

Southern California Joint Pole Committee

279 E. Arrow Hwy. Suite 104
San Dimas, CA 91773
Phone (909) 599-3801
Fax (909) 599-3825

June 18, 2013

A regular meeting of the **ad hoc Pole Loading Committee** took place on the above date, at 11:15 a.m., at the Committee office.

Those in attendance were:

Mr. Larry Chow	Southern California Edison
Ms. Jessica Pearson	Southern California Edison
Mr. James Eastwood	Southern California Edison
Ms. Cindy Jacobs	Southern California Edison
Mr. Steve Brown	City of Los Angeles
Ms. Janet Chirrick	AT&T California
Mr. William Kearns	Verizon Ca, MCI/Comm/Metro
Mr. Larry Vail	Verizon Ca, MCI/Comm/Metro
Mr. Albert Aleman	Verizon Ca, MCI/Comm/Metro
Ms. Paula Haney	Crown Castle NG West Inc./NewPath Networks/CA-CLEC LLC
Ms. Debbie Wooten	Crown Castle NG West Inc./NewPath Networks/CA-CLEC LLC
Ms. Lynn Prescott	Verizon Wireless
Ms. Lupe Hernandez	AT&T Comm./Local Serv.
Ms. Yvonne Johnson	AT&T Mobility
Ms. Maria Ortiz	XO Communications
Mr. Kyle Levy	Committee Staff

Those attending via teleconference were:

Ms. Tina Simms	AT&T California
Ms. Alicia Smith	Sprint/Nextel
Ms. Amy Parker	Crown Castle NG West Inc./NewPath Networks/CA-CLEC LLC
Ms. Jaimie Collins	Crown Castle NG West Inc./NewPath Networks/CA-CLEC LLC
Ms. Jane Bibb	Crown Castle NG West Inc./NewPath Networks/CA-CLEC LLC
Ms. Jennifer Navarro Yhap	MetroPCS California, LLC

Mr. Chow opened the meeting at 10:15 a.m. by reporting that the ad hoc Pole Loading Committee has been reinstated in order to discuss pole loading related to joint pole processes, and to formulate agreements among the Committee. He continued reporting that the Committee requires some documentation concerning what the members' responsibilities will be to one another as part of the Committee. He cited the example of the supporting documents that were needed when the members agreed that they would exchange pole loading information, and whether they would be required to be hard copies, electronic copies, etc. Mr. Chow suggested

that this ad hoc Committee should discuss where they share commonalities as well as address the issues where there are differences of opinions. He stated that the Malibu Canyon remediation is a good platform to identify differences in wind loading among members, and it would be beneficial to receive input from the other members to come to a common ground.

Mr. Chow reported that a good starting point would be to review the facility tables and address the differences in each member's programs related to specifications for facilities. He suggested that when reviewing the facility tables, the members should consider the possibility of using the same values for facilities in regards to diameter, weight per foot, etc. Ms. Prescott replied that this would be difficult for some utilities to do as well as instances where using the same values would not be beneficial; one example being when fiber is placed in an innerduct. Mr. Vail stated that a lot of the third party notifications he receives are for overloaded structures, and when he runs the wind loading calculations he often finds that they are in fact not overloaded. He continued that he is spending a lot of time and expenses in order to demonstrate to the members that these structures are not overloaded. Mr. Brown replied that LADWP is going by a worst case scenario in regards to loading, and if a pole does not pass loading the member is contacted.

Mr. Chow asked the Committee if pole loading information should be added to the Routine Handbook or if it should be kept as separate documentation. Ms. Hernandez responded that these should be separate entities as the Routine Handbook is a guideline on how to process JPA's, and it does not include information such as engineering or construction standards. She added that there is also a pole loading resource document available on the JPC website. Ms. Prescott agreed and stated that the pole loading process should continue to be guided by the G.O. 95. Ms. Hernandez concluded by stating that this could be brought up at the following Administrative Board meeting for discussion. Mr. Aleman suggested that it would be beneficial for the members to create a routine for pole loading as there needs to be some binding guidelines for the members to adhere to in the long run, rather than using only the loading resource guidelines. The Committee agreed with this and will look in to creating such a routine at subsequent pole loading meetings.

Mr. Chow stated that one of the key elements in regards to wind loading is the exchange of information between members. He explained that Edison is moving towards using the SPIDAMin program which will provide a platform for members to share loading information with one another, and with the approval of members to share their information, will attempt to negate the issue of gathering information through requesting each individually. He stated that it will take approximately 7 years for Edison to have the information available for all of their nearly 1.5 million poles, and his expectation is that in the meantime the information on the poles that become available will be correct. Mr. Vail asked how the records will be kept, and what will happen if another member uploads their record of the same pole number. Mr. Chow responded that the records are kept in chronological order so as not to overwrite records using the same pole number. Ms. Prescott brought up the Sharefile in relation to this and believes that it would still be beneficial to have in addition as it

will have the latest and most up to date record of a pole in the field. Mr. Chow noted that the only downside is that the files are in PDF format, and that someone will have to manually do all of the paperwork which can be time consuming.

Mr. Chow reported that the Committee has reached a good start from today's meeting and proposed that a list of items be created which will serve as a basis for the pole loading routine. Mr. Chow stated that he will create this list of items and send it along with the pole loading resource document to the members for review. He noted that the members may add any items they deem necessary to the list for discussion at the following meeting. Ms. Prescott proposed to review the previous meeting minutes for items pertaining to pole loading which the Committee agreed upon. Ms. Prescott stated that she will compile these items into a document to present at the next pole loading meeting.

Review of Action Items

- Mr. Chow to send pole loading resource document to members.
- Mr. Chow to create list of pole loading items and send to members.
- Ms. Prescott to research minutes for agreements and compile.

The meeting adjourned at 12:00 p.m. until July 23, 2013.

Kyle Levy - Assistant Manager

Southern California Joint Pole Committee

279 E. Arrow Hwy. Suite 104
San Dimas, CA 91773
Phone (909) 599-3801
Fax (909) 599-3825

July 23, 2013

A regular meeting of the **ad hoc Pole Loading Committee** took place on the above date, at 9:00 a.m., at the Committee office.

Those in attendance were:

Mr. Larry Chow	Southern California Edison
Mr. James Eastwood	Southern California Edison
Ms. Jessica Pearson	Southern California Edison
Ms. Cindy Jacobs	Southern California Edison
Mr. Ken Trainor	Southern California Edison
Mr. Steve Brown	City of Los Angeles
Mr. Jeffery Williams	City of Los Angeles
Ms. Janet Chirrick	AT&T California
Mr. Josh Mathisen	AT&T California
Ms. Darlene Russo	AT&T California
Ms. Virginia Becker	AT&T California
Mr. Larry Vail	Verizon Ca, MCI/Comm/Metro
Mr. Albert Aleman	Verizon Ca, MCI/Comm/Metro
Ms. Paula Haney	Crown Castle NG West Inc./NewPath Networks/CA-CLEC LLC
Ms. Debbie Wooten	Crown Castle NG West Inc./NewPath Networks/CA-CLEC LLC
Ms. Lupe Hernandez	AT&T Comm./Local Serv.
Ms. Yvonne Johnson	AT&T Mobility
Mr. Rory Gandy	AT&T Mobility
Ms. Maria Ortiz	XO Communications
Mr. Paul Smolarski	T-Mobile USA
Ms. Angela Pranata	Committee Staff
Mr. Kyle Levy	Committee Staff

Those attending via teleconference were:

Ms. Lynn Prescott	Verizon Wireless
Ms. Alicia Smith	Sprint/Nextel
Ms. Tracey Province	Verizon Ca, MCI/Comm/Metro
Ms. Amy Parker	Crown Castle NG West Inc./NewPath Networks/CA-CLEC LLC
Ms. Jaimie Collins	Crown Castle NG West Inc./NewPath Networks/CA-CLEC LLC
Ms. Jennifer Navarro Yhap	MetroPCS California, LLC
Ms. Naneth Kasala	AT&T California
Mr. Dennis Fajardo	AT&T California

Mr. Eastwood opened the meeting at 9:00 a.m. by addressing the first issue on the agenda, the review of the **prior meeting minutes**. The members reviewed the June 2013 meeting minutes, and there were no questions, concerns or revisions.

