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September 10, 2015

Mr. Kenneth Bruno
Program Manager
Gas Safety and Reliability Branch
Safety and Enforcement Division
California Public Utilities Commission
320 W. Fourth Street, Suite 500
Los Angeles, CA 90013

Dear Mr. Bruno:

The Safety and Enforcement Division (SED) of the California Public Utilities Commission conducted a G.O. 112-E Operation and Maintenance Inspection of Southern California Gas Company's (SCG or SoCalGas) Cathodic Protection (CP) Facilities in the Mid-City (Inspection Unit) on May 4-8, 2015. The inspection included a review of the Inspection Unit's cathodic protection and odorant records for calendar years 2013 and 2014 and random field inspections of pipeline facilities in the Belvedere, Juanita, and Hollywood districts. SED staff also reviewed the Inspection Unit's Operator Qualification records, which included field observation of randomly selected individuals performing covered tasks.

SED staff identified one probable violation of G.O. 112, Reference Title 49 Code of Federal Regulations (CFR), Part 192 during the course of this inspection. SED also made two recommendations and several observations during the course of this inspection. These are described in the Summary of Inspection Findings enclosed with this letter.

Please feel free to contact me at (213) 305-8660 if you have any questions or need additional information.

Sincerely,

W. Jeff Koskie

Cc: Lam, Willard
Tong, Kan Wei
Epuna, Matthewson

Attachments

**Summary of Inspection Findings
2015 SCG Mid-City LA Inspection
May 4-8, 2015**

I. SED Identified Probable Violations

Title 49 CFR Part 192, Section 192.465(d) – External Corrosion Control: Monitoring

“Each operator shall take prompt remedial action to correct any deficiencies indicated by the [external corrosion control] monitoring.”

The May 19, 1989, Federal Pipeline and Hazardous Materials Safety Administration’s (PHMSA) Inspection Guideline and Interpretation #PI-89-006 for 192.465(d) states that, as a rule of thumb, PHMSA interprets “prompt” as having the “correction completed by the time of the next scheduled monitoring”.

SED found numerous Cathodic Protection (CP) packages to be deficient for intervals exceeding SCG’s routine monitoring frequency defined in SCG Gas Standard 186.0135, and as required in 49 CFR §192.465(d). The CP Packages are listed in Attachment A and Table 1 below.

SED recognizes that in some instances, factors outside of SCG’s control may be the cause of delay for restoring deficient CP packages (i.e. environmental, permitting, moratoriums, etc.). However, SED observed the cause of delays for the locations in Table 1 to be within the control of SCG. For example, CP technicians would list “not enough time to troubleshoot package” for action taken or “area needs new anodes” yet the lengthy installation of new anodes does not restore the CP package. SED believes the delays in restoring CP deficiencies were manageable by SCG and therefore violations of CFR 192.465(d).

Table 1. Deficient CP Packages

District	Area	Date Deficiency Identified	Date noted CP Package submitted to SCG planning department	# of Days Deficient
Belvedere	C0405E-7	4/11/2012	4/26/2013	1101
Hollywood	ADA038-4	11/13/2013	1/12/2015	520
Hollywood	BEV119-5	5/22/2013	9/5/2014	695
Hollywood	BEV067-3	9/18/2012	1/23/2014	941
Juanita	SIL044-1	11/29/2012	1/23/2013	869
Juanita	SIL042-1	9/23/2011	2/28/2012	1302

Provide SED with a status update on the remediation of the CP packages listed in Attachment A and Table 1 above.

