

June 29, 2020

Mr. Fadi Daye Public Utilities Commission Safety and Enforcement Division Electric Safety and Reliability Branch 320 West Fourth Street, Suite 500 Los Angeles, CA 90013

Southern California Edison's

2019 General Order 174 Inspection Program Summary

Dear, Mr. Daye:

Attached is a copy of Southern California Edison's Substation Inspection Program. Also enclosed is the General Order 174 Report summarizing completed and past due inspections for 2019.

If you have any questions please give me a call.

Sincerely,

Joel D. Karzen Senior Manager, Compliance Integration 1 Innovation Way Pomona, CA 91768

Attachments

2019 General Order 174 Report

Inspection Type	Completed*	Past Due*	Notes
GO 174 Substation Inspection	5,027	0	

*Completed - Actual number of GO 174 inspections performed for the reporting period. Does not include outstanding inspections from prior reporting periods.

*Past Due - The number of GO 174 inspections not performed for the reporting period. Does not include outstanding inspections from prior reporting periods.



Transmission & Distribution Business Unit	GO 174	Version #	8
Substation Inspection Practices		Effective Date	6/26/2020

Southern California Edison Company

GO 174 Substation Inspection Practices

T&D Business Line	Signature	Annual Review Date
Compliance Integration	Joel Karzen	6/26/2020
Senior Manager	2	

July 2020



Transmission & Distribution Business Unit	GO 174	Version #	8
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1.0 INTRODUCTION

This document describes the Practices employed by the Southern California Edison Company (SCE) for the inspection of substations.

2.0 PURPOSE

The intent of these Practices is to help ensure the safe delivery of reliable power in a costeffective manner and compliance with applicable regulatory requirements.

These Practices are based in part upon internal system knowledge, experience, and expertise, as well as accepted Good Utility Practice, and takes into consideration competing influences, such as operating protocols and emergency conditions.

3.0 APPLICABILITY

Facilities subject to the California Independent System Operator's operational control and/or subject to FERC reliability standards and Customer Substations are exempt from this General Order.

4.0 DEFINITION OF TERMS

4.1. Annual

A calendar year.

4.2. Discrepancy

A condition that does not conform to regulatory requirements, SCE's inspection standards or operational requirements.

4.3. Good Utility Practice

Any of the practices, methods, and acts engaged in or approved by a significant portion of the electric utility industry during the relevant time period, or any of the practices, methods, and acts, which, in the exercise of reasonable judgment in light of the facts known at the time the decision was made, could have been expected to accomplish the desired result at a reasonable cost consistent with good business practices, reliability, safety, and expedition. Good Utility Practices is not intended to be any one of a number of optimum practices, methods, or acts to the exclusion of all others, but rather acceptable practices, methods, or acts generally in practice in the region.

4.4. Inspection

A basic visual evaluation of substation facilities for the purpose of identifying discrepancies.

4.5. Station Log

A business record of events occurring within a Station.

4.6. Substation/Station

The secured site or location containing facilities uniquely located and under the control of qualified SCE employees, through which energy is passed for the purpose of switching and/or transformation.

4.7. Customer Substation:

A substation that functions as the main source of electric power supply for a single customer, including those that provide feed through for additional customers. Customer substations are not subject to the reporting requirements in section 6.1.5.

4.8. Operator

The person qualified by reason of training, experience, and instruction, responsible for inspecting substations.

4.9. Work Management System (WMS)

The interactive database(s) used to collect inspection data.

5.0 **RESPONSIBILITIES**

5.1. Transmission and Distribution (T&D)

5.1.1. Grid Operations

Responsible for the 24-hour operation of the electric system and substation inspection.

5.2. Generation

Responsible for the inspection of substation facilities in and around generating stations as well as certain substations in remote locations through agreement with Transmission & Distribution (T&D).

6.0 PRACTICES

6.1. Inspection

6.1.1. Scheduled

Each substation should be inspected by an operator based on the intervals listed in Attachment A for that particular substation. The inspection intervals are based in part upon internal system knowledge, experience and expertise, as well as accepted Good Utility Practice. EXCEPTION: Less inspections than specified in Attachment A may be conducted if limited due to reasonable circumstances such as extreme weather (e.g. snow), no access, or system emergencies (e.g. fires, storms, etc.) prevent such inspections from being conducted.

