

Inspect App Survey Question Updates for Combo Pole Urgent Issues and 360 MVP

APPROVED: MAY 20, 2022

EFFECTIVE: JULY 2022

DATA CAPTURE QUESTIONS FOR INSPECTION –

Current List of Inspection Survey Questions

Transmission Level	5
Structure Verification	6
Primary Level (Disabled by SV003 [E])	8
POLES - WOOD (1.002)	8
OVERHEAD TRANSFORMERS (0.014C, 3.001, 3.002, 3.003, 3.004, 3.005).....	8
OVERHEAD CAPACITORS (0.014D, 4.001, 4.002, 4.003, 4.004).....	10
CROSSARMS - WOOD (0.014H, 0.014J, 0.014K, 2.003A, 2.003C, 2.004A, 2.005B, 2.006A, 2.007A, 2.003B, 2.006B, 2.008)	11
CROSSARMS - COMPOSITE (0.014H, 0.014J, 0.014K, 2.003C, 7.002A, 7.002B, 7.004A, 7.006).....	12
CROSSARMS – STEEL (0.014H, 0.014J, 0.014K, 2.003A, 2.003D, 2.005B, 2.007A).....	13
INSULATORS (0.014A, 6.001, 6.002, 6.003, 6.004, 6.005, 6.006)	14
CONDUCTORS - PRIMARY (0.014B, 0.016, 0.026A, 0.026B, 0.026C, 8.009, 8.006, 8.007A, 8.007B, 8.011, 8.012, 8.013, 8.014, 8.015, 8.005, 8.008, 8.001, 8.002A, 8.002B, 8.016, 8.010, 8.017, 8.018, 8.019, 8.020).....	15
RECLOSERS, PE GEAR, REGULATORS, SWITCHES (0.021A, 10.007, 10.008).....	19
HARDWARE/FRAMING (11.004).....	20
SPAN GUYS (0.014E, 12.002, 12.004)	20
DOWN GUYS (13.001B).....	21
RISERS/TERMINATIONS (14.001, 14.002, 14.004).....	21
LIGHTNING ARRESTERS (0.014G, 16.001, 0.021C).....	21
FUSES (0.021B, 11.002)	22
Secondary Level	23
POLES - WOOD (1.002)	23
STREETLIGHT ONLY POLES - WOOD (1.002).....	23
CROSSARMS - WOOD (0.014L, 0.014M, 0.014N, 2.003A, 2.003C, 2.004A, 2.005B, 2.006A, 2.003B, 2.006B, 2.010).....	24
CROSSARMS - COMPOSITE (0.014L, 0.014M, 0.014N, 2.003C, 7.002A, 7.002B, 7.004A, 7.007).....	25
CROSSARMS - STEEL (0.014L, 0.014M, 0.014N, 2.003A, 2.005B, 2.007A)	26
INSULATORS (0.014O, 6.001, 6.003, 6.006)	27
CONDUCTORS - SECONDARY (0.014I, 0.021E, 9.006, 9.005, 9.007A, 9.007B, 9.008, 9.009, 9.010, 9.001, 9.003, 9.004, 9.011, 9.012)	28
RECLOSERS, PE GEAR, REGULATORS, AND SWITCHES (10.002, 10.004, 10.006, 10.007)	29
HARDWARE/FRAMING (11.004).....	30
STREETLIGHT (11.005).....	30
SPAN GUYS (0.014E, 12.002, 12.004)	30
DOWN GUYS (13.001B).....	31

Current List of Inspection Survey Questions

RISERS/TERMINATIONS (14.003).....	31
SERVICE DROPS (15.001, 15.004)	31
Communication Level (Disabled by SV003 [E]).....	32
POLES - WOOD (0.020B, 1.002).....	32
POLES – COMPOSITE (0.020B,).....	32
Buddy Pole (0.028)	32
Communication Lines and Equipment (0.029)	33
RECLOSERS, PE GEAR, REGULATORS, AND SWITCHES (10.006)	33
Public Level	34
POLES - WOOD (0.005A, 0.005B, 0.005C, 0.005D, 0.008, 0.009, 0.020B, 0.022, 0.024, 0.027, 1.002, 1.004, 1.007, 1.009)	34
POLES - COMPOSITE (0.005A, 0.005B, 0.005C, 0.005D, 0.008, 0.009, 0.020B, 0.022, 0.024, 0.027, 5.001, 5.003, 5.006)	36
POLES - STEEL (0.005A, 0.005B, 0.005C, 0.005D, 0.022, 0.027)	38
POLES – TREE (0.005A, 0.005B, 0.005C, 0.005D, 0.022, 0.027).....	39
STREETLIGHT ONLY POLES - WOOD (0.005A, 0.005B, 0.005C, 0.005D, 0.008, 0.009, 0.022, 0.024, 0.027, 1.002, 1.004, 1.007, 1.008, 1.009)	40
STREETLIGHT ONLY POLES - STEEL (0.005A, 0.005B, 0.005C, 0.005D, 0.022, 0.027, 17.001, 17.002, 17.003, 17.004).....	42
STREETLIGHT ONLY POLES - CONCRETE (0.005A, 0.005B, 0.005C, 0.005D, 0.022, 0.027, 18.001, 18.002, 18.003).....	43
DOWN GUYS (0.014F, 13.001A, 13.002, 13.004, 13.005, 13.006, 13.007, 13.008, 13.009, 13.010, 13.012, 13.013, 13.014).....	45
RISERS/TERMINATIONS (14.003).....	47

Approvals

Department, Title	Name	Date of Approval
[REDACTED]	[REDACTED]	5/11/2022
[REDACTED]	[REDACTED]	5/20/2022
[REDACTED]	[REDACTED]	5/18/2022
[REDACTED]	[REDACTED]	5/18/2022
[REDACTED]	[REDACTED]	3/3/2022
[REDACTED]	[REDACTED]	5/20/2022

Transmission Level

(Enabled by SV003 [B])

MAT_TRAN

Default material selection to EZ Pole equipment record from SAP

T001 Were any conditions identified at the Transmission level that require immediate attention (e.g. Priority 1 notification)? (Enabled by SV003 [B])

- A. Yes, issues requiring immediate attention were identified (Enables T002, T003)
- B. No, issues requiring immediate attention were not identified

T002 What type of components or condition(s) at the transmission level require immediate attention? Select all that apply. (Enabled by T001 [A])

- A. Vegetation (arcing, contact, signs of contact, or potential to contact energized conductors or equipment)
- B. Crossarm (broken, damaged, burned or deteriorated)
- C. Conductor (damage, inadequate clearances, signs of burn, tracking or arcing)
- D. Insulator (loose, broken, damaged or missing)
- E. Guy (damage, inadequate clearances, signs of burn, tracking or arcing)
- F. Leaking oil from potheads (66kV or 115kV)
- G. Excessive corrosion (loss of material or holes in equipment)
- H. Other

T003 Confirm Transmission Operations was notified of conditions requiring immediate attention? (Enabled by T001 [A])

- A. Yes, Transmission Operations was notified of issues requiring immediate attention

Structure Verification

SV001 This survey is being completed by:

- A. An SCE employee
- B. Contractor – NO Veg (Disables 0.016, 8.002A, 9.003, 10.006, 10.007[E], 0.022, 0.027 [A], 15.004 [A])
- C. Contractor - with Veg

SV002 Are you able to complete the data capture survey?

- A. Yes (Disables SV002A)
- B. No (Enables SV002A, Disables SV003, SV004, SV005, SV006, SV007)

SV002A Indicate why the survey is unable to be completed:

- A. Access/Obstruction Issue
- B. Structure not in field (Note: if user picks survey stops)

SV003 What is the structure type?

- A. Distribution Pole – ED
- B. Transmission / Distribution Pole – EZ
- C. Hydro Pole – ED
- D. Communication Only Pole (Note: if user picks survey stops)
- E. Streetlight Only Pole – EDSL (Disables SV004 [A,B,C,D]; SV005 [A,C]; MAT_PRI [A-R]; MAT_SEC [A,B,C,D,F,I,N,O]; MAT_COMM [A,B,C,D,E]; 0.014M; 0.014N; 1.002; 2.008; 0.014O; 6.001; 0.014I; 9.006; 9.007A; 9.007B; 11.004) (Enables SV004 [E,F,G]; 11.005)
- F. Transmission Pole – ET (Note: if user picks survey stops)
- G. Trans-Telecom Pole – ER (Note: if user picks survey stops)
- H. Guy Stub Pole (Disables MAT_PRI [C,D,E,F,G,H,L,O,P,Q,R]; MAT_SEC [E,F,G,H,I,M,N,O,S]; MAT_COMM [E]; MAT_PUB [F])
- I. Push Pole (Disables MAT_PRI [C,D,E,F,G,H,L,O,P,Q,R]; MAT_SEC [E,F,G,H,I,M,N,O,S]; MAT_COMM [E]; MAT_PUB [F])
- J. None of the above (Note: if user picks survey stops)

SV004 What is the structure material?

- A. Poles - Wood (Disabled by SV003 [E])
- B. Poles - Composite (Disabled by SV003 [E])
- C. Poles - Steel (Enables SV010) (Disabled by SV003 [E])
- D. Poles - Tree (Disabled by SV003 [E])
- E. Streetlight Only Pole – Concrete (Enabled by SV003 [E])
- F. Streetlight Only Pole – Wood (Enabled by SV003 [E])
- G. Streetlight Only Pole – Steel (Enabled by SV003 [E])
- H. None of the above (Note: if user picks survey stops)

SV005 What levels exist on this structure?

NOTE: For guy stub and push poles indicate the level in which structure or attachments are connected to the associated structure

Current List of Inspection Survey Questions

- A. Primary level (Enables MAT_PRI) (Disabled by SV003 [E])
- B. Secondary level (Enables MAT_SEC)
- C. Communication level (Enables MAT_COMM) (Disabled by SV003 [E])
- D. Public level (Enables MAT_PUB)

SV006 Is this structure located in a High Fire Area?

- A. Yes (Enables 8.002A [D], 0.021A, 0.021B, 0.021C, 0.021D, 0.021E)
- B. No (Enables 8.002A [E])

SV007 Is the structure one of these multi-pole configurations?