Table 1. Deficient CP Packages

District	Area	Date Deficiency Identified	Date noted CP Package submitted to SCG planning department	# of Days Deficient	CP Area Status	Response	Corrective Action	Estimated Completion Date
Belvedere	C0405E-7	4/11/2012	4/26/2013	1101	DOWN	9/2/2015 CP Area out of tolerance (OOT) <ul style="list-style-type: none"> 8/4/2015 Interference anodes have been installed, but CP Areas still OOT <ul style="list-style-type: none"> Recorded all ECS outputs. Notification 100007390918. Order 520001156514. 	<p>Next Steps:</p> <ul style="list-style-type: none"> Continue to troubleshoot CP Area to determine what is impacting the CP Area to be OOT. <ul style="list-style-type: none"> Identify whether there are any additional interference or shorts in the area. Determine whether more anodes need to be installed to bring this area within tolerance. 	December 31, 2015, dependent upon the length of time it takes to troubleshoot the area to identify the problem that is causing the area to be OOT.
Hollywood	ADA038-4	11/13/2013	1/12/2015	520	DOWN	8/13/2015 CP Area OOT pending anodes. <ul style="list-style-type: none"> Work Order-# 54-27174. Notification 100007405258. Order 520001149873. 	<p>Next Steps:</p> <ul style="list-style-type: none"> 8/31/2015 OMOs sent to Contractor for the installation of multiple anodes. Estimated Date for Contractor to complete anode installation is 9/30/2015. 	October 31, 2015, to get anodes installed and SPS to take reads after the anodes have been installed, so that the CP Area is within tolerance, and no other issues arise in CP Area.
Hollywood	BEV119-5	5/22/2013	9/5/2014	695	UP	6/1/2015 CP Area within tolerance	<ul style="list-style-type: none"> 6/1/2015 Order 540000031558 completed. Installed anodes within CP Areas, which brought the area within tolerance. 	
Hollywood	BEV067-3	9/18/2012	1/23/2014	941	UP	5/9/2015 CP Area within tolerance	<ul style="list-style-type: none"> 3/24/2015 Work Order 540000009671 completed. Read point was exposed due to casing being paved over. <ul style="list-style-type: none"> 5/6/15 Reconnected ECSs. 5/9/15 100mv shift completed. 	
Juanita	SIL044-1	11/29/2012	1/23/2013	869	UP	6/30/2015 CP Area within tolerance Short cleared at MSA.	<ul style="list-style-type: none"> 6/09/2015 Installed new anodes in CP Area. <ul style="list-style-type: none"> Found reads were much lower than when troubleshooting was performed and required for anodes submitted on 5/2/15. Troubleshooting performed, found and repaired short. Verified CP area is within tolerance after short cleared. <ul style="list-style-type: none"> Order 520001141582. 	
Juanita	SIL042-1	9/23/2011	2/28/2012	1302	DOWN	9/2/2015 CP Area Out-of-Tolerance (OOT)	<ul style="list-style-type: none"> 7/31/15 Capital phased project still pending. 8/28/15 5 of 7 OMOs completed. 5 WRs received permits 8/12 and Contractor had installed anodes (5 Orders Completed) Waiting upon 2 remaining permits for WRs to install anodes 	December 31, 2015 to get anodes installed and SPS to take reads after the anodes have been installed to ensure that the CP Area is within tolerance and no other issues arise in CP Area.

II. Concerns, Recommendations, and Observations Summary

1. During a 5/6/15 visit to 3632 West 6th Street and South Harvard Boulevard in Los Angeles, SED observed heavy atmospheric corrosion on the aboveground piping and fittings on the meter assembly during a pipe to soil reading. SCG recognized the concern and remediated the atmospheric corrosion within a week of the field visit. This note serves as a record of the observation.

Response: A work order was issued to replace manifold.

Corrective Action: Order 52-1109991 was completed on June 9, 2015.

2. During a 5/5/15 field visit to 312 N 4th Street in Los Angeles, SED discovered a meter assembly with insufficient protection from vehicle impact. The meter assembly is located adjacent to the residence's driveway, exposing the meter assembly to a risk of impact. Meter protection was currently installed; however, it was not placed in the location most likely to experience impact damage. SED recommends SCG install meter protection in the location that offers the most protection from vehicular impact. Provide SED with an update on SCG's actions at this location.

Response: OMO issued to install four-inch guard post to protect MSA.

Corrective Action: OMO sent to planning on August 14, 2015. On September 3, 2015, Work Order# 54-54874 was sent and set ready for dispatch.

3. During a 5/6/15 field visit to 6341 Lindenhurst Avenue in Los Angeles, SED discovered the regulator vent piping of the meter assembly did not extend far enough outside to allow any escaping gas to vent to atmosphere in the event of a regulator failure. SED recommends SCG extend the regulator vent piping away from the crawl space minimize the risk of any gas accumulation in the event of a regulator failure. Provide SED with an update and photo(s) of the remediation at this location.

Response: Unscheduled work order was generated to vent regulator piping of the meter set assembly.

Corrective Action: Regulator vent piping was extended by SPS on unscheduled work order, which was completed on May 7, 2015. (See photograph.)

4. During a 5/6/15 field visit to 350 South Mcarty Drive in Los Angeles, SED discovered the service riser bypass and shut-off valve buried in a newly poured concrete slab walkway. The contractor responsible for pouring the concrete slab and preventing access to the shut-off

valve was present during the field visit. SCG planned to schedule a follow up visit to ensure remediation of the buried riser bypass and shut-off valve. Provide SED with an update and photo(s) of the remediation at this location.

Response: Order was issued to the field to raise buried service riser bypass and shut-off valve.

Corrective Action: Order # 52-108963 to raise buried service riser and bypass was completed on May 28, 2015. (See photograph.)

During field visits to CP read locations (read points), SED observed numerous read points to still have deficient levels of cathodic protection since the last read date or to currently have deficient levels of cathodic protection since an adequate last read. Table 2 outlines the read points observed during the field visits. Provide SED with an update on the remediation of each deficient read location listed in Table 2.

