Heyday Group

# Inspection & Test Checklist
## ITC: 4A
## MAINS AND SUBMAINS

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Client:** | John Holland Group | **Project Name:** | Shoalhaven Hospital Redevelopment | | **Job No:** | NEC00140 | **Sheet No:** |
| **Contract Manager:** | Brett Lavarto | **Project Manager:** | Michael McGeehan | **Site Supervisor:** | Andrew Cairns | | **Date:** |
| **Check Authorised By:** | | **Signature:** | | **Check Delegated To:** | | **Signature:** | |

| Submain Details | | | | | | | |
|---|---|---|---|---|---|---|---|
| Area | | | | Drawing No. | | | |
| From | | | | To | | | |
| Cable No. | | Cable Type | | Cable Size | | Length | Cores |
| MCCB Model | | Rating (A) | | Trip Unit | | Trip Setting (A) | |

| Visual Inspections (AS/NZS 3000) | | |
|---|---|---|
| 1 | Visually Check Cable is - | ✓ |
| | Provided with adequate support, suspension and fixings? | ☐ |
| | Suited for the intended use? | ☐ |
| | Protected against mechanical damage, enviromental and other external influnece by enclosure? | ☐ |
| | Is the cable the correct type and size? | ☐ |
| | Is the cable terminated at both ends? | ☐ |
| | Are the connections tight, correct tension and marked? | ☐ |
| | Is the cable free of damaged? | ☐ |
| | Is the cable and terminations correctly labeled? | ☐ |

| Pre Energisation Checks (AS/NZS 3000) | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Bolt Tension Check/Bolt Lined and Tension noted? | | | | | PASS | FAIL |
| | NM | | | | | ☐ | ☐ |
| 2 | Earth Continuity (Value must be less than 0.5 ohms) | | | | | PASS | FAIL |
| | Earth Size | FROM | TO | Point to Point Reading | Ω | | |
| | | | | | | ☐ | ☐ |
| 3 | Insulation Resistance Test (AS/NZS 3000) | | | | | PASS | FAIL |
| | RED TO WHITE | | WHITE TO BLUE | | BLUE TO RED | ☐ | ☐ |
| | RED TO BLACK | | WHITE TO BLACK | | BLUE TO BLACK | | |
| | RED TO EARTH | | WHITE TO EARTH | | BLUE TO EARTH | | |
| 4 | Polarity Test ✓ | | | | | PASS | FAIL |
| | RED TO RED | WHITE TO WHITE | BLUE TO BLUE | BLACK TO BLACK | | ☐ | ☐ |
| 5 | Fault Loop Impedance (If Applicable) | | | | | PASS | FAIL |
| | Cables have been installed as per design calculations. | | | | | ☐ | ☐ |
| | *Note, if FAIL seek design clarification to adjust circuit breaker tripping curve characteristics.* | | | | | | |

| Post Engerisation Checks (AS/NZS 3000) | | | | |
|---|---|---|---|---|
| 6 | Phase Rotation | | | |
| | Clockwise → | ☐ | Anti Clockwise ← | ☐ |
| 7 | Voltage Checks (AS/NZS 3000) | | | PASS / FAIL |
| | RED TO WHITE | WHITE TO BLUE | BLUE TO RED | ☐ / ☐ |
| | RED TO BLACK | WHITE TO BLACK | BLUE TO BLACK | |
| | RED TO EARTH | WHITE TO EARTH | BLUE TO EARTH | |

| Test Equipment | Brand/Model | Serial No. | Calibration Due | Tester | Date |
|---|---|---|---|---|---|
| Multimeter | | | | | |
| Insulation Resistance Tester | | | | | |
| Phase Rotation Meter | | | | | |