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July 10, 2025

VIA ELECTRONIC FILING

Docket # 2024 NOV

Patrick Doherty
Program Manager, Compliance Assurance Division
Office of Energy Infrastructure Safety
715 P Street, 20th Floor
Sacramento, CA 95814

**RE: San Diego Gas & Electric Company's Response to Notice of Violation –
NOV_CAD_SDGE_SIS_20250409_1225**

Dear Program Manager Doherty:

San Diego Gas & Electric Company (SDG&E) provides this response to the finding identified in the Notice of Violation "NOV_CAD_SDGE_SIS_20250409_1225" (Notice of Violation or NOV) issued by the Office of Energy Infrastructure Safety's (Energy Safety) on June 10, 2025 regarding Energy Safety's inspection of work completed by SDG&E in accordance with its 2024 Wildfire Mitigation Plan (WMP). Specifically, the NOV describes that on April 9, 2025, Energy Safety conducted an inspection of SDG&E's WMP initiatives in the vicinity of the city of Fallbrook, California and found the following violations:

Violation 1. Energy Safety observed that in implementing 2024 WMP initiative 8.1.2.10.1 – Avian Protection Program (WMP.972), SDG&E failed to complete the avian protection installation on Pole ID P716000, Grid Hardening ID 530000315834-P716000, at coordinates 33.3873725299519, -117.148328339173. Energy Safety considers this completeness violation to be in the Minor risk category.

Violation 2. Energy Safety observed that in implementing 2024 WMP initiative 8.1.4.6 – Lightning Arrester Removal and Replacement (WMP.550), SDG&E failed to complete the lightning arrester installation on Pole ID P716000, Grid Hardening ID 530000315834-P716000, at coordinates 33.3873725299519, -117.148328339173. Energy Safety considers this completeness violation to be in the Minor risk category.

SDG&E is not requesting a written hearing for the findings addressed in this response; however, SDG&E reserves the right to raise these points in subsequent procedural stages and/or proceedings as necessary. Further, although Energy Safety has the right to refer certain notices to the California Public Utilities Commission for enforcement action, the findings in this notice do

not merit referral, as there is inadequate support for a finding that SDG&E has failed to substantially comply with its approved WMP.¹

I. SDG&E RESPONSE

A. Violation 1 – Failure to Complete Avian Protection Installation

Upon investigating this NOV, SDG&E found that avian protection is present at P716000 and was installed on September 13, 2024. The installation of avian protection was in accordance with SDG&E's Electric Overhead Construction Standards (Drawing No. OH1620.1), which is being provided as Attachment A. SDG&E also provides Figure 1 below with mark-ups showing the installation of avian protection consistent with SDG&E's standards. Lastly, SDG&E is providing the as built for the installation of avian protection at P716000 as Attachment B.

Figure 1



B. Violation 2 – Failure to Complete Lightning Arrester Installation

Although Cal Fire approved lightning arrestors were installed on September 13, 2024 at this site, the crew failed to install the corresponding bushing covers. SDG&E resolved this violation by installing the bushing covers on P716000 on July 7, 2025. Please refer to the two photos below (Figures 2 and 3).

¹ See Pub. Util. Code §8386.1.

Figure 2



Figure 3



II. CONCLUSION

SDG&E appreciates Energy Safety's continued efforts to identify, communicate, and work together to promote wildfire safety throughout California.

Respectfully submitted,

/s/ Laura M. Fulton

Attorney for
San Diego Gas and Electric Company

Attachment A

SDG&E Electric Overhead Construction Standards Related to Avian Protection

SCOPE: THIS STANDARD REFERENCES THE DESIGNATED AVIAN PROTECTION CRITICAL AREAS AND THOSE STANDARDS AND PUBLICATIONS WHICH PROVIDE GUIDANCE FOR THE APPLICATION OF AVIAN SAFE CONSTRUCTION.

THE SAN DIEGO GAS AND ELECTRIC AVIAN PROTECTION PLAN (APP) WAS APPROVED AND IMPLEMENTED IN JANUARY 2005. THE APP WAS DEVELOPED IN A PARTNERSHIP BETWEEN THE DEPARTMENTS OF LAND PLANNING AND NATURAL RESOURCES AND ELECTRIC DISTRIBUTION ENGINEERING AND STANDARDS.

FOLLOWING THIS PLAN ASSURES THAT SDG&E IS IN COMPLIANCE WITH ITS 50 YEAR ENVIRONMENTAL PERMIT AND FEDERAL LAWS THAT PROTECT BOTH RAPTORS AND ALL MIGRATORY BIRDS.