The second agenda item is the **Pole Loading Discussion**. Mr. Eastwood began by introducing Ms. Jacobs to the Committee and she presented Edison's pole loading program to the members. Ms. Jacobs stated that Edison is initiating a new pole loading program to assess and remediate the poles within their service territory to ensure that they meet pole loading requirements. Ms. Jacobs went over the changing landscape which has increased risk for all joint owners with examples such as the Malibu fire as well as natural events. Such events hold all pole owners liable for failures, regardless of fault, as well as have led to increased scrutiny from regulators and the public regarding pole loading failures. She then discussed the importance of greater coordination among members as well as maintaining compliance in the future. She also brought up the language in G.O. 95 Rule 48 which states that poles "will not fail" loading, and believes that such language should be eliminated.

Ms. Jacobs stated that Edison's pole loading program will involve the assessment of a total of 1.5 million poles, 70% of which are jointly owned. This will begin in 2014 and the assessments will be completed over a 7 year period, beginning with the high fire and wind risk areas first. The remediation will be completed over a 12 year period, with pole replacements scheduled up to 59 months after assessment, depending on severity. Ms. Wooten stated that this will affect a lot of their budget and requested a list of poles which will be replaced. Ms. Jacobs replied that she will not know the exact poles that will be replaced until after the assessment, although she would be able to supply the members with a rough estimate. Ms. Jacobs continued by stating that this program will help to identify operational effectiveness to streamline the joint pole process, and by working with joint pole owners to share pole loading calculations, it will help improve loading calculations in the future.

Ms. Haney asked Ms. Jacobs if there was a department to interface with in the case of another member working in the same area who is also identifying poles for replacement. Ms. Jacobs replied that Edison would be able to find out if they have identified the same pole or if it is already scheduled to be assessed. Mr. Trainor noted that that between the design, assessment and construction schedules the members will need to align their activities so as to reduce the amount of overlapping work and minimize costs for everyone. Mr. Chow stated that should the schedules or geographic areas not line up, Edison would be able to provide a list of all of the poles that they have already replaced in that area as well as the pole loading information. He continued that if they all agree on the piece parts of the loading, the members would be able to use Edison's loading values and vice versa which is one of the main reasons why the pole loading ad hoc was reinstated.

Ms. Jacobs then went over the details of Edison's forecast of assessments and pole replacements. She explained that they have hired an outside vendor in order to assess the 206,000 poles per year, and that based on their expected failure rate of 14% they expect to replace 25,000 poles per year. Mr. Chow added that this forecast

is in addition to Edison's normal volume of work. Ms. Province asked if Edison intends to pass the costs of these inspections to the other members involved on the poles under the approved maintenance plan. Mr. Eastwood replied that this program is not part of Edison's approved maintenance plan; therefore, Edison would not be passing on the inspection cost associated with making the assessment of these poles.

Ms. Jacobs continued with her presentation by explaining that in order to process this volume of work, Edison is pursuing operation efficiencies to support the remediation in a cost-effective way. She stated that Edison's first goal is to minimize buddy poles as the cities have been threatening to and withholding permits due to these poles. Edison would like to have single mobilization for equipment transfers, having only one company go out and perform the work rather than each sending a crew out. Next, Ms. Jacobs explained that Edison is looking at the possibility of reducing the 45 day JPA timeline. She questioned if this process could be sped up by providing pictures of the pole and other data with the JPA. She stated that Edison would also like to reduce the amount of paper being sent back and forth by sharing documents through Hyper Office or other electronic means. Ms. Jacobs explained that Edison will be working with Verizon and AT&T to implement these goals and pilot them on some of the pole replacements, and these will be brought back to the Committee to see if they should be adopted or modified.

Ms. Jacobs stated that the most important point is that compliance with GO 95 must be maintained in the future. She explained that Edison is proposing to host a workshop with technical experts from all of the companies to decide on the best measuring tools and techniques. Ms. Jacobs stated that the agreements and findings of the technical experts can be brought back to the Pole Loading Committee to be for development of the recently proposed pole loading routine. She then explained that Edison is using SPIDAcacalc as its pole loading software and includes the program SPIDAdmin, which is a web based repository for their pole loading calculations. The current pole loading file would be available to any joint owner, and a new pole loading calculation file is uploaded each time a new attachment is added. She concluded that this is planned to be implemented in 2014.

Ms. Prescott reported that she and all parties, including Edison, AT&T, Verizon and Sprint, worked early on in the Malibu project to come up with the methodology in which to approach the pole loading. She stated that all parties met with Edison in the field in order to establish some of the criteria for taking the field measurements and the data collection. Ms. Prescott reported that it was very helpful as there were different laser and range finders and other tools to collect the data. She stated that they established a few preferred ways in which to collect some of the data such as pole circumference. They also discussed how to measure and add or deduct for risers, and they helped establish good guidelines for the fielders. Ms. Prescott reported that given the variety of measuring equipment there were very few variables in the measurements and they were all consistent and extremely close. She then reported that they worked with Edison in order to make sure that SPIDAcacalc and Osmose O-Calc Pro were in alignment. Ms. Prescott stated that they input the same tension values, weight, cable sizes, etc. into both SpidaCalc and O-Calc Pro and were

able to arrive at very similar safety factors. She then stated that they are moving into the remediation phase and will keep the members informed via JPAs or designs for pole replacements.

Ms. Brown stated that LADWP was just recently audited by the CPUC and was wondering if any other member has been audited recently. He reported that the CPUC spent a week with them and checked their pole loading on the last day which went very well. Several members replied that they have either already been audited or have one scheduled for this year. Mr. Williams stated that the main issues the CPUC is looking for are heights of attachments and lengths of spans, and that they measure the base of the pole to see if it matches what is on the calculations.

The third issue for discussion is **miscellaneous items**.

Review Edison's Wind Study

Mr. Chow requested that the members review Edison's wind study and compare it to their own studies or findings to make sure that the information is accurate. He asked that if any information is found to be inaccurate, that it be brought to his attention to be taken back to those who conducted it to be reviewed.

Review of Action Items

- Ms. Pranata to email members Edison's pole loading program
- Mr. Chow to send Ms. Pranata Edison's wind study to upload to JPC website

The meeting adjourned at 10:00 a.m. until August 20, 2013.

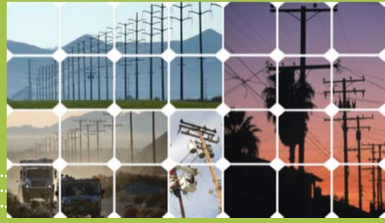
Kyle Levy - Assistant Manager



SCE Pole Loading Program

July 23, 2013





Today's Objectives

- Changing landscape requires greater coordination among joint owners
- SCE Pole Loading Program overview
- Assessment and remediation forecast
- Opportunities for operational efficiencies
- Maintaining compliance in the future
- Next steps



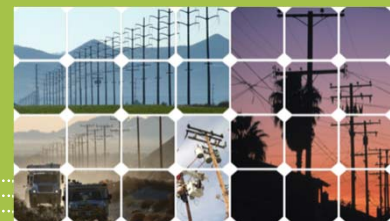


Changing Landscape

The changing landscape has increased risk for all joint pole owners

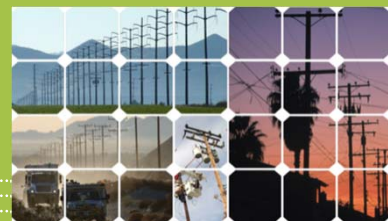
- SED's strict liability interpretation holds all pole owners liable for failures - regardless of fault
- Natural events have led to increased scrutiny from regulators and the public regarding pole loading failures
- Growth in telecommunications has increased the number of companies attaching
- Common goals such as elimination of G.O. 95 Rule 48 'will not fail language'