- A. H-Frame (Enables SV008, SV009)
- B. Platform Rack (Enables SV008, SV009)
- C. No

SV008 How many poles does the structure contain? (Enabled by SV007 [A,B])

- A. 2
- B. 3
- C. 4

SV009 Record the structure numbers for the other poles that make up the structure (Enabled by SV007 [A,B])

- A. Structure 1
- B. Structure 2
- C. Structure 3

SV010 What type of Steel pole is the structure? (Enabled by SV004 [C])

- A. Light Weight Steel
- B. Tubular Steel Pole

FOR REFERENCE ONLY

Take the following photos, vertically and no zoom

- ✓ Take a photo of the entire structure
- ✓ Take a photo of the TOP HALF of the structure
- ✓ Take a photo of the BOTTOM HALF of the structure
- ✓ Take a photo of the structure number

Primary Level (Disabled by SV003 [E])

MAT_PRI Select all the equipment you see at the primary level:

- A. Poles - Wood (Disabled by SV003 [E])
- B. Poles – Composite (Disabled by SV003 [E])
- C. Overhead Transformers (Enabled by SAP)
- D. Overhead Capacitors (Enabled by SAP)
- E. Crossarms – Wood (Disabled by SV003 [E,H,I])
- F. Insulators (Disabled by SV003 [E,H,I])
- G. Conductors – Primary (Disabled by SV003 [E,H,I])
- H. Reclosers, PE Gear, Regulators, and Switches (Disabled by SV003 [E,H,I])
- I. Hardware/Framing (Disabled by SV003 [E])
- J. Span Guys (Disabled by SV003 [E])
- K. Down Guys (Disabled by SV003 [E])
- L. Risers/Terminations (Disabled by SV003 [E,H,I])
- M. Poles – Tree (Disabled by SV003 [E])
- N. Poles – Steel (Disabled by SV003 [E])
- O. Crossarms – Composite (Disabled by SV003 [E,H,I])
- P. Crossarms - Steel (Disabled by SV003 [E,H,I])
- Q. Lightning Arresters (Disabled by SV003 [E,H,I])
- R. Fuses (Disabled by SV003 [E,H,I])

POLES - WOOD (1.002)

1.002 (AERIAL/GROUND) Indicate if any of the following types of structural failure are observed at this level. Select all that apply or select “No abnormal conditions”. (Disabled by SV003 [E])

- A. Hole approximately > 2 inches near through bolt (Notification Required)
- B. Three or more holes approximately >2 inch diameter, within approximately 18 inches vertical of a through bolt (Notification Required)
- C. Exterior damage approximately >2 inch depth and approximately > 1/4 pole circumference (Notification Required)
- D. Exterior damage approximately 1–2 inch depth and approximately > 1/4 pole circumference (Notification Required)
- E. No abnormal conditions

OVERHEAD TRANSFORMERS (0.014C, 3.001, 3.002, 3.003, 3.004, 3.005)

0.014C How many overhead transformers are installed on this structure? (Disabled by SV003 [E,H,I])

- A. Answer choices will be 1, 2, 3

Current List of Inspection Survey Questions

3.005 (AERIAL/GROUND) Are any of the following transformer conditions observed? Select all that apply.

(Disabled by SV003 [E,H,I])

- A. Oil leakage (Enables 3.001)
- B. Damage (damaged, missing or loose hardware, bushings or wire) or Operational issues (blown fuse, nests, swelling, burn marks, bare leads, humming, fault indicator) (Enables 3.002)
- C. Rust/Corrosion (Enables 3.003)
- D. No abnormal conditions

3.001 (AERIAL/GROUND) Indicate if any of the following signs of transformer oil leakage or weepage are observed. Select all that apply. (Enabled by 3.005 [A])

- A. Excessive oil leakage, oil reaches ground or public access or environmentally sensitive area (Notification Required)
- B. Minor leakage, oil remains on equipment, does not reach ground or public access or environmentally sensitive area (Notification Required)
- C. Oil weepage indicated by oily film on tank surface

3.002 (AERIAL/GROUND) Indicate if transformer has any of the following conditions at the time of inspection. Select all that apply. (Enabled by 3.005 [B])

- A. Brackets damaged (Notification Required)
- B. Scott brackets fiberglass pads present (Notification Required)
- C. Visibly loose hardware (Notification Required)
- D. Secondary leads in contact with the case (Notification Required)
- E. Blown fuse (Notification Required)
- F. Improperly connected (loose) wire (Notification Required)
- G. In contact with animal nest (Notification Required)
- H. One fuse is open/down (Notification Required)
- I. Bushings damaged (Notification Required)
- J. Signs of burn (Notification Required)
- K. Signs of swelling (Notification Required)
- L. Red flag fault indicator is visible
- M. Secondary leads are bare
- N. Transformers are humming

3.003 Is the transformer showing any of the following signs of rust or corrosion? (Enabled by 3.005 [C])

- A. Rust or corrosion compromising equipment integrity (Notification Required)
- B. Light surface rust or corrosion

3.004 (AERIAL/GROUND) Are animal guards installed, intact, and adequately covering the transformer? (Disabled by SV003 [E,H,I])

- A. Yes
- B. No

Current List of Inspection Survey Questions

OVERHEAD CAPACITORS (0.014D, 4.001, 4.002, 4.003, 4.004)

0.014D How many overhead capacitor banks are installed on this structure? (Disabled by SV003 [E,H,I])
*NOTE: Only count entire **capacitor bank** and **NOT** individual capacitor units.*

A. Answer choices will be 1, 2, 3

4.004 **(AERIAL/GROUND)** Are any of the following capacitor conditions observed? Select all that apply.
(Disabled by SV003 [E,H,I])

- A. Damage (damaged, missing or loose unit, controller, switch, PT transformer, bushing, hardware or wire) or Operational Issues (switch malfunction, nests, swelling, burn marks, bare leads, humming) (Enables 4.001)
- B. Oil leakage (Enables 4.002)
- C. Single phase condition (Enables 4.003)
- D. No abnormal conditions

4.001 **(AERIAL/GROUND)** Indicate if any capacitor bank, or associated equipment, shows any of the following conditions. Select all that apply. (Enabled by 4.004 [A])

- A. Ruptured or severely bulged capacitor units (Notification Required)
- B. Capacitor bank damaged, not functioning (Notification Required)
- C. Capacitor switches not secure, damaged, not functioning (Notification Required)
- D. Capacitor controller damaged (Notification Required)
- E. One fuse is open/down (Notification Required)
- F. Bushings damaged (Notification Required)
- G. Blown fuse (Notification Required)
- H. Signs of burn (Notification Required)
- I. Signs of swelling (Notification Required)
- J. Improperly Connected (loose) Wire (Notification Required)
- K. PT Transformer damaged or severely rusted (Notification Required)
- L. In contact with animal nest (Notification Required)
- M. Capacitor controller missing or enclosure damaged (exposed meter socket) (Notification Required)
- N. Capacitor is humming

4.002 Indicate if any of the following types of capacitor bank oil leakage or weepage are observed. Select all that apply (Enabled by 4.004 [B])

- A. Capacitor units leaking, oil reaches ground or public access or environmentally sensitive area (Notification Required)
- B. Minor leakage, oil remains on equipment, does not reach ground or public access or environmentally sensitive area (Notification Required)
- C. Oil weepage indicated by oily film on capacitor unit surface (not capacitor switches)

4.003 Has the capacitor equipment (i.e. fuses) broken down to a single phase condition with bank still energized? (Enabled by 4.004 [C])

- A. Yes (Notification Required)
- B. No

Current List of Inspection Survey Questions

CROSSARMS - WOOD (0.014H, 0.014J, 0.014K, 2.003A, 2.003C, 2.004A, 2.005B, 2.006A, 2.007A, 2.003B, 2.006B, 2.008)

0.014H How many total single crossarms of this material type are at this level? (Disabled by SV003 [E,H,I])

NOTE: Count all crossarms of this material type at this level – including fuse-holder arms, transformer hanger arms, etc.

NOTE: A single crossarm is when only one crossarm piece exists at a specific elevation on the pole.

A. Answer choices will be 0-20

0.014J How many total sets of double crossarms of this material type are at this level? (Disabled by SV003 [E,H,I])

NOTE: Count all crossarms of this material type at this level – including fuse-holder arms, transformer hanger arms, etc.

NOTE: A double crossarm is when two crossarm pieces exist in a parallel orientation at the same elevation on the pole.

A. Answer choices will be 0-20

0.014K How many total sets of triple crossarms of this material type are at this level? (Disabled by SV003 [E,H,I])

NOTE: Count all crossarms of this material type at this level – including fuse-holder arms, transformer hanger arms, etc.

NOTE: A triple crossarm is when three crossarms pieces exist in a parallel orientation at the same elevation on the pole.

A. Answer choices will be 0-20

2.008 **(AERIAL/GROUND)** Are any of the following primary wood crossarm conditions observed? Select all that apply. (Disabled by SV003 [E,H,I])

A. Bowing/twisting (Enables 2.003A, 2.003B)

B. Deterioration (Enables 2.003C)

C. Canting (Enables 2.004A)

D. Tracking (Enables 2.005B)

E. Brace Damage (Enables 2.006A, 2.006B)

F. Damaged bonding wire under crossarm for 12kV and higher (Notification Required only if crossarm does not require replacement)

G. Missing bonding wire under crossarm for 12kV and higher (Notification Required only if crossarm does not require replacement)

H. No abnormal conditions

2.003A How many crossarms of this material type at this level are bowed/twisted and need to be replaced? (Enabled by 2.008 [A])

A. Answer choices will be 1-20 (Notification Required)

2.003B Are any crossarms of this material type showing any of the following signs of bowing/twisting at this level and need to be replaced? Select all that apply (Enabled by 2.008 [A])

A. Crossarm bowed approximately >5 inches and splintering (Notification Required)

Current List of Inspection Survey Questions

- B. Crossarm bowed approximately >5 inches without splintering (Notification Required)
- C. Significant damage at a bolt (Notification Required)
- 2.003C How many crossarms of this material type at this level are deteriorated and need to be replaced?
(Enabled by 2.008 [B])
 - A. Answer choices will be 1-20 (Notification Required)
- 2.004A How many crossarms of this material type at this level are canted and need to be replaced?
(Enabled by 2.008 [C])
 - A. Answer choices will be 1-20 (Notification Required)
- 2.005B How many crossarms of this material type at this level are tracking and need to be replaced?
(Enabled by 2.008 [D])
 - A. Answer choices will be 1-20 (Notification Required)
- 2.006A How many crossarms of this material type at this level have damaged braces and need to be replaced? (Enabled by 2.008 [E])
 - A. Answer choices will be 1-20 (Notification Required)
- 2.006B Do any crossarms of this material type have any of the following brace damage at this level and need to be replaced? (Enabled by 2.008 [E])
Select all that apply.
 - A. Braces broken (Notification Required)
 - B. Braces loose (Notification Required)
 - C. Braces missing (Notification Required)

CROSSARMS - COMPOSITE (0.014H, 0.014J, 0.014K, 2.003C, 7.002A, 7.002B, 7.004A, 7.006)

- 0.014H How many total single crossarms of this material type are at this level? (Disabled by SV003 [E,H,I])
NOTE: Count all crossarms of this material type at this level – including fuse-holder arms, transformer hanger arms, etc.
NOTE: A single crossarm is when only one crossarms piece exists at a specific elevation on the pole.
 - A. Answer choices will be 0-20
- 0.014J How many total sets of double crossarms of this material type are at this level? (Disabled by SV003 [E,H,I])
NOTE: Count all crossarms of this material type at this level – including fuse-holder arms, transformer hanger arms, etc.
NOTE: A double crossarm is when two crossarm pieces exist in a parallel orientation at the same elevation on the pole.
 - A. Answer choices will be 0-20
- 0.014K How many total sets of triple crossarms of this material type are at this level? (Disabled by SV003 [E,H,I])
NOTE: Count all crossarms of this material type at this level – including fuse-holder arms, transformer hanger arms, etc.

Current List of Inspection Survey Questions

NOTE: A triple crossarm is when three crossarms pieces exist in a parallel orientation at the same elevation on the pole.

A. Answer choices will be 0-20

7.006 (AERIAL/GROUND) Are any of the following primary composite crossarm conditions observed?

