**Referenced to Water Corporation Standards: DS21, DS22 and DS26-22.**

|  |
| --- |
| **1. GENERAL DATA** |
| PROJECT NAME: | PROJECT NO: |
| IDENTIFICATION: |

|  |
| --- |
| **2. STARTER DATA** |
| MAKE: | SERIAL NO: |
| TYPE: |  |
| KW: |  |
| MAIN CIRCUIT VOLTS: | CONTROL CIRCUIT VOLTS: |
| COOLING: | ENCLOSURE PROTECTION: |
| OIL TYPE/ QTY: |  |

|  |
| --- |
| **3. MOTOR DATA** |
| MAKE: | SERIAL NO: |
| KW: | SPEED: |
| STATOR VOLTAGE: | ROTOR O/C VOLTAGE: |
| STATOR CURRENT: | ROTOR S/C CURRENT: |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **4. INSPECTION** | **DONE****/YES** | **NO** | **N/A** | **COMMENTS/DETAILS** |
| 1 | Megger starter, record values and confirm as acceptable | [ ]  | [ ]  | [ ]  |  |
| 2 | With motor line contactor isolated and earthed, do an emergency start. | [ ]  | [ ]  | [ ]  |  |
| 3 | Confirm starter steps through correctly  | [ ]  | [ ]  | [ ]  |  |
| 4 | Confirm indicator lights operate correctly  | [ ]  | [ ]  | [ ]  |  |
| 5 | Confirm a simulated oil over-temperature fault interfaces with the motor control circuit correctly  | [ ]  | [ ]  | [ ]  |  |
| 6 | With the motor line contactor isolated and earthed, do a normal start. | [ ]  | [ ]  | [ ]  |  |
| 7 | Confirm status and alarm inputs to the PLC interface correctly | [ ]  | [ ]  | [ ]  |  |
| 8 | Recheck the oil level is acceptable | [ ]  | [ ]  | [ ]  |  |
| 9 | With the motor line contactor in the operating position, but motor decoupled, do a start and confirm expected operation. | [ ]  | [ ]  | [ ]  |  |
| 10 | Couple motor to pump and do a proper start. Record stator current and confirm stage times and current values are as expected.  | [ ]  | [ ]  | [ ]  |  |

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| **5. TESTS** |
| 5.1 Test Equipment |
| Megger |
| Manufacturer: | Model: |
| Serial No.: | Last Calibration Date: |
| Multimeter |
| Manufacturer: | Model: |
| Serial No.: | Last Calibration Date: |
|  |
| 5.2 Insulation Resistance Test |
| **Circuit Description** | **Main Resistor Circuit** | **Control Circuit** |
| **Resistance (Ω)** |  |  |
|  |
| 5.3 Main Resistor Circuit Series Resistance Measurements |
| **Description** | **R1** | **R2** | **R3** | **R4** | **R5** | **R6** | **R7** | **R8** |
| **Resistance (Ω)** |  |  |  |  |  |  |  |  |
|  |
| 5.4 Starting Cycle Testing |
| **Description** | **S1** | **S2** | **S3** | **S4** | **S5** | **S6** | **S7** | **S8** |
| **Time** |  |  |  |  |  |  |  |  |
| **Motor Primary Current (A)** |  |  |  |  |  |  |  |  |
|  |
| 5.5 Cooling Temperature Measurements |
| **Description** | **Ambient** | **Primary Coolant (Oil)** | **Secondary Coolant** |
| **Pre-Start** |  |  |  |
| **Post-Start** |  |  |  |
| **After 1hr** |  |  |  |

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| **6. REMARKS / REMEDIAL ACTIONS** |
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| --- | --- |
| **7. SIGNOFFS** |  |
| NAME (PRINT) | COMPANY / ROLE | SIGNATURE | DATE |
| NAME (PRINT) | COMPANY / ROLE | SIGNATURE | DATE |
| NAME (PRINT) | COMPANY / ROLE | SIGNATURE | DATE |