Joint pole ownership requires greater coordination and consistency to comply with regulations and minimize risk



SCE Pole Loading Program Overview

- Comprehensive assessment and remediation plan to address pole loading risk in SCE's service territory beginning in 2014
 - Involves 1.5 million solely owned and jointly owned wood poles (approx. 70% are jointly owned)
 - Assessment to be completed over 7 years, focusing on high risk areas first (high fire, high wind)
 - High wind areas and loading will be based on SCE's recently completed wind study by Reax Engineering
 - Remediation to be completed over 12 years (pole replacements will be scheduled up to 59 months after assessment, depending on severity)
- Identify operational efficiencies to streamline the joint pole process
- Improve pole loading calculations in the future by working with joint owners to share pole loading calculations, develop a common calculation methodology and agree on input assumptions

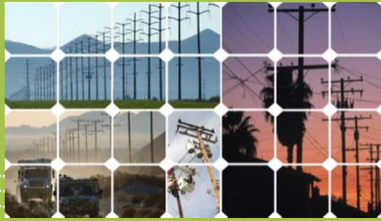


Forecast

Forecast of Assessments and Pole Replacements Costs in 2012 Constant \$

Year	Poles Assessed	Poles Replaced	Cost of Replacements
2014	206,000	3,000	\$ 39,000,000
2015	206,000	25,000	\$ 325,000,000
2016	206,000	25,000	\$ 325,000,000
2017	206,000	25,000	\$ 325,000,000
2018	206,000	25,000	\$ 325,000,000
2019	206,000	25,000	\$ 325,000,000
2020	206,000	25,000	\$ 325,000,000
2021		25,000	\$ 325,000,000
2022		25,000	\$ 325,000,000
2023		25,000	\$ 325,000,000
2024		25,000	\$ 325,000,000
2025		8,000	\$ 106,000,000
Total	1,442,000	261,000	\$ 3,395,000,000

Costs of guy repairs are not shown. Pole replacement cost is SCE's total cost net of JPO credits



Greater Coordination Required

Pursue operational efficiencies to support the remediation volume in a cost-effective way

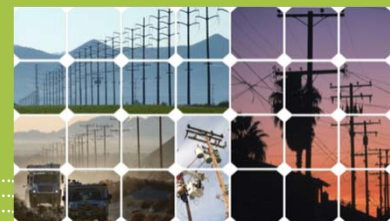
- Minimize buddy poles, single mobilization for equipment transfers
 - Redondo Beach has refused to issue permits to SCE in part because of buddy poles
 - LA County and Cal Trans have similarly threatened to stop issuing permits
- Reduce the 45 day JPA timeline
 - Providing pictures and other data with the JPA
 - CIPs to provide design guidelines for SCE
- Eliminate the paper shuffle
 - Share documents through hyper office or other electronic means



Maintaining Compliance

Steps must be taken to maintain compliance in the future

- Develop a consistent pole loading methodology across companies
 - Assumptions and inputs
 - GO 95 interpretation
 - Measurement techniques and tools
- Centralized web-based database for storing pole loading calculations
 - Current pole loading file would be available to any joint owner to view and download
 - New pole loading calc file uploaded each time a new attachment is added
 - Database managed by Edison



Next Steps

- Host technical workshops with Subject Matter Experts from joint owners and other utilities to discuss pole loading methodology
- Pilot strategies for operational efficiencies with AT&T and Verizon and bring recommendations to SCJPA

How do we obtain your support?



Southern California Joint Pole Committee

279 E. Arrow Hwy. Suite 104
San Dimas, CA 91773
Phone (909) 599-3801
Fax (909) 599-3825

August 20, 2013

A regular meeting of the **ad hoc Pole Loading Committee** took place on the above date, at 9:00 a.m., at the Committee office.

Those in attendance were:

Mr. Larry Chow	Southern California Edison
Ms. Jessica Pearson	Southern California Edison
Ms. Cindy Jacobs	Southern California Edison
Mr. Timothy Clark	Southern California Edison
Mr. Scott Hunter	City of Los Angeles
Mr. Steve Brown	City of Los Angeles
Mr. William Kearns	Verizon Ca, MCI/Comm/Metro
Mr. Albert Aleman	Verizon Ca, MCI/Comm/Metro
Mr. Bret Plaskey	Verizon Ca, MCI/Comm/Metro
Ms. Janet Chirrick	AT&T California
Ms. Paula Haney	Crown Castle NG West Inc./NewPath Networks/CA-CLEC LLC
Ms. Lupe Hernandez	AT&T Comm./Local Serv.
Ms. Lynn Prescott	Verizon Wireless
Ms. Yvonne Johnson	AT&T Mobility
Ms. Maria Ortiz	XO Communications
Mr. Paul Smolarski	T-Mobile USA
Ms. Angela Pranata	Committee Staff
Mr. Kyle Levy	Committee Staff

Those attending via teleconference were:

Ms. Alicia Smith	Sprint/Nextel/Sprint Communications
Ms. Debbie Wooten	Crown Castle NG West Inc./NewPath Networks/CA-CLEC LLC
Ms. Jaimie Collins	Crown Castle NG West Inc./NewPath Networks/CA-CLEC LLC
Mr. Joe Serrato	Crown Castle NG West Inc./NewPath Networks/CA-CLEC LLC
Mr. Josh Mathisen	AT&T California
Ms. Jennifer Navarro Yhap	MetroPCS California, LLC
Mr. Stephen Pebley	Frontier Communications
Mr. Steve D. Story	ExTeNet Systems

Ms. Jacobs opened the meeting at 9:00 a.m. by addressing the first issue on the agenda, the review of the **prior meeting minutes**. The members reviewed the July 23, 2013 meeting minutes, and there were no questions, concerns or revisions.

The second agenda item is the **Pole Loading Discussion**. Ms. Jacobs began by bringing up the Malibu settlements, and opened the floor to any discussion from the members who were working on this issue. Ms. Prescott reported that she did not have anything for the group at this time, and that she is waiting until the pole loading workshop with the technical experts is held before making any decisions concerning this at the Committee meetings. She explained that this workshop will have each members' own technical experts and should help the involved members decide on the agreed upon methods of gathering data out in the field. Ms. Prescott stated that some of the most critical information that came from this effort in Malibu was taking the field trips and observing the different ways of gathering data, and then coming to a resolution on how exactly they should be done. She expressed that even though this was done for the purpose of Malibu Canyon, it should be shared amongst the Committee and worked on together as a group as it is something that each Member may want to utilize.

Ms. Jacobs reported that Southern California Edison and Crown Castle met to discuss the work being done in Malibu, and she would like to share with the Committee one of the issues they discussed. Ms. Wooten asked that the utilities make available their information with the rest of the Committee, and not only with those that were involved in Malibu. She stated that this way going forward, all of the members will have equivalent pole loading information and will have a better understanding of what the other members are doing.

Ms. Jacobs then brought up the wind study that Southern California Edison has hired Reax to perform in order to look at the wind loads in their service territory. She stated that Edison had anticipated its completion by today so that it could be discussed at this meeting; however, it is currently in the process of being reviewed by Edison management. Ms. Jacobs added that it should be sent out shortly to be discussed at the following Pole Loading ad hoc on September 17th, 2013.

Ms. Jacobs announced that Edison's Pole Loading Methodology Workshop will be held at Edison's headquarters in Rosemead on August 29th, 2013. She stated that she had sent out an invitation earlier in the month and then shared the list of invitees with the Committee, noting those who had already confirmed. Ms. Jacobs said that she sent out another request yesterday and expects that there will be more responses soon. She requested that the members send her their subject matter expert's contact information if it is not shown on the current list of invitees. Ms. Prescott inquired if there would be a call-in number, to which Ms. Jacobs replied that there will be no teleconference option for the workshop as it is intended to be a face-to-face meeting. Ms. Jacobs informed the members that she will provide an update at the next meeting concerning how the workshop went.

