

Project Hand Back Process Overview

Gatwick Station Project

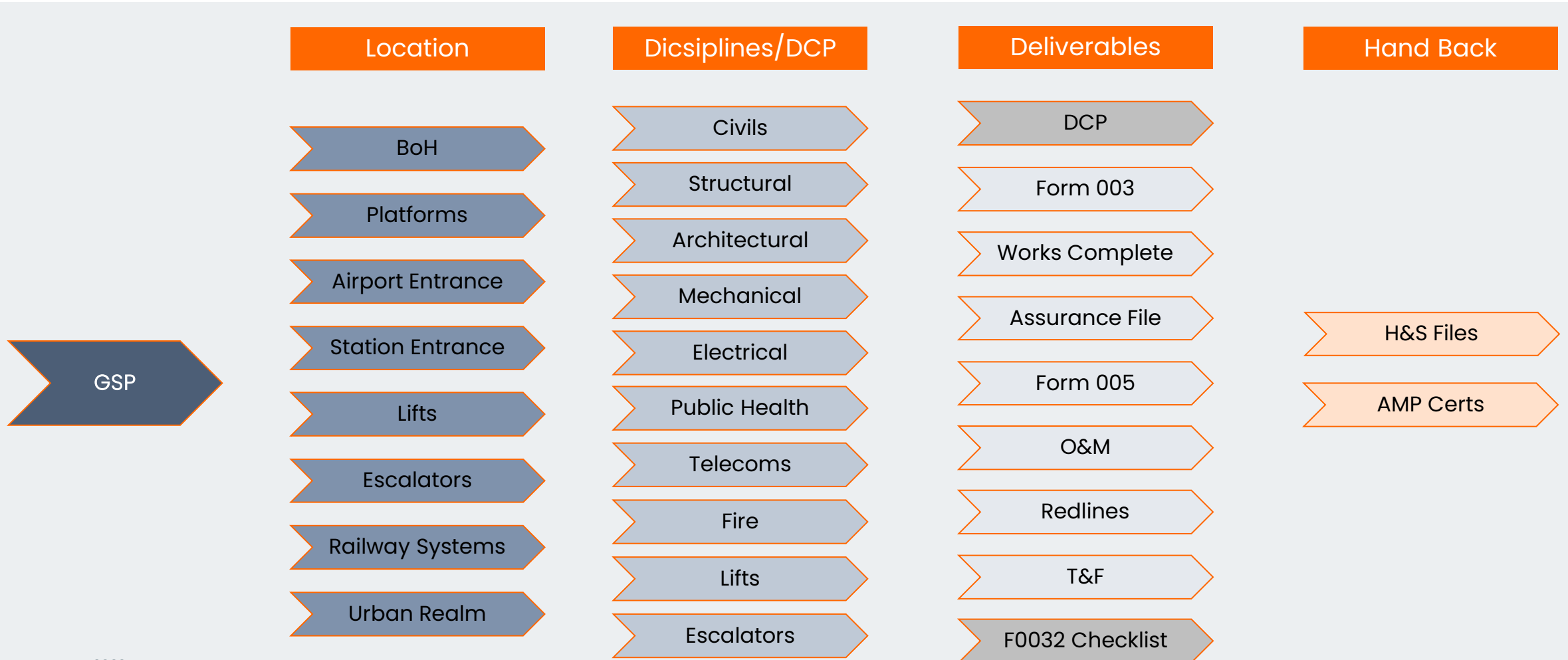
Costain | Network Rail | GTR | GAL

14th August 2023 | Version 01



Spatial Breakdown for Assurance

Breakdown for Discipline Completion Packs



Discipline Completion Packs

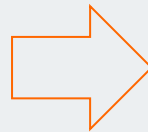
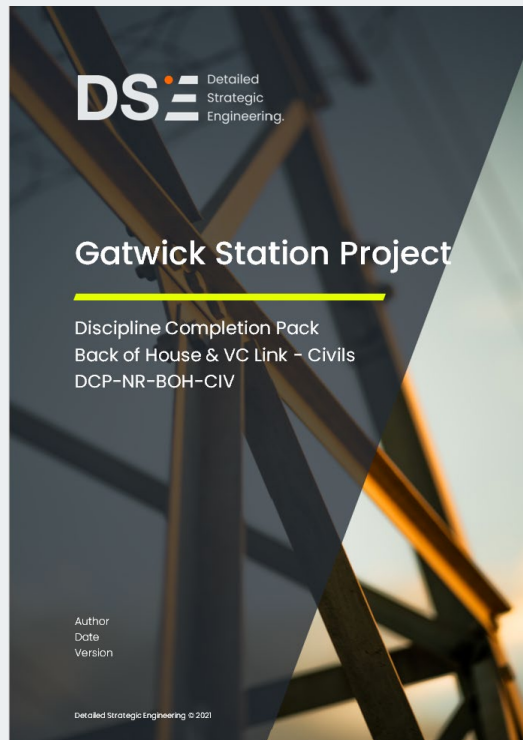
DCP Matrix