Select all that apply. (Disabled by SV003 [E,H,I])

- A. Deterioration (Enables 2.003C)
- B. Bending (Enables 7.002A, 7.002B)
- C. Damage (Enables 7.004A)
- D. Damaged bonding wire under crossarm for 12kV and higher (Notification Required only if crossarm does not require replacement)
- E. Missing bonding wire under crossarm for 12kV and higher (Notification Required only if crossarm does not require replacement)
- F. No abnormal conditions

2.003C How many crossarms of this material type at this level are deteriorated and need to be replaced?

Enabled by 7.006 [A]

A. Answer choices will be 1-20 (Notification Required)

7.002A How many crossarms of this material type at this level show signs of bending and need to be replaced? (Enabled by 7.006 [B])

A. Answer choices will be 1-20 (Notification Required)

7.002B Do any crossarms of this material type have any of the following conditions of bending and need to be replaced? Select all that apply (Enabled by 7.006 [B])

- A. Visual fracturing (Notification Required)
- B. Significant visual buckling (Notification Required)
- C. Significantly unbalanced due to tension (Notification Required)
- D. Bent mounting bracket and associated hardware (Notification Required)

7.004A How many crossarms of this material type at this level are physically damaged and need to be replaced? (Enabled by 7.006 [C])

A. Answer choices will be 1-20 (Notification Required)

CROSSARMS – STEEL (0.014H, 0.014J, 0.014K, 2.003A, 2.003D, 2.005B, 2.007A)

0.014H How many total single crossarms of this material type are at this level? (Disabled by SV003 [E,H,I])

NOTE: Count all crossarms of this material type at this level – including fuse-holder arms, transformer hanger arms, etc.

NOTE: A single crossarm is when only one crossarms piece exists at a specific elevation on the pole.

A. Answer choices will be 0-20

0.014J How many total sets of double crossarms of this material type are at this level? (Disabled by SV003 [E,H,I])

Current List of Inspection Survey Questions

NOTE: Count all crossarms of this material type at this level – including fuse-holder arms, transformer hanger arms, etc.

NOTE: A double crossarm is when two crossarm pieces exist in a parallel orientation at the same elevation on the pole.

B. Answer choices will be 0-20

0.014K How many total sets of triple crossarms of this material type are at this level? (Disabled by SV003 [E,H,I])

NOTE: Count all crossarms of this material type at this level – including fuse-holder arms, transformer hanger arms, etc.

NOTE: A triple crossarm is when three crossarms pieces exist in a parallel orientation at the same elevation on the pole.

A. Answer choices will be 0-20

2.009 (AERIAL/GROUND) Are any of the following steel crossarm conditions observed? Select all that apply. (Disabled by SV003 [E,H,I])

A. Bowing/twisting (Enables 2.003A)

B. Rusting/Corrosion (Enables 2.003D)

C. Tracking (Enables 2.005B)

D. No abnormal conditions

2.003A How many crossarms of this material type at this level are bowed/twisted and need to be replaced? (Enabled by 2.009 [A])

A. Answer choices will be 1-20 (Notification Required)

2.003D How many crossarms of this material type at this level are excessively rusted or corroded and need to be replaced? (Enabled by 2.009 [B])

A. Answer choices will be 1-20 (Notification Required)

2.005B How many crossarms of this material type at this level are tracking and need to be replaced? (Enabled by 2.009 [C])

A. Answer choices will be 1-20 (Notification Required)

INSULATORS (0.014A, 6.001, 6.002, 6.003, 6.004, 6.005, 6.006)

0.014A How many insulators are installed at this level? (Disabled by SV003 [E,H,I])

NOTE: Dead-end insulators count as 1; Count primary polymer insulators if applicable, count 3 phase bank delta insulators and/or all primary tap supporting insulators.

A. Answer choices will be 1-30

6.001 What types of insulators are installed at this level? Select all that apply. (Disabled by SV003 [E,H,I])

A. Porcelain

B. Polymer

C. Hendrix Universal

D. Hendrix (vice-top)

E. Other

Current List of Inspection Survey Questions

- 6.006 **(AERIAL/GROUND)** Are any of the following insulator conditions observed? Select all that apply. (Disabled by SV003 [E,H,I])
- A. Missing parts (Notification Required)
 - B. Insulator damage (broken, cracked, loose, floating, squatting, chipped), Tie wire damaged, missing, loose), Upward Strain (Enables 6.003)
 - C. Top/Side tie insulator touching crossarm (Notification Required)
 - D. No abnormal conditions
- 6.003 **(AERIAL/GROUND)** Indicate if any of the following types of damage are observed on any portion of any insulator, or its associated hardware, at this level. Select all that apply. (Enabled by 6.006 [B])
- A. Insulator broken (Notification Required)
 - B. Insulator cracked, damaged or loose (Notification Required)
 - C. Insulator floating (Notification Required)
 - D. Insulator squatting (Notification Required)
 - E. Tie wire broken/missing/damaged or loose (Notification Required)
 - F. Upward strain (lift) on pin in tangent configuration (Notification Required)
 - G. Insulator chipped (Notification Required)
 - H. Improper angle on pin insulator (Notification Required)
- 6.005 Do the insulators connect to the structure using a hook? (Disabled by SV003 [E,H,I])
- A. Yes (Notification Required)
 - B. No
- 6.007 Is there visible wear on the hook or structure where it attaches? (Enabled by 6.005 [A])
- A. Yes, visible wear on the hook or structure exists (Notification Required)
 - B. No, visible wear on the hook or structure does not exist

CONDUCTORS - PRIMARY (0.014B, 0.016, 0.026A, 0.026B, 0.026C, 8.009, 8.006, 8.007A, 8.007B, 8.011, 8.012, 8.013, 8.014, 8.015, 8.005, 8.008, 8.001, 8.002A, 8.002B, 8.016, 8.010, 8.017, 8.018, 8.019, 8.020)

- 0.014B How many line/high side conductors are installed at this level? (Disabled by SV003 [E,H,I])
*NOTE: This is **NOT** load-side primary. **DO NOT COUNT** buck arm primary or primary fed from same circuit/tap-line – only different circuits/voltages.*
- A. Answer choices will be 1-20
- 0.016 What is the clearance between trees/foilage and primary conductors? (Disabled by SV003 [E,H,I])
- A. 2 feet or less (Notification Required)
 - B. Between 2 feet and 6 feet (Notification Required)
 - C. 6 feet to 10 feet
 - D. Greater than 10 feet
 - E. Defer question to SCE Inspector – Item outside of Contractor Scope of Work (Enabled by SV001 [B])

Current List of Inspection Survey Questions

- 0.026A Is the primary circuit horizontal or vertical construction? (Disabled by SV003 [E,H,I])
NOTE: If a double circuit and/or both types of construction exist on the pole, select both options. On multi-arm and triangular construction, only select "Vertical" if primary conductors roll/transpose mid-span; otherwise select "Horizontal".
A. Horizontal construction
B. Vertical construction
- 0.026B Is there any indication of the primary conductor rolling/transposing from vertical-to-horizontal or horizontal-to-vertical? (Disabled by SV003 [E,H,I])
A. Yes and clearance between conductors appears to be greater than 12 inches
B. Yes and clearance between conductors appears to be less than 12 inches (Notification Required)
C. No
- 0.021D (AERIAL/GROUND) Indicate if any of the following types of non-exempt CONNECTOR material are present at this level. Select all that apply or select "No non-exempt connector present". (Enabled by SV006 [A])
A. Split bolt connector (Enables 0.022)
B. Copper vise connector (Enables 0.022)
C. No non-exempt connector present
- 8.009 What type(s) of primary conductors are installed? Select all that apply. (Disabled by SV003 [E,H,I])
NOTE: Only select primary conductor sizes and NOT taps/jumpers. Covered is tree wire. Aerial cable is bundled cable.
A. Covered (Enables 8.010, 8.014, 8.015, 8.017, 8.018)
B. Copper (Enables 8.007A)
C. Aluminum (Enables 8.007B)
D. Aerial cable
- 8.006 Which of the following estimated sizes of primary conductors are on the span? Select all that apply. (Disabled by SV003 [E,H,I])
NOTE: Only select primary conductor/phase sizes and NOT taps/jumpers.
A. #4 Aluminum
B. 1/0 Aluminum
C. #2 Aluminum
D. 336 Aluminum
E. 653 Aluminum
F. 4/0 Aluminum
G. 4/0 Copper
H. 2/0 Copper
I. #2 Copper
J. #4 Copper
K. #6 Copper
L. One or more conductors are sizes not listed
- 8.007A Is any copper primary conductor span length in any direction greater than 240 feet, and are line spacers installed (Enabled by 8.009 [B])
NOTE: If one span is greater than 240 feet and one span is less than 240 feet – select one of the

Current List of Inspection Survey Questions

"Yes" responses.

NOTE: If one span has line spacers and the other does not, select one of the "... and line spacers are not installed" responses.

- A. No, and line spacers are installed
- B. No, and line spacers are not installed
- C. Yes, and line spacers are installed.
- D. Yes, and line spacers are not installed.

8.007B Is any Aluminum primary conductor span length in any direction greater than 240 feet and are line spacers installed? (Enabled by 8.009 [C])

NOTE: If one span is greater than 240 feet and one span is less than 240 feet – select one of the "Yes" responses.

NOTE: If one span has line spacers and the other does not, select one of the "... and line spacers are not installed" responses.

- A. No, and line spacers are installed
- B. No, and line spacers are not installed
- C. Yes, and line spacers are installed.
- D. Yes, and line spacers are not installed.

8.019 Are there any splices on the conductors? (Disabled by SV003 [E,H,I])

NOTE: Check all conductors in all directions from pole to mid-span.

- A. Yes (Enables 8.011, 8.012, 8.013)
- B. No

8.011 How many automatic (bump) splices are in the primary level? (Enabled by 8.019 [A])

NOTE: Count all splices in all directions from pole to mid-span.

- A. Answer choices will be 0-20

8.012 How many preform splices are in the primary level? (Enabled by 8.019 [A])

NOTE: Count all splices in all directions from pole to mid-span.

- A. Answer choices will be 0-20

8.013 How many compression splices are in the primary level? (Enabled by 8.019 [A])

NOTE: Count all splices in all directions from pole to mid-span.

