



GENERAL ORDER 165 OVERHEAD AND UNDERGROUND ELECTRIC DISTRIBUTION SYSTEM INSPECTION PROGRAM

Riverside Public Utilities – Energy Delivery

Board of Public Utilities
June 26, 2017

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BACKGROUND

1. On March 31, 1997 the California Public Utility Commission adopted General Order 165 (G.O. 165)
2. G.O. 165 established minimum inspection requirements for certain electric distribution facilities, including:
 - a) maximum allowable inspection cycle lengths
 - b) condition rating
 - c) recordkeeping and reporting

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BACKGROUND

1. In March 1998, CPUC recommended that all publicly owned utilities comply with G.O. 165 Requirements
2. RPU is not regulated by California Public Utilities Commission (CPUC)
3. RPU has chosen to comply with G.O. 165 requirements because they establish industry standards and best practices for inspections of electric distribution and transmission facilities in order to ensure safe, reliable, and high-quality electrical service

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3

SCOPE OF WORK

1. Conduct detailed inspections of overhead electric facilities, including:
 - a) 22,500 Poles, cross-arms, down-guys and insulators
 - b) Related overhead distribution equipment
2. Minor maintenance items for regulatory infractions
3. Grading condition of assets
4. Pole loading analysis
5. Inspection and Maintenance of overhead facilities is identified in the Utility 2.0 Electrical Infrastructure Road Map

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4

POLE INSPECTIONS

1. Excavation of pole base for visual inspection
2. Inspect related overhead facilities
3. Grade existing asset condition
4. Inspection does not require service disruptions



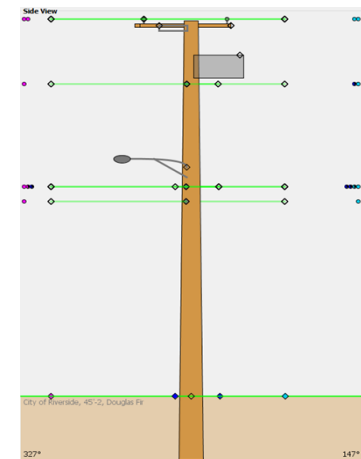
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5

POLE LOADING ANALYSIS

1. Model and analyze poles during changes or additions
2. Identify pole guying requirements
3. Recommend pole replacement when required
4. Use pole loading data to streamline new designs



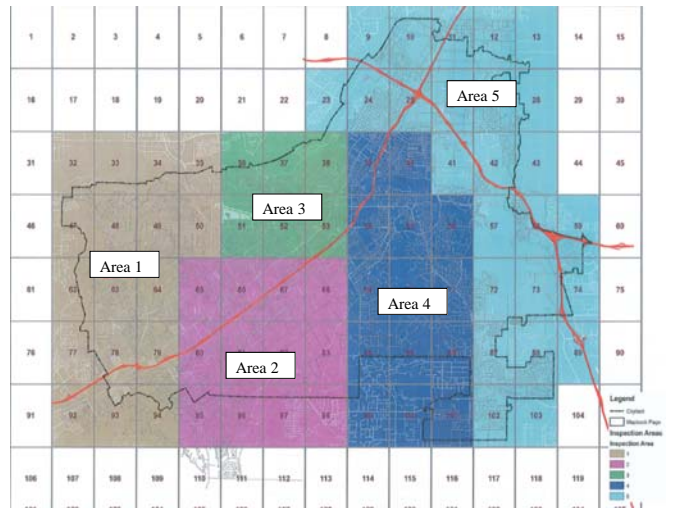
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6

Five Inspection Areas For OH Facilities

1. Area 1 (2017)
2. Area 4 (2018)
3. Area 2 (2019)
4. Area 3 (2020)
5. Area 5 (2021)



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7

BENEFITS

1. Inspection results will help prioritize overhead system repair and maintenance activities
2. Increase electric system reliability and safety
3. Improve system operations and response time
4. Improve electric services and power quality
5. Use pole loading analysis during pole replacement designs

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8

CONTRACT BID

1. Bid RPU-7461 provided that RPU may award the entire bid, or only a portion of the bid related to either Overhead or Underground inspection
2. Only the Overhead inspection portion of bid will be awarded
3. Underground inspection will not be awarded and will be re-bid at a later time
4. Inspections over a three (3) year contract term with two (2) optional one-year extensions
5. RPU will seek Board approval at later time for optional contract extensions

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9

CONTRACT BIDS FOR OVERHEAD INSPECTION

Bids closed on May 1, 2017:

Vendors	City Location	Bid Amount Per Year	Rank
Davey Resource Group	Kent, OH	\$501,392.38	Non-responsive
Intec Services, Inc.	Fort Collins, CO	\$565,815.00	Non-responsive
Osmose Utilities Services, Inc.	Peachtree City, GA	\$845,880.00	1
VCI Utility Services	Upland, CA	\$1,624,818.00	2
Hot Line Construction, Inc.	Menifee, CA	\$4,059,351.00	3
Parkia Inc.	Santa Fe Springs, AL	\$6,135,403.50	4

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10

CONTRACT BIDS FOR UNDERGROUND INSPECTION

Bids closed on May 1, 2017:

Vendors	City Location	Bid Amount Per Year	Rank
Henkels & McCoy	Pomona, CA	\$1,451,055.00	Non-responsive
Davey Resource Group	Kent, OH	\$1,759,392.89	Non-responsive
Parkia Inc.	Santa Fe Springs, AL	\$4,013,215.28	1
Hot Line Construction, Inc.	Menifee, CA	\$4,161,125.00	2
VCI Utility Services	Upland, CA	\$22,300,428.00	3

FISCAL IMPACT

Description	Amount (\$)	% of Total
Design, Inspection Program Management	\$306,360	11%
Inspection Contract	\$2,537,640	89%
Total:	\$2,844,000	100%

RECOMMENDATIONS

That the Board of Public Utilities:

1. Reject as non-responsive the bids submitted by Davey Resource Group of Kent, Ohio, in the amount of \$2,260,789.27 (Overhead and Underground schedules), Intec Services, Inc. of Fort Collins, Colorado, in the amount of \$565,815.00, and Henkels & McCoy of Pomona, California, in the amount of \$1,451,055.00;
2. Award Bid No. RPU-7461 to Osmose Utilities Services, Inc. of Peachtree City, Georgia, in the amount of \$2,537,640 for the G.O.165 Overhead Inspection Program; and
3. Approve Work Order No. 1722605 in the amount of \$2,844,000