Table 2. Field Visit Deficient Pipe-to-Soil Read Locations

District	Area	Point	Location	SCG Last Maintenance Date	Last Read (Volts)	SED Field Visit Read (Volts)
BELVEDERE	C0381E-5	D	5009 ASTOR AVE	1/28/2014	-0.803	-0.842
BELVEDERE	DOW035-4	A	7119 WATCHER	12/10/2013	-0.833	-0.754
HOLLYWOOD	ADA002-8	B	6534 HAYES DR	5/22/2013	-0.846	-0.732
HOLLYWOOD	ADA007-3	C	742 PLYMOUTH	12/2/2013	-0.882	-0.735
HOLLYWOOD	BEV120-3	B	305 S. CRESCENT	6/21/2013	-0.85	-0.726
HOLLYWOOD	HOL023-1	Q	8010 OCEANUS	11/6/2014	-0.882	-0.535
HOLLYWOOD	HOL038-8	E	2401 CANYON DR	6/5/2014	-0.854	-0.33
HOLLYWOOD	HOL047-4	D	ETS/EIJ N/E CARLOS & GOWER	11/3/2014	-0.854	-0.739
HOLLYWOOD	HOL048-9	C	1803 TAFT AVE	7/25/2013	-0.85	-0.751
HOLLYWOOD	HOL074-5	A	1042 N STANLEY	7/5/2013	-0.85	-0.76
HOLLYWOOD	HOL081-4	B	ETS RANGLEY ALMONT PKWY	6/11/2013	-0.85	-0.416
HOLLYWOOD	HOL083-7	F	7950 MELROSE AVE	6/14/2013	-0.85	-0.717
HOLLYWOOD	HOL101-1	E	301 DOHENY DR	9/24/2014	-0.85	-0.785
HOLLYWOOD	PAL009-1	A	350 S MCARTY DR	3/26/2013	-0.85	-0.77
JUANITA	ADA019-4	H	820 FEDORA ST	12/10/2014	-0.819	-0.765
JUANITA	HOL070-6	D	1322 L RON HUBBARD WY	9/16/2013	-0.85	-0.632
JUANITA	HOL070-7	A	4619 LEXINGTON AV	10/01/2014	-0.846	-0.796
JUANITA	SIL021-3	B	3676 AMESBURY RD	9/11/2014	-0.854	-0.625
JUANITA	SIL032-5	E	2829 3/4 ROWENA AV	11/5/2014	-0.85	-0.78
JUANITA	SIL042-1	A	1841 GRIFFITH PARK BL	11/18/2013	-0.81	-0.64
JUANITA	SIL044-1	A	2107 INDIA ST	11/15/2013	-0.554	-0.678
JUANITA	SIL055-1	G	ETS O/M 2646 QUEEN ST	11/15/2013	-0.888	-0.749
JUANITA	SIL063-6	B	2322 EWING ST	12/12/2014	-0.85	-0.731
JUANITA	SIL071-1	B	LOCKWOOD & VIRGIL	9/17/2013	-0.854	-0.605
JUANITA	SIL102-5	C	324 N LA FAYETTE PARK PL	5/9/2014	-0.854	-0.83
JUANITA	SIL103-3	C	1306 TEMPLE ST ETS	5/9/2013	-0.882	-0.755
JUANITA	SIL112-1	A	253 S CRANDELL ST	4/1/2014	-0.892	-0.758
JUANITA	SIL113-1	E	343 N. UNION AVE	1/2/2014	-0.85	-0.761
HOLLYWOOD	CP10		226 S La Fayette Park, Los Angeles	12/18/2013	-0.56	-0.269
HOLLYWOOD	CP10		458 H June, Los Angeles	2/9/2004	-0.9	-0.688
HOLLYWOOD	CP10		711 N Beverly Drive, Beverly Hills	6/23/2003	-1.15	-0.839
BELVEDERE	CP10		1219 Stone Street, Los Angeles	5/29/2013	-0.85	-0.33
LOS ANGELES	CP10		2441 Folsom, Los Angeles	12/12/2013	-0.69	-0.463
LOS ANGELES	CP10		2700 Malabar Street, Los Angeles	12/22/2003	-0.85	-0.755

Response and Corrective Action:

SoCalGas recognizes the need to reevaluate its CP policies and procedures. SoCalGas will be implementing changes to address the long-term Down Areas while developing a proactive approach to the CP areas. This will begin with establishing clear goals and expectations for prompt troubleshooting and reasonable remediation timelines. SoCalGas will continue to update SED as changes are implemented to improve the process. Provided below is an update to the CP Areas of concern and estimated completion dates.

