

June 28, 2021

VIA ELECTRONIC MAIL

Fadi Daye California Public Utilities Commission Safety Enforcement Division 505 Van Ness Avenue San Francisco, CA 94102-3298 fadi.daye@cpuc.ca.gov ESRB_ComplianceFilings@cpuc.ca.gov

RE: PacifiCorp (U 901 E), General Order 174 Substation Inspection Program Summary and Annual Report on Completed Substation Inspections

Dear Mr. Daye,

In accordance with General Order (GO) 174, PacifiCorp, d/b/a Pacific Power (PacifiCorp or Company) submits its Substation Inspection Program Summary and the annual report on Completed Substation Inspections.

Section 40.1 of GO-174 provides that no later than July 1, each electric utility shall submit an Inspection Program Summary. In addition, changes to the program summary are required to be reflected in the Inspection Program Summary. The Company's Substation Inspection Program Policy is provided as Appendix A. Appendix B provides the Substation Inspection Form, Appendix C provides the Substation Security Inspection Form (3274S), and Appendix D provides the Substation Inspection Intervals.¹ Since the last GO-174 report was submitted for calendar year 2014, there have been no changes to the Substation Inspection Program Policy.

GO-174, Section 40.2, requires each electric utility to provide a report summarizing the number of completed and past due substation inspections. Please refer to Appendix E. There are no past due inspections from 2020.

If you have any questions concerning this report, please contact Pooja Kishore, Regulatory Affairs Manager, at (503) 813-7314.

Sincerely,

Shilly McCoy

Shelley McCoy Director, Regulation

Enclosures

¹ This is an excerpt from Policy 001 (Rev 27) and is provided to show the intervals for substation inspections in California.

Appendix A Substation Inspection Program Policy



SUBSTATION INSPECTION

Asset Management Policy No. 034

Author (R3):	Jon Moulton
Approval:	Amy McCluskey, Pacific Power
Approval:	Joshua Jones, Rocky Mountain Power
Authoring department:	Asset Management
Approved location:	J:\Publications\FPP\SUB\POL
File number-name:	034-Substation Inspection.docx
Revision number:	4
Revision date:	12/17/19

		Revision Log
1	1/6/2005	
2	2/6/2012	Reformat – revise interval reference.
3	11/1/2012	Clarify field load reading requirements.
4	12/17/2019	Incorporate Berkshire Hathaway Energy (BHE) Mission 3 requirements into policy.

	Document Sec	urity (Category
	Confidential		External
	Restricted		BES Cyber System Information (BCSI)
Х	Internal		

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SUBSTATION INSPECTION

Asset Management Policy No. 034

1 Purpose

This policy provides the general requirements and objectives for the performance of physical inspections of substation facilities associated with the transmission and distribution system owned by PacifiCorp.

2 References

- PacifiCorp Policy No. <u>001</u>, Maintenance Intervals for Apparatus, Relay and Communication Equipment
- PacifiCorp Policy No. <u>166</u>, *Maintenance and Inspection Records*
- PacifiCorp Form <u>3274F</u>, PacifiCorp T&D Substation Inspection
- PacifiCorp Form <u>3274S</u>, Substation Security Inspection

3 Objective

Substation inspections include a visual inspection of substation components, performance of minor testing or operational tasks, performance of minor housekeeping tasks and the recording of various equipment readings and measurements. The purpose of these tasks is to check the security of the substation, note obvious defects in equipment installation or performance, verify the physical operation of certain equipment and record data that is used by others for load planning or maintenance planning purposes. Discrepancies or issues found during the performance of inspections may be corrected on site immediately, or noted on the inspection documentation and prioritized for later repair.