| Location | | BoH | PL5/6 | Airport Entrance & PTI Link | Service Core | PL7 | PL1/2 | PL3/4 | Station Entrance & NR Overbridges | BOH Urban Realm | Railway Systems | Lifts PL3/4 PL5/6 PL7 | Escalators 11&12 | Escalators PL7 (4Es) PL5/6 (2Es) AE (1Es) | |
|-------------------|------------------------|--------------------|--------------------|-----------------------------|------------------|----------------|--------------------|-----------------|-----------------------------------|-------------------|-----------------|-----------------------|------------------|---|--|
| Discipline | | | | | | | | | | | | | | | |
| DCP | Civil | DCP-NR-BOH-CIV | DCP-NR-PL96-CIV | DCP-NR-AEC-PTI-CIV | DCP-NR-SC-CIV | DCP-NR-PL7-CIV | | DCP-NR-PL34-STR | | | | | | DCP-NR-PL-CIV | |
| | Structures | DCP-NR-BOH-ST | | DCP-NR-AEC-PTI-STR | | | | | DCP-NR-OB-STR | | | | | | |
| | Architectural int | DCP-NR-BOH-AR-INT | DCP-NR-PL96-AR-INT | DCP-NR-AEC-PTI-AR-INT | DCP-NR-SC-AR-INT | DCP-NR-PL-AR | | | DCP-NR-OB-AR | | | | | | |
| | Architectural ext | DCP-NR-BOH-AR-EXT | | DCP-NR-AEC-PTI-AR-EXT | | | | | | | | | | | |
| | Electrical | DCP-NR-PL12-ELE-01 | DCP-NR-SC-ELE | | | | DCP-NR-PL12-ELE-02 | | | DCP-NR-SC-ELE | | | | | |
| | Telecoms | DCP-NR-SC-ETL-01 | DCP-NR-SC-ETL | | | | | | | | | DCP-NR-RWS-ETL | | | |
| | Mechanical | DCP-NR-BOH-EME | DCP-NR-PL96-EME | DCP-NR-AE-EME | DCP-NR-SC-EME | DCP-NR-PL7-EME | | DCP-NR-PL34-EME | DCP-NR-SE-EME | | | | | | |
| | Fire | DCP-NR-BOH-FR-01 | DCP-NR-SW-FR | | | | | | | | | | | | |
| | Public Health | DCP-NR-BOH-EPH | DCP-NR-PL96-EPH | DCP-NR-AE-EPH | DCP-NR-SC-EPH | DCP-NR-PL7-EPH | | DCP-NR-PL34-EPH | DCP-NR-SE-EPH | | | | | | |
| | Lift | DCP-NR-BOH-LIFT | | | | | | | | | | DCP-NR-PL-LIFT | | | |
| | Escalators | | | | | | | | | | | | DCP-NR-SW-ESC | | |
| | Signalling | | | | | | | | | | DCP-NR-RWS-SIG | | | | |
| | Track | | | | | | | | | | DCP-NR-RWS-TR | | | | |
| | Energisation | | | | | | | | | | DCP-NR-RWS-E&P | | | | |
| | Plant | | | | | | | | | | DCP-NR-RWS-HV | | | | |
| | Foul water drainage | | | | | | | | DCP-NR-SW-FWD | | | | | | |
| | Surface water drainage | | | | | | | | DCP-NR-SW-SWD | | | | | | |
| | Catelines | | | | | | | | DCP-NR-CUB | | | | | | |
| | Urban Realm | | | | | | | | | DCP-NR-BOH-AR-URB | | | | | |
| | AMP 015/16 | Buildings | 1 | 1 | 1 | | | | | | | | | | |
| Telecoms | | 1 | 1 | | | | | | | | | | | | |
| Lift & Escalators | | 1 | | | | | | | | | | 1 | | 1 | |
| STEP | | | | | | | | | | | 4 | | | 1 | |

Discipline Completion Packs

DCP structure

For each given zone according to the spatial breakdown and discipline, the DCP compiles all assurance certification from design to completion, mirroring the structure of the H&S file



| DCP Section | Deliverable/Product |
|-------------------------|---------------------------------------|
| Residual Risk | Residual Risk Register |
| Red Lines / As Builts | As Builts |
| T&F | Training & Familiarisation |
| Operational Assets | System O&M |
| Construction Validation | Form 005 |
| Reports | i.e. Inspection Reports |
| Location of Works | Location Sketch / Photographic report |
| Completion of Works | Assurance Files |
| Accepted Design | Form 003 & AFC |

DCP – Progress Report Dashboard

GATWICK STATION PROJECT

DCPs

Report Date

09/08/2023

| Total required | Issued | Accepted by NR | Accept. by HoA |
|----------------|--------|----------------|----------------|
| 10 | 5 | 5 | 3 |

Discipline

Architectural

Civils & Structural

MEPT

RWS

Location

(Blank)

PL

AE

BOH

RW

SE

L&E

Weekly update

Comments

- BoH Telecoms DCP - DCP inspection scheduled for this week
- BoH Public Health & Mechanical DCP - all snags closed, Carl Blinco has agreed to sign in person on next site visit
- BoH Electrical DCP - awaiting completion of assurance pack and final review and inspection
- BoH Lift DCP ready to go once final assurance submitted
- DCPs being targeted for inspection next week are:
 - AEC & PTI Link Structural & Civils
 - Platform 3/4 Structural & Civils
 - Platform 5/6 Structural & Civils
 - Platform 7 Structural & Civils