When the operator enters an unattended station an entry should be made in the station logbook. Note: Manned substations do not contain logbooks. Identified discrepancies that require immediate action are communicated to the appropriate supervisor. The remaining discrepancies found during inspections are noted on the electronic inspection forms. Responsible supervisors review identified discrepancies and assign a priority rating.

6.1.2. Unscheduled

Unscheduled inspections may also be performed during routine operational activities such as switching, or in response to storms, fires or other events. The performance of an unscheduled inspection is not typically documented except for entries made in the substation log book and any discrepancies discovered and entered in the WMS.

6.1.3. Facilities

Facilities include: Batteries; Buses; Capacitor Banks; Circuit Breakers; Fire Detection/Suppression (where applicable); Grounding; Insulators/Bushings/Arresters; Perimeter Fencing and Gates; Reactors; Structures; Transformers; Voltage Regulators.

6.1.4. Record Keeping

Records include the following information: Inspector name or identifier; inspection date; and a brief description of identified discrepancies. Inspection records are retained for not less than five (5) years.

6.1.5. External Reporting

Upon request, records and documents are transmitted to Maintenance, Performance and Reliability (MPR) to facilitate required reporting. No later than July 1st of each year, MPR transmits to the Safety and Enforcement Division (SED) a report summarizing completed and past due Inspections for the prior calendar year.

Changes to these Practices are noted in the Inspection Program Summary, including the effective date of the change. The report includes any changes made to the Program since the previous report.

6.1.6. External Audits

T&D Compliance Integration coordinates and leads external compliance audits and serves as a regulatory interface with SED staff.

6.1.7. Notification Prioritization

Notifications must be properly prioritized. Prioritization is essential in determining end dates for the anomalies. SCE utilizes three (3) priorities that are defined in Table 1 below:

Priority	Priority Description
1	Potential risk to safety or equipment reliability. Must be addressed immediately.
2	Repair or reassess by prescribed due date or within 6 years . Does not pose an immediate threat to safety or equipment reliability.
3	Opportunity work to be completed upon next inspection period or when time, resources, and/or schedule permit.

Table 1 – GO 174 Notification Priorities

7.0 REVISONS

Section	Subsection	Description	Date
5.0	5.1	Revision of inspection requirements language and provisions.	6/11/2014
5.0	5.1	Revision of inspection requirements language and provisions.	7/1/2015
5.0	5.1.5 5.1.6	Changed RPPM to MPR, to reflect current name of group	7/1/2015
5.0	5.1.1	Revisions to logbook entries for manned substations	7/1/2016
Attachment A		Updated Substation List, to include new substations	6/27/2017
3.0		Added section 3.0 Applicability.	6/27/18
4.0	4.6.1	Corrected section reference	6/27/18
Attachment A		Updated Substation List, to include new substations and removed out of service stations	6/27/18
Attachment A		Updated Substation List, to include new substations.	6/27/2019
5.1		Moved Grid Operations under section 5.1 and created a sub-section 5.1.1 since this business unit is under the T&D organization.	6/27/2019
5.2		Changed Generation Business Unit and Power Production Division (PPD) to Generation to reflect current name of group.	6/27/2019
6		Minor edits for added clarity.	6/27/2019
Attachment A		Updated Substation List, to include new substations and removed out of service substations.	06/26/2020
6		Added a new sub-section 6.1.7. Notification Prioritization.	06/26/2020

Attachment A

Bi-Monthly Substation Inspections

The following substation should be inspected bi-monthly (every other month), but at a minimum five (5) times annually:

Acton
Aerojet
AFG
Air Products
Alder
Alessandro
Alhambra
Alon
Altwind
Amador
Amalia
Amargo
Amboy
Amco
Ameron
Anaverde
Anita
APL
Apollo
Appgen
Apple Valley
Aqueduct
Arbors
Arbwind
Arcadia
Archibald
Archline
Arco
Arro
Arrowhead
Arroyo
Astro
Athens
Atwood
Auld
Azusa
Bain
Baker

,
Bandini
Banducci
Banning
Banwind
Barstow
Bartolo
Bassett
Basta
Bayside
Beaumont
Bedford
Belding
Belmont
Belvedere
Beverly
Bicknell
Big Creek 2 PH
Bishop Creek Plant 2
Bishop Creek Plant 3
Bishop Creek Plant 4
Bishop Creek Plant 5
Bishop Creek Plant 6
Bixby
Black Mountain
Blast
Bliss
Bloomington
Bluff Cove
Blythe City
Bolsa
Boost
Borel
Borrego
Bottle
Bovine
Bowl
Boxwood
Bradbury