- A. Answer choices will be 0-20

8.008 For slack spans only – Do ALL slack spans in ALL directions have primary conductor spacers? (Disabled by SV003 [E,H,I])

NOTE: If one slack span has line spacers and the other does not, select "No"

- A. Yes
- B. No
- C. No slack span present

8.020 (AERIAL/GROUND) Are any of the following conductor conditions observed? Select all that apply. (Disabled by SV003 [E,H,I])

- A. Metal or Non-Metal Debris (Enables 8.001)
- B. Clearance issues with vegetation (Enables 8.002A)
- C. Clearance issues with structures (Enables 8.002B)

Current List of Inspection Survey Questions

- D. Guy wire or conductor issues that may lead to conductor clash (Enables 8.016)
 - E. No abnormal conditions
- 8.001 **(AERIAL/GROUND)** Indicate if any of the following types of foreign objects are observed. Select all that apply. (Enabled by 8.020 [A])
- A. Metal debris in conductors (Notification Required)
 - B. Non-metal debris in conductors
- 8.002A **(AERIAL/GROUND)** Are there inadequate clearance distances observed? Select all that apply. (Enabled by 8.020 [B])
- A. Vegetation arcing or in contact with energized conductor (Notification Required)
 - B. Immediate danger concerning palm fronds falling or blowing into conductors (Notification Required)
 - C. Vines, branches or foliage presenting an overhang or other imminent threat (Notification Required)
 - D. Tree with potential to have less than 4 feet of clearance during wind events (Enabled by question SV006 [A])
 - E. Tree with potential to have less than 1.5 feet of clearance during wind events (Enabled by question SV006 [B])
 - F. Defer question to SCE Inspector – Item outside of Contractor Scope of Work (Enabled by question SV001 [B])
- 8.002B **(AERIAL/GROUND)** Are there estimated inadequate clearance distances between energized conductors and other structures observed? Select all that apply (Enabled by 8.020 [C])
- A. Conductor located above a building, and is vertically less than 12 feet from top surface of - building (commonly roof) (Notification Required)
 - B. Conductor NOT located above building, but is vertically is less than 12 feet from top surface of building (commonly roof) (Notification Required)
 - C. Less than 6 feet horizontally between conductor and any surface of a building (Notification Required)
 - D. Less than 6 feet radially between conductor and non-climbable pole (e.g. streetlight) (Notification Required)
- 8.016 **(AERIAL/GROUND)** Indicate if any of the following types of conductor, span, and/or guy wire issues identified on the pole may create conductor clash. Select all that apply. (Enabled by 8.020 [D])
- A. Slack primary conductor (Notification Required)
 - B. Span guy (Notification Required)
 - C. Down guy (Notification Required)
 - D. Encroachment primary conductor with span/down guy (Notification Required)
 - E. Encroachment bare secondary conductor with span/down guy (Notification Required)
- 8.010 **(AERIAL/GROUND)** For covered conductor, are there visible signs of tracking or damage on the outer jacket? (Enabled by 8.009 [A])
- A. Yes (Notification Required)
 - B. No
- 8.014 For covered conductor – select all applicable directions covered conductor is installed? Select all that apply”. (Enabled by 8.009 [A])

Current List of Inspection Survey Questions

- A. North
 - B. South
 - C. East
 - D. West
- 8.015 For covered conductor – indicate if any of the following covered conductor covers are missing. Select all that apply or select “No missing covered conductor covers” (Enabled by 8.009 [A])
- A. Dead-end cover (Notification Required)
 - B. Bare Tap (Notification Required)
 - C. Connector cover (Notification Required)
 - D. Fuse cover (Notification Required)
 - E. Lightning arrestor cover (Notification Required)
 - F. Equipment bushing cover (Notification Required)
 - G. Pothead cover (Notification Required)
 - H. No missing covered conductor cover
- 8.017 For covered conductor – Are lightning arresters installed on structures containing the following equipment: RAR, RSR, Capacitors, Voltage Regulators, PTs associated with RSCs and PE equipment, Transformers, BLFs, and UG Dips? (Enabled by 8.009 [A])
- A. No (Notification Required)
 - B. Yes
 - C. No primary equipment present
- 8.018 For covered conductor – For line connections (excludes connections to equipment), what jumper is used? (Enabled by 8.009 [A])
- A. PGW (Notification Required)
 - B. Bare wire (If bare, will need to be covered with split tube) (Notification Required)
 - C. Covered conductor
 - D. Wire with split tube
 - E. No jumper exists

RECLOSERS, PE GEAR, REGULATORS, SWITCHES (0.021A, 10.007, 10.008)

- 0.021A Indicate if any of the following types of non-exempt SWITCH material are present on the pole. Select all that apply or select "No non-exempt switch present". (Enabled by SV006 [A])
- A. Grasshopper air switch (Enables 0.022)
 - B. Single blade disconnect NOT in conjunction with reclosers or regulators (Enables 0.022)
 - C. In-line disconnect (Enables 0.022)
 - D. Alduti Rupter (Enables 0.022)
 - E. OMNI R4 (Enables 0.022)
 - F. No non-exempt switch present
- 10.007 (AERIAL/GROUND) Are any of the following apparatus equipment conditions observed? Select all that apply. (Disabled by SV003 [E,H,I])
- A. Animal guards missing
 - B. Animal guards damaged (Notification Required)

Current List of Inspection Survey Questions

- C. Excessive oil leaking and reaching ground, public access, or environmentally sensitive area (Notification Required)
- D. Minor leakage, oil remains on equipment, does not reach ground, public access, or environmentally sensitive area (Notification Required)
- E. Vegetation interfering with operation of apparatus equipment (Notification Required) (Disabled by SV001 [B])
- F. No abnormal conditions

10.008 (AERIAL/GROUND) If the switch is in the closed position, are all switch blades fully engaged?

- A. Yes, switch is closed and all blades are fully engaged
- B. No, switch is closed, but one or more blades are not fully engaged (Notification Required)
- C. Switch in open position
- D. No switch present

HARDWARE/FRAMING (11.004)

11.004 (AERIAL/GROUND) Are any of the following hardware/framing conditions observed? Select all that apply. (Disabled by SV003 [E])

- A. Corroded, missing, broken or bending hardware (Notification Required)
- B. Damaged equipment brackets or braces (Notification Required)
- C. No abnormal conditions

SPAN GUYS (0.014E, 12.002, 12.004)

0.014E How many span guys are installed at this level? (Disabled by SV003 [E])

- A. Answer choices will be 1-10

12.004 Are any of the following span guy conditions observed? Select all that apply. (Disabled by SV003 [E])

- A. Cracked, damaged, deflected, frayed or loose (Notification Required)
- B. Sagging or extreme slack (Notification Required)
- C. Inadequate clearance with energized components, non-energized components, communication facilities (Enables 12.002)
- D. No abnormal conditions

12.002 Is there inadequate clearance between span guy and any of the following? Select all that apply. (Enabled by 12.004 [C])

- A. SCE energized components (Notification Required)
- B. SCE non-energized electrical components (Notification Required)
- C. Communication facilities
- D. Other

Current List of Inspection Survey Questions

DOWN GUYS (13.001B)

- 13.001B Are there signs of contact between guy wire and conductors (arcing marks)? (Disabled by SV003 [E])
- A. Yes (Notification Required)
 - B. No

RISERS/TERMINATIONS (14.001, 14.002, 14.004)

- 14.004 (AERIAL/GROUND) Are any of the following Riser/Pothead conditions observed? Select all that apply. (Disabled by SV003 [E,H,I])
- A. Damage/Discoloration (Notification Required)
 - B. Pothead not properly secured, leaking, swollen, sparking, arcing, noisy, insulator broken, in contact with nest (Enables 14.002)
 - C. No abnormal conditions
- 14.002 (AERIAL/GROUND) Indicate if the Pothead shows signs of any of the following conditions in the primary level. Select all that apply. (Enabled by 14.004 [B])
- A. Pothead not properly attached to supporting structure (Notification Required)
 - B. Pothead leaking (Notification Required)
 - C. Pothead sparking, arcing, or noisy during normal 'dry' weather conditions (Notification Required)
 - D. Pothead swollen (Notification Required)
 - E. Porcelain pothead insulators chipped or broken (Notification Required)
 - F. In contact with animal nest (Notification Required)

LIGHTNING ARRESTERS (0.014G, 16.001, 0.021C)

- 0.014G How many surge arrester/lightning arresters are installed on this structure? (Disabled by SV003 [E,H,I])
- A. Answer choices will be 1-10
- 16.001 Has the ground lead disconnected or any arrester operated? (Disabled by SV003 [E,H,I])
- A. Yes (Notification Required)
 - B. No
- 0.021C Indicate if any of the following types of non-exempt ARRESTER material are present on the pole. Select all that apply or select "No non-exempt arrester present". (Enabled by SV006 [A])
- A. Porcelain surge arrester/Lightning arrester (Enables 0.022)
 - B. Non-porcelain lightning arrester (Enables 0.022)
 - C. No non-exempt arrester present

Current List of Inspection Survey Questions

FUSES (0.021B, 11.002)

0.021B Indicate if any of the following types of non-exempt FUSE material are present on the pole. Select all that apply or select "No non-exempt fuse present". (Enabled by SV006 [A])

- A. Universal fuse (Enables 0.022)
- B. Enclosed cutout w/universal fuse (Enables 0.022)
- C. Open link fuse (Enables 0.022)
- D. No non-exempt fuse present

11.002 (AERIAL/GROUND) Are any fuse holders burned or tracking? (Disabled by SV003 [E,H,I])

- A. Yes (**Notification Required**)
- B. No
- C. No fuse holders installed

Secondary Level

MAT_SEC Select all the equipment you see at the secondary level:

- A. Poles – Wood (Disabled by SV003 [E])
- B. Poles – Composite (Disabled by SV003 [E])
- C. Poles – Tree (Disabled by SV003 [E])
- D. Poles – Steel (Disabled by SV003 [E])
- E. Crossarms – Wood (Disabled by SV003 [H,I])
- F. Crossarms – Composite (Disabled by SV003 [E,H,I])
- G. Insulators (Disabled by SV003 [H,I])
- H. Conductors - Secondary (Disabled by SV003 [H,I])
- I. Reclosers, PE Gear, Regulators, and Switches (Disabled by SV003 [E,H,I])
- J. Hardware/Framing
- K. Span Guys
- L. Down Guys
- M. Risers/Terminations (Disabled by SV003 [H,I])
- N. Service Drops (Disabled by SV003 [E,H,I])
- O. Crossarms – Steel (Disabled by SV003 [E,H,I])
- P. Streetlight Only Pole – Concrete (Enabled by SV004 [E])
- Q. Streetlight Only Pole – Wood (Enabled by SV004 [F])
- R. Streetlight Only Pole – Steel (Enabled by SV004 [G])
- S. Streetlight (Disabled by SV003 [H,I])

POLES - WOOD (1.002)

- 1.002 (AERIAL/GROUND)** Indicate if any of the following types of structural failure are observed at this level. Select all that apply or select “No abnormal conditions”. (Disabled by SV003 [E])
- A. Hole approximately > 2 inches near through bolt (Notification Required)
 - B. Three or more holes approximately >2 inch diameter, within approximately 18 inches vertical of a through bolt (Notification Required)
 - C. Exterior damage approximately >2 inch depth and approximately > 1/4 pole circumference (Notification Required)
 - D. Exterior damage approximately 1–2 inch depth and approximately > 1/4 pole circumference (Notification Required)
 - E. No abnormal conditions

STREETLIGHT ONLY POLES - WOOD (1.002)

- 1.002 (AERIAL/GROUND)** Indicate if any of the following types of structural failure are observed at this level. Select all that apply or select “No abnormal conditions”.
- A. Hole approximately > 2 inches near through bolt (Notification Required)
 - B. Three or more holes approximately >2 inch diameter, within approximately 18 inches vertical of a through bolt (Notification Required)

Current List of Inspection Survey Questions

- C. Exterior damage approximately >2 inch depth and approximately > 1/4 pole circumference
(Notification Required)
- D. Exterior damage approximately 1–2 inch depth and approximately > 1/4 pole circumference
(Notification Required)
- E. No abnormal conditions