THE PLAN INCLUDES THE FOLLOWING:

- INTRODUCTION
- AVIAN PROTECTION CONSIDERATIONS
- METHODS OF AVIAN PROTECTION
- PLAN IMPLEMENTATION AND FUTURE MANAGEMENT ACTIONS
- ANOTHER DOCUMENT, THE "AVIAN PROTECTION PROCEDURES MANUAL" WAS DEVELOPED AS A GUIDE FOR THE OPERATING DISTRICTS AND CONTAINS THE FOLLOWING:
- INTRODUCTION
- PROCEDURES FOR INJURED OR DECEASED BIRDS
- PROCEDURES FOR NESTING BIRDS
- MODIFICATION OF EXISTING FACILITIES
- POWERLINE PLANNING PERSONNEL TRAINING
- WITHIN THESE CONSTRUCTION STANDARDS, YOU WILL FIND GUIDANCE FOR THE FOLLOWING:
- APP CRITICAL AREAS
- AVIAN MORTALITY REPORTING
- PIN AND INSULATOR COVER-UP DEVICES FOR AVIAN PROTECTION
- TRANSFORMER COVER-UP DEVICES FOR AVIAN PROTECTION
- LIGHTNING ARRESTER AND CUTOUT COVER-UP DEVICES FOR AVIAN PROTECTION
- CROSSARM CONSTRUCTION - 3-WIRE TANGENT AVIAN SAFE CONSTRUCTION

- OVERHEAD PROJECTS THAT INCLUDE KNOWN AVIAN NESTING ON DISTRIBUTION STRUCTURES MUST COORDINATE WITH ENVIRONMENTAL SERVICES EARLY IN DESIGN PROCESS AND INCLUDE AVIANTEAM@SEMPRAUTILITIES.COM IN JOB WALKS TO IDENTIFY THE SPECIES, NESTING PATTERNS, AND THE OVERHEAD STANDARD THAT CAN BEST MITIGATE ELECTRICAL CONTACTS

AVIAN PROTECTION PLAN (APP) CRITICAL AREAS:

AREA	DESCRIPTION	AREA	DESCRIPTION
APP-1	CAMP PENDLETON	APP-10	SAN FELIPE VALLEY, VOLCAN MOUNTAIN - EAST
APP-2	DEL DIOS, HARMONY GROVE, LAKE HODGES, SAN DIEGUITO CREEK	APP-11	GRAPEVINE CANYON, RANCHITA, YAQUI WELLS
APP-3	PAUMA VALLEY, RINCON	APP-12	MESCAL BAJADA, YAQUI MEADOWS, YAQUI PASS
APP-4	MESA GRANDE, MORETTIS JUNCTION	APP-13	BORREGO VALLEY
APP-5	CHIHUAHUA VALLEY, DAMERON VALLEY, OAK GROVE VALLEY	APP-14	BARONA MESA, BARONA VALLEY
APP-6	LAKE HENSHAW, PUERTA LA CRUZ, SAN JOSE DEL VALLE, SAN YSIDRO VALLEY, VOLCAN MOUNTAIN -NORTHEAST, WARNER SPRINGS	APP-15	EL CAPITAN RESERVOIR
APP-7	BALLENA VALLEY, SAN TERESA VALLEY, LAKE SUTHERLAND	APP-16	CREST, HARBISON CANYON, SYCUAN INDIAN RESERVATION
APP-8	SANTA YSABEL, WITCH CREEK, WYNOLA	APP-17	DULZURA, ENGINEER SPRINGS
APP-9	BANNER, HARRISON PARK, JULIAN, PINE HILLS	APP-18	BARRETT JUNCTION, BARRETT LAKE, HAUSER CANYON, POTRERO
		APP-19	CORTE MADERA VALLEY, LONG VALLEY
		APP-20	BOULDER OAKS, CAMERON SPRINGS, CAMPO, MORENA VILLAGE

APP-21	MC CAIN VALLEY	APP-27	MISSION GORGE, MURPHY CANYON, SPRING CANYON,
APP-22	BOULEVARD, LIVE OAK SPRINGS, MANZANITA	APP-28	SYCAMORE CANYON - WEST
APP-23	BOULDER PEAK, JACUMBA VALLEY	APP-29	PALA, COUSER CANYON
APP-24	CARRIZO VALLEY, VALLECITO VALLEY	APP-30	SAN PASQUAL
APP-25	BORDER FIELD STATE PARK	APP-31	RAMONA, RAMONA GRASSLANDS
APP-26	OTAY MESA, OTAY RIVER VALLEY	APP-32	MIRAMAR, PENASQUITOS, ROSE CANYON,
	BEELER CANYON		SAN CLEMENTE CANYON
AREA	DESCRIPTION	AREA	DESCRIPTION
APP-7	BALLENA VALLEY	APP-12	MESCAL BAJADA
APP-9	BANNER	APP-28	MIRAMAR
APP-14	BARONA MESA	APP-20	MISSION GORGE
APP-14	BARONA VALLEY	APP-4	MORENA VILLAGE
APP-18	BARRETT JUNCTION	APP-28	MORETTIS JUNCTION
APP-18	BARRETT LAKE	APP-28	MURPHY CANYON
APP-27	BEELER CANYON	APP-5	OAK GROVE VALLEY
APP-25	BORDER FIELD STATE PARK	APP-26	OTAY MESA
APP-13	BORREGO VALLEY	APP-26	OTAY RIVER VALLEY
APP-23	BOULDER PEAK	APP-3	PALA
APP-20	BOULDER OAKS	APP-3	PAUMA VALLEY
APP-22	BOULEVARD	APP-32	PENASQUITOS
APP-20	CAMERON SPRINGS	APP-9	PINE HILLS
APP-20	CAMPO	APP-18	POTRERO
APP-1	CAMP PENDLETON	APP-6	PUERTA LA CRUZ
APP-24	CARRIZO VALLEY	APP-31	RAMONA
APP-5	CHIHUAHUA VALLEY	APP-31	RAMONA GRASSLANDS
APP-19	CORTE MADERA VALLEY	APP-11	RANCHITA
APP-29	COUSER CANYON	APP-3	RINCON
APP-16	CREST	APP-32	ROSE CANYON
APP-5	DAMERON VALLEY	APP-32	SAN CLEMENTE CANYON
APP-2	DEL DIOS	APP-2	SAN DIEGUITO CREEK
APP-17	DULZURA	APP-10	SAN FELIPE VALLEY
APP-15	EL CAPITAN RESERVOIR	APP-6	SAN JOSE DEL VALLE
APP-17	ENGINEER SPRINGS	APP-30	SAN PASQUAL
APP-11	GRAPEVINE CANYON	APP-8	SANTA YSABEL
APP-16	HARBISON CANYON	APP-7	SAN TERESA VALLEY
APP-2	HARMONY GROVE	APP-6	SAN YSIDRO VALLEY
APP-9	HARRISON PARK	APP-28	SPRING CANYON
APP-9	HAUSER CANYON	APP-28	SYCAMORE CANYON
APP-23	JACUMBA VALLEY	APP-16	SYCUAN INDIAN RESERVATION
APP-9	JULIAN	APP-24	VALLECITO VALLEY
APP-6	LAKE HENSHAW	APP-10	VOLCAN MOUNTAIN - EAST
APP-2	LAKE HODGES	APP-6	VOLCAN MOUNTAIN - N/E
APP-7	LAKE SUTHERLAND	APP-6	WARNER SPRINGS
APP-22	LIVE OAK SPRINGS	APP-8	WITCH CREEK
APP-19	LONG VALLEY	APP-8	WYNOLA

