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Item Number: 294

Addendum StartPage: 0

SOAH DOCKET NO. 473-16-2751
PUC DOCKET NO. 45624

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APPLICATION OF THE CITY OF
GARLAND TO AMEND A
CERTIFICATE OF CONVENIENCE
AND NECESSITY FOR THE RUSK TO
PANOLA DOUBLE-CIRCUIT 345-KV
TRANSMISSION LINE IN RUSK AND
PANOLA COUNTIES

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PUBLIC UTILITY COMMISSION
BEFORE THE FILING CLERK

STATE OFFICE OF
ADMINISTRATIVE HEARINGS

**CITY OF GARLAND'S RESPONSE TO COMMISSION STAFF'S
FOURTH (THIRD) REQUEST FOR INFORMATION TO THE
CITY OF GARLAND QUESTION NO. STAFF 3-1**

The City of Garland (Garland) files this response to Commission Staff's Fourth (Third) Request for Information (RFI) to Garland. Garland received Staff's Request on April 27, 2016. Pursuant to SOAH Order No. 2, this response is timely filed. All parties may treat these answers as if they were filed under oath.

Garland reserves the right to object at the time of the hearing to the admissibility of the information provided herein.

Respectfully submitted,



Kerry McGrath

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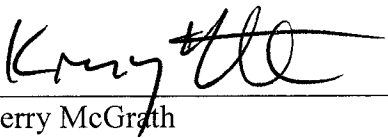
Facsimile: (972) 205-2389

ATTORNEYS FOR THE CITY OF GARLAND

294

CERTIFICATE OF SERVICE

I certify that a true and correct copy of this document was served on Commission Staff on May 5, 2016 by electronic mail, facsimile, hand-delivery, overnight delivery, or First Class U.S. Mail.


Kerry McGrath

**SOAH DOCKET NO. 473-16-2751
PUC DOCKET NO. 45624**

APPLICATION OF THE CITY OF	§	
GARLAND TO AMEND A	§	BEFORE THE
CERTIFICATE OF CONVENIENCE	§	
AND NECESSITY FOR THE RUSK TO	§	STATE OFFICE OF
PANOLA DOUBLE-CIRCUIT 345-KV	§	
TRANSMISSION LINE IN RUSK AND	§	ADMINISTRATIVE HEARINGS
PANOLA COUNTIES	§	

**CITY OF GARLAND'S RESPONSE TO COMMISSION STAFF'S
FOURTH (THIRD) REQUEST FOR INFORMATION TO THE
CITY OF GARLAND QUESTION NO. STAFF 3-1**

Question No. STAFF 3-1

Please consider an alternative route, named 4M consisting of the following combination of links, 1, 7, 9, 13, 23, 24, 28, 31, 34, 41, and 43.

- a) Please provide the City of Garland's best available estimates of the route evaluation criteria for this alternative route in the same format as Table 8-5: Environmental and Land Use Data and Z-Scores for Proposed Routes, which is contained in Application Attachment 1, Environmental Assessment and Alternative Route Analysis Report.
- b) Please provide the City of Garland's best available cost estimate for this alternative route in the same format as the cost estimates provided in Application Attachment 3.
- c) If the City of Garland is not willing to construct its proposed transmission line on this alternative route, please explain in detail why.

Response No. STAFF 3-1

- a) The data for the combination of segments identified above as Route 4M was already produced in Appendix D of the EA and is labeled Route RP9. See the attached revised table 8-5 that includes the data for Route RP9, which consists of segments 1, 7, 9, 13, 23, 24, 28, 31, 34, 41, and 43.
- b) Please see attached cost estimate table.
- c) The City of Garland is willing to construct its proposed transmission line on alternative Route 4M/RP9.

Prepared by: Kristi Wise
Chris McCall

Title: Senior Project Manager, Burns & McDonnell
Engineering, Inc.
Project Manager, Burns & McDonnell

