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| Project Scope: **FRP Works** | | | Ref: **RR-SEPD-BESS-ITP-002** |
| Project: **BESS** **Alinta Wagerup Peaking Power Station** | | | Revision: **03** |
| ITP Description: | | | |
| Work Pack number: **RR-SEPD-CI-SOW-002-01** | | | |
| Client: **SEPD** | | | |
|  | | | |
| Prepared By: | Sign & Date: 08/10/2024 | Reviewed & Approved By: | Sign & Date: 08/10/2024 |
| **Juan Orozco – Project Engineer** | A close up of a logo  Description automatically generated | **Ronan Egan – Project Manager** |  |
|  | | | |
| Reviewed & Approved By: | Sign & Date: 08/10/2024 | Reviewed & Approved By: | Sign & Date: 08/10/2024 |
| **Artur Krupinski - Project Controls** | A black text on a white background  Description automatically generated | **Jake Scott – Site Supervisor** | A signature on a white surface  Description automatically generated |
|  | | | |

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| Definitions | |
| Hold Point | A point beyond which a work process **must not proceed** without the nominated authority’s express authorization. |
| Witness Point | A point in a work process where the Contractor must give prior notice to the nominated authority and the option of attendance may be exercised by the nominated authority. |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Responsibility | | Method | | Frequency | | Verification Requirement | |
| SUP | Supervisor | I | Inspection | PW | Prior to works | HP | Hold Point |
| SE | Site Engineer | R | Review | PL | Per lot | WP | Witness Point |
| PE | Project Engineer | S | Survey |  |  | M | Milestone |
| SPE | Senior Project Engineer | T | Test |  |  | V | Verification |
| PM | Project Manager |  |  |  |  | NA | Not Available |
| SV | Surveyor |  |  |  |  |  |  |
| QM | Quality Manager |  |  |  |  |  |  |
| QR | Quality Representative |  |  |  |  |  |  |
| ER | Environmental Representative |  |  |  |  |  |  |
| IV | Independent Verifier |  |  |  |  |  |  |

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| **Contractor Name** | ROBAR Rentals | ITP no. | RR-SEPD-BESS-ITP-002-03 |
| **Responsible Engineer** | Juan Orozco | Work Pack no. | RR-SEPD-CI-SOW-002-01 |
| **Responsible Supervisor** | Jake Scott | | |
| **Location** |  | | |
| **Description** |  | | |