| DCP ID | Location | Discipline | Complete on site | Works complete | Percentage Complete | F003s required | F003s submitted | F003s accepted | F005s required | F005s submitted | Assurance files required | Assurance files submitted | Assurance files accepted | Redlines required | Redlines submitted | Redlines accepted |
|-------------------|---------------|------------------------|------------------|----------------|---------------------|----------------|-----------------|----------------|----------------|-----------------|--------------------------|---------------------------|--------------------------|-------------------|--------------------|-------------------|
| DCP-NR-BOH-AR-EXT | Back Of House | Architectural external | Yes | 31/07/2023 | 75% | 3 | 3 | 3 | 1 | 1 | 6 | 1 | 0 | 6 | 1 | 0 |
| DCP-NR-BOH-AR-INT | Back Of House | Architectural internal | Yes | 30/04/2023 | 35% | 1 | 1 | 1 | 1 | 1 | 8 | 8 | 5 | 34 | 34 | 21 |
| DCP-NR-BOH-CIV | Back Of House | Civils | Yes | 30/06/2023 | 35% | 1 | 1 | 1 | 1 | 1 | 6 | 1 | 5 | 34 | 6 | 28 |
| DCP-NR-BOH-EME | Back Of House | Mechanical | Yes | 30/11/2022 | 10% | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| DCP-NR-BOH-EPH | Back Of House | Public Health | Yes | 30/11/2022 | 5% | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |
| DCP-NR-BOH-ETL | Back Of House | Telecoms | Yes | 30/11/2022 | 5% | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| DCP-NR-BOH-FR | Back Of House | Fire | No | 01/03/2023 | 20% | 1 | 1 | 1 | 1 | 0 | 1 | 5 | 0 | 0 | 0 | 0 |
| DCP-NR-BOH-LIFT | Back Of House | Lift | Yes | 30/03/2023 | 20% | 1 | 1 | 1 | 1 | 1 | 1 | 8 | 0 | 0 | 0 | 0 |
| DCP-NR-BOH-STR | Back Of House | Structural | Yes | 28/05/2022 | 20% | 3 | 3 | 3 | 1 | 1 | 4 | 5 | 4 | 33 | 41 | 33 |
| DCP-NR-SC-ELE-01 | Back Of House | Electrical | Yes | 12/03/2023 | 35% | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 0 | 0 | 0 | 0 |

Assurance Deliverables - Dashboard

GATWICK STATION PROJECT Assurance Files

Report Date: 09/08/2023

| Status | Location | Total required | Approved | Under review | With NR | With Costain |
|-----------------|--------------------|----------------|----------|--------------|---------|--------------|
| Accepted | AEC | 304 | 137 | 6 | 6 | 15 |
| For Information | BOH | | | | | |
| Not Submitted | NROB | | | | | |
| On hold | Platform 1/2 | | | | | |
| With Costain | Platform 3/4 | | | | | |
| With GAL | Platform 5/6 | | | | | |
| With NR | Platform 7 | | | | | |
| | Platforms 1-7 | | | | | |
| | Platforms 5, 6 & 7 | | | | | |
| | PTI Link | | | | | |
| | RWS | | | | | |
| | Service Core | | | | | |
| | Site Wide | | | | | |
| | Station Entrance | | | | | |
| | Temp | | | | | |

GATWICK STATION PROJECT O&Ms

Report Date: 09/08/2023

| Discipline | Location | Total required | Under Costain review | Issued to NR | Accepted by NR |
|---------------|------------------|----------------|----------------------|--------------|----------------|
| Architectural | Airport Entrance | 32 | 1 | 9 | 7 |
| BL Drainage | BoH | | | | |
| Electrical | Platform 3/4 | | | | |
| Escalators | Platform 5/6 | | | | |
| Fire | Platform 7 | | | | |
| Lift | Platforms | | | | |
| Mechanical | Service Core | | | | |
| Public | Site Wide | | | | |
| Public Health | Station Entrance | | | | |

GATWICK STATION PROJECT Form 005 Lookahead

Report Date: 09/08/2023

| Category | Count |
|--------------------|-------|
| Total Deliverables | 50 |
| On Target | 23 |
| Complete | 13 |
| Overdue | 14 |

| Ref Pbi | Planned Date | Location | Deliverable | Action - Comments |
|---------|--------------|----------|---|---------------------------------|
| ENG93 | 31/07/2023 | SEC | F005 - Station Entrance & NR Overbridges - Public Health | |
| ENG95 | 30/06/2023 | SEC | F005 - Station Entrance & NR Overbridges - Mechanical | |
| ENG66 | 31/07/2023 | SEC | F005 - Station Entrance & NR Overbridges - Civils & Structural | |
| ENG65 | 31/08/2023 | SEC | F005 - Station Entrance & NR Overbridges - Architectural Internal | |
| ENG91 | 31/07/2023 | SW | F005 - Sitewide (PL 5,6,7 & Airport Entrance - Escalators | |
| ENG83 | 31/07/2023 | SW | F005 - Site wide (Platforms 3,4,5,6,7) - Lift | |
| ENG87 | 30/09/2023 | SW | F005 - Site Wide (PL5/6, AE, SC, PL7, PL1/2) - Electrical | |
| ENG67 | 31/07/2023 | SW | F005 - Site Wide (PL3/4 & SE) - Electrical | |
| ENG90 | 31/10/2023 | SW | F005 - Site Wide - Telecoms | |
| ENG69 | 30/09/2023 | SW | F005 - Site Wide - Surface Water Drainage | |
| ENG68 | 30/06/2023 | SW | F005 - Site Wide - Foul Water Drainage | Awaiting final closure of snags |
| ENG92 | 30/09/2023 | SW | F005 - Site Wide - Fire | |
| ENG89 | 31/07/2023 | SC | F005 - Service Core - Public Health | |
| ENG88 | 31/07/2023 | SC | F005 - Service Core - Mechanical | |
| ENG86 | 30/03/2023 | SC | F005 - Service core - Civils & Structural | |
| ENG85 | 31/08/2023 | SC | F005 - Service Core - Architectural Internal | |
| ENG81 | 30/09/2023 | PLW | F005 - Platforms excluding 5/6 - Structural | |
| ENG84 | 26/10/2023 | PLW | F005 - Platforms (excluding 5/6) - Structural | |
| ENG82 | 31/08/2023 | PLW | F005 - Platforms (excluding 5/6) - Civils | |
| ENG80 | 31/07/2023 | PL7 | F005 - Platform 7 - Public Health | |
| ENG78 | 30/09/2023 | PL7 | F005 - Platform 7 - Mechanical | |