The third issue for discussion is **miscellaneous items**.

There were no miscellaneous items.

Review of Action Items

- Ms. Jacobs to send Ms. Pranata Edison's wind loading documents to distribute to the members.

The meeting adjourned at 9:20 a.m. until September 17, 2013.

Kyle Levy - Assistant Manager

Southern California Joint Pole Committee

279 E. Arrow Hwy. Suite 104
San Dimas, CA 91773
Phone (909) 599-3801
Fax (909) 599-3825

September 17, 2013

A regular meeting of the **ad hoc Pole Loading Committee** took place on the above date, at 9:00 a.m., at the Committee office.

Those in attendance were:

Mr. Larry Chow	Southern California Edison
Mr. James Eastwood	Southern California Edison
Ms. Cindy Jacobs	Southern California Edison
Mr. Mark Yip	Southern California Edison
Mr. Mark Judy	Southern California Edison
Mr. Scott Hunter	City of Los Angeles
Mr. William Kearns	Verizon Ca, MCI/Comm/Metro
Mr. Larry Vail	Verizon Ca, MCI/Comm/Metro
Mr. Albert Aleman	Verizon Ca, MCI/Comm/Metro
Mr. Bret Plaskey	Verizon Ca, MCI/Comm/Metro
Ms. Paula Haney	Crown Castle NG West Inc./NewPath Networks/CA-CLEC LLC
Ms. Lupe Hernandez	Teleport Communications America, LLC
Ms. Yvonne Johnson	AT&T Mobility
Mr. Rory Gandy	AT&T Mobility
Ms. Maria Ortiz	XO Communications
Mr. Paul Smolarski	T-Mobile USA
Ms. Angela Pranata	Committee Staff
Mr. Kyle Levy	Committee Staff

Those attending via teleconference were:

Ms. Alicia Smith	Sprint/Nextel/Sprint Communications
Ms. Crystal Corbin	Sprint/Nextel/Sprint Communications
Ms. Jaimie Collins	Crown Castle NG West Inc./NewPath Networks/CA-CLEC LLC
Mr. Joe Serrato	Crown Castle NG West Inc./NewPath Networks/CA-CLEC LLC
Mr. Dennis Walls	City of Los Angeles
Ms. Janet Chirrick	AT&T California
Mr. Josh Mathisen	AT&T California
Ms. Tina Simms	AT&T California
Ms. Tracey Province	Verizon Ca, MCI/Comm/Metro
Ms. Jennifer Navarro Yhap	MetroPCS California, LLC
Mr. Stephen Pebley	Frontier Communications
Mr. Steve Garcia	ExTeNet Systems
Mr. Chris Lautenberger	Reax Engineering

Ms. Jacobs opened the meeting at 9:00 a.m. by addressing the first issue on the agenda, the review of the **prior meeting minutes**. The members reviewed the August 20, 2013 meeting minutes, and there were no questions, concerns or revisions.

The second agenda item is the **Pole Loading Discussion**. Ms. Jacobs began by explaining to the Committee that Edison's wind study has been updated, and that an introduction and brief overview will be presented at today's meeting. She continued that the members can take it back to their organizations for further review in order to bring it to next month's meeting for a more in-depth discussion. Ms. Jacobs then introduced Mark Judy who is the manager of Edison's distribution, maintenance and inspection program strategy group, and Project Manager Mark Yip who ran the wind study. Mr. Judy announced that this wind study is an important step in the Committee moving toward a common platform for their pole loading in regard to the constants, file sharing, etc. He explained that Edison's main driver for performing this study was in part to be in compliance with G.O. 95, specifically Rules 31.1 and 43. He continued that another motivating factor was the recent regulatory investigations and disaster management OIR stemming from the Malibu Canyon and San Diego fires, which placed higher scrutiny on practices involving pole strength and fire threat management. Mr. Judy stated that Edison decided that they required a comprehensive wind analysis and contracted Reax Engineering to look at their entire service territory and reassess the areas in which they had designated as 6, 8, 12 and 18 pound wind ratings.

Ms. Haney asked if Edison were taking this same information to the OIR. Mr. Judy responded that they are and that Edison plans to use it as a basis for development of their fire threat areas.

Mr. Yip explained that Reax Engineering conducted a wind loading study based on significant wind events in Edison's service territory between 1979 and 2012. He continued explaining that they modeled the 68 most severe storms, looking at 34 of each of the high wind events and the high wind and low humidity events. Using this information and a weather prediction model, a series of high resolution wind loading maps were created across Edison's service territory. They found that there were several specific areas in which they felt that the pole wind rating should be increased due to the weather modeling data.

Mr. Yip went over several of the alternatives for the weather model data sources that Reax Engineering looked into utilizing. He explained that weather stations can be used to gather point measurement data; however, these weather stations are not typically located in optimal areas of interest and are also sensitive to obstruction from trees, buildings, etc. He stated that the North American Regional Reanalysis (NARR) dataset was another alternative that was reviewed. He went on to explain that NARR is maintained by several federal agencies, and is a hybrid approach of weather stations, balloons, buoys and satellite imagery that provide much more information than a weather station alone.

Mr. Yip then presented Edison's existing wind ratings map, broken down by their districts, and explained that there are a lot of areas not represented because they have the wind areas only where they have facilities. He asked that the Committee keep in mind that the modeling according to the worst case scenario for

each area. Next, Mr. Yip presented Edison's proposed wind criteria map which have all of the previously blank areas filled in with the appropriate baseline wind areas, regardless of whether Edison has facilities there. He stated that Edison is being rather conservative when it comes to the wind loading map and comparing their data with Reax's findings to increase certain loading areas. For example, if an 18 pound wind area with a 3,000 foot elevation is on the borderline with a 6 pound area, they would turn that entire location group into an 18 pound area. Mr. Hunter asked if Edison could provide the Committee with electronic copies of these maps. Mr. Yip replied that these will be shared in shapefile format with the members along with the wind study performed by Reax within the next few days.

Ms. Jacobs presented the Wind Design Impact Matrix which takes the wind study findings and looks at the impact of Edison's service territory. The matrix shows the various wind ratings and in which category each of Edison's poles fall into along with the estimated number of poles which require remediation, whether it be replacement, guy repair, etc. Following are listed the proposed number of poles in each wind rating, with the biggest change being the doubling of poles appearing in the 18 pound rating. Ms. Jacobs also noted that Edison is introducing the new rating of a 24 pound wind area, which they did not have before. The following columns show how many poles need to be remediated for each wind area after the wind study is performed and the percentage change in each of the previous categories. Ms. Jacobs moved on to the estimated cost of remediation after the pole loading study is performed which was \$3.9b, a 10% increase from the previously proposed remediation cost of \$3.6b. Mr. Eastwood pointed out that not all of these numbers will affect the Committee as this study is based off of all of Edison's 1.4 million poles including solely owned poles, and that only around 70% of their total poles are joint.

Mr. Aleman asked what kind of time frame Edison is requesting of the members to review the Reax wind study and respond with their concurrence of the findings before Edison moves forward with adopting these high wind areas. Ms. Jacobs replied that Edison is starting their pole loading program and will be performing field tests at the end of this year. She continued that Edison will begin their remediation program starting in 2014 and so will require the members to respond before the end of this year. Mr. Aleman responded that his concern with this wind study and remediation program is that it is according to Edison's standards alone, and since the majority of the poles involved have joint ownership they need to meet the standards of all involved members. He continued that before Edison moves forward with this the members should review the Reax wind study and see what went into it, and that Edison should be seeking the members' concurrence prior to adopting these wind areas. Mr. Judy responded that the members should take the wind study back to their work groups for review and bring up any issues or concerns they have.