REV	CHANGE	DRWN	BY	CHKD	APVD	DATE	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS		SCALE: NOT TO SCALE
D	SCOPE UPDATE	ARC	RSL	GRW	KRG	04/07/2023	AVIAN PROTECTION - GENERAL		DRAWING NO:
C	REVISED TO 3D FORMAT	ARC	JKK	-	-	06/14/2022			OH1610.1
B	DRAWING UPDATE	-	PEI	-	-	01/15/2019			1 OF 2
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							Information Removed		

<div><div><div>AREADESCRIPTION</div><div>APP-22MANZANITA</div><div>APP-21MC CAIN VALLEY</div><div>APP-4MESA GRANDE</div></div><div><div>AREADESCRIPTION</div><div>APP-12YAQUI MEADOWS</div><div>APP-12YAQUI PASS</div><div>APP-11YAQUI WELLS</div></div></div>																									
										SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										SCALE: NOT TO SCALE					
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																				OH1610.2		2 OF 2			
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SCOPE: THIS STANDARD OUTLINES THE REQUIREMENT AND PROCEDURE FOR REPORTING ALL AVIAN MORTALITIES.

REPORTING REQUIREMENT

WHEN A DEAD OR INJURED BIRD IS FOUND NEAR OR ON SDG&E EQUIPMENT AND FACILITIES (E.G. POLES, TOWERS, SUBSTATIONS) AN AVIAN MORTALITY REPORT (AMR) WITH DIGITAL PHOTOS MUST BE COMPLETED AND FORWARDED TO THE SDG&E ENVIRONMENTAL PROGRAMS, BIOLOGICAL RESOURCES (EPBR) BIOLOGIST WITHIN 24 HOURS.

REPORTING PROCEDURE

IDENTIFY THE SPECIES IF POSSIBLE, ESPECIALLY TO DETERMINE WHETHER OR NOT THE BIRD IS AN EAGLE. WHENEVER THERE IS DOUBT, CONTACT EPBR FOR GUIDANCE. FOR ALL BIRD MORTALITIES, TAKE A CLOSE-UP DIGITAL PHOTO OF THE BIRD FOR IDENTIFICATION PURPOSES.

ALWAYS INCLUDE A COMMONLY KNOWN OBJECT IN YOUR PHOTO (E.G. PENCIL, LIGHTER, KEYS, ETC.) FOR SIZE REFERENCE. USE A RULER OR TAPE MEASURE IF THE NUMBERS ARE LARGE ENOUGH TO SHOW IN THE PHOTO. IF A BIRD CARCASS IS DAMAGED BEYOND RECOGNITION, TAKE A CLOSE-UP PHOTO OF BOTH THE TALONS AND THE BEAK. ALWAYS TAKE A PHOTO OF THE TOP OF THE POLE OR STRUCTURE WHERE THE BIRD MADE CONTACT. THIS WILL HELP IDENTIFY WHAT TYPE OF RETROFIT IS NECESSARY TO MAKE THAT STRUCTURE AVIAN SAFE. SEND ALL PHOTOS WITH THE AMR TO THE PRIMARY SDG&E CONTACT(S) WITHIN 24 HOURS. COMPLETE AN AVIAN MORTALITY REPORT FORM. THIS REPORT FORM IS AVAILABLE ON THE ENVIRONMENTAL SERVICES WEBSITE. CLICK HERE FOR THE FORM AND CONTACT INFORMATION. FILL OUT THE REPORT FORM AS COMPLETELY AS POSSIBLE. SUBMIT THIS REPORT FORM, WITH PHOTOS OF BOTH THE INJURED OR DEAD BIRD, AND THE POLE OR STRUCTURE, TO THE SDG&E EPBR BIOLOGIST WITHIN 24 HOURS AFTER THE CONTACT IS DISCOVERED AND RECORDED.