- **3.1** Intervals: Substations shall be inspected on a periodic basis per the intervals and requirements listed in Policy 001, *Maintenance Intervals for Apparatus, Relay and Communication Equipment*.
- **3.2** Scope: The requirements for the scope of substation inspections are as listed on forms 3274F and 3274S. Field offices may use these forms, or their functional equivalents, which may be customized for each individual substation. The scope of a substation inspection includes:
 - **1.** Substation security inspection
 - 2. Substation physical inspection / operational tests
 - 3. Recording operational counters and load readings
- **3.3** Frequency: The frequency of inspections and/or their components are determined by Policy 001. However, substation security inspections are not to be longer than six months apart.
- **3.4** Deficiencies: Where applicable, deficiencies identified during the substation security inspection pertaining to substation security controls will be corrected within 30 days to ensure adherence to Berkshire Hathaway Energy Mission 3 cybersecurity requirements. Where 30-day correction of this subset of deficiencies is not possible, compensating controls must be implemented to mitigate associated risks until the deficiency can be corrected. The specific subset of deficiencies pertaining to



substation security controls that require this 30-day correction are noted on Form 3274S.

- **3.5** Documentation : Inspection records shall be stored and retained per the requirements of Policy 166, *Maintenance and Inspection Records*.
- **3.6** Use of SCHOOL System: It is preferred that load readings be recorded with the use of SCHOOL handheld computers. The readings are then uploaded to the SCHOOL system. As an alternative, readings may be taken manually and then entered into SCHOOL using the Manual Logger PC Software. For stations with SCADA where readings are entered into school directly from the SCADA system, field readings need not be taken.

Appendix B Substation Inspection Form 3274F



Asset Management Form No. 3274F

PACIFICORP T&D SUBSTATION INSPECTION

Author:Brandon PrescottApproval:Jack VranishAuthoring Department:Asset ManagementApproved Location:PacifiCorp.us\Dfs\Pdxco\Shr04\Eng\Publications\FPP\SUB\FORMSFile Number-Name:3274F-FORM-PacifiCorp T and D Substation Inspection.xlsxRevision Number:R10Revision Date:3/9/2015

http://idoc.pacificorp.us/content/dam/intranet/doc/ap/policies_and_procedures/eamp/sc/fpp/[3274F.xlsx] The most current version of this document is posted to PacifiCorp's engineering websites. Modification of this document must be authorized by engineering publications, (503) 813-5096.

Form # 3274F Rev 10 3/9/15	PAC	IFICORP T&D SUBSTATI	ON INSPECTION
Substation Name:	Date: / /	Inspector:	Work Order #:

Type of inspection conducted: Minor Inspection
Major Inspection

Instructions:

- Complete a Substation Security Inspection Form for <u>all</u> inspections.
- For *Minor Inspections* complete the Substation Security Inspection Form and all fields except those labeled "only required for Major Inspections".
- For *Major Inspections* complete the entire packet.
- All completed inspection forms shall be given to the local substation manager.
- See <u>Policy 001</u> for inspection interval requirments.

Substation Operations Manager Review

Manager:	Date:	Signature:

For Results use A = Acceptable, D = Deficiency Noted, C = Corrected, and N/A = Not ApplicableFor any items marked "D" or "C", a detailed explanation shall be provided in the comments section.

	EMERGENCY GENERAT	ORS				
			RES	ULTS		COMMENTS
1	Block heater functioning properly	Α	D	С	N/A	
2	Check room heaters	Α	D	С	N/A	
3	Check air louver operation					
4	a. Closed if unit is off	Α	D	С	N/A	
5	b. Open if unit is running (do not start generator)	Α	D	С	N/A	
6	Check for any alarms	Α	D	С	N/A	
7	Record level of fuel in tank (indicate Gallons or Inches)					
8	Check engine oil level	Α	D	С	N/A	
9	Check radiator fluid level	Α	D	С	N/A	
10	Check for oil and water leaks	Α	D	С	N/A	
11	Check battery water level	Α	D	С	N/A	
12	Sweep / clean area and perform any necessary housekeeping					

	STATION and	SELF-	CONT	AINE	D BREAK	ER BAT	TERY	BAN	KS				
			Com	bany	ID	(Comp	any II	D		Comp	bany l	D
13	Visual Bank Inspection (leaks / corrosion)	Α	D	С	N/A	Α	D	С	N/A	Α	D	С	N/A
14	Record Bank Voltage												
15	Record Charger Current (if available)												

********** Remainder of page only required for Major Inspections **********

BATTERY BANK TESTING

Note: On 125V banks, if voltage drops below 111V at any time turn charger on immediately. On 48V banks, if voltage drops below 44V at any time turn charger on immediately. Contact manager for further testing instructions if battery drops below these threshold voltages. Ensure voltage has returned to normal for each bank prior to leaving substation.