Mr. Eastwood brought up the offsite meetings that were planned to discuss pole loading methodology. He stated that Ken Trainor from SCE talked about the need for a common platform. Mr. Eastwood continued that the elements of common methodology were discussed, including the measurement tools and techniques for using those tools. He stated that the software compatibility was also discussed. Mr. Eastwood said that the whole purpose of these meetings is to bring the information back to the Pole Loading Committee for further discussion. Mr. Eastwood reported

that Ms. Prescott shared a presentation on the Coastal Commission engineering. He stated that another pole loading methodology meeting is planned to be held before the next ad hoc meetings. Ms. Haney asked if it would be permitted for attendees to call in rather than attend in person. Ms. Jacobs replied that this would be acceptable if attendees wish to listen in on the meeting.

The third issue for discussion is **miscellaneous items**.

There were no miscellaneous items.

Review of Action Items

- Mr. Levy to upload SCE's wind study presentation to the JPC website and send to the Committee.
- Ms. Jacobs to send members Reax wind study.

The meeting adjourned at 10:00 a.m. until October 15, 2013.

Kyle Levy - Assistant Manager

2013 SCE Service Territory Wind Study for SCJPC

September 2013

Drivers to Reassess Wind Areas

- SCE Geographical wind designations for pole loading has evolved overtime and have been influenced by:
 - General Order 95
 - Rule 31.1. Apply “known local conditions” where applicable
 - Rule 43 – 6# for heavy loading and 8# for light loading
 - Historical wind Analysis
 - SCE known local conditions
 - Recorded storm events
 - Transmission wind studies for specific circuits
 - Localized monsoonal / micro burst storm events
 - 1977 adopted 12# in certain districts
 - 2003 added 18# areas
 - Recent Regulatory Events
 - Malibu Canyon Investigation
 - Order Instituting Rulemaking (OIR) Drivers
 - Increase CPUC scrutiny on Pole loading in light of recent events
 - California Statewide Fire Threat Maps
 - SCE’s Pole Loading Program (PLP)

Wind Study Methodology

- SCE contracted with Reax Engineering to conduct a wind loading study based on significant wind events in SCE service territory between 1979 and 2012
 - Modeled 68 most severe storms throughout SCE's service territory
 - 34 High wind or “winter” events
 - 34 High wind and low humidity or “summer” events
- A general purpose mesoscale numerical weather prediction model was used to create a series of Geographic Information System (GIS) based high resolution wind loading maps across SCE's service territory.
- SCE increased wind areas up to current standards based on known local conditions from historical recorded storm events
 - Antelope Valley
 - Blythe

Weather Model Data Sources

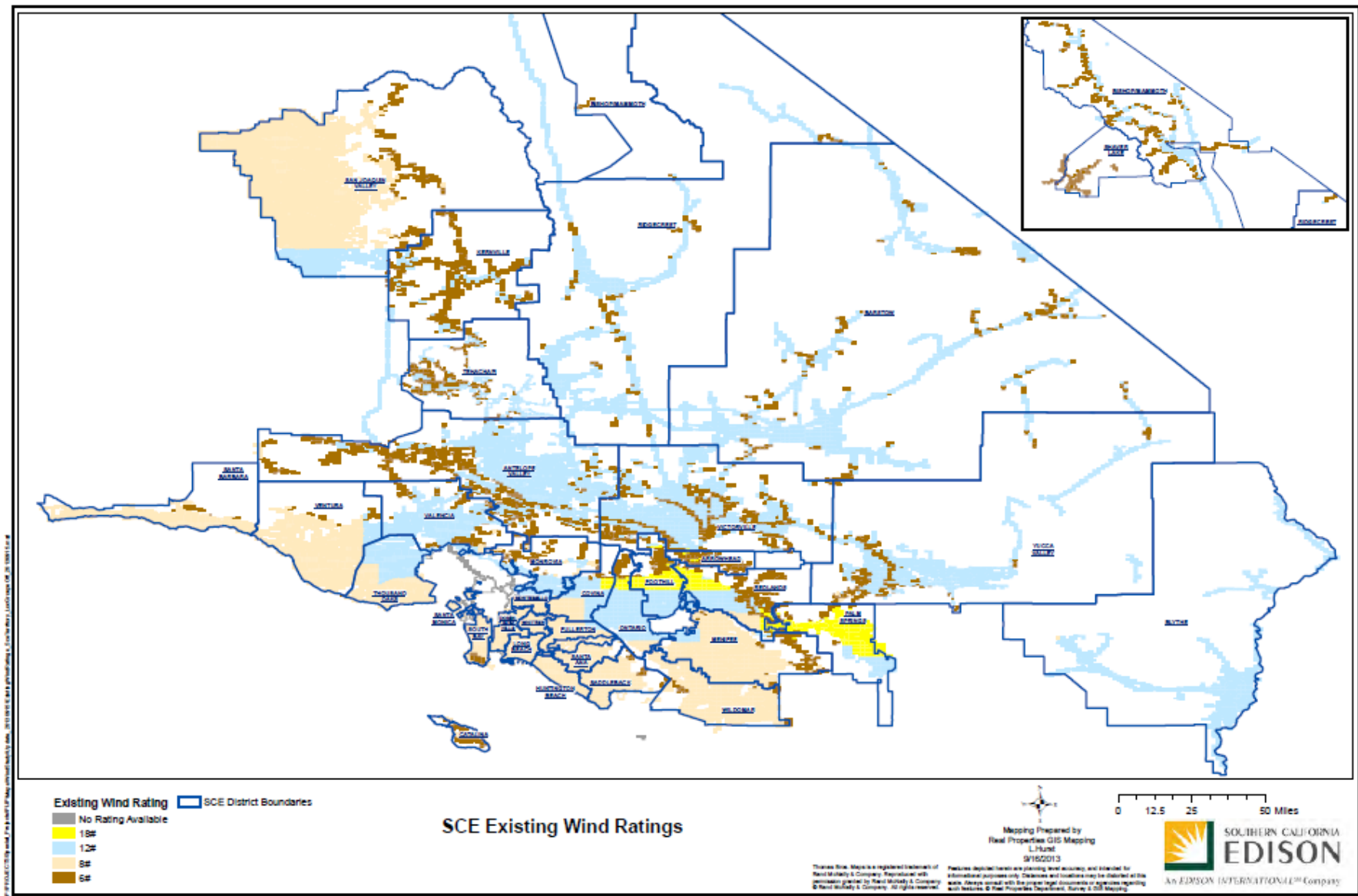
■ Weather stations

- Insufficient weather stations for study that are typically not located in an area of interest and has a variable data collection frequency
- Surface point measurements only
- Does not adapt well to terrain topography (i.e. wind obstructions)