CROSSARMS - WOOD (0.014L, 0.014M, 0.014N, 2.003A, 2.003C, 2.004A, 2.005B, 2.006A, 2.003B, 2.006B, 2.010)

0.014L How many total single crossarms of this material type are at this level? (Disabled by SV003 [H,I])
NOTE: A single crossarm is when only one crossarms piece exists at a specific elevation on the pole.
A. Answer choices will be 0-20

0.014M How many total sets of double crossarms of this material type are at this level? (Disabled by SV003 [E,H,I])
NOTE: A double crossarm is when two crossarm pieces exist in a parallel orientation at the same elevation on the pole.
A. Answer choices will be 0-20

0.014N How many total sets of triple crossarms of this material type are at this level? (Disabled by SV003 [E,H,I])
NOTE: A triple crossarm is when three crossarms pieces exist in a parallel orientation at the same elevation on the pole.
A. Answer choices will be 0-20

2.010 (AERIAL/GROUND) Are any of the following secondary wood crossarm conditions observed? Select all that apply. (Disabled by SV003 [H,I])
A. Bowing/twisting (Enables 2.003A, 2.003B)
B. Deterioration (Enables 2.003C)
C. Canting (Enables 2.004A)
D. Tracking (Enables 2.005B)
E. Brace damage (Enables 2.006A, 2.006B)
F. No abnormal conditions

2.003A How many crossarms of this material type at this level are bowed/twisted and need to be replaced? (Enabled by 2.010 [A])
A. Answer choices will be 1-20 (Notification Required)

2.003B Are any crossarms of this material type showing any of the following signs of bowing/twisting at this level and need to be replaced? Select all that apply. (Enabled by 2.010 [A])
A. Crossarm bowed approximately >5 inches and splintering (Notification Required)
B. Crossarm bowed approximately >5 inches without splintering (Notification Required)
C. Significant damage at a bolt (Notification Required)

2.003C How many crossarms of this material type at this level are deteriorated and need to be replaced?

Current List of Inspection Survey Questions

(Enabled by 2.010 [B])

A. Answer choices will be 1-20 (Notification Required)

2.004A How many crossarms of this material type at this level are canted and need to be replaced?

(Enabled by 2.010 [C])

A. Answer choices will be 1-20 (Notification Required)

2.005B How many crossarms of this material type at this level are tracking and need to be replaced?

(Enabled by 2.010 [D])

A. Answer choices will be 1-20 (Notification Required)

2.006A How many crossarms of this material type at this level have damaged braces and need to be replaced? (Enabled by 2.010 [E])

A. Answer choices will be 1-20 (Notification Required)

2.006B Do any crossarms of this material type have any of the following brace damage at this level and need to be replaced? (Enabled by 2.010 [E])

Select all that apply.

A. Braces broken (Notification Required)

B. Braces loose (Notification Required)

C. Braces missing (Notification Required)

CROSSARMS - COMPOSITE (0.014L, 0.014M, 0.014N, 2.003C, 7.002A, 7.002B, 7.004A, 7.007)

0.014L How many total single crossarms of this material type are at this level? (Disabled by SV003 [E,H,I])

NOTE: A single crossarm is when only one crossarms piece exists at a specific elevation on the pole.

A. Answer choices will be 0-20

0.014M How many total sets of double crossarms of this material type are at this level? (Disabled by SV003 [E,H,I])

NOTE: A double crossarm is when two crossarm pieces exist in a parallel orientation at the same elevation on the pole.

A. Answer choices will be 0-20

0.014N How many total sets of triple crossarms of this material type are at this level? (Disabled by SV003 [E,H,I])

NOTE: A triple crossarm is when three crossarms pieces exist in a parallel orientation at the same elevation on the pole.

A. Answer choices will be 0-20

7.007 (AERIAL/GROUND) Are any of the following secondary composite crossarm conditions observed?

Select all that apply. (Disabled by SV003 [E,H,I])

A. Deterioration (Enables 2.003C)

B. Bending (Enables 7.002A, 7.002B)

C. Damage (Enables 7.004A)

D. No abnormal conditions

Current List of Inspection Survey Questions

2.003C How many crossarms of this material type at this level are deteriorated and need to be replaced? (Enabled by 7.007 [A])

A. Answer choices will be 1-20 (Notification Required)

7.002A How many crossarms of this material type at this level show signs of bending and need to be replaced? (Enabled by 7.007 [B])

A. Answer choices will be 1-20 (Notification Required)

7.002B Do any crossarms of this material type have any of the following conditions of bending and need to be replaced? Select all that apply. (Enabled by 7.007 [B])

A. Visual fracturing (Notification Required)

B. Significant visual buckling (Notification Required)

C. Significantly unbalanced due to tension (Notification Required)

D. Bent mounting bracket and associated hardware (Notification Required)

7.004A How many crossarms of this material type at this level are physically damaged and need to be replaced? (Enabled by 7.007 [C])

A. Answer choices will be 1-20 (Notification Required)

CROSSARMS - STEEL (0.014L, 0.014M, 0.014N, 2.003A, 2.005B, 2.007A)

0.014L How many total single crossarms of this material type are at this level? (Disabled by SV003 [E,H,I])
NOTE: A single crossarm is when only one crossarms piece exists at a specific elevation on the pole.

A. Answer choices will be 0-20

0.014M How many total sets of double crossarms of this material type are at this level? (Disabled by SV003 [E,H,I])

NOTE: A double crossarm is when two crossarm pieces exist in a parallel orientation at the same elevation on the pole.

A. Answer choices will be 0-20

0.014N How many total sets of triple crossarms of this material type are at this level? (Disabled by SV003 [E,H,I])

NOTE: A triple crossarm is when three crossarms pieces exist in a parallel orientation at the same elevation on the pole.

A. Answer choices will be 0-20

2.009 (AERIAL/GROUND) Are any of the following steel crossarm conditions observed? Select all that apply. (Disabled by SV003 [E,H,I])

A. Bowing/twisting (Enables 2.003A)

B. Rusting/corrosion (Enables 2.003D)

C. Tracking (Enables 2.005B)

D. No abnormal conditions

Current List of Inspection Survey Questions

2.003A How many crossarms of this material type at this level are bowed/twisted and need to be replaced? (Enabled by 2.009 [A])

A. Answer choices will be 1-20 (Notification Required)

2.003D How many crossarms of this material type at this level are excessively rusted or corroded and need to be replaced? (Enabled by 2.009 [B])

A. Answer choices will be 1-20 (Notification Required)

INSULATORS (0.014O, 6.001, 6.003, 6.006)

0.014O How many insulators are installed at this level? (Disabled by SV003 [E,H,I])

NOTE: Dead-end insulators count as 1.

A. Answer choices will be 1-30

6.001 What types of insulators are installed at this level? Select all that apply. (Disabled by SV003 [E,H,I])

- A. Porcelain
- B. Polymer
- C. Hendrix Universal
- D. Hendrix (vice-top)
- E. Other

6.006 (AERIAL/GROUND) Are any of the following insulator conditions observed? Select all that apply. (Disabled by SV003 [H,I])

- A. Missing parts (Notification Required)
- B. Insulator damaged (broken, cracked, loose, floating, squatting, chipped), Tie wire (damaged, missing, loose), Upward strain (Enables 6.003)
- C. Top/Side tie insulator touching crossarm (Notification Required)
- D. No abnormal conditions

Streetlight Pole Problem statement: REPAIR DAMAGE PUBLIC STLTPOLE

NOTE: ESI will have to indicate insulator issue

6.003 (AERIAL/GROUND) Indicate if any of the following types of damage are observed on any portion of any insulator, or its associated hardware, at this level. Select all that apply. (Enabled by 6.006 [B]) (Disabled by SV003 [H,I])

- A. Insulator broken (Notification Required)
- B. Insulator cracked, damaged or loose (Notification Required)
- C. Insulator floating (Notification Required)
- D. Insulator squatting (Notification Required)
- E. Tie wire broken/missing/damaged or loose (Notification Required)
- F. Upward strain (lift) on pin in tangent configuration (Notification Required)
- G. Insulator chipped (Notification Required)
- H. Improper angle on pin insulator (Notification Required)

Current List of Inspection Survey Questions

CONDUCTORS - SECONDARY (0.014I, 0.021E, 9.006, 9.005, 9.007A, 9.007B, 9.008, 9.009, 9.010, 9.001, 9.003, 9.004, 9.011, 9.012)

0.014I How many phases are installed at this level? (Disabled by SV003 [E,H,I])

NOTE: Only count secondary phases, NOT services. (Multi-plex is counted as 1 phase).

A. Answer choices will be 1-20

0.021E Indicate which of the following types of non-exempt CONNECTOR material are present at this level. Select all that apply or select "No non-exempt connector present" (Enabled by SV006 [A]) (Disabled by SV003 [H,I])

A. Split bolt connector (Enables 0.022)

B. Copper vise connector (Enables 0.022)

C. No non-exempt connector present

9.006 **(AERIAL/GROUND)** What type(s) of secondary conductors are installed? Select all that apply. (Disabled by SV003 [E,H,I])

A. Open wire

B. Bare copper (Enables 9.007A)

C. Bare aluminum (Enables 9.007B)

D. Covered

E. Multiplex

F. One or more conductors are types not listed

9.005 Which of the following sizes of secondary conductors are on the span? Select all that apply. (Disabled by SV003 [H,I])

NOTE: Only count secondary conductor/phases, not services

A. #4 Copper

B. #6 Copper

C. #4 Aluminum

D. #4 Aluminum Triplex

E. #6 Aluminum

F. One or more conductors are sizes not listed

9.007A Is ANY copper secondary conductor span length in ANY direction greater than 240 feet? (Disabled by SV003 [H,I])

NOTE: If one span is greater than 240 feet and one span is less than 240 feet – select "Yes".

(Enabled by 9.006[B])

A. Yes

B. No

9.007B Is ANY Aluminum secondary conductor span length in ANY direction greater than 240 feet? *NOTE: If one span is greater than 240 feet and one span is less than 240 feet – select "Yes".* (Enabled by 9.006[C]) (Disabled by SV003 [H,I])

A. Yes

B. No

9.011 Are there any splices on the secondary conductors? (Disabled by SV003 [H,I])

NOTE: Check all conductors in all directions from pole to mid-span.

Current List of Inspection Survey Questions

- A. Yes (Enables 9.0008, 9.009, 9.010)
- B. No

9.008 How many automatic (bump) splices are in the secondary level? (Enabled by 9.011 [A]) (Disabled by SV003 [H,I])

NOTE: Count all splices in all directions from pole to mid-span.

- A. Answer choices will be 0-20

9.009 How many preform splices are in the secondary level? (Enabled by 9.011 [A]) (Disabled by SV003 [H,I])

NOTE: Count all splices in all directions from pole to mid-span.

