

Appendix B-5. Vegetation Types Present Within the Tower Study Areas for the Overhead Portion of the PG&E Jefferson-Martin 230kV Transmission Project.

Tower Study Area	Existing Tower Number	New Tower Number	Vegetation Types Present	Wetlands Present within 100' & 200' area	Drainages Present	Notes
1	19/84	19/84	NNG, CBS, CLO, UD			Area is adjacent to Jefferson Substation gravel parking lot
	Jefferson Substation			Seasonal wetland (5-12' wide) adjacent to east side of substation	Intermittent drainage 6-10' wide present to the east and north of substation	
2		0/1	UD			Trees occur directly adjacent to west side of substation
3		0/2	MP, CLO, NNG, SG, CBS			
4	0/3		NNG, SG, CLO, CBS			Portion of park test plot (approximately 5' wide) east of tower could be impacted
5	0/4	0/3	NNG, SG		Intermittent drainage (1-2' wide) 400' south of Existing Tower 0/4	
6	0/5	0/4	SG, E	Seasonal wetland area is present in discontinuous patches in drainage	Intermittent drainage (1' wide) present approximately 1000' north of Existing Tower 0/5	Might be possible to avoid eucalyptus at south and west sides
7	0/6	0/5	SG, CLO	Seasonal wetland swale present between Existing Towers 0/5 and 0/6 (varies between 10-20' wide)		Could shift study area 10 - 15' to the east in order to avoid CLO
8	1/7	0/6	NNG		Swale (1' wide) located 400' north of Existing Tower 0/6	
9	1/8	1/7	NNG			
10	1/9	1/8	NNG, CBS, CLO			Only a few small oak saplings present
11	1/10	1/9	NNG, CBS, CLO			Up to 5 oaks (ranging in size from saplings to multiple-stemmed large trees) could be
12	1/11	1/10	NNG, CBS, CLO		Intermittent drainage (1-2' wide) near Existing Tower 1/11	
13	1/12	1/11	NNG, CBS		Large intermittent drainage (about 75' wide) flanked by mixed riparian corridor occurs between Existing Towers 1/11 and 1/12	
14	2/13	1/12	NNG, CBS, CLO		Drainage (about 5-15' wide) present south of Existing Tower 2/13	Several large oaks and other native trees present
15	2/14	2/13	NNG, CBS	Narrow drainage near intersection of Canada Road and access road to Existing Tower 2/13; contains a small amount of seasonal wetland vegetation	Drainage (1' wide) near intersection of Canada Road and access road to Existing Tower 2/13	
16	2/15	2/14	NNG, CLO			Oaks at the east side of tower could be lost
17	2/16	2/15	NNG, CLO			Several small to large oaks present
18 ²	2/17	2/16A and 2/16B	NNG, CBS, CLO		Intermittent drainage (about 15-20' wide at top of bank) intersects access road between Existing Towers 2/16 and 2/17; flanked by riparian forest	Oaks occur next to access road and could be lost depending on final footprint

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19	2/18	2/17	NNG, CBS, CLO		Intermittent culverted drainage near Canada Road is about 10 feet wide at bottom, and 20-30 feet wide at top of bank. MWRF present adjacent to drainage.	Oaks occur on three sides of tower; some trees may be lost
20	2/19	3/18	NNG, CBS, CLO			A few small oaks might be lost
21	3/20	3/19	NNG, CBS, MP, CLO		Narrow (1' wide) intermittent drainage located between Existing Towers 3/20 and 3/21 (about 250' north of Existing Tower 3/20)	A few small Monterey pines and one small oak would be lost
22	3/21	3/20	NNG, CBS			
23	3/22	3/21	NNG, CBS, CLO		Narrow (1' wide) intermittent swale located between Existing Towers 3/21 and 3/22; mostly unvegetated	Several oaks will be lost
24	4/23	3/22	CBS, CC		Intermittent drainage bisects access road to Existing Tower 4/23. Active channel is only about 10' wide, but top of bank width ranges from 50 -100' in width; Flanked by MWRF, with dense blackberry thickets; Historic bridge location.	
25	4/24	4/23	NNG, CBS, CC			
26	4/24A	4/24	NNG, CBS, CC			
27	4/25	4/25	NNG, CBS			
28	4/26	4/26	NNG, SG, CBS		Narrow, intermittent drainage near Existing Tower 4/26 (about 1-2' wide)	
29	5/27		NNG, SG		Narrow ditch (2' wide), is located by Ralston Substation. Ditch is dry and is culverted across the access road.	
30 ²	5/27A	5/27	NNG, SG			
31	5/28	5/28	NNG, SG			
32	5/29	5/29	NNG, SG, CBS			
33	5/30	5/30	NNG, SG			
34	5/31	5/31	NNG, SG			
35	6/32	5/32	NNG, SG			
36	6/33	6/33	NNG, SG			
37	6/34	6/34	NNG, SG, CBS, MP, MC			A small Monterey pine and possibly some Monterey Cypress and Monterey pine at the northern tower area boundary might be lost