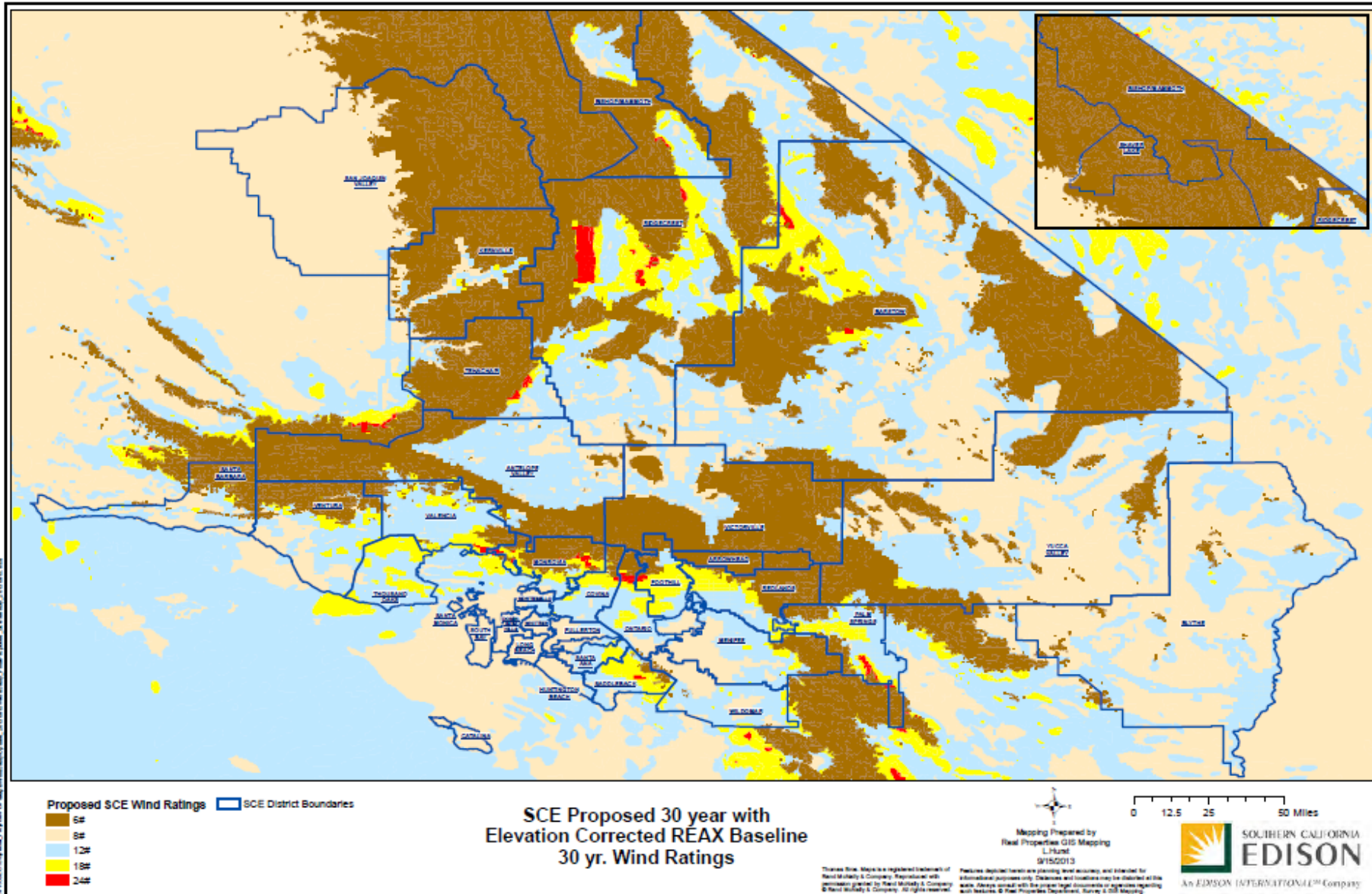
■ North American Regional Reanalysis (NARR) Dataset

- Surface point measurements (i.e. balloon, buoy, weather stations) and Satellite data
- Maintained by multiple federal agencies
 - National Centers for Environmental Prediction (NCEP), National Weather Service (NWS), National Oceanic and Atmospheric Administration (NOAA)
- Standard dataset used for analysis of historical weather in the U.S.
- Over 300 data points updated at 3 hour intervals from 01/01/79 to present (i.e. wind speed, air pressure, precipitation, humidity, etc.)
- Covers US, portions of Canada and Mexico

Existing SCE Wind Map



Proposed SCE Wind Map



Wind Design Impact Matrix (Wood, Composite, and Light Weight Steel Poles)*

Wind(#)	SCE - Current # poles	Remediation # of poles	SCE - Proposed # poles	Remediation # of poles	# Poles Delta	Remediation Delta	% Delta # of Poles	% Delta Remediation
6	122,387	27,614	154,287	34,812	31,900	7,198	26%	26%
8	736,008	130,891	626,972	111,500	(109,036)	(19,391)	-15%	-15%
12	481,651	122,248	486,226	123,409	4,575	1,161	1%	1%
18	68,193	34,792	135,091	68,924	66,898	34,132	98%	98%
24	-	-	5,663	2,889	5,663	2,889	100%	100%
Total	1,408,239	315,546	1,408,239	341,535		25,989	0%	8%
Estimated Costs** (\$ Billions)		\$ 3.6		\$ 3.9		\$ 0.3		

* SCE 2013 GRC Pole Loading Study failure rates

** SCE loaded pole replacment and repair costs

QUESTIONS?

Southern California Joint Pole Committee

279 E. Arrow Hwy. Suite 104
San Dimas, CA 91773
Phone (909) 599-3801
Fax (909) 599-3825

October 15th, 2013

A regular meeting of the **ad hoc Pole Loading Committee** took place on the above date, at 9:00 a.m., at the Committee office.

Those in attendance were:

Mr. James Eastwood	Southern California Edison
Ms. Jessica Pearson	Southern California Edison
Ms. Cindy Jacobs	Southern California Edison
Mr. Mark Yip	Southern California Edison
Mr. Scott Hunter	City of Los Angeles
Mr. Steve Brown	City of Los Angeles
Mr. William Kearns	Verizon Ca, MCI/Comm/Metro
Mr. Larry Vail	Verizon Ca, MCI/Comm/Metro
Mr. Albert Aleman	Verizon Ca, MCI/Comm/Metro
Ms. Lynn Prescott	Verizon Wireless
Ms. Paula Haney	Crown Castle NG West Inc./NewPath Networks/CA-CLEC LLC
Ms. Lupe Hernandez	Teleport Communications America, LLC
Ms. Yvonne Johnson	AT&T Mobility
Ms. Maria Ortiz	XO Communications
Ms. Angela Pranata	Committee Staff
Mr. Kyle Levy	Committee Staff

Those attending via teleconference were:

Ms. Alicia Smith	Sprint/Nextel/Sprint Communications
Ms. Jaimie Collins	Crown Castle NG West Inc./NewPath Networks/CA-CLEC LLC
Mr. Joe Serrato	Crown Castle NG West Inc./NewPath Networks/CA-CLEC LLC
Ms. Janet Chirrick	AT&T California
Ms. Tracey Province	Verizon Ca, MCI/Comm/Metro
Mr. Randall Starkey	Time Warner Cable
Ms. Jennifer Navarro Yhap	MetroPCS California, LLC
Mr. Stephen Pebley	Frontier Communications
Mr. Chris Lautenberger	Reax Engineering

Mr. Eastwood opened the meeting at 9:00 a.m. by addressing the first issue on the agenda, the review of the **prior meeting minutes**. The members reviewed the September 17, 2013 meeting minutes, and there were no questions, concerns or revisions.

The second agenda item is the **Pole Loading Discussion**. Ms. Jacobs began by asking if the members had any questions or comments for her regarding Reax's wind study which was sent out to the Committee for review. She shared a question she had received from Mr. Aleman which asked why Edison is increasing the wind loading in certain areas based on their historical experience, given that Reax has performed a comprehensive wind study which should have identified all of the storms. Mr. Lautenberger responded that some of these thunderstorms were not picked up because of the way the wind study was put together in that it essentially distilled 35 years of historical weather data into to a single map. He continued by stating that in doing so there are approximations that have to be made, one of these being large scale events that result in elevated wind patterns across large parts of the territory. Mr. Lautenberger noted that the spatial size that was used to identify these areas is about an 18 mile by 18 mile grid, and using that scale to identify the days they also studied at a much higher resolution of less than 1 mile. He stated that since the study selected the days to run and generated the wind and weather data, the study did not capture the random or stochastic storms.

Ms. Jacobs offered the members the chance for their pole loading experts to contact those of Edison's and have a separate conference call to discuss aspects of the pole loading in more detail. She let the members know to contact her concerning this and she will help to arrange these meetings. Ms. Jacobs then announced that the next pole loading workshop is scheduled for October 24th in the Pomona area. She noted that they are still looking for a suitable room in which to hold the workshop, and will notify those involved once one is found. She advised those who are planning to actively take part in the discussion to attend the meeting in person and will supply the call in number for those who just wish to listen. Ms. Jacobs stated that a draft document of the approved measurement techniques was sent out and asked that the member's subject matter experts review this document and make any required edits to it before the meeting on the 24th so that it can be discussed there. She then reported that the other thing being worked on is sharing the background assumptions that go into the pole loading calculations for O-Calc and SPIDA. She explained that these are not the pole measurements that are taken, but rather are the assumptions about tension, wood strain, etc.