- A. Answer choices will be 0-20

9.010 How many compression splices are in the secondary level? (Enabled by 9.011 [A]) (Disabled by SV003 [H,I])

- A. Answer choices will be 0-20

9.012 **(AERIAL/GROUND)** Are any of the following conductor conditions observed? Select all that apply. (Disabled by SV003 [H,I])

- A. Foreign objects **(Notification Required)**
- B. Conductor has less than appropriate radial clearance with potential for contact, no public safety hazard **(Notification Required)**
- C. Clearance issues with vegetation (Enables 9.003)
- D. Damage (broken, missing loose conductor or tie wires) (Enables 9.004)
- E. No abnormal conditions

9.003 **(AERIAL/GROUND)** Which of the following inadequate clearances are observed at this level at the time of inspection? Select all that apply. (Enabled by 9.012 [C]) (Disabled by SV003 [H,I])

- A. Bare conductors and through tree **(Notification Required)**
- B. Tree condition causing significant strain and/or visible abrasion damage - either open wire or Triplex **(Notification Required)**
- C. Immediate danger concerning palm fronds falling or blowing into conductors **(Notification Required)**
- D. Vines, branches, or foliage presenting an overhang or other imminent threat **(Notification Required)**
- E. Defer question to SCE Inspector – Item outside of Contractor Scope of Work (Enabled by SV001 [B])

9.004 **(AERIAL/GROUND)** Indicate if any of the following types of part damage are observed. Select all that apply (Enabled by 9.012 [D]) (Disabled by SV003 [H,I])

- A. Conductors not in good condition, broken, missing **(Notification Required)**
- B. Tie wire broken/missing/damaged or loose **(Notification Required)**

RECLOSERS, PE GEAR, REGULATORS, AND SWITCHES (10.002, 10.004, 10.006, 10.007)

Current List of Inspection Survey Questions

10.007 (AERIAL/GROUND) Are any of the following apparatus equipment conditions observed? Select all that apply. (Disabled by SV003 [E,H,I])

- A. Animal guards missing
- B. Animal guards damaged (Notification Required)
- C. Excessive oil leaking and reaching ground, public access, or environmentally sensitive area (Notification Required)
- D. Minor leakage, oil remains on equipment, does not reach ground, public access, or environmentally sensitive area (Notification Required)
- E. Vegetation interfering with operation of apparatus equipment (Notification Required)
(Disabled by SV001 [B])
- F. No abnormal conditions

HARDWARE/FRAMING (11.004)

11.004 (AERIAL/GROUND) Are any of the following hardware/framing conditions observed? Select all that apply.

- A. Corroded, missing, broken or bending hardware (Notification Required)
- B. Damaged equipment brackets or braces (Notification Required)
- C. No abnormal conditions

STREETLIGHT (11.005)

11.005 (AERIAL/GROUND) Are any of the following streetlight conditions observed? (Enabled by MAT_SEC [S])

- A. Mastarm or mounting hardware corroded, missing, broken, loose or bending (Notification Required)
- B. Luminaire (streetlight head) or hardware corroded, missing, broken, or bending (Notification Required)
- C. Streetlight brackets damaged (Notification Required)
- D. Signs of animal presence in the luminaire
- E. Lamp Flickering
- F. No abnormal conditions

SPAN GUYS (0.014E, 12.002, 12.004)

0.014E How many span guys are installed at this level?

- A. Answer choices will be 1-10

12.004 Are any of the following span guy conditions observed? Select all that apply.

- A. Cracked, damaged, deflected, frayed or loose (Notification Required)
- B. Sagging or extreme slack (Notification Required)
- C. Inadequate clearance with energized components, non-energized components, communication facilities (Enables 12.002)
- D. No abnormal conditions

Current List of Inspection Survey Questions

12.002 Is there inadequate clearance between span guy and any of the following? Select all that apply.

(Enabled by 12.004 [C])

- A. SCE Energized components (Notification Required)
- B. SCE non-energized electrical components (Notification Required)
- C. Communication facilities
- D. Other

DOWN GUYS (13.001B)

13.001B Are there signs of contact between guy wire and conductors (arcing marks)?

- A. Yes (Notification Required)
- B. No

RISERS/TERMINATIONS (14.003)

14.003 (AERIAL/GROUND) Indicate if any of the following Riser conditions are observed on the structure. Select all that apply or select "No abnormal conditions". (Disabled by SV003 [H,I])

- A. Cables in Riser exposed (Notification Required)
- B. Riser broken (Notification Required)
- C. Riser swollen (Notification Required)
- D. In contact with animal nest (Notification Required)
- E. Non-Schedule 80 Riser installed (Notification Required)
- F. No abnormal conditions

SERVICE DROPS (15.001, 15.004)

15.001 What type of service drops are installed? Select all that apply. (Disabled by SV003 [E,H,I])

- A. Aluminum
- B. Copper
- C. 2 wire
- D. 3 wire
- E. 4 wire

15.004 (AERIAL/GROUND) Indicate if any of the following inadequate clearances are observed at the time of inspection. Select all that apply or select "No abnormal conditions". (Disabled by SV003 [E,H,I])

- A. Tree condition causing significant strain and/or visible abrasion damage — either open wire or Triplex (Notification Required) (Disabled by SV001 [B])
- B. Mid-span service clearance not maintained (Notification Required)
- C. Does not meet G.O. 95 vertical clearances (Notification Required)
- D. No abnormal conditions

Communication Level (Disabled by SV003 [E])

MAT_COMM Select all the equipment you see at the communication level:

- A. Poles – Wood (Disabled by SV003 [E])
- B. Poles – Composite (Disabled by SV003 [E])
- C. Buddy Pole (Disabled by SV003 [E])
- D. Communication Lines and Equipment (Disabled by SV003 [E])
- E. Reclosers, PE Gear, Regulators, and Switches (Disabled by SV003 [E,H,I])

POLES - WOOD (0.020B, 1.002)

0.020B Is there adequate climbing space at this level? (Disabled by SV003 [E])

- A. No (Notification Required)
- B. Yes

1.002 Indicate if any of the following types of structural failure are observed at this level. Select all that apply or select “No abnormal conditions”. (Disabled by SV003 [E])

- A. Hole approximately > 2 inches near through bolt (Notification Required)
- B. Three or more holes approximately >2 inch diameter, within approximately 18 inches vertical of a through bolt (Notification Required)
- C. Exterior damage approximately >2 inch depth and approximately > 1/4 pole circumference (Notification Required)
- D. Exterior damage approximately 1–2 inch depth and approximately > 1/4 pole circumference (Notification Required)
- E. No abnormal conditions

POLES – COMPOSITE (0.020B,)

0.020B Is there adequate climbing space at this level? (Disabled by SV003 [E])

- A. No (Notification Required)
- B. Yes

Buddy Pole (0.028)

0.028 What is attached to the Buddy Pole? (Disabled by SV003 [E])

- A. TTC cable
- B. 3rd party cable
- C. Distribution
- D. Nothing (bare pole)

Current List of Inspection Survey Questions

Communication Lines and Equipment (0.029)

- 0.029 Indicate if any of the following communication equipment conditions are observed.
Select all that apply or select "No abnormal conditions". (Disabled by SV003 [E])
- A. Inadequate clearance between communication equipment or structures and SCE electrical equipment or structures (Notification Required)
 - B. Excessive sag of communication cables (Notification Required)
 - C. Loose lashing wires (Notification Required)
 - D. Broken or separated messenger wire (Notification Required)
 - E. Broken, damaged or severely strained communication guy wires (Notification Required)
 - F. Excessive bowing or bending of pole from potential overloading at communication attachment points (Notification Required)
 - G. Improperly secured communication conductor or equipment (Notification Required)
 - H. Vegetation straining communication messenger or guy wire and/or causing structural integrity issues (Notification Required)
 - I. No abnormal conditions

RECLOSERS, PE GEAR, REGULATORS, AND SWITCHES (10.006)

- 10.006 Are trees or vegetation interfering with operation of any reclosers, PE gear, regulators, or switches? (Disabled by SV003 [E])
- A. Yes (Notification Required)
 - B. No
 - C. Defer question to SCE Inspector – Item outside of Contractor Scope of Work (Enabled by SV001 [B])

Public Level

MAT_PUB Select all the equipment you see at the public level:

- A. Poles – Wood (Disabled by SV003 [E])
- B. Poles – Composite (Disabled by SV003 [E])
- C. Poles – Tree (Disabled by SV003 [E])
- D. Poles – Steel (Disabled by SV003 [E])
- E. Down Guys
- F. Risers/Terminations (Disabled by SV003 [H,I])
- G. Streetlight Only Pole – Concrete (Enabled by SV004 [E])
- H. Streetlight Only Pole – Wood (Enabled by SV004 [F])
- I. Streetlight Only Pole – Steel (Enabled by SV004 [G])

POLES - WOOD (0.005A, 0.005B, 0.005C, 0.005D, 0.008, 0.009, 0.020B, 0.022, 0.024, 0.027, 1.002, 1.004, 1.007, 1.009)

0.005A Does pole number in the app match the structure number on the structure that you are inspecting?

- A. No (**Notification Required**) (Enables 0.005C)
- B. Yes (Enables 0.005C)
- C. No structure number present (Enables 0.005C)
- D. Cannot access (Disables 0.005C)

0.005B Is the structure number the yellow and black style?

- A. Yes
- B. No
- C. No structure number present
- D. Cannot access

0.005C Does the structure number or tag require replacement? (Enabled by 0.005A [A,B,C]; Disabled by 0.005A [D])

- A. Yes
- B. No

0.005D Do visibility strips require replacement?

- A. Yes
- B. No
- C. Cannot access

0.008 Is the circular pole medallion present?

- A. Yes
- B. No
- C. Cannot access

0.009 Is the pole brand visible?

- A. Yes

Current List of Inspection Survey Questions

- B. No
 - C. Cannot access
- 0.020B Is there adequate climbing space at this level?
- A. No (Notification Required)
 - B. Yes
- 0.022 If Non-Exempt material is present on the pole, is there at least 10 feet of clearance between vegetation and the base of the pole, up to 8 feet high? (Enabled by 0.021A [A,B,C,D,E] 0.021B [A,B,C], 0.021C [A,B], 0.021D [A,B], 0.021E[A,B])
- A. Yes
 - B. No
 - C. Defer question to SCE Inspector – Item outside of Contractor Scope of Work (Enabled by SV001 [B])
- 0.027 Which of the following generally describes the area surrounding the pole within 100 feet?
- A. Vegetation (Disabled by SV001 [B])
 - B. Residential or commercial area/structures
 - C. Sand/dirt, gravel/rock, or water
 - D. Concrete and/or pavement
 - E. Debris, trash, or other combustible material
 - F. Homeless encampment
- 1.009 Are any of the following structure conditions observed? Select all that apply.
- A. Defects on or around structure (contamination, unauthorized attachment, 3rd party structure, or burn marks) (Enables 0.024)
 - B. Structural failure (holes, damage) (Enables 1.002)
 - C. Construction faults (decay pockets, soil erosion) (Enables 1.004)
 - D. Pole lean (Enables 1.007)
 - E. Animal nests with potential to contact energized components or interfere with equipment operation (Notification Required)
 - F. No abnormal conditions
- 0.024 Indicate which of the following defects are present on or around the structure. Select all that apply. (Enabled by 1.009 [A])
- A. Contamination from SCE equipment (Notification Required)
 - B. Unauthorized attachment (Notification Required)
 - C. 3rd party structure touching or surrounding SCE structure (Notification Required)
 - D. Burn marks or signs of exposure to fire
- 1.002 Indicate if any of the following types of structural failure are observed at this level. Select all that apply. (Enabled by 1.009 [B])
- A. Hole approximately > 2 inches near through bolt (Notification Required)
 - B. Three or more holes approximately >2 inch diameter, within approximately 18 inches vertical of a through bolt (Notification Required)
 - C. Exterior damage approximately >2 inch depth and approximately > 1/4 pole circumference (Notification Required)

Current List of Inspection Survey Questions

- D. Exterior damage approximately 1–2 inch depth and approximately > 1/4 pole circumference
(Notification Required)
- E. No abnormal conditions

1.004 Indicate if there are any of the following types of construction faults. Select all that apply.

(Enabled by 1.009 [C])

- A. Exposed decay pocket at ground line where part of shell is gone (Notification Required)
- B. Evidence of soil erosion around base of pole (Notification Required)

1.007 Indicate if the pole is showing any of the following signs of pole lean. (Enabled by 1.009 [D])

- A. Pole leaning - public hazard (Notification Required)
- B. Pole leaning more than 1 foot per 10 feet of pole height (Notification Required)
- C. Pole leaning less than 1 foot per 10 feet of pole height

POLES - COMPOSITE (0.005A, 0.005B, 0.005C, 0.005D, 0.008, 0.009, 0.020B, 0.022, 0.024, 0.027, 5.001, 5.003, 5.006)

0.005A Does pole number in the app match the structure number on the structure that you are inspecting?