Brea
Breeze
Brew
Brewster
Bridge
Bridgeport
Brighton
Broadway
Brookhurst
Browning
Bryan
Bryman
Buckwind
Bullis
Bunker
Burnt Mill
Burpit
Cabazon
Cabrillo
Cady
Cajalco
Cal Cement
Calcity
Calden
Calectric
Camarillo
Camden
Cameron
Camgen
Camino
Camp 10
Cantil
Canwind
Canyon
Canyon Lake
Capitan
Capsule
Captive

Capwind
Carbogen
Carbonic
Cardiff
Carmenita
Carnival
Carodean
Carolina
Carpinteria
Carson
Casa Diablo
Casitas
Cathedral City
Cedarwood
Certified
Channel Islands
Charmin
Chase
Chatham
Chatsworth
Cherry
Chestnut
Chevcentral
Chevgen
Chevmain
66kv
Chip
Chiquita
Cimgen
Citrus
Claremont
Clark
Cleargen
Clementine
Coffee
Colegio
College
Colonia

Colorado	
Colossus	
Colton	
Colton Cemen	t
Columbine	
Compress	
Compton	
Concho	
Converse Flats	5
Corners	
Cornuta	
Corona	
Correction	
Cortez	
Corum	
Cosmic	
Coso	
Costa Mesa	
Cottonwood	
Coygen	
Crater	
Crest	
Crestmore	
Crown	
Cryco	
Cucamonga	
Cudahy	
Culver	
Cummings	
Cyber	
Cypress	
Daggett	
Dairymans	
Daisy	
Dalton	
Databank	
Davidson City	
Declez	

Deep Springs
Defrain
Del Mar
Del Rosa
Del Sur
Delano
Desal
Desert Outpost
Diamond Bar
Diemer
Dike
Ditmar
Dock
Doheny
Domhill
Douglas
Dougoil
Downey
Downey Med
Downs
Duarte
Dunes
Dunn Siding
Dutchwind
Earlimart
East Barstow
Eaton
Edinger
Edwards
Eisenhower
El Sobrante
Elcans
Elizabeth Lake
Ellwood
Elsinore
ELY
Enwind
Eric
Estero
Estrella
Euclid
Fair Oaks
Fairfax
Fairview
Falcon Ridge

Farrell
Federalgen
Felton
Fernwood
Fibre
Fillmore
Finance
Firehouse
Fish Lake Valley
Floraday
Flowind
Fogarty
Fontana PH
Forest Home
Forge
Fort Irwin
Francis
Frazier Park
Fremont
Fruitland
Fuel
Fullerton
Gage
Galaxy
Gale
Gallatin
Ganesha
Garfield
Garnet
Garvey
Gatx
Gavilan
Gaviota
Genamic
Gene
George A.F.B.
Getty
Gilbert
Gisler
Glen Avon
Glen Ivy
Glennville
Glow
Goldhill
Goldstone

Goldtown
Gonzales
Gorman
Goshen
Graham
Granada
Grand Crossing
Grapeland
Great Lakes
Greenhorn
Greening
Growers
Haagen
Hamilton
Hanford
Hanjin
Harvard
Haskell
Hathaway
Havasu
Haveda
Havilah
Hedda
Helendale
Helijet
Hemet
Hesperia
Hi Desert
Highgrove
Highland
Hillgen
Hinkley
Holgate
Holiday
Hollywood Park
Homart
Hopeful
Howard
Hoyt
Hughesair
Hughtron
Huntington Park
Huston
lcegen
Imperial

Indian Wells
Indigo
Industry
Inglewood
Injection
Inland Container
Inyokern Town
Iron Mountain
Irvine
Isabella
Isla Vista
lvar
lvyglen
Jefferson
Jersey Jose
Joshua Tree
Junction
June Lake
Karma
Kaweah No. 1
Kaweah No. 2
Kaweah No. 3
Kawgen
Kem
Kempster
Kern River 1
Kern River 3
Kernville
Kerrgen
Kimball
Kinder
Kirkwall
Kiwi
La Canada
La Habra
La Mirada
La Palma
La Veta
Lafayette
Lakeview
Lakewood
Lambert
Lampson
Lancaster