Ms. Jacobs asked if there was anything that needed to be shared or discussed concerning the Malibu project. Ms. Prescott replied that they are currently in the engineering phase and will soon be in the construction phase. She explained that they are discussing what type of poles will be used and if they should be light weight steel poles, and the communication companies presented a few ideas to Edison.

The third issue for discussion is **miscellaneous items**.

There were no miscellaneous items.

Review of Action Items

There were no action items.

Kyle Levy - Assistant Manager

Southern California Joint Pole Committee

As Authored by Members of the Pole Loading Sub Committee

Approved Measurement Techniques, Tools and Methods for Accurate Acquisition of Pole Loading Data

Note: All, please review the below information pertaining to the collection of accurate data needed when performing the required Field Assessment. Add comments or recommendations below the cited techniques using track changes or in an alternate font color (red is preferred.)

Tools , Techniques and Agreed Values for Data Deviations

- Tools used must be accurate to within an agreed upon amount. Below is the maximum allowable data deviation value for:
 1. Height of Attachment = ____” Inches
 2. Size of all type of Pole Equipment (L x W x H) = ____” Inches
 3. Weight of Equipment = ____Lbs
 4. Tangent Pole Angle of Leads = ____Degrees
 5. Corner Pole Angle of Leads = ____Degrees
 6. Angle to Anchor = ____Degrees
 7. Delta Value of Anchor = ____Ft
 8. Lead of Anchor = ____Ft
 9. Equipment and Conductor Offset Values ____” Inches
 10. Communication Conductor Bundle Diameter ____” Inches or Fractions thereof
 11. Pole Embedment = ____Ft
 12. Pole Ground Line Circumference = ____”
 13. Sag Measurement(s) (@ 60 Degree Fahrenheit)=____ Ft
 14. Static *(Worst Case) Tension Values: =____lbs *(Per Proprietary Owner)
 15. Field Condition *(Dynamic)Tensions Values (@ 60 Degree Fahrenheit)=____lbs
 16. Span Length = ____Ft

- Tools such as lasers must be maintained and calibrated as recommended by the Product Manufacturer. If there is a change in product accessories or different locations, it is recommended that recalibration be performed.

- Measurement devices such as Hastings and Fiberglass Pole Sticks are approved for use on poles within 10’ of the overall length of the subject pole. For Example: A 30’ pole stick can be used to Measure a 40’ pole but not a 45’ pole. The use of tape measures to complete these types of measurements is required to acquire pole top attachment heights.

- As required by General Order 95 Rule 44.4, all types of cited information needed by the requesting party should be provided in a cooperative effort. This information should accommodate the Requestor's need for accurate data involved in their pole loading process. This information will also provide the conductor/equipment specifications and other pertinent pole information. Shell test and pole related documents will be available per this official request.

Methods and procedures for field collection of accurate values

Ground Line Circumference:

- Measurements of ground line circumference as referenced above should be accurate within (____") and should be able to wrap around the pole.
- If obstructions exist that impedes the accurate measurement of the Ground Line, measure the pole circumference at the next available location, using 1 ft increments. Post the identification of the species, an approved taper rate (in/ft) per (ANSI Table 2) will be used to acquire a Ground line measurement.
- Ground Line Measurements should occur at the highest point at which the sloped grade hits the pole.
- The subtracted value used to assess a Ground Line Circumference when only one vertical ground riser is attached is $\frac{3}{4}$ ".
- The subtracted value used to assess a Ground Line Circumference when more than one vertical ground riser (VGR) is attached, and the tapes make continual contact with the pole surface is $\frac{3}{4}$ " per VGR.
- In the event that more than one VGR is attached to the pole and the tape cannot make continual contact with the pole, measure the pole VGR to VGR add these values up. Also, include 1" per VGR attached.
- If a Riser is attached to the surface of the pole, use the previously cited method of measuring the unobstructed areas of the pole and adding the diameter of the Risers.
- Calipers are discouraged from use, and values obtained using this method should be an average of three different caliper measurements.
- C-Truss poles should be treated as having 100% of the shell strength still available.

Determining Pole Embedment and Species:

- Measurements of Pole Embedment as referenced above should be accurate within ____".
- Use the location of the Brand information on pole and the base owner's method for determining embedment. E.g. SCE Poles 50' and smaller have a Brand at ten feet from the butt end of the pole and 13' on poles 55' and longer. ANSI recommendation is 10' (+/- 2") up to 50' and 14' (+/- 2") for poles 55' and taller.
- Use the top of pole height in determining actual pole length.
- Use all available shell test records and base owner records in these determinations.

- Use known circumference values to help determine species, and any unique identifiers such as knotting.

Equipment Heights suggested for use when multiple equipment contact locations exist:

- Accuracy is paramount to this effort and in lieu of placing the subject equipment at its exact height, use the owners suggested location for calculations. For example:
 - 1.) SCE Street Light Configurations with upper and lower support brackets, measure the center of the upper most attachment bolt.
 - 2.) Multiple Conductors "Rack" type configurations of Secondary conductors would use the center Rack Height.
 - 3.) Transformers attached with upper and lower brackets, use the center of the upper most attachment bolt.

Determining Span Lengths, Bearings and Deviations Angles:

- Measurements of the above data sets must be accurate within the previously specified allowable values.
- Primary Tools allowed to obtain Deviation Angles are:
 - 1.) Lasers that measure Bearing and Angle
 - 2.) Pull Finder(s)_ Bell System or Protractor design
- Alternate methods of determining Span Bearing
 - 1.) Google Earth???
 - 2.) Hand Held Compass???

Determining Anchor Rod Diameter, Anchor Guy Diameter, and Bearing from Pole:

- Measurements of the above data sets regarding diameter must be exact.
- Note: SM, HS, EHS, *(the rated strength of Anchor Guys) is to be determined based on the values provided by the owner of the facility.
- Primary tools allowed to obtain anchor rod diameter, and down guy diameter are:
 - 1.) Anchor and Guy Gauges . e.g SCE's Gauges used for this purpose.
 - 2.) Bell System Pull Finder "attached" Gauges.
 - 3.) Calipers accurate to .01"

- The use of color codes painted on Down-guy Pre-forms is allowed as a secondary process, and should not be the only criteria used in measuring Guy diameter.
- Tools used to determine Anchor Bearing from Pole are Lasers with Azimuth functions and Bell System Pull Finders using the “Corner Bisector” side of the Tool.

Additional Items and Methods used to develop consistent values:

- Measurements of pole heights and attachment should be done from the face of the pole.
- Identifying existing Pole Damage to the shell or other portions of the pole should be documented and incorporated in the loading assessment.

Prepared By:

Jeremy Harmon

CES

Southern California Joint Pole Committee

279 E. Arrow Hwy. Suite 104
San Dimas, CA 91773
Phone (909) 599-3801
Fax (909) 599-3825

November 19th, 2013

A regular meeting of the **ad hoc Pole Loading Committee** took place on the above date, at 9:00 a.m., at the Committee office.