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38 ²	6/35	6/35 and 6/35A	NNG, CBS, MP, MC			A few small Monterey Cypress, Monterey pine and/or oak might be lost
39	6/36	6/36	NNG, CBS, CLO, MP			A few small oak and/or Monterey pine trees could be lost
40	6/37	6/37	NNG, CBS, CLO, MP			A few small oak and/or Monterey pine trees could be lost
41	6/38	6/38	NNG, CBS, CLO			A few small oak and/or Monterey pine trees could be lost
42 ²	7/39	7/39	NNG			A few Monterey pines occur in landowner back yard where existing pole will be removed. A few trees may be lost on private property
43	7/40	7/40	NNG, MP			A few small Monterey pines could be lost
44	7/41	7/41	NNG, CBS, MP, CLO			A few small Monterey pines and oak saplings could be lost
45	7/42	7/42	NNG			
46	7/43	7/43	NNG, CBS, MP, CLO			Tree trimming or removal may be needed
47	7/44	7/44	NNG, MP			Tree trimming or removal may be needed
48	7/45	7/45	NNG, CBS			
49	7/46	8/46	NNG, MP	Seasonal wetland located to the southwest of Existing Tower 7/46	Narrow (1' wide) dry grassland-dominated swale intersects an access road a few hundred feet south of Existing Tower 7/46; drains to seasonal wetland to the west.	Tree trimming or removal of Monterey pine may be needed
50	8/47	8/47	NNG, CLO, MP		Culverted, dry, 1' wide drainage intersects access road; drainage is near Existing Tower 8/47	Tree trimming or removal of Monterey pine or oaks may be needed
51	8/48	8/48	NNG, CBS, MP		A narrow (1' wide) concrete-lined "V" ditch is located near Existing Towers 8/48 and 8/49; this would not be expected to be a jurisdictional feature.	Tree trimming or removal of Monterey pine trees may be needed
52	8/49	8/49	NNG, CBS, MP, EUC, MC			Tree trimming or removal of trees may be needed
53	8/50	8/50	NNG, EUC			Tree trimming or removal may be needed. Exotic trees present (e.g, Acacia sp.).
54 ²	8/51	8/51	NNG, CLO			Tree trimming or removal may be needed. Exotic trees present (e.g, Acacia sp.).
55	8/52	8/52	NNG, MC			Tree trimming or removal may be needed. Exotic trees present (e.g, Acacia sp.).
SFO 022800042	8/52	8/53	UD ³ , MP			Tree trimming or removal of trees may be needed

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57	9/54	9/54	NNG			
58	9/55	9/55	UD ³ , MP			Tree trimming or removal of trees may be needed
59	9/56	9/56	UD ³ , MP			Tree trimming or removal of trees may be needed
60	9/57	9/57	NNG			
61	9/58	9/58	UD ³ , MC			Tree trimming or removal of trees may be needed
62	9/59	9/59	UD ³ , MC			Tree trimming or removal of trees may be needed
63	9/60	9/60	UD ³ , MC			Tree trimming or removal of trees may be needed
64	9/61	9/61	UD ³ , MP		Dry, 1' wide artificially created drainage is located west of the access road adjacent to the golf course; may not be a jurisdictional feature. Drainage ends about 500' south of Existing Tower 9/61	Tree trimming or removal of trees may be needed
65	9/62	9/62	UD ³ , MC			Tree trimming or removal of trees may be needed
66	9/63	10/63	UD ³ , MP			Tree trimming or removal of trees may be needed
67	10/64	10/64	NNG			
68	10/65	10/65	NNG, CBS			
69	10/66	10/66	NNG, MP			Minor tree trimming or removal of trees may be needed
70	10/67	10/67	NNG, CBS, CLO, MP			Minor tree trimming or removal of trees may be needed
71	10/68	10/68	NNG, CBS, MP, CLO			Minor tree trimming or removal of trees may be needed
72	10/69	10/69	NNG, CBS			
73	11/70	11/70	NNG, CBS, CLO, MP		Intermittent drainage located in between Existing Towers 11/71 and 11/72	Minor tree trimming or removal of trees may be needed
74	11/71	11/71	NNG, CBS, CLO			Minor tree trimming or removal of trees may be needed
75	11/72	11/72	NNG, CBS, CLO			Minor tree trimming or removal of trees may be needed
76	11/73	11/73	NNG, MC, MP, EUC			Minor tree trimming or removal of trees may be needed
77	11/74	11/74	NNG, CBS			
78	11/75	11/75	NNG, CBS			