| Item no. | Inspection/Test Point | Responsibility | Specification Reference | Conformance Criteria Summary | Method | Frequency | Reviewer | Hold/Witness Point Requirements | | | Records or Checklist Document Number |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ROBAR | SEPD | Client |
| Section 1: Preliminaries | | | | | | | | | | | |
|  | | Remarks / NCR No. / HP No. / RFI No. / Notice Date | | | | | | | | | |
| 1.1 | Review of approved construction drawings and specifications | SE/PE | WBS-SS-CI-SPC-0007 | Approved IFC drawings and project specifications available on-site | R | PW |  | V | NA | NA | IFC Drawings |
| Date |  |  |  |
| Name |  |  |  |
| Signature |  |  |  |
|  | | Remarks / NCR No. / HP No. / RFI No. / Notice Date | | | | | | | | | |
| 1.2 | Site condition check and access preparation | SE/PE | WBS-SS-CI-SPC-0007 | Site cleared, accessible, and suitable for concrete slab works | R | PW |  | V | NA | NA |  |
| Date |  |  |  |
| Name |  |  |  |
| Signature |  |  |  |
|  | | Remarks / NCR No. / HP No. / RFI No. / Notice Date | | | | | | | | | |
| 1.3 | Site safety induction and toolbox talks | SE/PE | WBS-SS-CI-SPC-0007 | All personnel inducted and briefed on safety, site-specific risks | R | PW |  | V | NA | NA | Site inductions records |
| Date |  |  |  |
| Name |  |  |  |
| Signature |  |  |  |
|  | | Remarks / NCR No. / HP No. / RFI No. / Notice Date | | | | | | | | | |
| 1.4 | Inspection of plant and equipment (e.g., concrete pump, vibrators) | SE/PE | WBS-SS-CI-SPC-0007 | All equipment calibrated and operational | R | PW |  | V | NA | NA | Calibration/Pre-start |
| Date |  |  |  |
| Name |  |  |  |
| Signature |  |  |  |
|  | | Remarks / NCR No. / HP No. / RFI No. / Notice Date | | | | | | | | | |
| 1.5 | Foundation preparation | SE/PE | Geotechnical report/memo/geotechnical engineer’s specifications | Compaction test reports/geotechnical engineer’s specifications | R | PW |  | V | V | NA | Calibration/Pre-start |
| Date |  |  |  |
| Name |  |  |  |
| Signature |  |  |  |
| Section 2: Pre-pour preparations | | | | | | | | | | | |
|  | | Remarks / NCR No. / HP No. / RFI No. / Notice Date | | | | | | | | | |
| 2.1 | Verification of work permits | SE/PE | WBS-SS-CI-SPC-0007 | All necessary permits for concrete works in place (GDA/GDP) | R | PL |  | V | V | NA | GDA/GDP |
| Date |  |  |  |
| Name |  |  |  |
| Signature |  |  |  |
|  | | Remarks / NCR No. / HP No. / RFI No. / Notice Date | | | | | | | | | |
| 2.2 | Blinding concrete installation | SE/PE | WBS-SS-CI-SPC-0007  Design drawings | Approved mix design, material certificates compliant with AS 1379 | R | PL |  | V | V | NA | FIC |
| Date |  |  |  |
| Name |  |  |  |
| Signature |  |  |  |
|  | | Remarks / NCR No. / HP No. / RFI No. / Notice Date | | | | | | | | | |
| 2.3 | Review of concrete mix design and material certificates | SE/PE | WBS-SS-CI-SPC-0007 | Approved mix design, material certificates compliant with AS 1379 | R | PW |  | HP | HP | NA | Product certificate of compliance |
| Date |  |  |  |
| Name |  |  |  |
| Signature |  |  |  |
|  | | Remarks / NCR No. / HP No. / RFI No. / Notice Date | | | | | | | | | |
| 2.4 | Formwork inspection – alignment, cleanliness, and dimensions | SE/PE | WBS-SS-CI-SPC-0007 | Formwork in line with drawings, clean, and dimensionally correct | R | PW |  | HP | HP | NA | TWD  FIC |
| Date |  |  |  |
| Name |  |  |  |
| Signature |  |  |  |
|  | | Remarks / NCR No. / HP No. / RFI No. / Notice Date | | | | | | | | | |
| 2.5 | Reinforcement inspection (size, spacing, placement, cover) | SE/PE | WBS-SS-CI-SPC-0007  AS 4671 | Correct bar size, spacing, reinforcement securely tied, adequate cover | R | PW |  | HP | HP | NA | IFC Drawings  FIC |
| Date |  |  |  |
| Name |  |  |  |
| Signature |  |  |  |
|  | | Remarks / NCR No. / HP No. / RFI No. / Notice Date | | | | | | | | | |
| 2.6 | Verify waterproofing membrane | SE/PE | WBS-SS-CI-SPC-0007 | Membrane installed as per drawings/specs | R | PW |  | WP | WP | NA | IFC Drawings  FIC |
| Date |  |  |  |
| Name |  |  |  |
| Signature |  |  |  |
|  | | Remarks / NCR No. / HP No. / RFI No. / Notice Date | | | | | | | | | |
| 2.7 | Re-entrant bars (starter bars) and corner reinforcement | SE/PE | WBS-SS-CI-SPC-0007 | Correct positioning of all embedded items per drawings | R | PW |  | WP | WP | NA | IFC Drawings FIC |
| Date |  |  |  |
| Name |  |  |  |
| Signature |  |  |  |
|  | | Remarks / NCR No. / HP No. / RFI No. / Notice Date | | | | | | | | | |
| 2.8 | Concrete batch plant inspection | SE/PE | AS 1379 | Batch plant adheres to mix design, and delivery meets timing requirements | R | PW |  | V | NA | NA | FIC |
| Date |  |  |  |
| Name |  |  |  |
| Signature |  |  |  |
| Section 3: Concrete placement | | | | | | | | | | | |
|  | | Remarks / NCR No. / HP No. / RFI No. / Notice Date | | | | | | | | | |