		Comp	bany	D		Comp	bany l	D		Comp	any I	D
16 Turn Off Charger												
17 Record Bank Voltage												
18 Leave Charger Off For 15 Minutes												
19 Record Bank Voltage												
20 Turn On Charger												
21 Record Charger Voltage												
22 Record Charger Current												
23 Battery water levels	Α	D	С	N/A	Α	D	С	N/A	Α	D	С	N/A
24 Scan battery/connections with IR device	Α	D	С	N/A	Α	D	С	N/A	Α	D	С	N/A
25 Alarms clear	А	D	С	N/A	Α	D	С	N/A	Α	D	С	N/A
26 Battery Ground Present		Yes	No)		Yes	No)		Yes	No)

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	CONTROL HOUSE					
			RES	ULTS		COMMENTS
1	Annunciator alarms (Document alarms and notify dispatcher and local manager. Clear alarms if possible.)	A	D	С	N/A	
2	Abnormal condition log book available (If not, tag and log conditions and notify dispatcher and local manager)	А	D	С	N/A	
3	Check SCADA alarms prior to leaving (Contact dispatch to check for SCADA alarms)	A	D	С	N/A	
5	Hot Stick inspection current	А	D	С	N/A	
6	Security Inspection forms completed and filed (dispose after 7 years)	А	D	С	N/A	
7	Heater / Air Conditioner function (heater set at 70°, A/C set at 78°) Temperature should be 60°F - 80°F.	A	D	С	N/A	

********** Remainder of page only required for Major Inspections ***********

		· ·	-		. 1	
8	Telephone function	A	D	С	N/A	
9	Doors / Windows locked and in good condition	Α	D	С	N/A	
10	Painting (Inside and outside) condition	Α	D	С	N/A	
11	Roof condition	Α	D	С	N/A	
12	Lighting condition / spare bulbs available		[
13	Spare transformer fuse(s) condition	Α	D	С	N/A	
13	Fuse Types:	A	D	C	Ν/Α	
14	Spare PT fuse(s) condition	А	D	С	N/A	
14	Fuse Types:	A	U	C	N/A	
15	One-line diagram available (Revision #)	Α	D	С	N/A	
16	Entry log book available / used properly	Α	D	С	N/A	
17	SPCC Inspection form completed	Α	D	С	N/A	
18	Clearance tags available		[
19	1-Year switching order history stored onsite (discard older orders)	Α	D	С	N/A	
20	AC and DC panels – No tripped breakers	Α	D	С	N/A	
21	Panel meters functioning	Α	D	С	N/A	
22	Circuit breaker/switch indication lights working (Red or Green)	Α	D	С	N/A	
23	Hot line indication lights	Α	D	С	N/A	
24	Panel switches in normal position or tagged	_	D	6	NI / A	
24	Reclosing, ground, SCADA Control, etc.	A	D	С	N/A	
25	Spare lamps available for control lights (red, green amber, white)	Α	D	С	N/A	
26	Electronic meters alarm lights cleared	Α	D	С	N/A	
27	Relays alarm lights cleared and recorded	Α	D	С	N/A	
28	Relay targets logged and cleared	Α	D	С	N/A	
29	Communication equipment alarms (note if present only)	Α	D	С	N/A	
20	Update relay cards (Pacific Power only)	^	D	C	NI / A	
30	Note Any Targets Without Associated Breaker counts	A	U	С	N/A	
31	Trip coil indicator lights	Α	D	С	N/A	
	CONADAENTS	-				

CIRCUIT BREAKERS / CIRCUIT SWITCHERS / TRANSRUPTERS

For Results use A = Acceptable, D = Deficiency Noted, C = Corrected, and N/A = Not ApplicableFor any items marked "D" or "C", a detailed explanation shall be provided in the comments section.