- A. No (Notification Required) (Enables 0.005C)
- B. Yes (Enables 0.005C)
- C. No structure number present (Enables 0.005C)
- D. Cannot access (Disables 0.005C)

0.005B Is the structure number the yellow and black style?

- A. Yes
- B. No
- C. No structure number present
- D. Cannot access

0.005C Does the structure number or tag require replacement? (Enabled by 0.005A [A,B,C]; Disabled by 0.005A [D])

- A. Yes
- B. No

0.005D Do visibility strips require replacement?

- A. Yes
- B. No
- C. Cannot access

0.008 Is the circular pole medallion present?

- A. Yes
- B. No
- C. Cannot access

Current List of Inspection Survey Questions

- 0.009 Is the pole brand visible?
- A. Yes
 - B. No
 - C. Cannot access
- 0.020B Is there adequate climbing space at this level?
- A. No (Notification Required)
 - B. Yes
- 0.022 If Non-Exempt material is present on the pole, is there at least 10 feet of clearance between vegetation and the base of the pole, up to 8 feet high? (Enabled by 0.021A [A,B,C,D,E] 0.021B [A,B,C], 0.021C [A,B], 0.021D [A,B], 0.021E[A,B])
- A. Yes
 - B. No
 - C. Defer question to SCE Inspector – Item outside of Contractor Scope of Work (Enabled by SV001 [B])
- 0.027 Which of the following generally describes the area surrounding the pole within 100 feet?
- A. Vegetation (Disabled by SV001 [B])
 - B. Residential or commercial area/structures
 - C. Sand/dirt, gravel/rock, or water
 - D. Concrete and/or pavement
 - E. Debris, trash, or other combustible material
 - F. Homeless encampment
- 5.006 Are any of the following structure conditions observed? Select all that apply.
- A. Defects on or around structure (Enables 0.024)
 - B. Structural damage (fracturing, buckling, ponding, cracking, vandalism, embedment depth, gouging) (Enables 5.001)
 - C. Overloading (pole leaning, bowing) (Enables 5.003)
 - D. Animal nests with potential to contact energized component or interfere with equipment operation (Notification Required)
 - E. No abnormal conditions
- 0.024 Indicate which of the following defects are present on or around the structure. Select all that apply. (Enabled by 5.006 [A])
- A. Contamination from SCE equipment (Notification Required)
 - B. Unauthorized attachment (Notification Required)
 - C. 3rd party structure touching or surrounding SCE structure (Notification Required)
 - D. Burn marks or signs of exposure to fire
- 5.001 Indicate if any of the following types of structural damage are observed on the pole. Select all that apply. (Enabled by 5.006 [B])
- A. Fracture or buckling of exterior wall (Notification Required)
 - B. Visual cracks or rupture of exterior laminates or exterior wall exposing interior (Notification Required)
 - C. Pole embedded on soil/heavy ponding (water) (Notification Required)
 - D. Vandalism that affects the structural integrity (i.e. gun damage) (Notification Required)

Current List of Inspection Survey Questions

- E. Depth of embedment less than 10% + 1 feet of the pole height (Notification Required)
- F. Surface gouging on exterior greater than 2" length

5.003 Indicate if any of the following signs of overloading are observed on the pole. Select all that apply.
(Enabled by 5.006 [C])

- A. Excessive lean (approximately 10% or more of the pole height), caused by erosion of soil at groundline (Notification Required)
- B. Excessive lean not caused by erosion of soil (Notification Required)
- C. Leaning at the top of pole greater than approximately 5% of the height of the pole above ground with equipment (i.e. transformers, capacitors, etc.)
- D. Bowing of the pole at or near the mid-height due to from guys

POLES - STEEL (0.005A, 0.005B, 0.005C, 0.005D, 0.022, 0.027)

0.005A Does pole number in the app match the structure number on the structure that you are inspecting?

- A. No (Notification Required) (Enables 0.005C)
- B. Yes (Enables 0.005C)
- C. No structure number present (Enables 0.005C)
- D. Cannot access (Disables 0.005C)

0.005B Is the structure number the yellow and black style?

- A. Yes
- B. No
- C. No structure number present
- D. Cannot access

0.005C Does the structure number or tag require replacement? (Enabled by 0.005A [A,B,C]; Disabled by 0.005A [D])

- A. Yes
- B. No

0.005D Do visibility strips require replacement?

- A. Yes
- B. No
- C. Cannot access

0.022 If Non-Exempt material is present on the pole, is there at least 10 feet of clearance between vegetation and the base of the pole, up to 8 feet high? (Enabled by 0.021A [A,B,C,D,E] 0.021B [A,B,C], 0.021C [A,B], 0.021D [A,B], 0.021E[A,B])

- A. Yes
- B. No
- C. Defer question to SCE Inspector – Item outside of Contractor Scope of Work (Enabled by SV001 [B])

0.027 Which of the following generally describes the area surrounding the pole within 100 feet?

Current List of Inspection Survey Questions

- A. Vegetation (Disabled by SV001 [B])
- B. Residential or commercial area/structures
- C. Sand/dirt, gravel/rock, or water
- D. Concrete and/or pavement
- E. Debris, trash, or other combustible material
- F. Homeless encampment

17.001 Are any of the following structure conditions observed? Select all that apply.

- A. Defects on or around structure (unauthorized attachment, 3rd party structure, signs of burning/fire) (Enables 17.002)
- B. Structural failure (corrosion, denting/damage, anchor/foundation damage, mastarm out of plumb) (Enables 17.003)
- C. Pole lean (Enables 17.004)
- D. Animal nest with potential to contact energized component or interfere with equipment operation (Notification Required)
- E. No abnormal conditions

17.002 Indicate which of the following defects are present on or around the structure. Select all that apply. (Enabled by 17.001 [A])

- A. Unauthorized attachment (Notification Required)
- B. 3rd party structure touching or surrounding SCE structure (Notification Required)
- C. Burn marks or signs of exposure to fire

17.003 Indicate if any of the following types of structural failure are observed at this level. Select all that apply. (Enabled by 17.001 [B])

- A. Corrosion on pole or hardware
- B. Denting or damage to pole
- C. Damage to anchor bolts or foundation (Notification Required)
- D. Mastarm out of plumb

17.004 Indicate if the pole is showing any of the following signs of pole lean. (Enabled by 17.001 [C])

- A. Pole leaning - public hazard (Notification Required)
- B. Pole leaning more than 1 foot per 10 feet of pole height (Notification Required)
- C. Pole leaning less than 1 foot per 10 feet of pole height

POLES – TREE (0.005A, 0.005B, 0.005C, 0.005D, 0.022, 0.027)

0.005A Does pole number in the app match the structure number on the structure that you are inspecting?

- A. No (Notification Required) (Enables 0.005C)
- B. Yes (Enables 0.005C)
- C. No structure number present (Enables 0.005C)
- D. Cannot access (Disables 0.005C)

0.005B Is the structure number the yellow and black style?

- A. Yes
- B. No

Current List of Inspection Survey Questions

- C. No structure number present
- D. Cannot access

0.005C Does the structure number or tag require replacement? (Enabled by 0.005A [A,B,C]; Disabled by 0.005A [D])

- A. Yes
- B. No

0.005D Do visibility strips require replacement?

- A. Yes
- B. No
- C. Cannot access

0.022 If Non-Exempt material is present on the pole, is there at least 10 feet of clearance between vegetation and the base of the pole, up to 8 feet high? (Enabled by 0.021A [A,B,C,D,E] 0.021B [A,B,C], 0.021C [A,B], 0.021D [A,B], 0.021E[A,B])

- A. Yes (Disabled by SV001 [B])
- B. No (Disabled by SV001 [B])
- C. Defer question to SCE Inspector – Item outside of Contractor Scope of Work (Enabled by SV001 [B])

0.027 Which of the following generally describes the area surrounding the pole within 100 feet?

- A. Vegetation (Disabled by SV001 [B])
- B. Residential or commercial area/structures
- C. Sand/dirt, gravel/rock, or water
- D. Concrete and/or pavement
- E. Debris, trash, or other combustible material
- F. Homeless encampment

STREETLIGHT ONLY POLES - WOOD (0.005A, 0.005B, 0.005C, 0.005D, 0.008, 0.009, 0.022, 0.024, 0.027, 1.002, 1.004, 1.007, 1.008, 1.009)

0.005A Does pole number in the app match the structure number on the structure that you are inspecting?

- A. No (E2 Notification Required) (Enables 0.005C)
- B. Yes (Enables 0.005C)
- C. No structure number present (Enables 0.005C)
- D. Cannot access (Disables 0.005C)

0.005C Does the structure number or tag require replacement? (Enabled by 0.005A [A,B,C]; Disabled by 0.005A [D])

- A. Yes
- B. No

Current List of Inspection Survey Questions

0.005D Do visibility strips require replacement?