FOR DISPOSAL INSTRUCTIONS OF ANY DEAD BIRD, CONTACT EPBR. **DO NOT TRANSPORT ANY DEAD BIRDS WITHOUT**

AUTHORIZATION.

INSTALLATION: NONE

BILL OF MATERIALS: NONE

NOTES :

- I. IF YOU HAVE ANY QUESTIONS ABOUT THESE REPORTING PROCEDURES, OR, ARE UNSURE ABOUT ANY ACTION THAT YOU MAY NEED TO TAKE CONCERNING AVIAN MORTALITY REPORTING, PLEASE CALL ONE OF THE CONTACTS LISTED IN THIS CONSTRUCTION STANDARD.
- II. IF THE BIRD IS INJURED, OR, YOU OBSERVE THE PRESENCE OF A LEG BAND OR WING MARKER, CONTACT THE SDG&E EPBR BIOLOGIST IMMEDIATELY. EAGLES (INCLUDES GOLDEN, BALD AND OSPREY) EXIST WITHIN SDG&E SERVICE TERRITORY, AND AN EAGLE ELECTROCUTION COULD OCCUR ON OUR LINES OR FACILITIES. ADULT EAGLES RANGE ANYWHERE FROM 30" TO 40" IN LENGTH AND HAS A 78" TO 84" WINGSPAN. IF AN EAGLE IS ELECTROCUTED, EPBR MUST BE CONTACTED IMMEDIATELY AND SPECIAL ARRANGEMENT MUST BE MADE FOR TRANSPORT OF THE BIRD.
- III. **IT IS ILLEGAL TO TRANSPORT EAGLES IN THE U.S.** CALL THE EPBR BIOLOGIST IMMEDIATELY. YOU WILL BE GIVEN GUIDANCE ON THE NEXT COURSE OF ACTION TO TAKE. **DO NOT TRANSPORT ANY EAGLE UNLESS AUTHORIZED BY EPBR.**

REFERENCE:

- a. THE BALD AND GOLDEN EAGLE PROTECTION ACT (16 U.S.C. 668-668C)
- b. THE MIGRATORY BIRD TREATY ACT (16 U.S.C. 703-712)
- c. SDG&E STANDARD PRACTICE 147 "AVIAN MORTALITY REPORTING PROCEDURE".

REV

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SCOPE: THIS STANDARD ILLUSTRATES THE INSTALLATION OF AVIAN PROTECTION COVER-UP DEVICES FOR PIN AND INSULATOR CONSTRUCTION WITH BARE CONDUCTOR.

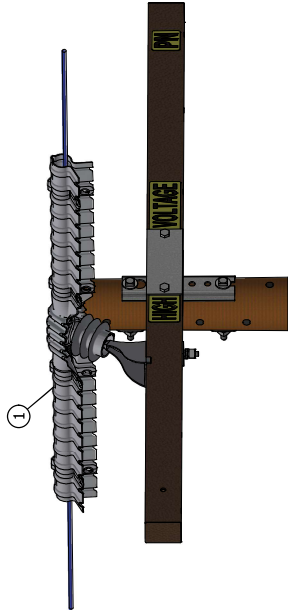


FIGURE 1

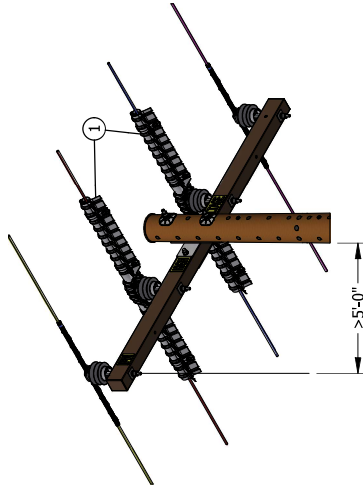


FIGURE 2 (A) (B) (C) (II) (III)

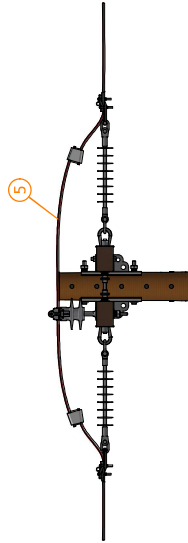


FIGURE 3 (III)

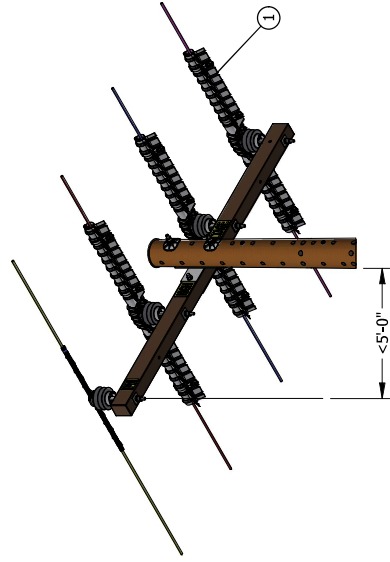


FIGURE 4 (C) (II)