* Meter readings required only if they have not been recorded using Subview or other data collection methods. Inspectors may use alternate data collection sheets if available.

	READINGS (reset drag hands after readings)	С	omp	any	' ID	C	omp	bany	' ID	C	omp	any	/ ID	Comments
1	Record/Reset Relay Targets													
2	* Amp Demand - A Phase													
3	* Amp Demand - B Phase													
4	* Amp Demand - C Phase													
5	* Amp Demand Multiplier													
6	* MegaWatt Max Demand													
7	* MegaVAr Max Demand (+/-)													
8	Air compressor tank pressure	А	D	С	N/A	А	D	С	N/A	А	D	С	N/A	
9	SF6 pressure	А	D	С	N/A	А	D	С	N/A	А	D	С	N/A	
10	Visual inspection for oil leaks,	А	D	С	N/A	А	D	С	N/A	А	D	С	N/A	
10	contamination and corrosion	A	U	C	N/A	~	U	C	N/A	~	U	C	N/A	

********* Remainder of page only required for Major Inspections **********

11	Operations counter															
12	Fault operations (Pacific Power only)															
13	Air compressor hours															
14	Compressor oil level	А	D	С	N/A	А	D	С	N/A	А	D	С	N/A			
15	Lube compressor air intake														Γ]
	Drain water from air tank (only when average															
16	temperature is above freezing)		Yes	1	No		Yes	ſ	No		Yes	1	No			
17	SF6 compressor hours															
18	SF6 Pressure	А	D	С	N/A	А	D	С	N/A	Α	D	С	N/A			
19	SF6 Targets (switchers/transrupters only)	Α	D	С	N/A	А	D	С	N/A	Α	D	С	N/A			
20	Hydraulic pump hours															
21	Hydraulic pump starts															
22	Hydraulic oil level	Hi	gh	Ok	Low	Hi	gh (Ok	Low	Hi	gh	Ok	Low			
23	Cabinet vents clear	А	D	С	N/A	А	D	С	N/A	А	D	С	N/A			
24	Cabinet/Tank heaters operable	А	D	С	N/A	А	D	С	N/A	Α	D	С	N/A			
25	Cabinet door seal/operation	А	D	С	N/A	А	D	С	N/A	Α	D	С	N/A			
26	Bushing condition	А	D	С	N/A	А	D	С	N/A	А	D	С	N/A			
27	Tank grounded	ŀ	A D	С	NA	A	A D	С	NA	ŀ	٩D	С	NA	Α	D	C NA
28	Bushing oil levels	Hi	gh	Ok	Low	Hig	gh (Ok	Low	Hi	gh	Ok	Low			
	Active Oil leaks present	А	D	С	N/A	А	D	С	N/A	А	D	С	N/A			
29	(visible oil leaks should be cleaned)	~		Ŭ	,,,	^`		Ŭ	,,,	~		Ŭ	,,,			
	Mechanism for containing oil leak in													1		
30	place/maintained	А	D	С	N/A	А	D	С	N/A	А	D	С	N/A			
31	Tank oil level	Hi	gh	Ok	Low	Hig	gh	Ok	Low	Hi	gh	Ok	Low			
	CONADACNITC															

TRANSFORMERS / REGULATORS / LTC'S / REACTORS

For Results use A = Acceptable, D = Deficiency Noted, C = Corrected, and N/A = Not Applicable

For any items marked "D" or "C", a detailed explanation shall be provided in the comments section.

* Meter readings required only if they have not been recorded using Subview or other data collection methods. Inspectors may use alternate data collection sheets if available.