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79	11/76	12/76	NNG, CBS			
80	12/77	12/77	NNG, CBS, MP			Minor tree trimming or removal of trees may be needed
81 ²	12/78	12/78	NNG, CBS, CLO, MC			Minor tree trimming or removal of trees may be needed
82	12/79	12/79	NNG, CBS	Seasonal wetland with some ponded water located at the curve in the access road in between 12/80 and 12/78 (JM-78-79-80). Source of water is likely culverted flows from Hwy 280.		
83	12/80	12/80	NNG, CBS, MP	Seasonal wetland (including cattails) located on east side of access road; contains culverted flows from Hwy 280. Narrow (1' wide) concrete-lined ditch also present; adjacent to north side of the curve in the access road.		Minor tree trimming or removal of trees may be needed
84	12/81	12/81	NNG, CBS, MP			Minor tree trimming or removal of trees may be needed
85 ²	12/81A	12/82	NNG, MP			Minor tree trimming or removal of trees may be needed
86	12/82	13/83	NNG, CBS			
87	12/83	13/84	NNG, CBS	Tower is adjacent to rocky shore of San Andreas Lake. No shoreline wetlands present.		Tower is adjacent to rocky shore of San Andreas Lake; open lake waters are within the tower study area, but no shoreline wetlands are present
88	13/84	13/85	NNG		Narrow (1' wide) rock-lined culverted drainage occurs near Existing Tower 13/84; no wetlands are present. Culvert extends under access road and outflow pipe is located about 5 feet north of tower base.	Tower is adjacent to rocky shore of San Andreas Lake; open lake waters are within the tower study area, but no shoreline wetlands are present
89	13/85	13/86	NNG, CBS	Small (10' x 15') wetland and narrow drainage (1' wide) extends uphill from access road into ROW about 200' north of Existing Tower 13/85. Drainage might be impacted; wetlands not likely to be impacted. Flows are culverted under road and drain into San Andreas Lake.		
90	13/86	13/87	NNG, CBS, MP, CLO			Trees very small (saplings); could be lost
91	13/87	13/88	NNG, CBS			
92	13/88	13/89	NNG			
93	14/89	14/90	NNG			

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94	14/90		NNG			
95		14/91	NNG			
96	14/91		NNG			
97		14/92	NNG, EUC			One large eucalyptus at the east side might need to be trimmed or removed
98	14/92		NNG			
99 ²	14/93	14/93A	NNG, CBS, MC, EUC			Trees near water tank might be affected by Tap
100	14/94		NNG			
101		14/94	NNG			
102	14/95		NNG, CBS			
103	14/96	14/95	NNG, CBS, CLO			Small oaks present in dense scrub might be lost
104	14/97		NNG, CBS, CLO			Small oaks present in dense scrub might be lost
105	14/98		NNG, CBS, WL	Large seasonal wetland present west of Existing Tower 14/98, south of Sneath Substation, and to the west of access road. Narrow drainage present at south perimeter of Sneath Substation; supports wetlands.		

Notes:

¹ Each study area is 100-feet by 200-feet, and is centered on the existing tower. The 200-foot edge of the study area is oriented parallel with the transmission line.

² The area studied was a Tap Study Area. A Tap Study Area is an irregular hexagon shape formed by rectangle (100-feet by 400-feet, centered on the existing tower) with an isosceles trapezoid (base length (adjacent to rectangle) 400-feet, top length 200-feet, height 100-feet) oriented in the Tap direction.

³ Crystal Springs Golf Course is included in the U/D category.

Vegetation Codes:

CBS = Coyote Brush Scrub

CC = Chamise Chaparral

CLO = Coast Live Oak Woodland

EUC = Eucalyptus Forest

MC = Monterey Cypress Forest

MP = Monterey Pine

MWRF = Mixed Willow Riparian Forest

NNG = Non-Native Grassland

SG = Serpentine Grassland

U/D = Urban/Developed/Landscaped

WL = Seasonal Wetland