FIGURE 5

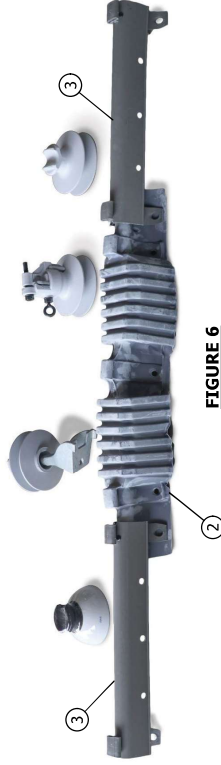


FIGURE 6

REV	CHANGE	DRWN	BY	CHKD	APVD	DATE		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS			SCALE: NOT TO SCALE	
H	EDITORIAL CHANGES	INV5	SPC	MRF	MRF	04/23/2025		PIN AND INSULATOR COVER-UP DEVICES FOR AVIAN PROTECTION				
G	REVISED TO 3D FORMAT/ EDITORIAL CHANGES	ARC	SPC	MRF	KRG	06/16/2023						
F	FIGURE UPDATE	EDM	JIK	JES	CZH	10/01/2021						
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INSTALLATION:

- (A) THE REQUIRED MINIMUM DISTANCE OF UNCOVERED PRIMARY LINE CONDUCTOR PHASE-TO-PHASE, PHASE-TO-GROUND OR PHASE-TO-NEUTRAL IS 60 INCHES.
- (B) DOUBLE ARMS: WHEN A DOUBLE P/I COVER WILL NOT SUFFICE, TWO SINGLE COVERS MAY BE UTILIZED AND TRIMMED TO FIT.
- (C) ON STEEL POLES THE NEUTRAL CONDUCTOR DOES NOT NEED TO BE COVERED.
- (D) USE FOUR S532418 PINS PER COVER WHEN INSTALLING ON #4 OR SMALLER CONDUCTOR.

BILL OF MATERIALS:

ITEM	DESCRIPTION	QUANTITY	STANDARD PAGE	STOCK NUMBER	DESIGN UNIT
1	COVER, INSULATOR, TANGENT, SIDE TIE	AS REQ'D	-	S289672	PIRM
2	COVER, DOUBLE INSULATOR	AS REQ'D	-	S289654	DBLVPI
3	COVER, EXTENSION ARM, FOR INSULATOR COVER	AS REQ'D	-	S289660	EXACVR
4	COVER, AVIAN, CAPACITOR, SENSOR	AS REQ'D	-	S289606	LOVMI
5	COVER, WIRE	AS REQ'D	711	-	-

NOTES:

- I. THESE COVER-UP DEVICES ARE FOR INCIDENTAL WILDLIFE CONTACT ONLY. THEY ARE NOT RATED PERSONAL PROTECTION AND SHOULD BE TREATED AS A BARE WIRE.
 - II. FOR STEEL POLE CONSTRUCTION COVER ALL CONDUCTORS ON 10-FOOT CROSSARMS OR LESS AND FOR 12-FOOT AND 15-FOOT CROSSARMS, COVER ONLY THE INSIDE CONDUCTORS.
 - III. WHEN PRACTICAL, REPLACE JUMPERS WITH COVERED JUMPER WIRE IN LIEU OF INSTALLING AVIAN PROTECTIVE COVERS.
 - IV. SIZE AS REQUIRED WITH MINIMUM SIZE EQUAL TO LINE CONDUCTOR AMPACITY OR GREATER.
 - V. SIZE AND/OR TYPE MAY VARY DEPENDING UPON SPECIFIC DESIGN NEEDS.
- REFERENCE:**
- a. SEE OH1610 FOR AVIAN PROTECTION - GENERAL.
 - b. SEE OH1630 FOR AVIAN COVER-UP PROTECTION AND TRANSFORMER LEAD WIRES.

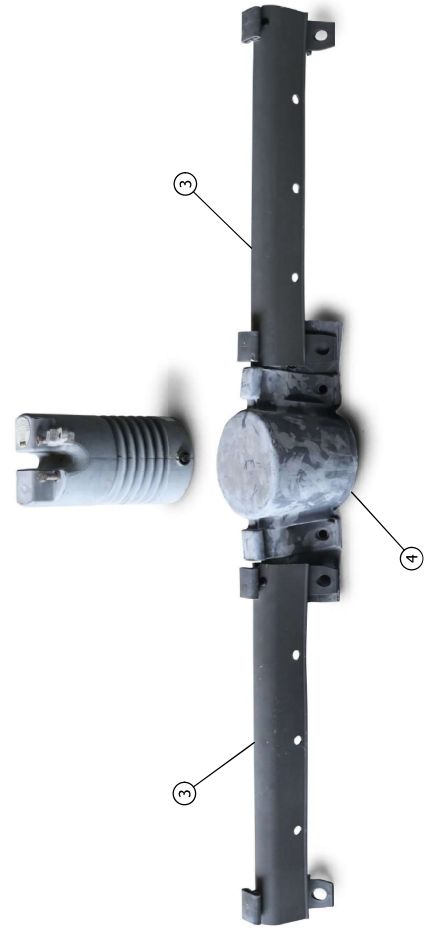


FIGURE 7

REV	CHANGE	DRWN	BY	CHKD	APVD	DATE	SDGE	
H	EDITORIAL CHANGES	INV5	SPC	MRF	MRF	04/23/2025		
G	REVISED TO 3D FORMAT/ EDITORIAL CHANGES	ARC	SPC	MRF	KRG	06/16/2023		
F	FIGURE UPDATE	EDM	JIK	JES	CZH	10/01/2021		