	READINGS (reset drag hands after readings)	C	Comp	bany	' ID	C	Comp	bany	/ ID	C	omp	bany	' ID	C	omp	bany	ID
1	LTC counter																
2	Average daily counts (note 1)																
3	Drag hands - Max Raise (reset after reading)																
4	Drag hands - Max Lower (reset after reading)																
5	Main tank infrared temp																
6	LTC tank infrared temp																
7	Main tank - LTC Tank (note 2)																
8	Winding temp. max (reset after reading)																
9	Oil temp. max (reset after reading)																
10	* Amp Demand - A Phase																
11	* Amp Demand - B Phase																
12	* Amp Demand - C Phase																
13	* Amp Demand Multiplier																
14	* KWHr																
15	* MegaWatt Max Demand																
16	* MegaVAr Max Demand (+/-)																
17	* MegaVAr Min Demand																
18	Visual inspection for oil leaks, contamination and corrosion	A	D	С	N/A	А	D	С	N/A	А	D	с	N/A	A	D	С	N/A
19	Nitrogen bottles above 200 psi (less than 200 requires replacement)	А	D	С	N/A	А	D	С	N/A	А	D	С	N/A	А	D	С	N/A

Note 1 - Calculate the average daily counts since the previous inspection, notify manager if above 30 per day.

Note 2 - Temperature diffirential = main tank temp - LTC tank temp in °C. Notify manager if much lower than previous reading

********** Page 2 only required for Major Inspections **********

TRANSFORMERS / REGULATORS / LTC'S / REACTORS

********** This page only required for Major Inspections **********

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For any items marked "D" or "C", a detailed explanation shall be provided in the comments section.

	Company ID	Company ID	Company ID	Company ID
20 LTC present position				
21 Test raise controls				
22 Test lower controls				
LTC ran through neutral manually (if acceptable				
23 voltage can be maintained)	Y N N/A	Y N N/A	Y N N/A	Y N N/A
24 LTC desiccant	A D C NA			
25 LTC oil filter pressure				
26 Oil temperature max				
27 Condition of gauges	A D C NA			
28 Test fans / pumps				
29 Record xfmr tank N2 blanket pressure				
30 Gas monitor	A D C NA			
31 Cabinet vents clear	A D C NA			
32 Cabinet heaters operable	A D C NA			
33 Cabinet door seal / operation	A D C NA			
³⁴ No inappropriate CT shorts				
35 Bushing condition	A D C NA			
36 Bushing oil level	A D C NA			
37 Main oil tank level	A D C NA			
38 LTC oil level	A D C NA			
39 Lightning arrestors	A D C NA			
40 Oil leaks present	A D C NA			
41 Tank grounded	A D C NA			
42 Paint condition	A D C NA			

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For any items marked "D" or "C", a detailed explanation shall be provided in the comments section.

	MOABS / AIR BREAK SWITCHES										
		Com	pan	ıy ID	Сс	omp	any ID	Company ID			Comments
1	Blade engaged properly	A D	С	N/A	А	D	C N/A	А	D C	N/A	
2	Handle mechanism grounded	A D	С	N/A	А	D	C N/A	А	D C	N/A	
3	Locked	A D	С	N/A	А	D	C N/A	А	D C	N/A	
4	Visual inspection of motor operator	A D	С	N/A	А	D	C N/A	А	D C	N/A	
5	Broken or chipped insulator skirts	A D	С	N/A	А	D	C N/A	А	D C	N/A	
6	Insulator contamination / corrosion	A D	С	N/A	А	D	C N/A	А	D C	N/A	
7	Switch arcing horns / bottles / whips	A D	С	N/A	А	D	C N/A	А	D C	N/A	

	CAPACITOR BANKS													
		С	om	pai	ny ID	Company ID				Сс	omp	ban	y ID	Comments
8	Control in auto mode (PP only)	Y	Ν		N/A	Y	Ν		N/A	Υ	Ν		N/A	
9	Fuse condition	А	D	С	N/A	А	D	С	N/A	А	D	С	N/A	
10	Spare cap fuses available	Υ	Ν		N/A	Υ	Ν		N/A	Υ	Ν		N/A	
11	Spare bank fuses on site	Υ	Ν		N/A	Υ	Ν		N/A	Υ	Ν		N/A	
	Spare cap cans on site (note quantity in comments)	Υ	Ν		N/A	Υ	Ν		N/A	Υ	Ν		N/A	
12	Bulging / leaking cans present	Υ	N		N/A	Υ	Ν		N/A	Υ	Ν		N/A	
13	Bushing condition	А	D	С	N/A	А	D	С	N/A	Α	D	С	N/A	
14	Barriers and DANGER signs on gates of energized	А	D	С	N/A	^	П	C	N/A	^	П	C	Ν/Λ	
	racks	A	U	C	NA	A	U	C	NA	A	U	C	NA	
15	Visual inspection of capacitor bank	А	D	С	N/A	А	D	С	N/A	А	D	С	N/A	
16	Broke or chipped insulator skirts	А	D	С	N/A	A	D	С	N/A	Α	D	С	N/A	
17	Insulator contamination or corrosion present	А	D	С	N/A	А	D	С	N/A	Α	D	С	N/A	