GATWICK STATION PROJECT As-Built Drawings Status

Report Date: 09/08/2023

| Category | Count |
|---------------------|-------|
| Total required | 430 |
| As-Built Created | 259 |
| Issued to NR | 25 |
| Approved by Costain | 90 |
| Uploaded to eB | 90 |
| Accepted by NR | 0 |

GATWICK STATION PROJECT Snags / DOWLS

Report Date: 09/08/2023

| Status | 5&6N - Lift | BOH | BOH - Lift | NROB | P1&2 Locker | P7 Escalator | P7 Ramp | SC2 - Platforms | SC3 - Station Entrance | SC3 - Station Entrance - East Gateline | SC3 - Station Entrance - Supporting Acc | SC4 | UKPN | Total |
|--------------|-------------|------------|------------|-----------|-------------|--------------|----------|-----------------|------------------------|--|---|----------|----------|------------|
| Open | 35 | 12 | 1 | 14 | 4 | | | 3 | 2 | 3 | 14 | 1 | 3 | 88 |
| For NR | 145 | 240 | 59 | 20 | 6 | 1 | 2 | 4 | 4 | 12 | 43 | | 1 | 535 |
| Closed | | | | | | | | | | | | | | |
| Total | 180 | 252 | 60 | 38 | 6 | 1 | 3 | 7 | 6 | 15 | 57 | 1 | 4 | 630 |

Weekly update: 19 no. recently closed by John Philbin on Novade, 6 no. remain open with NR

| EIS Location | Status |
|--------------|-------------------------------|
| 5&6N - Lift | NROB |
| BOH | P1&2 Locker |
| BOH - Lift | P7 Escalator |
| | P7 Ramp |
| | SC2 - Platforms |
| | SC3 - Station Entrance - E... |
| | SC3 - Station Entrance - S... |
| | SC3 - Station Entrance |
| | SC4 |
| | Closed |
| | For NR |
| | Open |

Assurance & Certification Deliverables for NR Hand Back

Form F0032 – EIS Checklist

Consents

Catriona Taylor

- Land Purchase
- All 3rd Party consents

Project Delivery

Matt Dick

- ITPs
- AFC
- Redline/As-Built Drawings
- NCRs
- DOWLS
- Assurance Files
- O&Ms
- Training & Familiarisation

Station Operations

Louiza Provins

- GS23
- Trades Union consultation
- Network Changes Process
- Staff Consultation
- Sponsor Review

