GENERAL ORDER 165

UTILITY MAINTENANCE MANAGEMENT SYSTEM

REPORT FOR

2019

This report presents the results of annual inspection and maintenance of electric distribution facilities of the City of Moreno Valley's Electric Utility (MVU) covering the period from January 1, 2019 to December 31, 2019.

MVU's electronic Utility Maintenance Management System (UMMS) is used to collect all data subject to GO 165. Each month, UMMS prepares a report showing the various pieces of equipment that are due for inspection or maintenance the following month based on the original equipment installation date recorded on UMMS or the date of the last inspection or maintenance of a specific piece of equipment. The report identifies the required equipment maintenance or inspections by structure or equipment number and is also documented in MVU's Geographic Information System (GIS) maps. A handheld Mobile Date Terminal (MDT) is used by field personnel to record all inspections and maintenance of each item of equipment. The data from the MDT is up-loaded daily to the UMMS. The maintenance history is archived for each piece of equipment in UMMS. A monthly report is generated from UMMS that identifies any equipment that may be overdue for inspection or maintenance for immediate follow-up.

All items requiring repair and maintenance were addressed and corrected as they were identified. The only type of equipment that required maintenance during calendar year 2019 were street lights.

Summary

MVU's aim during General Order 165 inspections is to plan, report and maintain electrical grid equipment in a timely manner in accordance with General Order guidelines.

GENERAL ORDER 165

MAINTENANCE

2019 REPORT

Main Category	Type of Equip./ Structure	Total Structures in 2019	Scheduled for Inspection in 2019	Percent Scheduled for Inspection in 2019	Types of Inspections		Mainten-ance	Total inspected in 2019	Percentage Scheduled and Inspected in 2019
					Patrol	Detail			
Below Ground Equipment									
	Gas Switch	21	19	90.48%	0	20	0	20	105.26%
	Burd Transformer	2	2	100.00%	1	1	0	2	100.00%
Surface Mounted Equipment									
	Capacitors	25	25	100.00%	21	4	0	25	100.00%
	Fuse Cabinets	5	4	80.00%	4	1	0	5	125.00%
	Interconnect	6	6	100.00%	0	6	0	6	100.00%
	Switch	148	140	94.59%	126	14	1	140	100.00%
	Transformer	737	708	96.07%	682	39	0	721	101.84%
	Pad Mounted Junction	1	1	100.00%	1	0	0	1	100.00%
Vaults and Substructure Enclosures									
	Structures (MH, PB/SB, V)	361	96	26.59%	82	14	0	96	100.00%
Street Lighting									
	Street Light	2099	2048	97.57%	2090	0	24	2090	102.05%

MVU CMP INSPECTION CYCLES

MVU Inspection Cycles
(Maximum Intervals in Years)

	PATROL* Urban	DETAILED** Urban
Below Ground Equipment		
Blowers and Thermostat	N/A	N/A
Fuse Cabinets	Annual	YEAR 3
Transformers	Annual	YEAR 3
Gas Switches	Annual	YEAR 3
Surface Mounted Equipment		
Pad Mounted Capacitors	Annual	YEAR 5
Pad Mounted Transformers	Annual	YEAR 5
Pad Mount Fuse/ Switch	Annual	YEAR 5
Vaults and Substructure Enclosures***		
Structures	With Equipment	
Cable	With Equipment	
Terminations	With Equipment	
Splices	With Equipment	
Street Lighting	Annual	

*Patrol is defined as a simple visual inspection that is designed to identify obvious problems and hazards as well as GO 95 and GO 128 infractions.

**Detailed inspection is defined as one where individual pieces of equipment and structures are carefully opened and examined.

***Vaults and Substructure Enclosures without Equipment (Splices only) – Self-imposed, not required per General Order 165.

NOTE: MVU has no overhead facilities.