********* This page only required for Major Inspections ***********

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For any items marked "D" or "C", a detailed explanation shall be provided in the comments section.

SUBSTATION YARD and BUSWORK								
	Res	sults		Comments				
А	D	С	N/A					
А	D	С	N/A					
А	D	С	N/A					
А	D	С	N/A					
А	D	С	N/A					
А	D	С	N/A					
А	D	С	N/A					
А	D	С	N/A					
А	D	С	N/A					
А	D	С	N/A					
А	D	С	N/A					
А	D	С	N/A					
А	D	С	N/A					
А	D	С	N/A					
	A A A A A A A A A A A A A A A	A D A D	Results A D C	ResultsADCN/AADCN/AADCN/AADCN/AADCN/AADCN/AADCN/AADCN/AADCN/AADCN/AADCN/AADCN/AADCN/AADCN/AADCN/AADCN/AADCN/AADCN/AADCN/A				

Appendix C Substation Security Inspection Form 3274S



Form No. 3274S

SUBSTATION SECURITY INSPECTION

Asset Management Form No. 3274S

Author (R2):	Jon Moulton
Approval:	Kevin Freestone, Joshua Jones, Amy McCluskey, Brad Ryan
Authoring Department:	Asset Management
Approved Location:	$PacifiCorp.us \ Dfs \ Pdx co \ Shr04 \ Eng \ Publications \ FPP \ SUB \ FORMS$
File Number-Name:	3274S-FORM-Substation Security Inspection.xlsx
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#N/A

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Form	#3	327	4S
Rev 3	. 21	/10	/20

Rev 3 - 2/10/20

SUBSTATION SECURITY INSPECTION FORM

Substation Name:

Inspector:

Work Order #:

For Results use A = Acceptable, D = Deficiency Noted, C = Corrected and N/A = Not Applicable

1

/

Date:

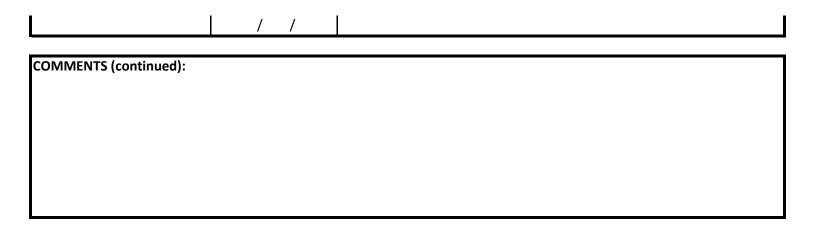
For any items marked "D" or "C", a detailed explanation shall be provided in the comments section.

