Southern California Edison
A.19-07-015 – TLRR IC

DATA REQUEST SET E D - D a t a R e q u e s t - 0 0 9

To: Energy Division
Prepared by: Gary Busteed
Job Title: Senior Advisor
Received Date: 1/7/2021

Response Date: 1/14/2021

Question 01:
Please define the specific activities and types of disturbance that would occur in these 75-foot square areas identified at existing structures in Segments 3N and 3S.

Response to Question 01:
The 75-foot square areas (hereafter referred to as Structure Reconductoring Work Areas) will be utilized during the reconductoring of the subtransmission circuits located in Segments 3N and 3S. Every structure along the line will have to be accessed for hardware replacement and reconductoring activities. Structures will be accessed by rubber-tired pick-up trucks, tracked vehicles and aerial man-lifts using existing access and spur roads, and in some instances by overland travel or by foot if spur roads do not exist. If existing vegetation would impair safe access, the vegetation would be trimmed at ground level (leaving the roots intact). Structures may also be accessed via helicopter. The existing conductor will be "rigged" and lifted out of the existing conductor shoe. The existing ceramic insulator strings will be replaced with new polymer type insulators, including all the associated hardware used to pin the insulator to the tower. Then a roller, approximately 25-30 inches in diameter will be hung from the bottom of the newly installed insulator and the old conductor will be placed into the roller so it can be pulled out and replaced with new conductor. Similar activities will take place for the OHGW. This whole process should take about 2-3 hours per tower and will involve 3-5 workers. Work will be completed primarily from the existing access road footprint. Once the new conductor has been installed and sagged in that section, the crews will come back to each tower, take the conductor out of the rollers and then "clip" it into the new conductor shoe. This process should take 2-3 hours and would involve 3-5 workmen using the same type of equipment.

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Question 02:
Explain whether these 75x75 foot areas (~5,625 square feet) are, or should be, included in the ground disturbance calculations. We note that they do not appear to be included in PEA Table 3.7-2 (Approximate Laydown/Work Area Dimension) or Table 3.7-4 (Subtransmission Land Disturbance Table).

Response to Question 02:
The 75x75 foot areas (hereafter referred to as Structure Reconductoring Work Areas) were not separately delineated in Table 3.7-2 or in Table 3.7-4. However, the area associated with these Structure Reconductoring Work Areas is accounted for in the "TOTAL" and the "TOTAL, MINUS OVERLAPS" rows in Table 3.7-4 (*the acres presented in these two rows were calculated from the GIS data, and are not sums of the rows above them*). Revised tables are provided here (additions shown in red). The Structure Reconductoring Work Areas are identified in the GIS layers provided to the Energy Division; however, the impact areas were not specifically identified in Tables 3.7-2 Approximate Laydown/ Work Area Dimensions and 3.7-4 Subtransmission Land Disturbance. The additional 80.3 acres of Structure Reconductoring Structure Work Areas now included in the tables does not increase the overall project disturbance from what was previously identified.

Table 3.7-2: Approximate Laydown/Work Area Dimensions

Laydown/Work Area Feature	Number of Features	Preferred Size (L x W, Feet)[1,2,3]	Total Square Footage	Total Acreage
Install TSP	725	200 x 150	21,750,000	499.3
Install Multipole TSP Structure	128	200 x 150	3,840,000	88.2
Install TSP H-Frame	2	200 x 150	60,000	1.4
Install LWS pole (permanent)	391	200 x 100	7,820,000	179.5
Install LWS/Wood H-Frame	135	200 x 125	3,375,000	77.5
Install Multipole LWS Structure (permanent)	15	200 x 125	375,000	8.6
Install LWS pole (temporary)	108	200 x 100	2,160,000	49.6
Install Multipole LWS Structure (temporary)	2	200 x 150	60,000	1.4
Install Multipole Wood Structure (permanent)	9	200 x 200	360,000	8.3
Remove TSP or LST	1,356	200 x 150	40,680,000	933.9
Remove H-Frame (steel or wood)	136	200 x 125	3,400,000	78.1
Remove Multipole (wood)	12	200 x 125	360,000	8.3
Remove wood pole	192	200 x 100	3,840,000	88.2
Modify Existing Structure	83	200 x 125	2,075,000	47.6
Structure Reconductoring Work Area, Segments 3N and 3S	622	75 x 75	3,498,750	80.3