Table 2. Field Visit Deficient Pipe-to-Soil Read Locations

District	Area	Point	Location	SCG Last Maintenance Date	Last Read (Volts)	SED Field Visit Read (Volts)	CP Area Status	Response	Corrective Action	Estimated Completion Date
BELVEDERE	C0381E-5	D	5009 ASTOR AVE	1/28/2014	-0.803	-0.842	UP	3/6/2014 CP Area within tolerance	<ul style="list-style-type: none"> No new anodes were installed within this CP Area. Rain was a factor in CP Area being within tolerance. 	
BELVEDERE	DOW035-4	A	7119 WATCHER	12/10/2013	-0.833	-0.754	UP	3/6/2014 CP Area within tolerance	<ul style="list-style-type: none"> While the package was down during the audit, the area was found to be within tolerance during the follow-up inspection. 	
HOLLYWOOD	ADA002-8	B	6534 HAYES DR	5/22/2013	-0.846	-0.732	DOWN	9/2/2015 Area OOT	<ul style="list-style-type: none"> 8/7/2015 Work order 540000025972 pending, traffic control plan approved by city, waiting now on permit from the City. OMO will be sent to Contractor to install anode once the permit has been received. 	December 31, 2015, SPS to take reads after the anodes have been installed, sothat the CP Area is within tolerance, and no other issues arise in CP Area.
HOLLYWOOD	ADA007-3	C	742 PLYMOUTH	12/2/2013	-0.882	-0.735	DOWN	9/2/2015 Area OOT	<ul style="list-style-type: none"> 8/20/2015 Anode was installed in CP Area by Contractor. SPS will records reads to determine whether the CP Area is within tolerance. 	September 30, 2015, SPS to take reads after the anodes have been installed, sothat the CP Area is within tolerance, and no other issues arise in CP Area.
HOLLYWOOD	BEV120-3	B	305 S. CRESCENT	6/21/2013	-0.85	-0.726	DOWN	9/2/2015 Area OOT	<ul style="list-style-type: none"> 8/13/2015 Work orders 540000049674 and 540000049676 pending completion based upon work completion by Contractor. 8/31/2015 OMOs sent to Contractor to install anodes within CP Area. 	September 30, 2015, SPS to take reads after the anodes have been installed, sothat the CP Area is within tolerance, and no other issues arise in CP Area.
HOLLYWOOD	HOL023-1	Q	8010 OCEANUS	11/6/2014	-0.882	-0.535	DOWN	9/2/2015 Area OOT	<ul style="list-style-type: none"> Found uninsulated MSA. 7/17/2015 issued 3081 to insulate MSA. Plan to follow up on status insulating MSA. Continue troubleshooting for above-ground short. 	September 30, 2015, Once insulator has been installed at MSA, SPS to troubleshoot area to determine whether this had mitigated the issue and identify whether the CP Area is within tolerance
HOLLYWOOD	HOL038-8	E	2401 CANYON DR	6/5/2014	-0.854	-0.33	DOWN	9/2/2015 Area OOT	<ul style="list-style-type: none"> Found indications that there may be a short in this CP Area. Further troubleshooting required to mitigate the short in the CP Areas. 	December 31, 2015, for SPS to continue to troubleshoot the area and determine was is causing this CP Area to be OOT.
HOLLYWOOD	HOL047-4	D	ETS/EIJ N/E CARLOS & GOWER	11/3/2014	-0.854	-0.739	UP	9/2/2015 Area within tolerance	<ul style="list-style-type: none"> Reviewing records to determine what action was performed to bring the area within tolerance. 	

District	Area	Point	Location	SCG Last Maintenance Date	Last Read (Volts)	SED Field Visit Read (Volts)	CP Area Status	Response	Corrective Action	Estimated Completion Date
HOLLYWOOD	HOL048-9	C	1803 TAFT AVE	7/25/2013	-0.85	-0.751	DOWN	9/2/2015 Area OOT	<ul style="list-style-type: none"> 7/02/2015 CS PCM'd from ECS#4, no shorts found. Area currently deficient. 7/27/2015 CS WR#54/49462 & 42465 Plan to apply for additional permits for anode installation. 	December 31, 2015, SPS to take reads after the anodes have been installed, so that the CP Area is within tolerance, and no other issues arise in CP Area.
HOLLYWOOD	HOL074-5	A	1042 N STANLEY	7/5/2013	-0.85	-0.76	UP	9/2/2015 Area within tolerance	<ul style="list-style-type: none"> 6/23/2015 Installed new shunt on ECS#4 due to broken shunt ears. Read all anode outputs and took random reads that indicated CP Area was within tolerance. 	
HOLLYWOOD	HOL081-4	B	ETS RANGLEY ALMONT PKWY	6/11/2013	-0.85	-0.416	DOWN	9/2/2015 Area OOT	<ul style="list-style-type: none"> 8/4/2015 Gained access to all MSAs at 8746-50 Rangley Ave, everything is properly insulated. Current still goes past 3-meter header in front but does not reach MSA in back. Plan to have service replaced to clear underground short. 	December 31, 2015, for service replacement to be completed then SPS to troubleshoot CP Area to determine whether CP Area is within tolerance.
HOLLYWOOD	HOL083-7	F	7950 MELROSE AVE	6/14/2013	-0.85	-0.717	DOWN	9/2/2015 Area OOT	<ul style="list-style-type: none"> 8/17/2015 MSA at 601 N. Hayworth Ave. insulated, area still down, no new shorts found. Delineated for a new ECS at 508 N. Hayworth Ave. Wrote OMO and entered work order 540000052166 into SAP. OMO sent to permits for anode installation. 	February 29, 2016, SPS to take reads after the anodes have been installed, so that the CP Area is within tolerance, and no other issues arise in CP Area.
HOLLYWOOD	HOL101-1	E	301 DOHENY DR	9/24/2014	-0.85	-0.785	DOWN	9/2/2015 Area OOT	<ul style="list-style-type: none"> Continue to troubleshoot CP Area to determine what is impacting the CP Area to be OOT. Identify whether there are any additional interference or shorts in the area. Determine whether more anodes need to be installed to bring this area within tolerance. 	December 31, 2015, SPS to continue determine what is causing this CP Area to be OOT
HOLLYWOOD	PAL009-1	A	350 S MCARTY DR	3/26/2013	-0.85	-0.77	DOWN	9/2/2015 Area OOT	<ul style="list-style-type: none"> 6/17/2015 Created Notification# 3* * 0025758 in CPD. 8/3/2015 Sent OMO to Contractor for multiple anode installation and currently on Contractors line-up to complete. 	December 31, 2015, SPS to take reads after the anodes have been installed, so that the CP Area is within tolerance, and no other issues arise in CP Area.

