

LIST OF EQUIPMENT TO BE TESTED/SCOPE OF WORK - DEL VALLE WATER TREATMENT PLANT**LOCATION - 901 E. VINEYARD AVE. LIVERMORE, CA 94550**

Qty	Equipment Description
I. SERVICE ENTRANCE SWITCHBOARD	
1	Switchboard, Rating 600V - Inspect, Clean, and Torque
1	Circuit Breaker - Insulated Case - Electronic Trip - Primary Injection, Rating 1600A
	Switchboard MSN
1	Low Voltage Switchgear Lineup, Rating 600V 'MSN'
1	Circuit Breaker - Molded Case - Thermal-Magnetic Trip, Rating 1000A
1	Circuit Breaker - Molded Case - Thermal-Magnetic Trip, Rating 600A
2	Circuit Breaker - Molded Case - Thermal-Magnetic Trip, Rating 500A
2	Circuit Breaker - Molded Case - Thermal-Magnetic Trip, Rating 200A
	Switchboard MSE
1	Low Voltage Switchgear Lineup, Rating 600V 'MSE'
1	Circuit Breaker - Molded Case - Thermal-Magnetic Trip, Rating 1000A
1	Circuit Breaker - Molded Case - Thermal-Magnetic Trip, Rating 800A
2	Circuit Breaker - Molded Case - Thermal-Magnetic Trip, Rating 400A
1	Circuit Breaker - Molded Case - Thermal-Magnetic Trip, Rating 225A
2	Circuit Breaker - Molded Case - Thermal-Magnetic Trip, Rating 175A
2	Circuit Breaker - Molded Case - Thermal-Magnetic Trip, Rating 150A
2	Circuit Breaker - Molded Case - Thermal-Magnetic Trip, Rating 100A
1	Circuit Breaker - Molded Case - Thermal-Magnetic Trip, Rating 250A
	Panel MCC-ADB
1	Switchboard, Rating 480V - Inspect, Clean, and Torque
1	Circuit Breaker - Insulated Case - Electronic Trip - Primary Injection, Rating 800A
1	Circuit Breaker - Molded Case - Thermal-Magnetic Trip, Rating 400A
1	Circuit Breaker - Molded Case - Thermal-Magnetic Trip, Rating 150A
	Panel MCC2
1	Switchboard, Rating 480V - Inspect, Clean, and Torque
1	Circuit Breaker - Molded Case - Thermal-Magnetic Trip, Rating 175A
II. SWITCHBOARD MS2 AND STANDBY SWITCHBOARD MS2	
1	Low Voltage Switchgear Lineup, Rating 600V 'MS2'
1	Main Breaker - Insulated Case - Fixed Mount - Electronic Trip - Primary Injection, Rating 2000A
2	Circuit Breaker - Insulated Case - Electronic Trip - Primary Injection, Rating 2000A 'ATS Feeder & ATS outgoing'
4	Circuit Breaker - Insulated Case - Electronic Trip - Primary Injection, Rating 800A
	Panel MSB-BPS-Booster Pump Station
1	Distribution Panel Board, Rating 480V 'MSB-BPS'
1	Circuit Breaker - Insulated Case - Electronic Trip - Primary Injection, Rating 800A
	Panel DAF-DP1
1	Distribution Panel Board, Rating 480V 'DAF-DP-1'
1	Circuit Breaker - Insulated Case - Electronic Trip - Primary Injection, Rating 800A
2	Circuit Breaker - Molded Case - Thermal-Magnetic Trip, Rating 100A
1	Circuit Breaker - Molded Case - Thermal-Magnetic Trip, Rating 800A
1	Circuit Breaker - Molded Case - Thermal-Magnetic Trip, Rating 400A
2	Circuit Breaker - Molded Case - Thermal-Magnetic Trip, Rating 300A
5	Circuit Breaker - Molded Case - Thermal-Magnetic Trip, Rating 125A

- 1 Circuit Breaker - Molded Case - Thermal-Magnetic Trip, Rating 100A
Panel MCC-5
- 1 Distribution Panel Board, Rating 480V 'MCC-5'
Main Breaker - Modled Case - Thermal-Magnetic Trip - Fixed Mount, Rating 600A