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				SCALE: NOT TO SCALE	
PIN AND INSULATOR COVER-UP DEVICES FOR AVIAN PROTECTION				DRAWING NO:	SHEET:
				OH1620.2	2 OF 2

Indicates Latest Revision Completely Revised New Page Information Removed

SCOPE: THIS STANDARD ILLUSTRATES THE INSTALLATION OF AVIAN PROTECTION COVER UP FOR BOTH SINGLE-PHASE AND THREE-PHASE TRANSFORMER CONSTRUCTION IN AVIAN PROTECTION CRITICAL AREAS AND FOR ALL NEW TRANSFORMER INSTALLATIONS.

CAUTION:

* THIS COVER UP METHOD IS FOR INCIDENTAL WILDLIFE CONTACT ONLY. THEY ARE NOT RATED FOR PERSONAL PROTECTION AND SHOULD BE TREATED AS ENERGIZED CONDUCTORS.

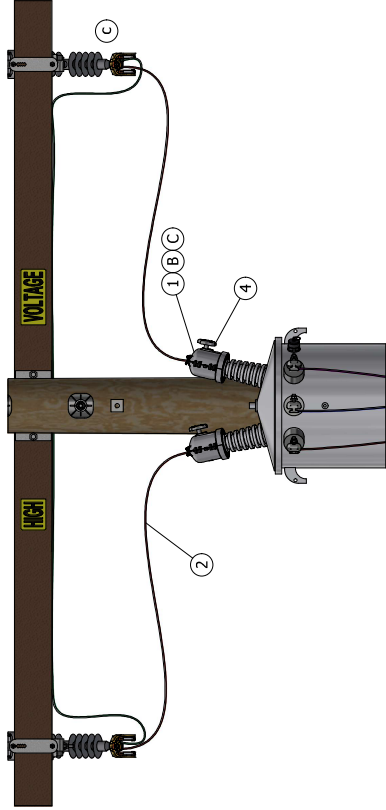


FIGURE 1
SINGLE-PHASE (C)

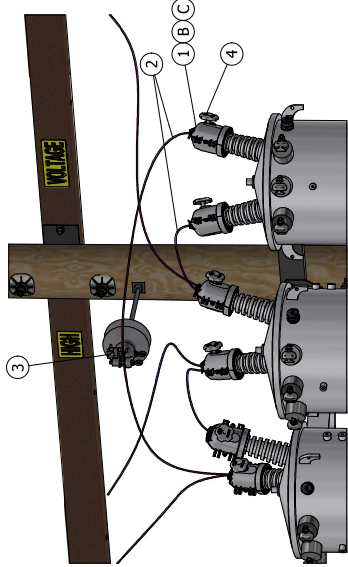


FIGURE 2
THREE-PHASE

INSTALLATION:

- THE REQUIRED MINIMUM DISTANCE OF UNCOVERED CONDUCTOR PHASE-TO-PHASE, PHASE-TO-NEUTRAL, OR PHASE-TO-GROUND IS 60 INCHES.
- THE JUMPER WIRE SHALL BE SECURED USING THE EYEBOLT TIGHTENING NUT, WHILE THE HAND WHEEL SHALL THREAD ONTO THE REMAINING THREADS. IF THERE ARE NOT ENOUGH THREADS REMAINING, THE EYEBOLT TIGHTENING NUT SHALL BE REPLACED WITH THE HANDWHEEL AND HAND TIGHTENED ONLY.
- USE SELF FUSING SILICONE TAPE (SQUIRREL TAPE) FOR COVERING HIGH VOLTAGE CONNECTIONS. FOR DIFFICULT TO COVER TERMINATIONS OR WHEN NO COVER IS AVAILABLE, LAYER TAPE PER MANUFACTURERS INSTRUCTIONS, **BLACK ELECTRICAL TAPE** MAY BE APPLIED OVER THE SQUIRREL TAPE IF NECESSARY.

BILL OF MATERIALS:


ITEM	DESCRIPTION	CALLOUTS	QUANTITY	STANDARD	PAGE	STOCK NUMBER	DESIGN UNITS
1	COVER, BUSHING, TRANSFORMER, ARRESTER	(X) (1) (00)	AS REQ'D	-	-	528670	-
2	HENDRIX TAP WIRE #/4	-	AS REQ'D	711	-	-	-
3	INSULATOR, VISE TOP PIN	-	AS REQ'D	750	-	-	-
4	HANDWHEEL, BUSHING, TRANSFORMER	(1)	AS REQ'D	-	-	5402440	BCH
5	TAPE, SELF FUSING, GRAY, 1" X 36"	(1) (X)	AS REQ'D	-	-	5721736	-
	TAPE, SELF FUSING, GRAY, 2" X 36"	(1) (X)	AS REQ'D	-	-	5721738	-

NOTES:

- TO BE USED ONLY WHEN THE FACTORY BUSHING COVER IS MISSING ON NEW EQUIPMENT OR FOR MAINTENANCE WHEN IT BLOWS OFF.
- INDIVIDUAL BUSHING COVERS AND HANDWHEELS SHOULD BE CONSIDERED DEPENDING ON SPECIFIC LOCATION CONSTRAINTS.
- ALSO FOR LIGHTNING ARRESTERS.
- NOT SHOWN IN FIGURES.
- THIS ITEM IS EXEMPT.