District	Area	Point	Location	SCG Last Maintenance Date	Last Read (Volts)	SED Field Visit Read (Volts)	CP Area Status	Response	Corrective Action	Estimated Completion Date
JUANITA	ADA019-4	H	820 FEDORA ST	12/10/2014	-0.819	-0.765	DOWN	9/2/2015 Area OOT	<ul style="list-style-type: none"> •8/5/2015 Order 54-40987 for installing anode was completed by Contractor. •8/20/2015 Order 54-40991 for installing anode was completed by Contractor. •SPS will verify whether the installation of anodes mitigated the problem which caused the CP Area to be OOT. 	December 31, 2015, SPS to take reads after the anodes have been installed, so that the CP Area is within tolerance, and no other issues arise in CP Area.
JUANITA	HOL070-6	D	1322 L RON HUBBARD WY	9/16/2013	-0.85	-0.632	DOWN	9/2/2015 Area OOT	<ul style="list-style-type: none"> •7/16/2015 OMOs sent to Contractor for multiple anode installation. •On Contractor lineup and is scheduled to be worked . •Pending OMOs, work is in H&M line up and is scheduled to be worked on this upcoming week (total of 9 sets of anodes). 	October 31, 2015, to get anodes installed and SPS to take reads after the anodes have been installed, so that the CP Area is within tolerance, and no other issues arise in the CP Area.
JUANITA	HOL070-7	A	4619 LEXINGTON AV	10/1/2014	-0.846	-0.796	UP	9/2/2015 Area within tolerance	<ul style="list-style-type: none"> •ALL ECSs had been paved over, so SPS could not take a pipe-to-soil read, which caused the Area to be OOT. •All ECSs were uncovered, and all reads were read within tolerance. 	
JUANITA	SIL021-3	B	3676 AMESBURY RD	9/11/2014	-0.854	-0.625	UP	9/2/2015 Area within tolerance	<ul style="list-style-type: none"> •This was initially identified as a CP Area OOT since this was a CGI. •CP Area was confirmed to be within tolerance on follow up visit. 	
JUANITA	SIL032-5	E	2829 3/4 ROWENA AV	11/5/2014	-0.85	-0.78	UP	9/2/2015 Area within tolerance	<ul style="list-style-type: none"> • CP Area within tolerance after anodes installed tied in on 12/16/2013. 	
JUANITA	SIL042-1	A	1841 GRIFFITH PARK BL	11/18/2013	-0.81	-0.64	DOWN	9/2/2015 Area OOT	<ul style="list-style-type: none"> 7/31/2015 Capital phased project still pending. •8/28/15 5 of 7 OMOs completed. Tied in anodes 8/24. Read all ECS & Bonds. • 5 WRs received permits 8/12, and Contractor had installed anodes (5 Orders Completed). •Waiting upon 2 remaining permits for WRs to install anodes. 	December 31, 2015, to get anodes installed and SPS to take reads after the anodes have been installed, so that the CP Area is within tolerance, and no other issues arise in the CP Area.
JUANITA	SIL044-1	A	2107 INDIA ST	11/15/2013	-0.554	-0.678	UP	9/2/2015 Area within tolerance	<ul style="list-style-type: none"> •06/09/2015 Installed new anodes in CP Area. •Found reads were much lower than when troubleshooting was performed and required for anodes submitted on 5/2/15. •Troubleshooting performed, found and repaired short. •Verified CP area is within tolerance after short cleared.. •Order 520001141582. 	