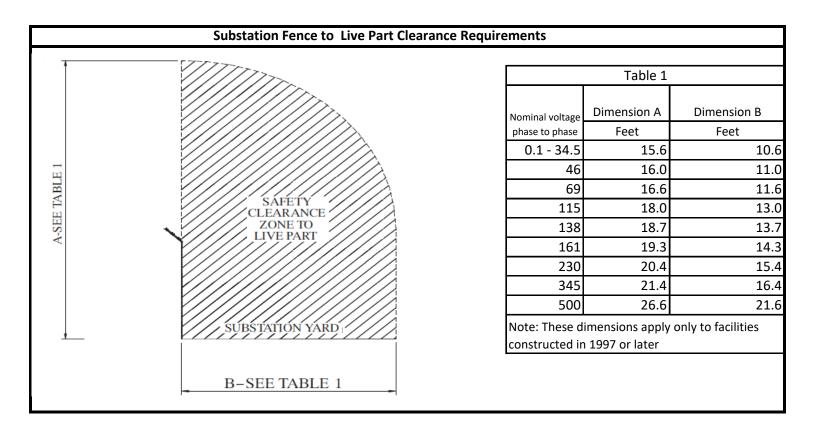
M3* = Mission 3

SIGNAGE - EXTERIOR FENCE									
		RES	ULTS	;	COMMENTS				
(M3)* WARNING sign(s) installed and readable	Α	D	С	NA					
(M3)* WARNING sign(s) location	Δ	П	C	NA					
Signs should be every 65 ft. on all sides and on each gate		U	C	1.1.1					
(M3)* Substation ID sign installed and readable	Α	D	С	NA					

FENCE / GATES / CONTROL HOUSE ENTRY								
		RES	ULTS	;	COMMENTS			
Electrical grounds condition	Α	D	С	NA				
(M3)* Gap between gate and finished grade (4" max in Oregon)	Α	D	С	NA				
(M3)* Fence gate(s) and control house entry locks	Α	D	С	NA				
(M3)* Door alarms tested independently	Α	D	С	NA				

FENCE & YA	RD				
		RES	ULTS		COMMENTS
Electrical grounds condition	Α	D	С	NA	
(M3)* Height of fence	<u>م</u>	D	С	NA	
Fabric 6 ft. minimum and a total height of 7 ft. with barbed wire	A	D	C	ΝA	
(M3)* Gap between fabric and finished grade (2" max in Oregon)	Α	D	С	NA	
(M3)* Fabric condition	Α	D	С	NA	
Masonry wall or other barrier condition	Α	D	С	NA	
Bottom tension wire condition	Α	D	С	NA	
(M3)* Barbed wire condition	Α	D	С	NA	
Fence isolation All neighboring/adjoining fences within 10 feet electrically isolated	А	D	С	NA	
Fence clearance No objects which could be used to climb fence within 5 feet. See page 2 for interior fence electrical clearance requirements	A	D	С	NA	
Vegetation clearance No overhanging limbs or climbable vegetation	А	D	С	NA	
Yard condition Free of broken glass/porcelain, weeds, nests and debris	А	D	С	NA	
Substation lighting condition	Α	D	С	NA	
Stored materials Only substation spare equipment shall be stored within the fence	А	D	С	NA	
Gravel condition	Α	D	С	NA	
Drainage condition	Α	D	С	NA	
Oil containment / Oil tank condition	A	D	С	NA	
COMMENTS:					
Substation Operations Manager Review Manager: Date: Signature:					





Appendix D Substation Inspection Intervals

Equipment Type	Equipment Description	Equipment Use	Equipment Model or Manufacturer	Operating Ratings	Maintenance Task	Equip. Code	Maintenance ID	Interval Years (Mths)	Interval Months	Man Hours	Ops Counter	Fault Operations	Notes
Substation	Substations or FII				Sub Safety / operational inspection		XXX-SBIN-001-XXX	MTHLY see note 1	1	DIST 2 LOC 3 MGT 4			Periodic substation security and operational inspection, load and counter reads / minor / major scope performed periodically

1) Work orders are generated on a monthly basis - however for substations associated with WECC critical paths (WECC - FAC-501) a minimum of 10 monthly inspections shall be performed with 3 of these monthly being the more detailed "major" shall be performed annually. The maximum interval between the monthly inspections shall be 65 days with 180 days the maximum interval between a major inspection. For all other substations assigned this maintenance ID Company policy requires a minimum of 7 inspections be performed annually with no more than 120 days between consecutive monthly or 180 days between the more detailed major inspections.

MAINTENANCE INTERVAL LIST **Apparatus Equipment**

Appendix E Completed and Past Due Substation Inspections

PacifiCorp General Order 174 Substation Inspections 2020 Annual Report

The total completed and past due substation inspections performed in the State of California for calendar year 2020 is as follows:

	2020	2020
	Completed	Past Due
Inspection Type	Inspections*	Inspections**
GO-174 Substation Inspections	443	0

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

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