III. SWITCHBOARD DPE

- 1 Distribution Panel Board, Rating 480V 'DPE'
- 3 Circuit Breaker - Molded Case - Thermal-Magnetic Trip, Rating 100A
- 2 Circuit Breaker - Molded Case - Thermal-Magnetic Trip, Rating 175A

IV. PANEL MCC-FA POLYMER ROOM

- 1 Distribution Panel Board, Rating 480V 'MCC-FA'
- 1 Circuit Breaker - Molded Case - Thermal-Magnetic Trip, Rating 110A

V. GENERATOR BREAKERS

- 1 Circuit Breaker - Insulated Case - Electronic Trip - Primary Injection, Rating 1000A, 500KW Generator Breaker
- 1 Circuit Breaker - Insulated Case - Electronic Trip - Primary Injection, Rating 3000a,1.5m Generator Breaker
- 1 Circuit Breaker - Molded Case - Thermal-Magnetic Trip, Rating 600A, 350KW Generator Breaker
- 1 Circuit Breaker - Molded Case - Thermal-Magnetic Trip, Rating 1600a, load bank

VI. ELECTRICAL ROOM 3

- 1 Circuit Breaker - Insulated Case - Electronic Trip - Primary Injection, Rating 3000a
- 1 Circuit Breaker - Insulated Case - Electronic Trip - Primary Injection, Rating 2000a
- 2 Circuit Breaker - Insulated Case - Electronic Trip - Primary Injection, Rating 100a
- 2 Circuit Breaker - Insulated Case - Electronic Trip - Primary Injection, Rating 400a
- 1 Circuit Breaker - Insulated Case - Electronic Trip - Primary Injection, Rating 600a
- 1 Circuit Breaker - Insulated Case - Electronic Trip - Primary Injection, Rating 1000a

VII. OZONE GENERATOR BUILDING

- 1 Panel Board 607A,607B
- 1 Circuit Breaker - Insulated Case - Electronic Trip - Primary Injection, Rating 1600A Main
- 1 Circuit Breaker - Insulated Case - Electronic Trip - Primary Injection, Rating 400A Main
Inside of Ozone PSU
- 3 Circuit Breaker - Insulated Case - Electronic Trip - Primary Injection, Rating 400A Main

VIII. CONTACT STRUCT

- 1 PDP-20
- 1 Circuit Breaker - Insulated Case - Electronic Trip - Primary Injection, Rating 600A

IX. LAB PANEL - LDPH

- 1 Distribution Panel Board, Rating 480V 'LDPH'
- 1 Circuit Breaker - Molded Case - Thermal-Magnetic Trip, Rating 400A
- 1 Circuit Breaker - Molded Case - Thermal-Magnetic Trip, Rating 250A

X. MSB-BPS PANEL WITH WHITE RESIDUE ON CIRCUIT BREAKERS

- 1 Distribution Panel Board, Rating 480V 'MSB-BPS'
- 2 VFD Mains Circuit Breaker - Insulated Case - Electronic Trip - Primary Injection, Rating 400A Main
- 6 Clean Breakers, open and replenish internal lubrication, Rating 20A 'GE Spectra RMS Breakers'

XI. **Solids Building DV5- MCC5**

- 1 Main Breaker - Molded Case - I-Limiter 600A
- 3 Main Breaker - Molded Case - I-Limiter 150A Recycle Pump 1-3
- 1 Main Breaker - PBJ QOB - Molded Case - I-Limiter 150A Recycle Pump 1-3
- 3 Main Breaker for VFD -ABB - Molded Case - 250 VFD 1-3

XII. DAF _DPI

- 1 800 A main Square D Electric Trip
- 2 300 A Molded Case DPI
- 1 400 A Molded Case Centrefuge
- 1 250 A Molded Case CP24910
- 2 150 A Molded Case CB 7 and 8

XIII. MCC LCP-9

- 1 100A MAIN Molded Case Square D

XIV DC04 - PCP4402

- 1 600A Molded Case Square D
- 1 400A Molded Case Square D
- 1 600A Molded Case VFD MAIN Square D

XV Treated Water Pump Station

- 1 600 A Molded Case MAIN Square D
- 3 250 Molded Case

XVI 1 150A Molded Case Eaton