System Safety

Siraj Ali/Ben Luckin

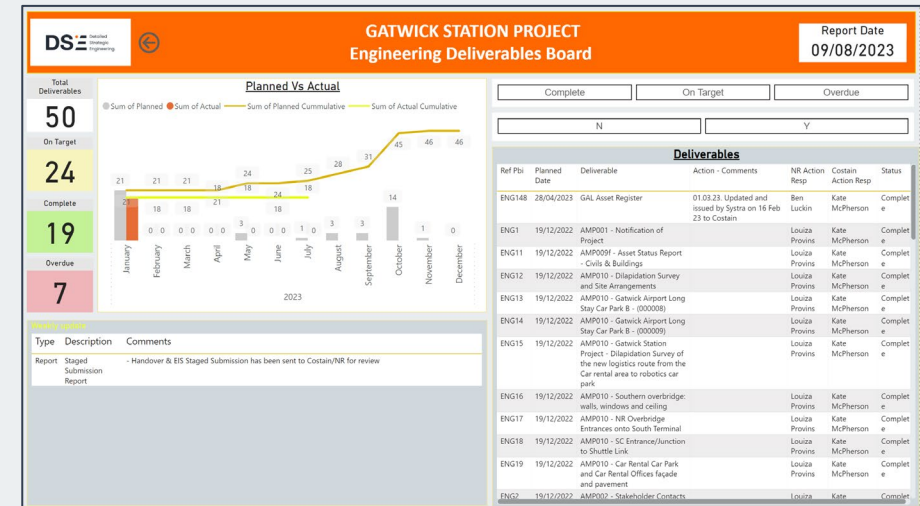
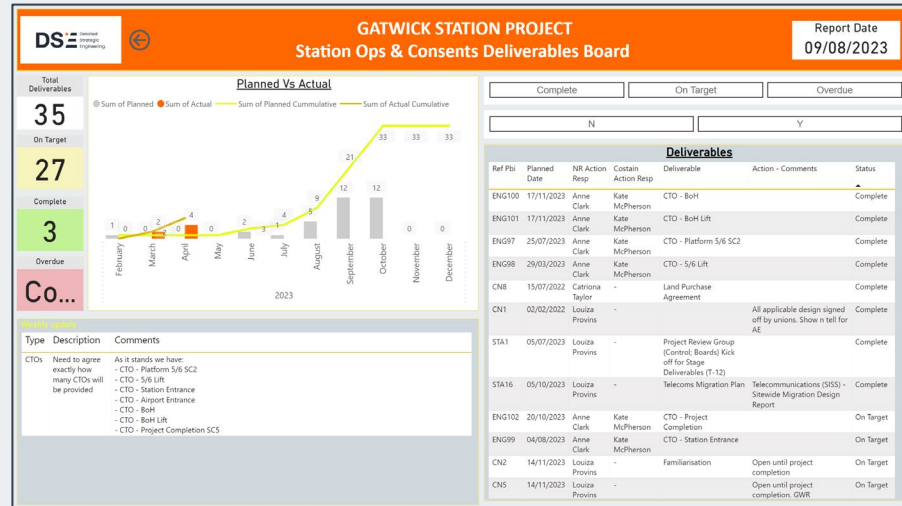
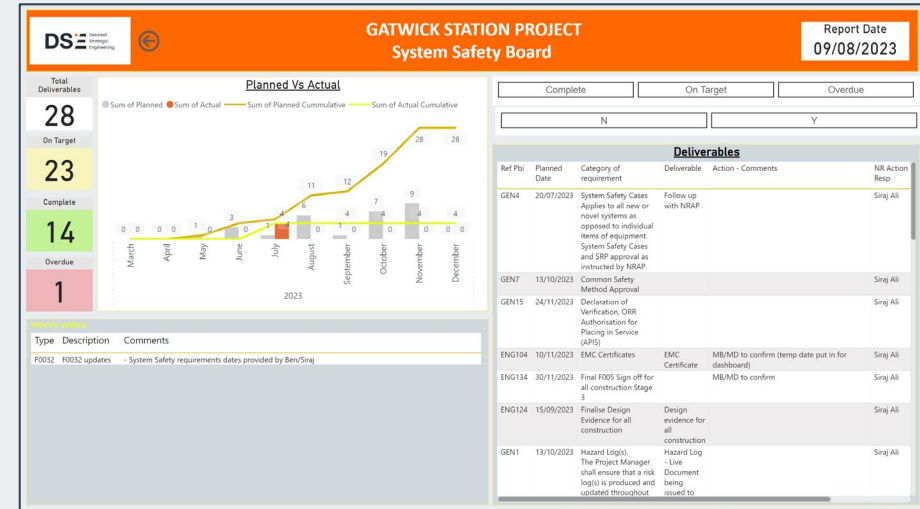
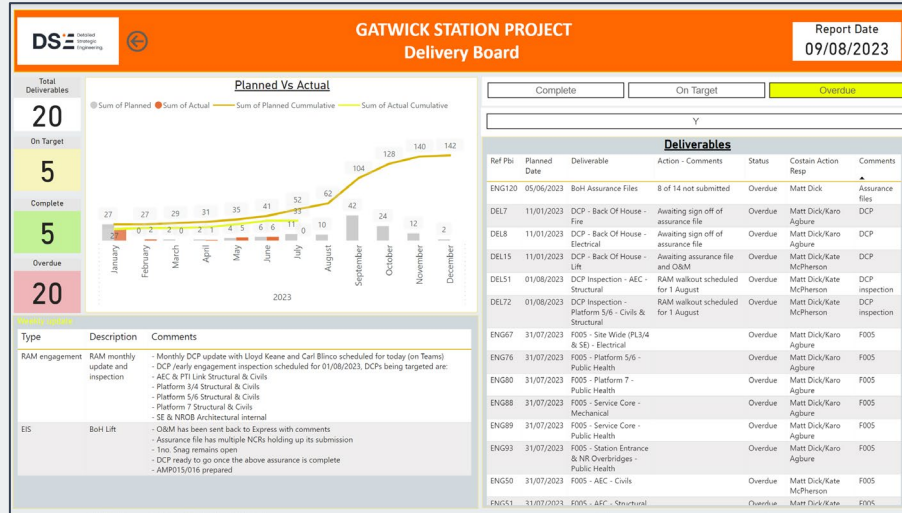
- Hazard Directory/Hazid Log
- System Safety Cases
- Common Safety Method Approval
- Produce SAR & DoCoR
- Regulation 14

