

BESS Alinta Wagerup Peaking Power Station

*Field Inspection Checklist – Concrete slabs*

Document Number: **RR-SEPD-BESS-FIC-002**

# Document Information

|  |  |
| --- | --- |
| **Checklist title** | **Concrete slabs** |
| **Checklist No** | RR-SEPD-BESS-FIC-002 |
| **Lot Description** |  |
| **Revision no.** | 00 |
| **Revision Date**  **(DD/MM/YYYY)** |  |
| **Description of Changes** | First Issue |

**Document Review**

|  |  |  |  |
| --- | --- | --- | --- |
| **Prepared by:** | | | |
| **Responsibility** | **Name** | **Signature** | **Date (DD/MM/YYYY)** |
| **Drafted by**  **(Engineer)** | Juan Orozco | A close up of a logo  Description automatically generated | 07/10/2024 |
| **Reviewed by**  **(Supervisor)** | Jake Scott | A close up of a signature  Description automatically generated | 07/10/2024 |
| **Approved by**  **(Manager)** | Artur Krupinski |  | 08/10/2024 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Part 1 – Preliminaries (photos where applicable)** | | | | | | |
| **Inspection/Test item** | | **Acceptance Criteria** | **Specifications/Drawings Reference** | **(Yes/No/NA)** | **Initial & Date** | |
| **ROBAR** | **SEPD** |
| 1.1 | Review of approved construction drawings and  specifications | All drawings and specifications approved and  up to date | WBS-SS-CI-SPC-007 |  |  |  |
| 1.2 | Verification of permits | All relevant permits (GDA/GDP) in place | GDA/GDP |  |  |  |
| 1.3 | Site access and safety preparation | Site access cleared and made safe | WBS-SS-CI-SPC-007 |  |  |  |
| 1.4 | Safety inductions and toolbox talks | All personnel inducted; safety briefings completed | Induction record |  |  |  |

Document No: RR-SEPD-BESS-FIC-002 | Revision: 00

**Pg.1**



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1.5 | Environmental controls in place | Dust, noise, and sediment barriers installed and functioning | SEPD environmental requirements |  |  |  |
| **Part 2 – Survey (photos where applicable)** | | | | | | |
| **Inspection Acceptance** | | **Acceptance Criteria** | **Specifications/Drawings Reference** | **(Yes/No/NA)** | **Initial & Date** | |
| 2.1 | Set-out of slab location | Slab set-out conforms to approved design  coordinates | Site Layout Drawings, Survey Plan |  |  |  |
| 2.2 | Level and alignment check | Levels and alignment of formwork and slab position  verified | WBS-SS-CI-SPC-0007,  Survey Report |  |  |  |
| 2.3 | As-built survey after formwork and  reinforcement | Survey to confirm reinforcement cover and  formwork position | As-Built Drawings, Survey Report |  |  |  |
| **Part 3 – Pre-pour inspection (photos where applicable)** | | | | | | |
| **Inspection Acceptance** | | **Acceptance Criteria** | **Specifications/Drawings Reference** | **(Yes/No/NA)** | **Initial & Date** | |
| 3.1 | Review of approved concrete mix design | Mix design approved P3220100 | AS 1379  WBS-SS-CI-SPC-0007 |  |  |  |
| 3.2 | Formwork installation | Formwork aligned, clean, and secure; dimensions correct | AS 3610  WBS-SS-CI-SPC-0007 |  |  |  |
| 3.3 | Reinforcement placement | Reinforcement size, placement, spacing and  cover as per drawings | AS 4671  WBS-SS-CI-SPC-0007 |  |  |  |
| 3.4 | Reinforcement ties | Reinforcement securely tied in place, no loose bars | AS 4671 |  |  |  |
| 3.5 | Installation of dowels | Correct placement of all embedded items, dowels  aligned | WBS-SS-CI-SPC-0007 |  |  |  |
| 3.6 | Waterproofing membrane | Membrane installed per design; overlaps secured | WBS-SS-CI-SPC-0007 |  |  |  |
| 3.7 | Crack control joints | Joints placed and cut as per drawings and specifications | AS 3600  WBS-SS-CI-SPC-0007 |  |  |  |
| 3.8 | Construction joints | Joints placed and prepared as per drawings and  specifications | AS 3600  WBS-SS-CI-SPC-0007 |  |  |  |
| 3.9 | Site safety inspection prior to pour | Site clear, access routes checked, and emergency  plans in place | Safety Plan  WBS-SS-CI-SPC-0007 |  |  |  |
| **Part 4 – Concrete pouring and compaction (photos where applicable)** | | | | | | |
| **Inspection Acceptance** | | **Acceptance Criteria** | **Specifications/Drawings Reference** | **(Yes/No/NA)** | **Initial & Date** | |
| 4.1 | Concrete delivery | Delivery in line with approved mix design | AS 1379  Delivery dockets |  |  |  |
| 4.2 | Slump test | Slump within specified range (e.g., 100mm +/- 20mm) | AS 1012  Slump Test Results |  |  |  |
| 4.3 | Concrete placement | Concrete placed within formwork without  segregation or delays | WBS-SS-CI-SPC-0007 |  |  |  |
| 4.4 | Compaction of concrete | Concrete compacted using vibrators, no visible voids or  honeycombing | AS 3600  WBS-SS-CI-SPC-0007 |  |  |  |
| 4.5 | Cylinder sampling for compressive strength | Cylinder samples taken for 7, 14, 28-day tests | AS 1012  Sample Register |  |  |  |

Document No: RR-SEPD-BESS-FIC-002 | Revision: 00

**Pg.2**



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 4.6 | Concrete temperature monitoring (if required) | Temperature recorded during pouring | WBS-SS-CI-SPC-0007  Pour record |  |  |  |
| **Part 5 – Post-pour inspection (photos where applicable)** | | | | | | |
| **Inspection Acceptance** | | **Acceptance Criteria** | **Specifications/Drawings Reference** | **(Yes/No/NA)** | **Initial & Date** | |
| 5.1 | Surface finish | Class 5 | AS 3610  WBS-SS-CI-SPC-0007 |  |  |  |
| 5.2 | Curing method | Curing compound or wet curing applied as per requirements | AS 3799  WBS-SS-CI-SPC-0007 |  |  |  |
| 5.3 | Formwork stripping | Formwork removed after concrete reaches required  strength | WBS-SS-CI-SPC-0007 |  |  |  |
| 5.4 | Compressive strength testing | Compressive strength results meet >32 MPa at 28  days | AS 1012  Test Results |  |  |  |
| 5.5 | Inspection of surface cracks and defects | No major cracks or surface defects observed | WBS-SS-CI-SPC-0007 |  |  |  |
| **Part 5 – Final survey and as-built verification (photos where applicable)** | | | | | | |
| **Inspection Acceptance** | | **Acceptance Criteria** | **Specifications/Drawings Reference** | **(Yes/No/NA)** | **Initial & Date** | |
| 5.2 | As-built survey verification | As-built levels and layout match design | As-Built Drawings, Survey Report |  |  |  |
| 5.4 | Final inspection sign-off | Final approval of the slab surface, dimensions, and  finish | FIC sign-off |  |  |  |

# Document sign-off

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Final sign-off** | | | | |
| **Company** | **Name** |  | **Signature** | **Date (DD/MM/YYYY)** |
| **ROBAR** |  |  |  |  |
| **SEPD** |  |  |  |  |

Document No: RR-SEPD-BESS-FIC-002 | Revision: 00

**Pg.3**