Table 3.7-2: Approximate Laydown/Work Area Dimensions

Laydown/Work Area Feature	Number of Features	Preferred Size (L x W, Feet)[1,2,3]	Total Square Footage	Total Acreage
Conductor Stringing Site	740	400 x 150	44,400,000	1019.3
Conductor Field Snub or Splice Areas	104	400 x 100	4,160,000	95.5
Splice Removal Area	883	75 x 50	3,311,250	76.0
Install/Remove Guard Structure	483	75 x 75	2,716,875	62.4
Telecommunications Pull and Tension Site[4]	—	400 x 150	—	—
Material Yards	74	Varies	14,542,791	333.9
Helicopter Landing Zone	5	Varies	200,376	4.6

Notes:

1 The dimensions listed above are preferred for construction efficiency; actual dimensions may vary.

2 For the purposes of this PEA it is assumed that the entirety of the 'Preferred Size' for each laydown/work area feature would be disturbed during construction. It is also assumed that the entirety of the 'Preferred Size' would be used at every TSP installation site, every LWS H-frame installation site, etc.

3 Helicopter-assisted construction for a given structure type would utilize a work area of the dimensions presented for that structure type presented in this Table.

4 Telecommunications pull and tension sites along Segments 1 and 2 would be located within conductor stringing sites or conductor field snub areas.

Table 3.7-4: Subtransmission Land Disturbance Table

Project Feature	Site Quantity	Disturbance Acreage Calculation (L x W, feet)	Acres Disturbed During Construction[4]	Acres to be Restored	Acres Newly and Permanently Disturbed[5]
Install TSP	725	200 x 150	499.3	0	499.3
Install Multipole TSP Structure	128	200 x 150	88.2	0	88.2
Install TSP H-Frame	2	200 x 150	1.4	0	1.4
Install LWS pole (permanent)	391	200 x 100	179.5	0	179.5
Install LWS/Wood H-Frame	135	200 x 125	77.5	0	77.5
Install Multipole LWS Structure (permanent)	15	200 x 125	8.6	0	8.6
Install LWS pole (temporary)	108	200 x 100	49.6	0	49.6
Install Multipole LWS Structure (temporary)	2	200 x 150	1.4	0	1.4
Install Multipole Wood Structure (permanent)	9	200 x 200	8.3	0	8.3
Remove TSP or LST	1,356	200 x 150	933.9	0	933.9
Remove H-Frame (steel or wood)	136	200 x 125	78.1	0	78.1
Remove Multipole (wood)	12	200 x 125	8.3	0	8.3
Remove wood pole	192	200 x 100	88.2	0	88.2
Modify Existing Structure	83	200 x 125	47.6	0	47.6
Structure Reconductoring Work Area, Segments 3N and 3S	622	75 x 75	80.3	0	80.3
Conductor Stringing Site	740	400 x 150	1019.3	0	1019.3
Conductor Field Snub or Splice Areas	104	400 x 100	95.5	0	95.5
Splice Removal Area	883	75 x 50	76.0	0	76.0
Install/Remove Guard Structure	483	75 x 75	62.4	0	62.4

Table 3.7-4: Subtransmission Land Disturbance Table

Project Feature	Site Quantity	Disturbance Acreage Calculation (L x W, feet)	Acres Disturbed During Construction[4]	Acres to be Restored	Acres Newly and Permanently Disturbed[5]
Telecommunications Pull and Tension Site[1]	—	400 x 150	—	—	—
Material Yards	74	Varies	333.9	161.9	0
Helicopter Landing Zone	5	Varies	4.6	4.2	0[3]
Existing Access and Spur Roads	388 miles	# of miles x 18 feet	850	0	163
New Spur Roads	2.8 miles	# of miles x variable dimensions	4.8	0	4.8
TOTAL			**4,434.9**	**166.1**	**3,409.4**
TOTAL, MINUS OVERLAPS			**3,341**[4]	**166.1**	**2,487.9**[5]

Notes:

1 Telecommunications pull and tension sites along Segments 1 and 2 would be located within conductor stringing sites or conductor field snub areas.

2 161.9 acres of material yards located on undisturbed areas; remainder of material yard acreage (172 acres) is previously disturbed.

3 0.4 acres of helicopter landing zones overlap with access roads; these overlapping areas would not be restored, but area is included in Existing Access and Spur Roads row.

4 Total Acres Disturbed During Construction reflects the sum of the disturbance areas with overlaps between and among structure installation, removal, and modification work areas, conductor stringing sites, conductor field snub or splice areas, splice removal areas, guard structure installation and removal areas, telecommunications pull and tension sites, material yards, helicopter landing zones, and access roads removed; therefore, columns do not sum.

5 Total Acres Newly and Permanently Disturbed calculated as follows: Total Acres Disturbed During Construction (3,341) <minus> Acres to be Restored (166.1 acres) <minus> Area of Currently-Disturbed Access Roads (687 acres).