Engineering Deliverables

Ben Luckin/Louiza Provins

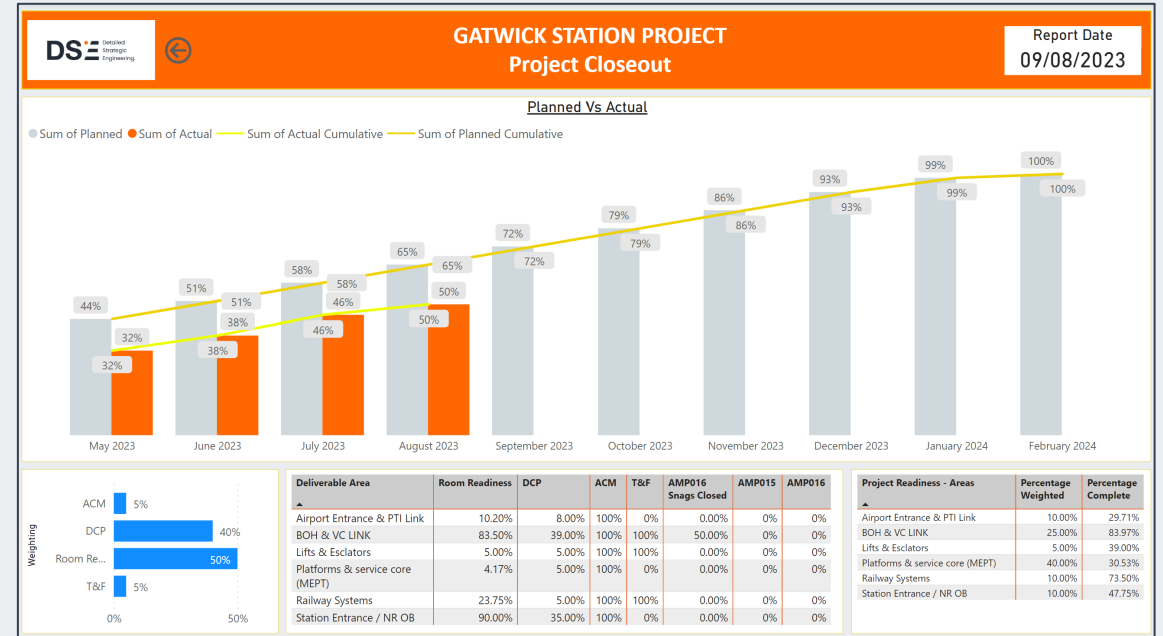
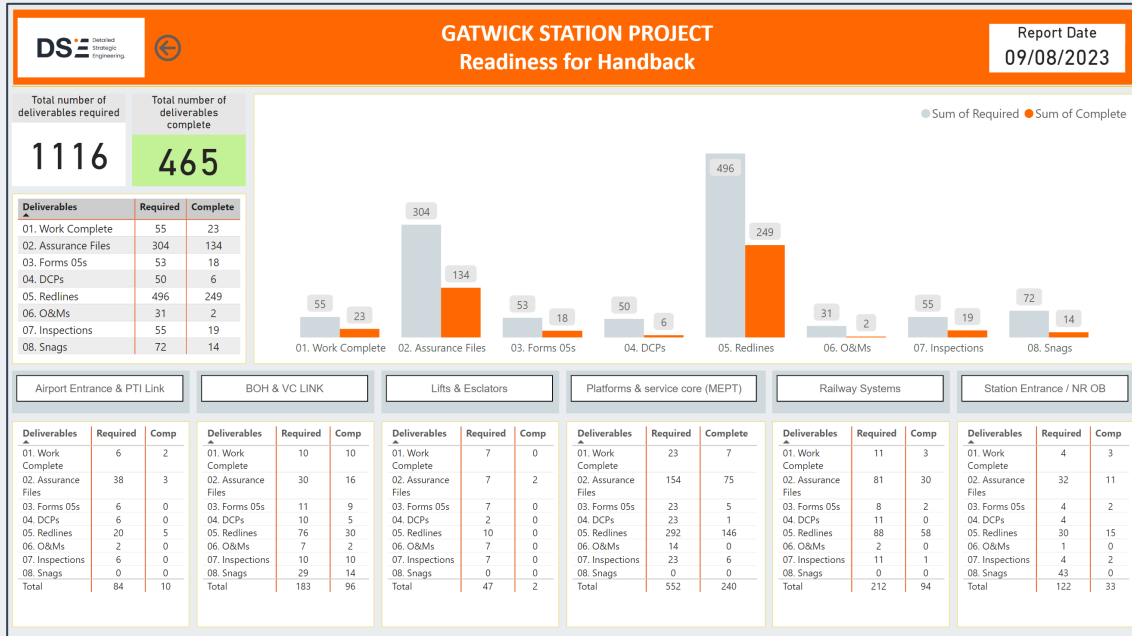
- All AMP Certification (AMP001-018)
- NR/L2/CIV/003/F003 - Certificate of Design and Check
- NR/L2/CIV/003/F004 - Architectural and layout acceptance
- NR/L2/CIV/003/F005 - Certificate of fitness to be taken into use
- DCPs
- EIS Inspections
- H&S File Process
- Consent to Operate
- ECC