1 .
Landing
Lanpri
Larder
Lark Ellen
Las Lomas
Latigo
Laurel
Lawndale
Layfair
Leatherneck
Lee Vining
Lehman
Lemon Cove
Lennox
Levy
Liberty
Limestone
Linde
Linden
Lindsay
Line Creek
Liquid
Little Rock
Live Oak
Lockheed
Locust
Longdon
Loraine
Los Cerritos
Losulfur
Lourich
Lucas
Lucerne
Lunada
Lundy
Lynwood
Lytle Creek PH
Macarthur
Macneil
Madrid
Magmagen
Malibu
Manhattan
Maraschino
Marine

Marion
Mariposa
Marymount
Mascot
Maxwell
Mayberry
Mayflower
Mcgen
Mcgrath
Mentone
Merced
Metalcan
Michillinda
Midwind
Military
Mill Creek 3
Milliken
Minaret
Minneola
Missile
Mobiloil
Modena
Modoc
Moneta
Monolith
Monrovia
Montecito
Moog
Moraga
Moreno
Morningside
Morro
Morwind
Moulton
Mountain Pass
Mountwind
Moval
Movie
Mt. Tom
Mt. Vernon
Murphy
Murrietta 2
Muscoy
Naomi
Naples

NarrowsNaturalNavy MoleNelsonNeptuneNewburyNewcombNewhallNewmarkNiagaraNietosNiguelNogalesNolaNorth IntakeNorth MurocNorth OaksNorthropNorthwindNorgetOak GroveOak GroveOak ParkOakwindOasisOcean ParkOceanviewOctolOjaiOldfieldOlive LakeOlympicOntario PH 1Ontario PH 2OrangeOrcosanOrdway	
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Oneill Onshore Ontario Ontario PH 1 Ontario PH 2 Orange Orcogen Orcosan Orcosan Ordway Oro Grande	Olive Lake
Onshore Ontario Ontario PH 1 Ontario PH 2 Orange Orcogen Orcosan Ordway Oro Grande	Olympic
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Orcogen Orcosan Ordway Oro Grande	Ontario PH 2
Orcosan Ordway Oro Grande	Orange
Ordway Oro Grande	Orcogen
Oro Grande	Orcosan
	Ordway
Ortega	Oro Grande
	Ortega

Outfall
Oxgen
Pacline
Palm Canyon
Palm Springs
Palm Village
Palmdale
Palos Verdes
Pan Aero
Pandol
Paper
Parkwood
Passons
Pauba
Paularino
Pearl
Pebbly Beach
Pechanga
Pedley
Peerless
Pepper
Perez
Perry
Peyton
Pharmacy
Phelan
Pico
Pier
Pierpont
Pioneer
Pipe
Pitchgen
Pitman
Piute
Pixley
Placentia
Plastic
Playa
Pluess
Polaris
Polypro
Pomona
Poole PH
Poplar
Portal
- ortai

Porterville
Potrero
Procal
Process
Procgen
Proctor
Protein
Puente
Purewater
Purify
Quartz Hill
Quinn
Railroad
Ralphs
Ramona
Rancho
Randall
Randolph
Randsburg
Ravendale
Reclaim
Recovery
Rectifier
Redlands
Redman
Redondo
Redondo 66kv
Reduction
Refinery
Refuse
Reno
Renwind
Repetto
Revital
Rialto
Ridgecrest
Ringmill
Ripley
Riteaid
Ritter Ranch
Rivera
Rivertex
Riverway
Rockair
Rocket Test

Rolling Hills
Rosamond
Rosecrans
Rosemead
Royal
Rubidoux
Running Springs
Rush
Rush Creek
San Antonio
San Dimas
San Fernando
San Gabriel
San Marcos
San Marino
San Miguel
San Vicente
Sanigen
Santa Ana PH 1
Santa Ana River 3
Santa Barbara
Santa Fe Springs
Santa Monica
Santa Rosa
Santa Susana
Santee
Sanwind
Saticoy
Saugus
Savage
Sawtelle
Seabright
Searles
Seawind
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Three Rivers
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Wabash
Wakefield
Walker Basin
Walteria
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Wesbasin
West Barstow
West Riverside
Westex
Westhill
Westpac
Weymouth
Wharf
Wheatland
Whipple
White Mountain
Whitewater
Willamette
Wilsona
Wimbledon
Windsor Hills
Woodruff
Woodville
Wrightwood
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