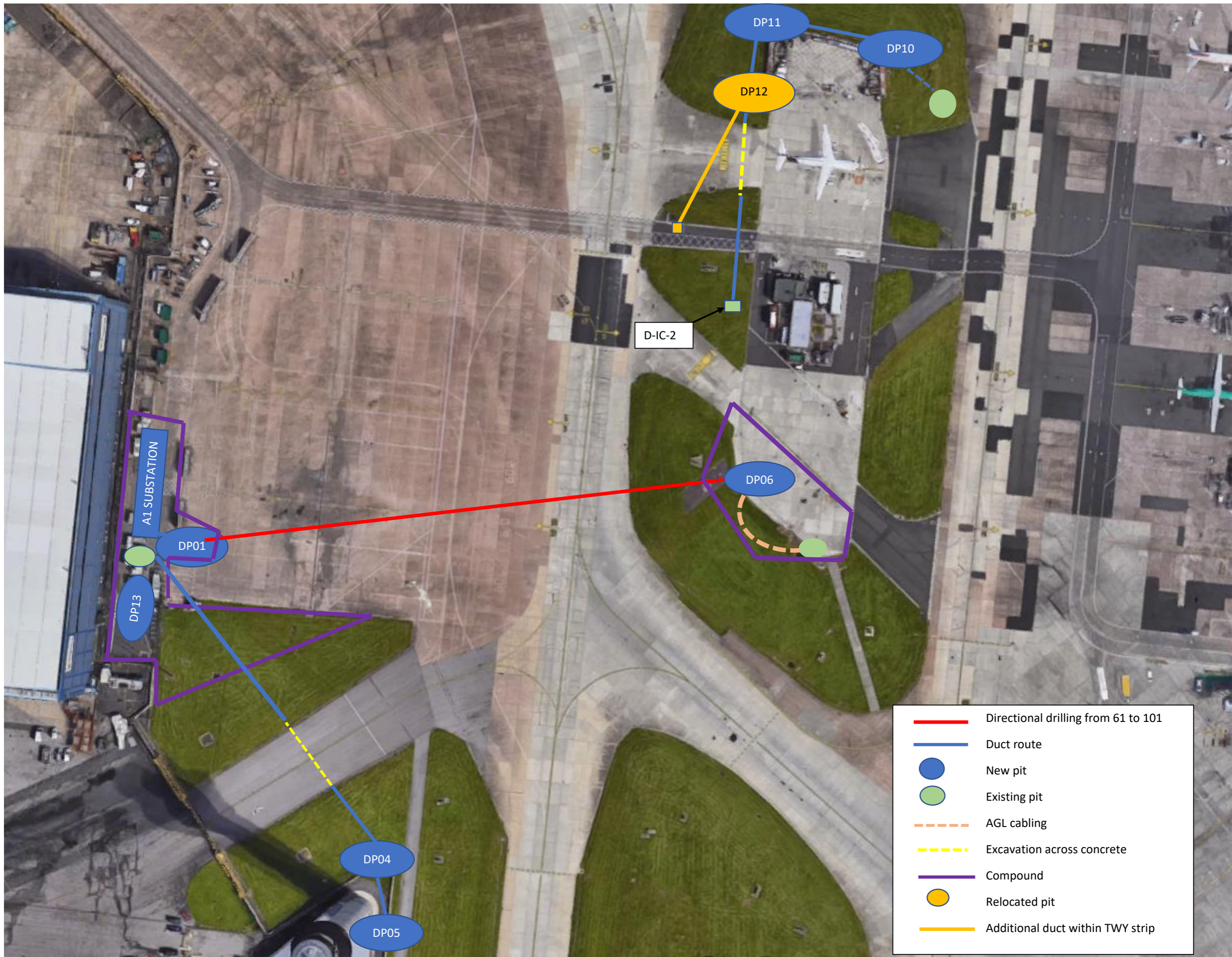
- 4.2.1 When the A380 is required to pushback through D4 to taxi through A5, for an 05L departure, (See Aircraft Pushback Procedures - Revision X), an ASCO is to contact and remove the contractors working between DP05 and DP04 before the aircraft pushes. They must remain clear of the area until the aircraft has taxied away.
- 4.2.2 TWY Lima will be closed for three nights between Stands 6 and 21 for the excavation of a duct route and connection to an existing pit. Night stopping aircraft will be parked on Stands 21, 2 & 4. *See item 3 of night shift programme.*
- 4.2.3 TWY Delta will be closed from D5 to its junction with TWY Lima during the duct excavation from DP12 to existing pit in road. *See item 7 of night shift programme.*
- 4.2.4 TWY Delta, between D4 and D5 will be downgraded to a Code E Taxilane (ASTL) (40m from centreline to object) at times. *See items 2, 4, 5, 8 & 9 of night shift programme.*

NB. The night time downgrading/closure of TWY Delta may be delayed if any Code F aircraft require to taxi through D5.

- 4.2.5 The drilling contractor is required to walk out across the taxiway from Stand 61 to Stand 101 whilst the directional drilling pilot holes are carried out for each duct. This will require a short closure of Taxiway Delta three or four times for each pilot drill and will be coordinated through the ADM and ATC for each run. There will be four runs carried out between 29th October and 7th December.

4.3 Western Maintenance Area

- 4.3.1 Access/egress for aircraft to the WMA will not be available from 13th November 2018 for three days whilst the taxiway is excavated to install HV ducts. All affected parties will be notified by the Jacobs Project Manager. Emergency vehicle access will be maintained throughout the work. *See item 4 of day shift programme.*



- Directional drilling from 61 to 101
- Duct route
- New pit
- Existing pit
- AGL cabling
- Excavation across concrete
- Compound
- Relocated pit
- Additional duct within TWY strip