Form F0032 Checklist – Dashboards

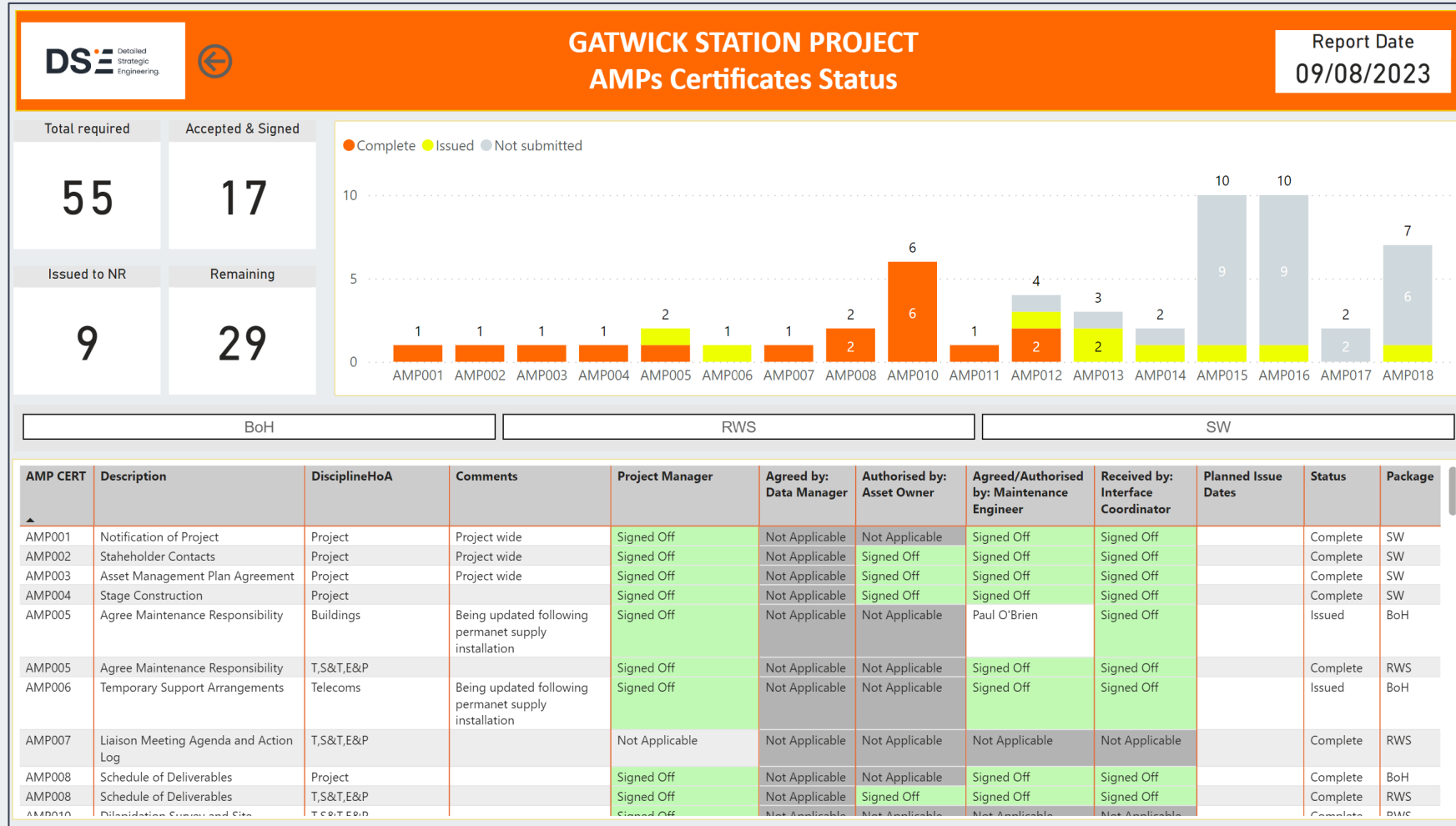


Readiness for Hand Back

DCP – F0032



AMP Certificates – Dashboards



H&S File

H&S File overarching report designed for ease of navigation and mirrors the Document Deliverable Matrix (DDM) received at Project commencement. Each section contains the relevant deliverables to fulfil the DDM requirements, along with their links to eB/Assetwise, as well as links to their respective Virtual Item Groups (VIGs). Each section has its own requirements and deliverables matrix.



| | | | | | | | | |
|----------------------|-----------------|---------------------------|-------|---------------|-----------------|-------------------|-----------|--|
| Investment Projects | | Document Reference Number | | | | | | |
| Project Code | Originator Code | Location | Level | Document Type | Discipline Code | Sequential Number | Version | |
| Health & Safety File | 142637 | COT | 02400 | ZZ | HSF | MPM | 000001 01 | |

3. Discipline Specific Information – Buildings & Civils

This section evidences the Buildings & Civils requirements, which includes all associated building fabric, architectural, lift, civils and structural asset information, as well as the Fire, Electrical, Mechanical, Public Health systems. Telecommunications asset information is covered under section 4 of this document.