Those in attendance were:

Mr. James Eastwood	Southern California Edison
Ms. Jessica Pearson	Southern California Edison
Ms. Cindy Jacobs	Southern California Edison
Ms. Michelle Arellanes	Southern California Edison
Ms. Laura Navar	Southern California Edison
Mr. Steve Brown	City of Los Angeles
Ms. Lynn Prescott	Verizon Wireless
Ms. Paula Haney	Crown Castle NG West Inc./NewPath Networks/CA-CLEC LLC
Mr. Joe Serrato	Crown Castle NG West Inc./NewPath Networks/CA-CLEC LLC
Ms. Marina Birarova	Crown Castle NG West Inc./NewPath Networks/CA-CLEC LLC
Mr. David Elston	Crown Castle NG West Inc./NewPath Networks/CA-CLEC LLC
Ms. Lupe Hernandez	Teleport Communications America, LLC
Ms. Yvonne Johnson	AT&T Mobility
Ms. Maria Ortiz	XO Communications
Ms. Angela Pranata	Committee Staff
Mr. Kyle Levy	Committee Staff

Those attending via teleconference were:

Mr. Mark Yip	Southern California Edison
Mr. Larry Vail	Verizon Ca, MCI/Comm/Metro
Mr. Albert Aleman	Verizon Ca, MCI/Comm/Metro
Ms. Tracey Province	Verizon Ca, MCI/Comm/Metro
Ms. Janet Chirrick	AT&T California
Mr. Josh Mathisen	AT&T California
Ms. Tina Simms	AT&T California
Ms. Jaimie Collins	Crown Castle NG West Inc./NewPath Networks/CA-CLEC LLC
Ms. Jane Bibb	Crown Castle NG West Inc./NewPath Networks/CA-CLEC LLC
Ms. Alicia Smith	Sprint/Nextel/Sprint Communications
Ms. Jennifer Navarro Yhap	MetroPCS California, LLC
Mr. Stephen Pebley	Frontier Communications

Mr. Eastwood opened the meeting at 9:00 a.m. by addressing the first issue on the agenda, the review of the **prior meeting minutes**. The members reviewed the October meeting minutes, and there were no questions, concerns or revisions.

The second agenda item is the **Pole Loading Discussion**. Ms. Jacobs announced that the offer she had proposed of setting up a separate conference call between the members' wind experts and the Reax employees who worked on Edison's study is still available. She also stated that although Edison had some earlier reservations about providing a shapefile of their wind designations to the members, they have since changed their stance on this and will provide the file upon individual request only.

Mr. Yip presented Edison's Storm Data and Transmission Wind Study. He began by going over Edison's service territory which he noted is slightly different from the previous study's map in that some additional wind areas were added for expansion outside of Edison's facility grouping. Mr. Yip noted that Blythe is the most prominent district in which the higher district boundary is shown as a light blue color on the map, indicating a 12 lb. designation, and that Blythe, Antelope Valley, Monrovia and Palm Springs were designated as being of importance to bring up at the wind discussion. Mr. Yip explained that in addition to the Reax wind study results, supplemental wind event data from SCE sources was also used in determining wind designations, and that this data was used to maintain previous wind designation of 12 psf. He described how SCE pulled additional storm information from their storm register for the districts listed above, and that they incorporated 8 transmission wind studies done by Aerocomp.

Mr. Yip shared slides which displayed a breakdown of the number of poles related to a heavy wind or micro burst cell activity in Antelope Valley, Blythe, Monrovia and Palm Springs. He then went over a table which summarized the 8 transmission line studies and included date completed, geographic location, sustained wind speed, pole height and the return interval. Mr. Mathisen asked Mr. Yip if there was any consideration made to when these high wind events had occurred. Mr. Yip explained that SCE and Reax both used studies which combined summer and winter in order to receive the worst case results. Mr. Vail asked how the micro burst data is collected and Mr. Yip replied that whenever a pole goes down in SCE's service territory due to a storm event, their experts are sent out in the field to investigate such poles. The information they obtain includes pole numbers, pictures and reasoning as to why the poles went down. Mr. Vail also asked if the wind speed is recorded as well and Mr. Yip responded that it is not recorded; only the general reason the pole went down is noted such as "heavy winds" or "tornado". Mr. Vail then asked how the wind speeds were calculated on the charts that were shown in the presentation and if the current wind speed is not recorded, how then can it be reasoned what was the exact cause of the pole going down. Mr. Yip responded that the wind speeds are calculated through various points of reference from a national database to running through different algorithms, and that the wind speed is not determined during SCE's initial investigation process as to the cause of why a pole down. He further explained that the pole is assessed and all of the various factors accounted for such as a pole's age, loading, etc. in order to rule out the pole going down by any reason other than weather related.

Mr. Mathisen asked if there were any areas that were increased by more than one step from past wind events by the Reax study and Mr. Yip replied that even when accounting for the worst case scenarios, there were no areas which fit this criteria. Mr. Mathisen then asked if the grids SCE uses for their maps are the same size as those found in Thomas Bros. Maps. Mr. Yip replied that their grids are smaller and added that although they have been reporting out by Thomas Bros. Maps pages, SCE's location groups are a lot smaller. Mr. Yip noted that the shapefile they will be sending out will be according to SCE's location groups, which may interfere with some of the boundaries noted on the Thomas Bros. Maps.

Ms. Jacobs then took over hosting the presentation by introducing SCE's Pole Assessment and Replacement Forecasts. She stated that the pole loading program is SCE's project to go out and assess all of the poles in their service territory which is to be done within 7 years, beginning in 2014. Ms. Jacobs explained that although the assessments are to begin in 2014, it may take quite some time to figure out which poles are overloaded and to get the designs done, so realistically the majority of construction will not begin until 2015. Ms. Jacobs noted; however, that because of this, she will share the assessment schedule for 2014 which will lead to the first group of pole replacements. She also described the program SCE has in place to replace aged and deteriorated poles. The replacement of deteriorated poles is done through an intrusive inspection under G.O. 165 and Ms. Jacobs stated that most members should be familiar with this process. She stated that the replacement of aged poles is for poles that are over 60-70 years old and will likely fail inspection anyway, so SCE will go out and proactively clean these poles up. She explained that in 2014, SCE plans to replace a good deal of these aged poles in order to ramp up to the level of volume they are going to see once the remediation gets underway. Ms. Jacobs then shared a chart which showed the projected aggregate volume of work from the different programs, focusing on the increase in pole loading program poles after 2014. She reiterated that SCE is still developing these plans and that everything shared here is still subject to change.

Next, Ms. Jacobs shared a document with the Committee which showed all of the jointly owned, aged pole records including how many each member are involved on and the districts in which they are located. She stated that Mr. Levy will be sending this document out to the Committee after this meeting. Ms. Jacobs cautioned; however, that SCE has performed pilots on these poles and due to their age, have found that a significant number of the records do not reflect what is actually out in the field.

Ms. Jacobs then briefly summarized the pole loading methodology team. She reported that there have been several workshops so far with members' subject matter experts wherein they discussed how to do a correct pole load. The last meeting held was on October 24th and at this meeting a list of assumptions for wood pole properties was developed such as density, etc. She informed the Committee that she has provided Mr. Levy with these two files in order to send them out to the team members. Ms. Jacobs went over the groups that the team divided into in order to address various issues separately from one another. She explained that if anyone would like to work on a specific team they can submit a request to her and they will be assigned accordingly. Ms. Jacobs then announced that the next meeting is going to be held in late January, although an exact date has not been scheduled as of yet.

Lastly, Ms. Jacobs addressed the possibility of sharing the catalog/client files which are the assumption files running in the background of O-Calc, SPIDA, etc. She reported that so far, several members have submitted their catalog files to Mr. Levy to post on the SCJPC website to be shared with the rest of the Committee.

The third issue for discussion is **miscellaneous items**.

Providing Photos to SCE

Ms. Haney reported that she has received a request from an employee of SCE's to include photos of the poles in which pole loading is being confirmed. She stated that it takes several email attempts in order to get any photos to SCE because of the file size limitations placed on their incoming emails. She reasoned that if this is now a standard, it should be made known that it is such and that SCE should provide a repository in which the photos can be stored and then accessed by their employees. Mr. Eastwood replied that the inclusion of photos is not mandatory, although SCE is looking into creating a system which will make it easier to send and receive photos if a member so chooses to send them. He assured Ms. Haney that this is not a new standard and that the individual who had contacted her about the photos has already been made aware of this. The members then discussed the possibility of utilizing the Sharefile for this purpose. Mr. Eastwood stated that SCE has considered this, but has been apprehensive to do so because they intend to eventually provide this information to the members through SPIDA and it would essentially involve double the work to do this on both ends.

Review of Action Items

- Mr. Eastwood reminded the members to contact Ms. Jacobs if they wish to take part in the pole loading methodology workshop.
- Mr. Levy to email documents to the members.

The meeting adjourned at 10:20 a.m., until January 14, 2014

Kyle Levy – Assistant Manager