	RP4	RP5	RP8	RP10	RP16	RP28	RP41	RP46	RP50	RP53	RP82	RP93	RP9
1.	Total Length (ft.)												
2.	197,640	195,960	200,620	199,110	197,370	198,570	210,070	209,770	201,300	206,920	207,760	195,050	200,800
3.	Total Length (Miles)												
4.	37.4	37.1	38.0	37.7	37.4	37.6	39.8	39.7	38.1	39.2	39.3	36.9	38.0
5.	Length Parallel to Transmission Lines (ft.)												
6.	32,340	32,340	32,340	22,050	19,250	0	0	0	0	0	0	50,060	22,050
7.	Length Parallel to Roads (ft.)												
8.	2,900	1,150	3,550	1,150	710	440	440	2,810	7,180	5,390	0	2,460	2,900
9.	Length Parallel to Pipelines (ft.)												
10.	19,830	20,840	19,780	24,260	35,500	5,890	25,630	7,650	6,590	610	30,180	38,450	23,260
11.	Length Parallel to Apparent Property Lines (ft.)												
12.	13,130	14,130	30,780	12,410	44,360	28,980	35,780	39,670	41,620	34,810	36,530	23,500	11,410
13.	Length Parallel to Railroads (ft.)												
14.	0	0	0	0	0	0	0	0	0	0	0	0	0
15.	Total Length Parallel to Existing Facilities (ft.)												
16.	46,210	47,210	63,420	37,990	65,230	31,810	40,760	42,830	49,150	42,350	38,980	75,170	36,990
17.	Habitat Structures located within 0-500 feet (count)												
18.	22	25	26	16	28	16	18	21	24	13	21	27	13
19.	Length Across Parks and Recreation Areas' (ft.)												
20.	0	0	0	0	0	9,220	0	0	0	0	10,230	0	0
21.	Park and Recreation Areas located within 1,000 feet (count)												
22.	1	1	1	1	0	1	1	1	1	1	0	1	1
23.	Rangeland within Right-of-Way (acres)												
24.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.	Cultivated Land within Right-of-Way (acres)												
26.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0
27.	Length Across Mobile Irrigation Systems (ft.)												
28.	0	0	0	0	0	0	0	0	0	0	0	0	0
29.	Wooded Areas within Right-of-Way (acres)												
30.	721.8	715.1	732.6	727.3	721.9	726.6	768.8	767.7	731.6	752.3	759.4	712.9	733.9
31.	Forested/Scrub-Shrub Wetlands within Right-of-Way (acres)												
32.	27.5	22.8	23.8	81.7	67.8	123.7	69.0	59.3	65.0	57.8	29.1	51.4	86.5
33.	Emergent and Riverine Wetlands within Right-of-Way (acres)												
34.	3.1	3.1	3.1	5.1	2.1	5.1	3.1	3.1	0.7	0.7	0.6	1.7	5.1
35.	Number of streams crossed (count)												
36.	86	83	84	99	100	107	106	98	96	100	94	93	102
37.	Number of Ecologically Significant Stream Segments Crossed (count)												
38.	1	1	1	1	1	1	1	1	1	1	0	1	1
39.	Length Parallel to Streams (within 100 ft.) (ft.)												
40.	8,100	9,010	7,910	15,450	10,300	17,260	13,590	14,690	11,740	13,800	14,810	7,960	14,550
41.	Known Rare/Unique Plant Species in Right-of-Way (count)												
42.	1	1	1	1	1	1	1	1	1	1	1	1	1
43.	Length Through Potential T&E Species Habitat (ft.)												
44.	0	0	0	0	0	13,330	13,330	13,330	13,330	13,330	22,910	0	0
45.	Number of Recorded Cultural Sites Crossed (count)												
46.	0	0	0	0	1	0	0	1	0	0	0	1	0
47.	Number of Recorded Cultural Sites within 1,000 ft. (count)												
48.	2	2	2	1	5	1	2	1	1	2	4	3	1
49.	Length Through High Probability Areas (ft.)												
50.	64,220	61,530	74,860	68,000	102,100	84,620	96,080	94,610	79,910	71,670	57,740	81,930	70,690
51.	Number of FAA Registered Airstrips within 20,000 feet with Runway Lengths Greater than 3,200 feet in length (count)												
52.	0	0	0	0	1	0	0	0	0	0	0	1	0
53.	Number of FAA Registered Airstrips within 10,000 feet with Runway Lengths Less than 3,200 feet in length (count)												
54.	0	0	0	0	0	0	0	0	0	0	0	0	0
55.	Number of Private Airstrips within 10,000 feet (count)												
56.	0	1	1	1	1	1	1	1	1	1	1	0	0
57.	Number of Heliports within 5,000 feet (count)												
58.	0	0	0	0	0	0	0	0	0	0	0	0	0
59.	Length Across Open Water (ft.)												
60.	730	730	1,090	390	730	270	630	510	530	330	710	810	390

Notes. All length measurements are in feet or miles. All linear measurements were obtained from aerial photography flown in 2014 and ortho-rectified to National Map Accuracy Standards of +/- 20 feet.

1 Structures normally inhabited by humans on a daily or regular basis. Habitable structures include but are not limited to single-family and multi-family dwellings and related structures, mobile

homes, apartment building, commercial structure, industrial structure, church, hospital, nursing homes, and school.