REFERENCE:

- SEE OH1610 FOR AVIAN PROTECTION - GENERAL OR GO TO LAND SERVICES GEOGRAPHIC INFORMATION SYSTEMS (LS-GIS) FOR MAPPING LAYER TITLED "AVIAN AREA" UNDER ENVIRONMENTAL.
- SEE OH1620 FOR PIN AND INSULATOR COVER-UP DEVICES FOR AVIAN PROTECTION.
- SEE OH1640 FOR LIGHTNING ARRESTER AND CUTOFF COVER-UP DEVICES FOR AVIAN PROTECTION.

REV	CHANGE	DRWN	BY	CHKD	APVD	DATE		
F	REVISED TO 3D FORMAT/ EDITORIAL CHANGES	INV5	SPC	MRF	MRF	12/06/2024		
E	TABLE UPDATE	EDM	RSL	JES	FRC	02/14/2022		
D	TABLE UPDATE	EDM	GLW	JES	CZH	09/14/2020		

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				SCALE: NOT TO SCALE	
AVIAN COVER-UP PROTECTION AND TRANSFORMER LEAD WIRES				DRAWING NO:	SHEET:
				OH1630.1	1 OF 1
				Completely Revised	New Page
				Information Removed	

SCOPE: THIS STANDARD ILLUSTRATES THE INSTALLATION OF AVIAN PROTECTION COVER-UP DEVICES FOR BOTH LIGHTNING

ARRESTERS, CUTOUTS AND DISCONNECTS. ALL LIGHTNING ARRESTERS REQUIRE COVER-UP. (C)

ATTENTION:

* THESE COVER-UP DEVICES ARE FOR INCIDENTAL WILDLIFE CONTACT ONLY. THEY ARE NOT RATED FOR PERSONAL PROTECTION AND SHOULD BE TREATED AS BARE WIRE.

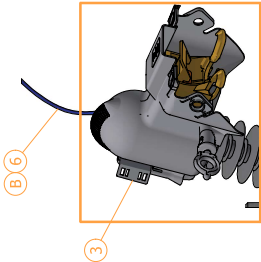


FIGURE 1
AVIAN COVER
FOR CMU/SMU CUTOUTS

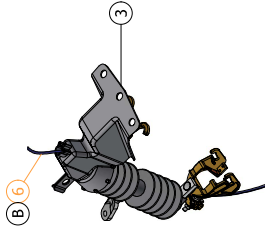


FIGURE 2
AVIAN COVER FOR
CMU/SMU CUTOUTS

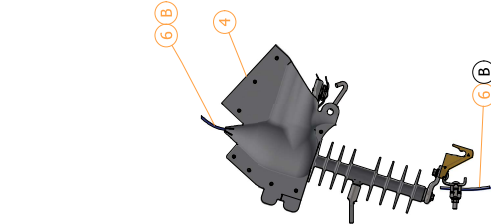


FIGURE 3
AVIAN COVER
FOR INTERCHANGEABLE C/O

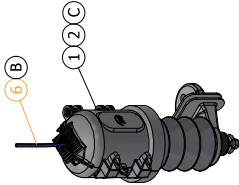


FIGURE 4
AVIAN COVER
FOR LIGHTNING ARRESTERS

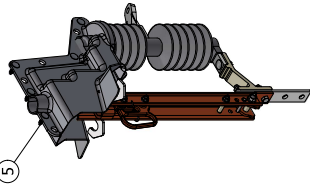


FIGURE 5
AVIAN COVER
FOR LIGHTNING ARRESTERS

FIGURE 6
AVIAN COVER FOR 900A DISCONNECT

REV	CHANGE	DRWN	BY	CHKD	APVD	DATE
F	EDITORIAL CHANGES	INV5	SPC	MRF	KRG	01/03/2025
E	EDITORIAL CHANGES	ARC	SPC	MRF	KRG	08/30/2023
D	TABLE UPDATE	EDM	MRF	JES	CZH	08/25/2021



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INSTALLATION:

- THE REQUIRED MINIMUM DISTANCE OF UNCOVERED CONDUCTOR PHASE-TO-PHASE, PHASE-TO-NEUTRAL AND PHASE-TO-GROUND IS 60 INCHES.
- FOR NEW CONSTRUCTION, OR WHEN DE-ENERGIZING EXISTING CONSTRUCTION, USE HENDRIX TAP COVERED WIRE IN PLACE OF JUMPER COVER.
- SILICONE TAPE (1) MAY ALSO BE USED IN LIEU OF THE ARRESTER COVERS OR, FOR ANY DIFFICULT TO COVER TERMINATIONS DOUBLE LAP TAPE PER MANUFACTURER'S INSTRUCTIONS. BLACK ELECTRICAL TAPE MAY BE APPLIED OVER THE SQUIRREL TAPE IF NECESSARY.
- INSTALL AVIAN COVER-UP ON ALL HIGH VOLTAGE CONNECTIONS AND DEVICES PER OH1610.0. INSTALL AVIAN COVER OR PROTECTION TO DEVICES AND CONDUCTORS WHEN REPAIRS ARE MADE DUE TO ANIMAL CONTACTS OUTSIDE THE AVIAN PROTECTION AREA.

