**Referenced to Water Corporation Standards: DS26-14, DS26-18, DS26-19, DS26-25, and DS26-40.**

**This procedure maybe undertaken by the Contractor with a Water Corporation employee present.**

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

|  |
| --- |
| **2. VARIABLE SPEED DRIVE DATA** |
| MANUFACTURER (MF): |  |
| TYPE: HV [ ]  LV [ ]  With Input Isolating TX [ ]  Part of a System [ ]  Soft Starter [ ]   |
| MODEL NO: | SERIAL NO: |
| INPUT VOLTAGE: | MOUNTING: FLOOR [ ]  WALL: [ ]  |
| COOLING: PRIMARY: AIR [ ]  | SECONDARY: AIR [ ]  WATER [ ]  |
| WC DWG NO.(S): | MF DWG NO.(S): |

|  |
| --- |
| **3. MOTOR DATA** |
| MAKE: | SERIAL NO: |
| KW: | SPEED: |
| STATOR VOLTAGE: | STATOR CURRENT: |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **4. INSPECTION** | **DONE****/YES** | **NO** | **N/A** | **COMMENTS/DETAILS** |
| 1 | Follow the appropriate manufacturer’s manual for the setup procedure. | [ ]  | [ ]  |[ ]  MF Manual No: |
| 2 | Megger starter, record values and confirm as acceptable. | [ ]  | [ ]  |[ ]   |
| 3 | With motor line contactor isolated, do an emergency start. | [ ]  | [ ]  |[ ]   |
| 4 | Confirm Starter starts correctly. | [ ]  | [ ]  |[ ]   |
| 5 | Confirm Keypad and indicator lights operate correctly. | [ ]  | [ ]  |[ ]   |
| 6 | Confirm a simulated Motor Starter fault interfaces with the motor control circuit correctly. | [ ]  | [ ]  |[ ]   |
| 7 | With the motor line contactor isolated, do a manual start. | [ ]  | [ ]  |[ ]   |
| 8 | Confirm status and alarm inputs to the PLC interface correctly. | [ ]  | [ ]  |[ ]   |
| 9 | With the motor line contactor in the operating position, but motor decoupled, do a start and confirm expected operation. Conduct No Load Test. | [ ]  | [ ]  |[ ]   |
| 10 | Couple motor to pump and do a normal start (and stop if not “coast to stop”). Record stator current and confirm ramp times and current values are as expected.  | [ ]  | [ ]  |[ ]   |
| 11 | Check all external signals. | [ ]  | [ ]  |[ ]   |
| 12 | Record and save all parameter settings. | [ ]  | [ ]  |[ ]   |

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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 Circuit** | **Control Circuit** |
| **Resistance (Ω)** |  |  |
|  |
| 5.3 Starting Cycle Testing |
| **Description** | **Start Ramp** | **Stop Ramp** |  |  |  |  |  |  |
| **Time** |  |  |  |  |  |  |  |  |
| **Motor Primary Current (A)** |  |  |  |  |  |  |  |  |
|  |
| 5.4 Cooling Temperature Measurements |
| **Description** | **Ambient** | **Primary Coolant** | **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 |