Health and Safety File requirements and deliverables matrix

| Doc section | Deliverable | Containing | VIG no. |
|-------------|--|--|------------|
| 3.1 | Drawings | Copy of signed Transmittal for returned 'As Builts' (QF1005) retained in H&S File for traceability. ALL 'As Builts' to be returned to NRG. This includes 150 Drawings, 1200 General Arrangement and 1500 Longitudinal Sections. 'As Builts' must reflect on site completion and not construction design/specification | HS-EL-4.01 |
| 3.2 | Deliverables and Calculations | Forms 001-003 Forms A-C Calculations indexed by asset. | HS-EL-4.02 |
| 3.3 | Photographs | All photographs showing phases of construction of project indexed by subject and date | HS-EL-4.03 |
| 3.4 | Certificate of Compliance | Form D/004 (Architectural and Layout Acceptance) Form E/005 (Certificate of Fitness to Be Taken into Use) GRIP 5 ECC (Engineering Certificate of Compliance) | HS-EL-4.04 |
| 3.5 | Specific Reports and Surveys | Ground Condition Report, Geotechnical Report, Topographical Survey Data, Asbestos Report | HS-EL-4.05 |
| 3.6 | Material List and Suppliers | Part numbers of safety critical materials used, COSHH and Hazard data. Supplier contact details. Material Suppliers List (including spares) | HS-EL-4.06 |
| 3.7 | Material Conformity Certificates | For Steelwork - Reinforcing bars, Tension bolts, Anchors etc Details of equipment approvals. | HS-EL-4.07 |
| 3.8 | General Details of Construction | Detail of Installation, e.g. Reinforcing Bar Schedules, stressing records/post tensioned structures, ground anchors monitoring of earthworks and structures, as-built programme | HS-EL-4.08 |
| 3.9 | Testing and Commissioning | Pile integrity test reports, ITPs, approvals to proceed, concrete cube test reports, pile test results, mill certificates for steel sections, pre-stressing and jacking info, Charpy tests for welds/parent metal, shear connector test results, point inspector's report, bearing and joint manufacturer details, bolt test certificates, LV Electrical Test Certificates (NICIC), air conditioning test certificates, statutory tests e.g. electrical tests, lifting regs, certificates of test & conformity of installed components | HS-EL-4.09 |
| 3.10 | Utilities and services information | Details of the location and nature of utilities and services, including emergency and fire-fighting systems | HS-EL-4.10 |
| 3.11 | Dismantling and Removal | Statement of how works are to be demolished and associated risks, details of redundant assets and dates for recovery, schedule of recovered materials, de-commissioning information identified | HS-EL-4.11 |
| 3.12 | Buried services | Details of buried services. (To enable rapid retrieval, records containing buried services information are to be identified in the records listings provided to NRG) | HS-EL-4.12 |
| 3.13 | Asset Data/ Management | N/A | HS-EL-4.13 |
| 3.14 | CSAMS | N/A | HS-EL-4.14 |
| 5 | Buildings and Civils Operation and Maintenance information | Equipment and System Description, schedule of Tools and Equipment Required for Maintenance; Spares, including if applicable Manuals produced by specialist subcontractors; details of emergency or firefighting requirements. Maintenance <u>Information</u> , <u>Recommendations</u> for inspection cycles/frequency, check and monitoring arrangements. To include (not exhaustive); Items considered at the time to be hazardous to health when asset is repaired. Le Lead Based Point- Safety statement or operating procedure for any access/maintenance gantry <u>operation</u> ; Test frequency/procedure when using soil/nail anchors All AMP (Asset Management Plans) forms/certificates with the local maintainer. New/Novel Products and Approval, O&M manuals, training, New/Novel Products and Approval, changes to or derogations from Standards, Warranty arrangements. | HS-EL10.02 |

H&S File - Dashboard

GATWICK STATION PROJECT

Health & Safety File Progress Overview - BOH

Report Date
08/08/2023

Total required

227

Complete

174

In progress

4

Not yet submitted

49

Status ● Complete ● Not submitted ● Submitted

| Discipline | Complete | Not submitted | Submitted |
|---------------------|----------|---------------|-----------|
| Civils | 51 | 6 | 0 |
| Telecoms | 32 | 6 | 0 |
| Introduction | 28 | 6 | 0 |
| Architectural | 16 | 16 | 1 |
| Pre Site & Appro... | 12 | 7 | 0 |
| Lift | 0 | 9 | 0 |
| Structural | 9 | 0 | 0 |
| Mechanical | 6 | 7 | 0 |
| Public Health | 6 | 7 | 0 |
| Electrical | 6 | 0 | 0 |
| Fire | 0 | 5 | 0 |
| Geotechnical | 2 | 0 | 0 |
| All | 1 | 0 | 0 |

Weekly update

Comments

- All comments addressed and final amendments being made
- Ben L - would you expect GRIP6 F003s included, or do GRIP5 Systra ones suffice?
- DDM states N/A for Asset Data requirement - do we need to amend this?
- RWS H&S file is in progress
- QF915 for BoH drawings is complete, ready for submission once as-builts are complete

Complete

Not submitted

Submitted

| Discipline | HS no. | Grouped Virtual Item | HSF Requirement | Containing | Costain/NR deliverable | Comments | Doc name | Status |
|---------------|--------|----------------------|---------------------------------------|--|-----------------------------------|----------|--|----------|
| All | 11.02 | HS-EL-11.02 | Operation and Maintenance information | All AMP (Asset Management Plans) forms/certificates with the local maintainer. | AMP008 - Schedule of Deliverables | | Gatwick Station Project AMPs | Complete |
| Architectural | 4.02 | | Deliverables & Calculations | Forms 1-3 Calculations indexed by asset | Form 2 | | Form 002 BOH Accommodation Building | Complete |
| Architectural | 4.02 | | Deliverables & Calculations | Forms 1-3 Calculations indexed by asset | Form 3 | | Form 003 - Back of House - Hostile Vehicle Mitigation Bollards | Complete |
| Architectural | 4.02 | | Deliverables & Calculations | Forms 1-3 Calculations indexed by asset | Form 3 | | Form 3 - BOH Design Element - Blast | Complete |
| Architectural | 4.02 | | Deliverables & Calculations | Forms 1-3 Calculations indexed by asset | Form 3 | | Form 3 - BoH External - Roofing / External Cladding / Windows / Rooflights also Link Bridge, Mesh Elevations Drawings (Prater) | Complete |

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