- A. Yes
- B. No
- C. Cannot access

0.022 If Non-Exempt material is present on the pole, is there at least 10 feet of clearance between vegetation and the base of the pole, up to 8 feet high? (Enabled by 0.021A [A,B,C,D,E] 0.021B [A,B,C], 0.021C [A,B], 0.021D [A,B], 0.021E[A,B])

- A. Yes (Disabled by SV001 [B])
- B. No (Disabled by SV001 [B])
- C. Defer question to SCE Inspector – Item outside of Contractor Scope of Work (Enabled by SV001 [B])

0.027 Which of the following generally describes the area surrounding the pole within 100 feet?

- A. Vegetation (Disabled by SV001 [B])
- B. Residential or commercial area/structures
- C. Sand/dirt, gravel/rock, or water
- D. Concrete and/or pavement
- E. Debris, trash, or other combustible material
- F. Homeless encampment

1.009 Are any of the following structure conditions observed? Select all that apply.

- A. Defects on or around structure (unauthorized attachments, 3rd party structures, burn marks) (Enables 0.024)
- B. Structural failure (holes, damage) (Enables 1.002)
- C. Construction faults (decay pockets, soil erosion) (Enables 1.004)
- D. Pole lean (Enables 1.007)
- E. Animal nests with potential to contact energized component or interfere with equipment operation (Notification Required)
- F. No abnormal conditions

0.024 Indicate which of the following defects are present on or around the structure. Select all that apply. (Enabled by 1.009 [A])

- A. Contamination from SCE equipment (Notification Required)
- B. Unauthorized attachment (Notification Required)
- C. 3rd party structure touching or surrounding SCE structure (Notification Required)
- D. Burn marks or signs of exposure to fire

1.002 Indicate if any of the following types of structural failure are observed at this level. Select all that apply. (Enabled by 1.009 [B])

- A. Hole approximately > 2 inches near through bolt (Notification Required)
- B. Three or more holes approximately >2 inch diameter, within approximately 18 inches vertical of a through bolt (Notification Required)
- C. Exterior damage approximately >2 inch depth and approximately > 1/4 pole circumference (Notification Required)
- D. Exterior damage approximately 1–2 inch depth and approximately > 1/4 pole circumference (Notification Required)

Current List of Inspection Survey Questions

- 1.004 Indicate if there are any of the following types of construction faults. Select all that apply.
(Enabled by 1.009 [C])
- A. Exposed decay pocket at ground line where part of shell is gone (Notification Required)
 - B. Evidence of soil erosion around base of pole (Notification Required)
- 1.007 Indicate if the pole is showing any of the following signs of pole lean. (Enabled by 1.009 [D])
- A. Pole leaning - public hazard (Notification Required)
 - B. Pole leaning more than 1 foot per 10 feet of pole height (Notification Required)
 - C. Pole leaning less than 1 foot per 10 feet of pole height

STREETLIGHT ONLY POLES - STEEL (0.005A, 0.005B, 0.005C, 0.005D, 0.022, 0.027, 17.001, 17.002, 17.003, 17.004)

- 0.005A Does pole number in the app match the structure number on the structure that you are inspecting?
- A. No (E2 Notification Required) (Enables 0.005C)
 - B. Yes (Enables 0.005C)
 - C. No structure number present (Enables 0.005C)
 - D. Cannot access (Disables 0.005C)
- 0.005C Does the structure number or tag require replacement? (Enabled by 0.005A [A,B,C]; Disabled by 0.005A [D])
- A. Yes
 - B. No
- 0.005D Do visibility strips require replacement?
- A. Yes
 - B. No
 - C. Cannot access
- 0.022 If Non-Exempt material is present on the pole, is there at least 10 feet of clearance between vegetation and the base of the pole, up to 8 feet high? (Enabled by 0.021A [A,B,C,D,E] 0.021B [A,B,C], 0.021C [A,B], 0.021D [A,B], 0.021E[A,B])
- A. Yes
 - B. No
 - C. Defer question to SCE Inspector – Item outside of Contractor Scope of Work (Enabled by SV001 [B])
- 0.027 Which of the following generally describes the area surrounding the pole within 100 feet?
- A. Vegetation (Disabled by SV001 [B])
 - B. Residential or commercial area/structures
 - C. Sand/dirt, gravel/rock, or water
 - D. Concrete and/or pavement
 - E. Debris, trash, or other combustible material
 - F. Homeless encampment

Current List of Inspection Survey Questions

- 17.001 Are any of the following structure conditions observed? Select all that apply.
- A. Defects on or around structure (unauthorized attachments, 3rd party structures, burn marks) (Enables 17.002)
 - B. Structural failure (corrosion, denting/damage, anchor/foundation damage, mastarm out of plumb) (Enables 17.003)
 - C. Pole lean (Enables 17.004)
 - D. Animal nests with potential to contact energized component or interfere with equipment operation (Notification Required)
 - E. No abnormal conditions
- 17.002 Indicate which of the following defects are present on or around the structure. Select all that apply. (Enabled by 17.001 [A])
- A. Unauthorized attachment (Notification Required)
 - B. 3rd party structure touching or surrounding SCE structure (Notification Required)
 - C. Burn marks or signs of exposure to fire
- 17.003 Indicate if any of the following types of structural failure are observed at this level. Select all that apply. (Enabled by 17.001 [B])
- A. Corrosion on pole or hardware
 - B. Denting or damage to pole
 - C. Damage to anchor bolts or foundation
 - D. Mastarm out of plumb
- 17.004 Indicate if the pole is showing any of the following signs of pole lean. (Enabled by 17.001 [C])
- A. Pole leaning - public hazard (Notification Required)
 - B. Pole leaning more than 1 foot per 10 feet of pole height (Notification Required)
 - C. Pole leaning less than 1 foot per 10 feet of pole height

STREETLIGHT ONLY POLES - CONCRETE (0.005A, 0.005B, 0.005C, 0.005D, 0.022, 0.027, 18.001, 18.002, 18.003)

- 0.005A Does pole number in the app match the structure number on the structure that you are inspecting?
- A. No (E2 Notification Required) (Enables 0.005C)
 - B. Yes (Enables 0.005C)
 - C. No structure number present (Enables 0.005C)
 - D. Cannot access (Disables 0.005C)
- 0.005C Does the structure number or tag require replacement? (Enabled by 0.005A [A,B,C]; Disabled by 0.005A [D])
- A. Yes
 - B. No

Current List of Inspection Survey Questions

0.005D Do visibility strips require replacement?

- A. Yes
- B. No
- C. Cannot access

0.022 If Non-Exempt material is present on the pole, is there at least 10 feet of clearance between vegetation and the base of the pole, up to 8 feet high? (Enabled by 0.021A [A,B,C,D,E] 0.021B [A,B,C], 0.021C [A,B], 0.021D [A,B], 0.021E[A,B])

- A. Yes
- B. No
- C. Defer question to SCE Inspector – Item outside of Contractor Scope of Work (Enabled by SV001 [B])

0.027 Which of the following generally describes the area surrounding the pole within 100 feet?

- A. Vegetation (Disabled by SV001 [B])
- B. Residential or commercial area/structures
- C. Sand/dirt, gravel/rock, or water
- D. Concrete and/or pavement
- E. Debris, trash, or other combustible material
- F. Homeless encampment

18.001 Are any of the following structure conditions observed? Select all that apply.

- A. Defects on or around structure (unauthorized attachments, 3rd party structures, burn marks) (Enables 18.002)
- B. Structural damage (Fracture, buckling, cracks, exterior damage) (Enables 18.003)
- C. Damage to Anchor Bolts or foundation (Notification Required)
- D. Animal nest with potential to contact energized component or interfere with equipment operation (Notification Required)
- E. No abnormal conditions

18.002 Indicate which of the following defects are present on or around the structure. Select all that apply. (Enabled by 18.001[A])

- A. Unauthorized attachment (Notification Required)
- B. 3rd party structure touching or surrounding SCE structure (Notification Required)
- C. Burn marks or signs of exposure to fire

18.003 Indicate if any of the following types of structural damage are observed on the pole. Select all that apply. (Enabled by 18.001 [B])

- A. Fracture or buckling of exterior wall (Notification Required)
- B. Visual cracks or rupture of exterior surface exposing interior (Notification Required)
- C. Vandalism that affects the structural integrity (i.e. gun damage) (Notification Required)

Current List of Inspection Survey Questions

DOWN GUYS (0.014F, 13.001A, 13.002, 13.004, 13.005, 13.006, 13.007, 13.008, 13.009, 13.010, 13.012, 13.013, 13.014)

0.014F How many SCE down guys are installed on this structure?

A. Answer choices will be 1-10

13.004 Are any of the following down guy conditions observed? Select all that apply.

- A. Damage (broken, missing, loose, guys, hardware or anchors) (Enables 13.001A)
- B. Inadequate clearance (Enables 13.002)
- C. Sag or extreme slack (Notification Required)
- D. No abnormal conditions

13.001A Indicate if any of the following types of damage to SCE distribution down guys are observed. Select all that apply. (Enabled by 13.004 [A])

- A. Guys broken/damaged, pole leaning, public hazard (Notification Required)
- B. Guys missing, pole leaning, public hazard (Notification Required)
- C. Guys broken/damaged, pole not leaning (Notification Required)
- D. Guys missing, pole not leaning (Notification Required)
- E. Anchor rods broken/corroded, pole leaning, public hazard (Notification Required)
- F. Anchor rods missing, pole leaning, public hazard (Notification Required)
- G. Anchor rods broken/corroded, pole not leaning (Notification Required)
- H. Anchor rods missing, pole not leaning (Notification Required)
- I. One or more anchor rods not visible (e.g. buried, obstructed, etc.), unable to determine condition

13.002 Is there inadequate clearance between down guy and any of the following? Select all that apply. (Enabled by 13.004 [B])

- A. SCE Energized components (Notification Required)
- B. SCE non-energized electrical components (Notification Required)
- C. Communication facilities
- D. Other

13.006 Which of the following SCE distribution down guy anchor types exist? Select all that apply.

- A. 3 Eye (Enables 13.007, 13.008)
- B. 2 Eye (Enables 13.010)
- C. 1 Eye (Enables 13.011)
- D. Buried (Enables 13.012)
- E. Extension rod (Enables 13.013)
- F. No anchor present
- G. Other (comment) (Enables 13.014)
- H. Unable to determine

13.007 Quantity of 3 Eye anchors (Enabled by 13.006 [A])

A. Answer choices will be 1-10

Current List of Inspection Survey Questions

13.008 Indicate the type for all 3 Eye Anchors by identifying the stamp or construction configuration.
Select all that apply. (Enabled by 13.006 [A])

- A. C-1¼-10
- B. C-1-10
- C. C-1¼
- D. C-Rock Anchor
- E. D
- F. M26
- G. J
- H. K Triple Eye (K Trip)
- I. M
- J. PISA (Enables 13.009)
 - PHOTO: Capture a picture of each distribution guy anchor.
- K. Unable to determine – no stamp
- L. Unable to determine – stamp altered/tampered
- M. Unable to determine – stamp unreadable
- N. Unable to determine – no access to anchor

13.009 Is there truck access to the PISA anchors at the time of inspection: (Enabled by 13.008 [J])

- A. Yes, truck access exists
- B. No, truck access is not possible
- C. Unsure, but truck access may be possible
- D. Unable to determine

13.010 Quantity of 2 Eye anchors (Enabled by 13.006 [B])

- A. Answer choices will be 1-10

13.011 Quantity of 1 Eye anchors (Enabled by 13.006 [C])

- A. Answer choices will be 1-10

13.012 Quantity of buried anchors (Enabled by 13.006 [D])

- A. Answer choices will be 1-10

13.013 Quantity of anchor extension rods (Enabled by 13.006 [E])

- A. Answer choices will be 1-10

13.014 Quantity of other anchors (Enabled by 13.006 [G])

- A. Answer choices will be 1-10
 - PHOTO: Capture a picture of each distribution guy anchor. Include any stamp/marking if visible.

Current List of Inspection Survey Questions

RISERS/TERMINATIONS (14.003)

14.003 Indicate if any of the following Riser conditions are observed on the structure. Select all that apply or select "No abnormal conditions".

- A. Cables in Riser exposed (Notification Required)
- B. Riser broken (Notification Required)
- C. Riser swollen (Notification Required)
- D. In contact with animal nest (Notification Required)
- E. Non-Schedule 80 Riser installed
- F. No abnormal conditions