2 Defined as park or recreational areas owned by a government body or an organized group, club, or church.

RUSK-PANOLA ROUTE SUMMARY

	RP4	RP5	RP8	RP10	RP16	RP28	RP41	RP46	RP50	RP53	RP62	RP93	RP4MM
Distance (Miles)	37.4	37.1	38	37.7	37.4	37.6	39.8	39.7	38.1	39.2	39.3	36.9	38.0
Right-of-Way and Land Acquisition	\$ 4,079,592	\$ 4,046,868	\$ 4,145,040	\$ 4,112,316	\$ 4,079,592	\$ 4,101,408	\$ 4,341,384	\$ 4,330,476	\$ 4,155,948	\$ 4,275,936	\$ 4,286,844	\$ 4,025,052	\$ 4,145,040
Engineering and Design (Utility)													
Engineering and Design (Contract)	\$ 2,888,743	\$ 2,820,950	\$ 2,930,459	\$ 2,901,560	\$ 2,852,429	\$ 2,827,354	\$ 2,991,350	\$ 2,993,016	\$ 2,841,129	\$ 2,861,310	\$ 2,919,860	\$ 2,594,097	\$ 2,969,549
Structure Procurement (Steel, Hardware)	\$ 29,766,840	\$ 28,997,725	\$ 30,202,186	\$ 29,508,417	\$ 29,560,543	\$ 28,641,841	\$ 30,867,453	\$ 30,826,066	\$ 29,692,131	\$ 29,835,095	\$ 30,570,720	\$ 30,239,690	\$ 30,277,532
Conductor and Shield Wire Procurement	\$ 16,817,698	\$ 16,883,166	\$ 17,089,638	\$ 16,952,230	\$ 16,817,698	\$ 16,907,386	\$ 17,896,832	\$ 17,851,988	\$ 17,134,482	\$ 17,627,767	\$ 17,672,511	\$ 16,593,477	\$ 17,089,638
Procurement of Material and Equipment (Including stores)	\$ 46,584,538	\$ 45,880,890	\$ 47,291,824	\$ 46,460,647	\$ 46,378,241	\$ 45,549,228	\$ 48,764,284	\$ 48,678,053	\$ 46,826,613	\$ 47,462,862	\$ 48,243,331	\$ 46,833,168	\$ 47,367,170
Construction of Facilities (Utility)													
Structure Construction (Inc. Foundations)	\$ 30,819,440	\$ 29,594,975	\$ 31,228,386	\$ 30,006,119	\$ 30,427,304	\$ 28,491,755	\$ 30,969,287	\$ 31,023,465	\$ 30,154,216	\$ 29,693,466	\$ 30,817,892	\$ 31,848,848	\$ 31,230,584
Conductor and Shield Wire Installation	\$ 10,362,061	\$ 10,279,410	\$ 10,531,001	\$ 10,444,713	\$ 10,362,061	\$ 10,417,162	\$ 11,026,909	\$ 10,996,359	\$ 10,558,552	\$ 10,861,607	\$ 10,889,157	\$ 10,224,309	\$ 10,531,001
Access (Includes Clearing)	\$ 8,525,407	\$ 8,476,385	\$ 8,632,105	\$ 8,807,199	\$ 7,913,349	\$ 9,787,973	\$ 8,952,199	\$ 8,932,973	\$ 7,164,905	\$ 7,359,075	\$ 7,378,301	\$ 7,563,566	\$ 9,856,220
Construction Management	\$ 2,880,000	\$ 2,880,000	\$ 2,880,000	\$ 2,880,000	\$ 2,880,000	\$ 2,880,000	\$ 2,880,000	\$ 2,880,000	\$ 2,880,000	\$ 2,880,000	\$ 2,880,000	\$ 2,880,000	\$ 2,880,000
Construction of Facilities (Other (all costs not included in the above categories))	\$ 52,566,908	\$ 51,230,770	\$ 53,271,492	\$ 53,138,030	\$ 51,582,715	\$ 51,576,890	\$ 53,828,395	\$ 53,835,797	\$ 50,757,573	\$ 50,794,147	\$ 51,965,350	\$ 52,516,724	\$ 54,497,806
Total Cost	\$ 106,139,781	\$ 103,779,478	\$ 107,638,855	\$ 106,612,554	\$ 104,892,976	\$ 104,054,910	\$ 109,925,443	\$ 109,833,342	\$ 104,581,362	\$ 105,394,256	\$ 107,415,385	\$ 106,269,040	\$ 108,979,564
Cost per mile	\$ 2,837,962	\$ 2,797,291	\$ 2,832,601	\$ 2,827,919	\$ 2,804,625	\$ 2,767,418	\$ 2,761,946	\$ 2,766,583	\$ 2,744,918	\$ 2,688,629	\$ 2,733,216	\$ 2,879,920	\$ 2,867,883

Notes

1. Costs are in 2016 dollars and do not include escalation.
2. An adder for design allowances is not included. Typically 10-20% is added for design allowances for projects of this size.
3. Contingency costs are not included. Typically 20-30% is included for contingency for projects of this size
4. A 15% contractor markup is used for all materials
5. The average span length for all routes was assumed to be 800ft.
6. All structures are assumed to be tubular steel