District	Area	Point	Location	SCG Last Maintenance Date	Last Read (Volts)	SED Field Visit Read (Volts)	CP Area Status	Response	Corrective Action	Estimated Completion Date
JUANITA	SIL055-1	G	ETS O/M 2646 QUEEN ST	11/15/2013	-0.888	-0.749	DOWN	9/2/2015 Area OOT	<ul style="list-style-type: none"> Plan to install 9 orders to install anodes. 8/31/2015 5 orders with permits were sent to Contractor to install anodes. 4 orders to install anodes are pending permits. 	December 31, 2015, to get anodes installed and SPS to take reads after the anodes have been installed, so that the CP Area is within tolerance, and no other issues arise in the CP Area.
JUANITA	SIL063-6	B	2322 EWING ST	12/12/2014	-0.85	-0.731	UP	9/2/2015 Area within tolerance	<ul style="list-style-type: none"> Reviewing records to determine what action was performed to bring the area within tolerance. 	
JUANITA	SIL071-1	B	LOCKWOOD & VIRGIL	9/17/2013	-0.854	-0.605	UP	9/2/2015 Area within tolerance	<ul style="list-style-type: none"> 7/16/2015 Installed and tied in anodes in CP Area, which brought this CP Area within tolerance. 	
JUANITA	SIL102-5	C	324 N LA FAYETTE PARK PL	5/9/2014	-0.854	-0.83	UP	9/2/2015 Area within tolerance	<ul style="list-style-type: none"> Reviewing records to determine what action was performed to bring the area within tolerance. 	
JUANITA	SIL103-3	C	1306 TEMPLE ST ETS	5/9/2013	-0.882	-0.755	DOWN	9/2/2015 Area OOT	<ul style="list-style-type: none"> 7/21/2015 Reviewed history in package. Initial ECS outputs indicate probable short. Will*PCM next visit.*** 8/07/2015 CS Read C&H. PCMed north end from bond, no shorts found. Will continue using PCM and troubleshoot CP Area to determine the issue within the area. 	January 31, 2016, dependent upon the length of time it takes to troubleshoot the area to identify the problem that is causing the area to be OOT.
JUANITA	SIL112-1	A	253 S CRANDELL ST	4/1/2014	-0.892	-0.758	DOWN	9/2/2015 Area OOT	<ul style="list-style-type: none"> Determined multiple anodes need to be installed to bring this area within tolerance. 9/2/2015 Order 540000052408 and 540000052759 sent to Permits. 	December 31, 2015, SPS to take reads after the anodes have been installed, so that the CP Area is within tolerance, and no other issues arise in CP Area.
JUANITA	SIL113-1	E	343 N. UNION AVE	1/2/2014	-0.85	-0.761	UP	9/2/2015 Area within tolerance	<ul style="list-style-type: none"> OMO#2109866 on Contractor lineup. Area within tolerance since anodes installed. 	
HOLLYWOOD	CP10		226 S La Fayette Park, Los Angeles	12/18/2013	-0.56	-0.269		Service Replaced	<ul style="list-style-type: none"> 6/30/2015 Order 5450000043048 service was replaced. 	
HOLLYWOOD	CP10		458 H June, Los Angeles	2/9/2004	-0.9	-0.688		9/2/2015 Area OOT	<ul style="list-style-type: none"> Continue to work on this CP10. 	

District	Area	Point	Location	SCG Last Maintenance Date	Last Read (Volts)	SED Field Visit Read (Volts)	CP Area Status	Response	Corrective Action	Estimated Completion Date
HOLLYWOOD	CP10		711 N Beverly Drive, Beverly Hills	6/23/2003	-1.15	-0.839		9/2/2015 Area OOT	•Continue to work on this CP10.	
BELVEDERE	CP10		1219 Stone Street, Los Angeles	5/29/2013	-0.85	-0.33		9/2/2015 Area OOT	•7/15/2015 Service was sent to Crew for replacement.	
LOS ANGELES	CP10		2441 Folsom, Los Angeles	12/12/2013	-0.69	-0.463		9/2/2015 Area OOT	•Continue to work on this CP10.	
LOS ANGELES	CP10		2700 Malabar Street, Los Angeles	12/22/2003	-0.85	-0.755		9/2/2015 Area OOT	•Continue to work on this CP10.	

Attachment A

Area	Initial Down Date	Last Read Date	Number of Days Out Of Tolerance	Protection Type
HOL087-1	01/23/2012	04/15/2015	1180	Magnesium
HOL072-4	04/21/2012	04/07/2015	1091	Magnesium
SL 33-12-1	11/01/2012	04/16/2015	897	Rectifier
SIL055-1	11/29/2012	03/27/2015	869	Magnesium
HOL087-4	11/30/2012	04/15/2015	868	Magnesium
ADA001-7	12/08/2012	03/30/2015	860	Magnesium
BEV110-1	01/24/2013	04/06/2015	813	Magnesium
BEV050-1	03/15/2013	04/08/2015	763	Rectifier
SL 33-07	06/03/2013	04/02/2015	683	Rectifier
HOL086-2	07/26/2013	04/09/2015	630	Magnesium
HOL102-9	08/01/2013	04/01/2015	624	Rectifier
HOL023-1	08/02/2013	04/08/2015	623	Rectifier
CEN028-2	08/21/2013	04/02/2015	604	Magnesium
BEV006-1	08/22/2013	04/14/2015	603	Magnesium
CEN023-B-2	11/07/2013	03/27/2015	526	Magnesium
HOL011-1	11/13/2013	04/01/2015	520	Magnesium
HOL087-3	11/18/2013	04/15/2015	515	Magnesium
ADA025-2	12/03/2013	04/08/2015	500	Magnesium
ADA027-5	12/03/2013	03/25/2015	500	Magnesium
BEV017-3	12/05/2013	04/02/2015	498	Magnesium
DOW035-3	12/10/2013	03/26/2015	493	Magnesium
PAL010-4	12/10/2013	04/07/2015	493	Magnesium
CEN058-4	12/11/2013	03/31/2015	492	Magnesium
SIL072-11	12/13/2013	03/31/2015	490	Magnesium