| 3.1 | Pre-pour concrete delivery inspection | SE/PE | WBS-SS-CI-SPC-0007  AS 1379 | Batch delivery dockets match approved mix | I | PL |  | WP | WP | NA | Delivery dockets |
| Date |  |  |  |
| Name |  |  |  |
| Signature |  |  |  |
|  | | Remarks / NCR No. / HP No. / RFI No. / Notice Date | | | | | | | | | |
| 3.2 | Slump test at site (conformance to mix design) | SE/PE | AS 1012 | Slump within specified range (e.g., 100mm +/- 20mm) | I | PL |  | HP | HP | NA | Lab test report |
| Date |  |  |  |
| Name |  |  |  |
| Signature |  |  |  |
|  | | Remarks / NCR No. / HP No. / RFI No. / Notice Date | | | | | | | | | |
| 3.3 | Concrete placement and compaction | SE/PE | WBS-SS-CI-SPC-0007 | Concrete placed within formwork, no segregation, fully compacted | T | PL |  | V | V | NA | Pour record |
| Date |  |  |  |
| Name |  |  |  |
| Signature |  |  |  |
|  | | Remarks / NCR No. / HP No. / RFI No. / Notice Date | | | | | | | | | |
| 3.4 | Cylinder samples for compressive strength testing | SE/PE | AS 1012 | Minimum of 12 cylinders in total for 7, 14, 28-day tests | I | PL |  | HP | HP | NA | Lab test report |
| Date |  |  |  |
| Name |  |  |  |
| Signature |  |  |  |
|  | | Remarks / NCR No. / HP No. / RFI No. / Notice Date | | | | | | | | | |
| 3.5 | Concrete temperature monitoring | SE/PE | WBS-SS-CI-SPC-0007 | Temperature within acceptable range (35° C) | T | PL |  | HP | HP | NA | Pour record |
| Date |  |  |  |
| Name |  |  |  |
| Signature |  |  |  |
|  | | Remarks / NCR No. / HP No. / RFI No. / Notice Date | | | | | | | | | |
| 3.6 | Placement monitoring – free-fall limit | SE/PE | WBS-SS-CI-SPC-0007  AS 3600 | Concrete poured with a maximum free-fall height of 1.8m to avoid segregation | T | PL |  | V | V | NA | FIC |
| Date |  |  |  |
| Name |  |  |  |
| Signature |  |  |  |
|  | | Remarks / NCR No. / HP No. / RFI No. / Notice Date | | | | | | | | | |
| 3.7 | Vibration and compaction monitoring | SE/PE | WBS-SS-CI-SPC-0007  AS 3600 | Concrete properly compacted with vibrators, no voids or segregation | T | PL |  | V | V | NA | FIC |
| Date |  |  |  |
| Name |  |  |  |
| Signature |  |  |  |
|  | | Remarks / NCR No. / HP No. / RFI No. / Notice Date | | | | | | | | | |
| 3.8 | Concrete curing | SE/PE | WBS-SS-CI-SPC-0007  FRP section 4.25.11  AS 3600 | Concrete curing per approved concrete curing method statement | T | PL |  | V | V | NA | FIC |
| Date |  |  |  |
| Name |  |  |  |
| Signature |  |  |  |
| Section 4: Final Inspection | | | | | | | | | | | |
|  | | Remarks / NCR No. / HP No. / RFI No. / Notice Date | | | | | | | | | |
| 4.1 | Surface finishing (Class of finish per AS 3610) | SE/PE | WBS-SS-CI-SPC-0007  AS 3610 | Class 4 for buried structures or rear face of the retaining wall and buried footings  Class 2 for exposed face of retaining wall and exposed footings | S | PL |  | V | V | NA | FIC |
| Date |  |  |  |
| Name |  |  |  |
| Signature |  |  |  |
|  | | Remarks / NCR No. / HP No. / RFI No. / Notice Date | | | | | | | | | |
| 4.2 | Curing procedure inspection | SE/PE | WBS-SS-CI-SPC-0007  AS 3799 | Curing compound applied or wet curing in place | R | PL |  | V | V | NA | FIC |
| Date |  |  |  |
| Name |  |  |  |
| Signature |  |  |  |
|  | | Remarks / NCR No. / HP No. / RFI No. / Notice Date | | | | | | | | | |
| 4.3 | Formwork stripping and post-pour inspection | SE/PE | WBS-SS-CI-SPC-0007  AS 3610 | Formwork removed at required strength; surface defects repaired | R | PL |  | WP | WP | NA | FIC |
| Date |  |  |  |
| Name |  |  |  |
| Signature |  |  |  |
|  | | Remarks / NCR No. / HP No. / RFI No. / Notice Date | | | | | | | | | |
| 4.4 | Compressive strength test results | SE/PE | AS 1012 | Compressive strength >32 MPa at 28 days | R | PL |  | HP | HP | NA | Lab test report |
| Date |  |  |  |
| Name |  |  |  |
| Signature |  |  |  |
|  | | Remarks / NCR No. / HP No. / RFI No. / Notice Date | | | | | | | | | |
| 4.5 | Final inspection and acceptance of slab | SE/PE | WBS-SS-CI-SPC-0007 | Surface levels, dimensions, and finish within tolerances | R | PL |  | V | V | NA | FIC |
| Date |  |  |  |
| Name |  |  |  |
| Signature |  |  |  |
|  | | Remarks / NCR No. / HP No. / RFI No. / Notice Date | | | | | | | | | |
| 4.6 | Joint Inspections | SE/PE | WBS-SS-CI-SPC-0007 | Expansion and contraction joints installed per design drawings | R | PL |  | V | V | NA | FIC |
| Date |  |  |  |
| Name |  |  |  |
| Signature |  |  |  |
|  | | Remarks / NCR No. / HP No. / RFI No. / Notice Date | | | | | | | | | |
| 4.7 | Post-cure inspections for shrinkage and cracking | SE/PE | WBS-SS-CI-SPC-0007 | Inspection for early shrinkage cracks and proper curing continuation | R | PL |  | V | V | NA | FIC |
| Date |  |  |  |
| Name |  |  |  |
| Signature |  |  |  |

**Document sign-off**

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| --- | --- | --- | --- | --- |
|  | Close-out | | | |
| Company | Name | Position | Signature | Date (DD/MM/YYYY) |
| ROBAR |  |  |  |  |
| SEPD |  |  |  |  |