Attachment A

Area	District	Initial Down Date	Last Read Date	Number of Days Out Of Tolerance	Protection Type	CP Area Status	Response	Corrective Action	Estimated Completion Date
HOL087-1	HOLLYWOOD	1/23/2012	4/15/2015	1180	Magnesium	DOWN	9/3/2015 Area OOT	<ul style="list-style-type: none"> • Continue to troubleshoot CP Area to determine what is impacting the CP Area to be OOT. • Identify whether there are any additional interference or shorts in the area. • Determine whether more anodes need to be installed to bring this area within tolerance. 	January 31, 2016, dependent upon the length of time it takes to troubleshoot the area to identify the problem that is causing the area to be OOT.
HOL072-4	HOLLYWOOD	4/21/2012	4/7/2015	1091	Magnesium	DOWN	9/3/2015 Area OOT	<ul style="list-style-type: none"> • Verified CP Area is OOT. • Permit had been applied for on 4/15/2015, but no permit had been issued yet on account of an existing street moratorium. 	Moratorium ends October 2015, and main replacement work to begin after permit has been issued.
SL 33-12-1	HOLLYWOOD	11/1/2012	4/16/2015	897	Rectifier	DOWN	9/3/2015 Area OOT	<ul style="list-style-type: none"> • Continue to troubleshoot CP Area to determine what is impacting the CP Area to be OOT. • Identify whether there are any additional interference or shorts in the area. • Determine whether more anodes need to be installed to bring this area within tolerance. 	December 31, 2015, dependent upon the length of time it takes to troubleshoot the area to identify the problem that is causing the area to be OOT.
SIL055-1	JUANITA	11/29/2012	3/27/2015	869	Magnesium	DOWN	9/3/2015 Area OOT	<ul style="list-style-type: none"> • Plan to install 9 orders to install anodes. • 8/31/2015 5 orders with permits were sent to Contractor to install anodes. • 4 orders to install anodes are pending permits. 	December 31, 2015, to get anodes installed and SPS to take reads after the anodes have been installed, so that the CP Area is within tolerance, and no other issues arise in the CP Area.

Area	District	Initial Down Date	Last Read Date	Number of Days Out Of Tolerance	Protection Type	CP Area Status	Response	Corrective Action	Estimated Completion Date
HOL087-4	JUANITA	11/30/2012	4/15/2015	868	Magnesium	DOWN	9/3/2015 Area OOT	<ul style="list-style-type: none"> • Continue to troubleshoot CP Area to determine what is impacting the CP Area to be OOT. • Identify whether there are any additional interference or shorts in the area. • Determine whether more anodes need to be installed to bring this area within tolerance. 	December 31, 2015, dependent upon the length of time it takes to troubleshoot the area to identify the problem that is causing the area to be OOT.
ADA001-7	HOLLYWOOD	12/8/2012	3/30/2015	860	Magnesium	DOWN	9/3/2015 Area OOT	<ul style="list-style-type: none"> • 8/5/2015 Anodes installed in CP Area. • 8/14/2015: CP Area OOT and still polarizing. • SPS to follow up by recording pipe-to-soil reads to determine whether CP Area is within tolerance. 	November 30, 2015, SPS to take reads after the anodes have been installed, so that the CP Area is within tolerance, and no other issues arise in the CP Area.
BEV110-1	HOLLYWOOD	1/24/2013	4/6/2015	813	Magnesium	DOWN	9/3/2015 Area OOT	<ul style="list-style-type: none"> • 8/20/2015 Anodes installed by Contractor. • SPS to follow up by recording pipe-to-soil reads to determine whether CP Area is within tolerance. 	November 30, 2015, to get anodes installed and SPS to take reads after the anodes have been installed, so that the CP Area is within tolerance, and no other issues arise in the CP Area.
BEV050-1	HOLLYWOOD	3/15/2013	4/8/2015	763	Rectifier	DOWN	9/3/2015 Area OOT	<ul style="list-style-type: none"> • 8/13/2015 Plan to install anode bed replacement and rectifier. 	September 30, 2016, to plan and install anode beds and rectifier
SL 33-07	HOLLYWOOD	6/3/2013	4/2/2015	683	Rectifier	DOWN	9/3/2015 Area OOT	<ul style="list-style-type: none"> • 8/13/2015 3 new ECS locations plan to install anodes. 	December 31, 2015, to get anodes installed and SPS to take reads after the anodes have been installed, so that the CP Area is within tolerance, and no other issues arise in the CP Area.

Area	District	Initial Down Date	Last Read Date	Number of Days Out Of Tolerance	Protection Type	CP Area Status	Response	Corrective Action	Estimated Completion Date
HOL086-2	HOLLYWOOD	7/26/2013	4/9/2015	630	Magnesium	DOWN	9/3/2015 Area OOT	<ul style="list-style-type: none"> • Continue to troubleshoot CP Area to determine what is impacting the CP Area to be OOT. • Identify whether there are any additional interference or shorts in the area. • Determine whether more anodes need to be installed to bring this area within tolerance. 	December 31, 2015, dependent upon the length of time it takes to troubleshoot the area to identify the problem that is causing the area to be OOT.
HOL102-9	HOLLYWOOD	8/1/2013	4/1/2015	624	Rectifier	DOWN	9/3/2015 Area OOT	<ul style="list-style-type: none"> • 7/30/2015 Area OOT. • MSA at 6310 Orange St. will be insulated 	October 31, 2015, to install an insulator at MSA 6310 Orange Street.
HOL023-1	HOLLYWOOD	8/2/2013	4/8/2015	623	Rectifier	DOWN	9/3/2015 Area OOT	<ul style="list-style-type: none"> • Found uninsulated MSA. • 7/17/15 issued 3081 to insulate MSA. • Plan to follow up on status insulating MSA. • Continue troubleshooting for above-ground short. 	September 30, 2015, Once insulator has been installed at MSA, SPS to troubleshoot area to determine whether this had mitigated the issue and identify whether the CP Area is within tolerance.
CEN028-2	BELVEDERE	8/21/2013	4/2/2015	604	Magnesium	UP	9/3/2015 CP Area within tolerance	<ul style="list-style-type: none"> • CP Area within tolerance after clearing above ground short at 2547 Malabar Street. 	
BEV006-1	HOLLYWOOD	8/22/2013	4/14/2015	603	Magnesium	DOWN	9/3/2015 Area OOT	<ul style="list-style-type: none"> • 7/16/2015 Order #540000039650 pending anode installation. • Waiting on permits. 	November 30, 2015, to get anodes installed and SPS to take reads after the anodes have been installed, so that the CP Area is within tolerance, and no other issues arise in the CP Area.

Area	District	Initial Down Date	Last Read Date	Number of Days Out Of Tolerance	Protection Type	CP Area Status	Response	Corrective Action	Estimated Completion Date
CEN023-B-2		11/7/2013	3/27/2015	526	Magnesium	UP	9/3/2015 Area within tolerance	<ul style="list-style-type: none"> •WR #54-21956 - AB1937 has been cleared and submitted to Contractor on 3/26/15. •4/22/15 Verified all read points and random and ECS outputs. •CP Area is within tolerance. 	
HOL011-1	HOLLYWOOD	11/13/2013	4/1/2015	520	Magnesium	DOWN	9/3/2015 Area OOT	<ul style="list-style-type: none"> • Continue to troubleshoot CP Area to determine what is impacting the CP Area to be OOT. • Identify whether there are any additional interference or shorts in the area. •Determine whether more anodes need to be installed to bring this area within tolerance. 	December 31, 2015, dependent upon the length of time it takes to troubleshoot the area to identify the problem that is causing the area to be OOT.
HOL087-3	HOLLYWOOD	11/18/2013	4/15/2015	515	Magnesium	DOWN	9/3/2015 Area OOT	<ul style="list-style-type: none"> •Reviewing package to determine whether CP Areas can be combined for possible rectifier installation. 	September 30, 2016, to plan combining CP Areas and install a rectifier.
ADA025-2	HOLLYWOOD	12/3/2013	4/8/2015	500	Magnesium	DOWN	9/3/2015 Area OOT	<ul style="list-style-type: none"> •Plan to install anodes within CP Area. 	November 30, 2015, to get anodes installed and SPS to take reads after the anodes have been installed, so that the CP Area is within tolerance, and no other issues arise in the CP Area.
ADA027-5	HOLLYWOOD	12/3/2013	3/25/2015	500	Magnesium	DOWN	9/3/2015 Area OOT	<ul style="list-style-type: none"> •8/13/2015 CP Area OOT. •Troubleshoot Area and received indications of an underground short. •Additional troubleshooting needed. •Will return to troubleshoot further. 	December 31, 2015, dependent upon the length of time it takes to troubleshoot the area to identify the problem that is causing the area to be OOT.

Area	District	Initial Down Date	Last Read Date	Number of Days Out Of Tolerance	Protection Type	CP Area Status	Response	Corrective Action	Estimated Completion Date
BEV017-3	HOLLYWOOD	12/5/2013	4/2/2015	498	Magnesium	DOWN	9/3/2015 Area OOT	•8/12/15 Plan for service replacement at 2710 Ellison Dr. to clear short pending customer approval and City permits.	December 31, 2015, dependent upon the length of time it takes to troubleshoot the area to identify the problem that is causing the area to be OOT.
DOW035-3	BELVEDERE	12/10/2013	3/26/2015	493	Magnesium	DOWN	9/3/2015 Area OOT	•WO#54-31513 for 3507 Travis Ave. was sent to Contractor on 7/13/15. •SAP #54-31513 has been scheduled and is pending •#54-31512 had been completed on 5/6/15.	November 30, 2015, to get anodes installed and SPS to take reads after the anodes have been installed, so that the CP Area is within tolerance, and no other issues arise in the CP Area.
PAL010-4	HOLLYWOOD	12/10/2013	4/7/2015	493	Magnesium	DOWN	9/3/2015 Area OOT	•8/12/15 Found UG short with gas and water mains in alley E/Beverly Dr. •Plan to create OMO to have short cleared with micarta and for 2-32# anodes.	January 31, 2016, to get anodes installed and SPS to take reads after the anodes have been installed, so that the CP Area is within tolerance, and no other issues arise in the CP Area.
CEN058-4	BELVEDERE	12/11/2013	3/31/2015	492	Magnesium	UP	9/3/2015 Area within tolerance	•4/24/2015: Area within tolerance after new wire/anodes installed.	
SIL072-11	JUANITA	12/13/2013	3/31/2015	490	Magnesium	UP	3/31/2015 Area within tolerance	•3/31/2015: Area within tolerance after repairs on MSA short, replacement of 2 shunts.	