(E) PREFERRED

(F) ALTERNATE

BILL OF MATERIALS:

ITEM	DESCRIPTION	QUANTITY	STANDARD PAGE	STOCK NUMBER	DESIGN UNITS
1	TAPE, SELF-FUSING GRAY, 1" X 36"	AS REQ'D	-	S721736	(X) -
	TAPE, SELF-FUSING GRAY, 2" X 36"	AS REQ'D	-	S721738	(X) -
2	COVER, BUSHING, ARRESTER, SLIDE-ON	(E) AS REQ'D	-	S389270	(X) -
	COVER, BUSHING, TRANSFORMER, ARRESTER	(E) AS REQ'D	1630	S289670	(X) -
3	COVER, SMU/CMU, WITH PIN	(E) AS REQ'D	-	S289616	(X) -
	COVER, SMU/CMU, WITH PIN AND SLIDE	(E) AS REQ'D	-	S289614	(X) -
4	COVER, CUTOUT, UNIVERSAL FIT	AS REQ'D	-	S389662	GCOUNT
5	COVER, 900A DISCONNECT	AS REQ'D	-	S286952	900CRM
6	WIRE, CU, #4, 7 STR, COVERED	(B) AS REQ'D	711	S812124	HEND4

NOTES:

(X) THIS ITEM IS EXEMPT

REFERENCE: NONE

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				SCALE: NOT TO SCALE	
LIGHTNING ARRESTER AND CUTOUT COVER-UP DEVICES FOR AVIAN PROTECTION				DRAWING NO:	SHEET:
				OH1640.1	1 OF 1
Indicates Latest Revision			Completely Revised	New Page	Information Removed

SCOPE: THIS STANDARD ILLUSTRATES THE APPLICATION OF COVERED JUMPER WIRE FOR EXISTING POLES IN **3-WIRE** OR **4-WIRE** CONSTRUCTION, SPECIFICALLY IN AVIAN PROTECTION AREAS.

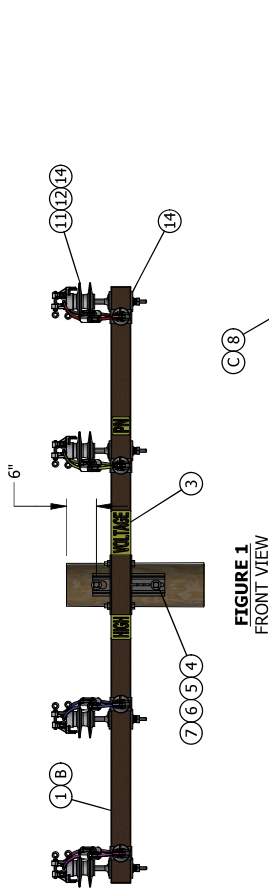


FIGURE 1
FRONT VIEW

FIGURE 1
SIDE VIEW

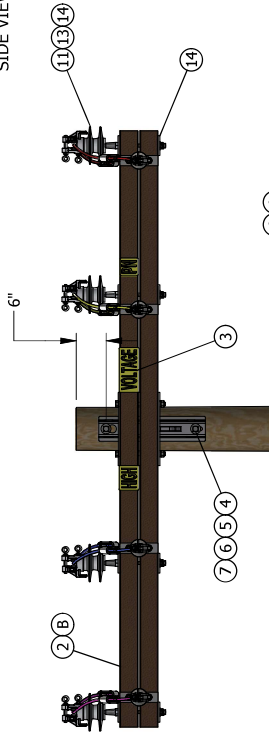


FIGURE 2
FRONT VIEW

FIGURE 2
SIDE VIEW

INSTALLATION:

- (A) SHORTER DEADEND INSULATORS CAN BE USED ON OUTSIDE PHASE POSITION ON ARM SIDE.
- (B) COVERED JUMPER WIRE CAN BE UTILIZED FOR AVIAN SAFE CONSTRUCTION WITH WOOD OR COMPOSITE CROSSARMS.
- (C) SIZE AND TYPE AS REQUIRED WITH MINIMUM SIZE EQUAL TO LINE CONDUCTOR AMPACITY OR GREATER.

BILL OF MATERIALS:

ITEM	DESCRIPTION	QUANTITY (FIGURE 1)	QUANTITY (FIGURE 2)	STANDARD PAGE	STOCK NUMBER	DESIGN UNIT
1	CROSSARM, COMPOSITE, DEADEND, 10"	1	0	379	5294380	4DF
2	CROSSARM, COMP. STACKED, DEADEND, 10"	0	1	379	5294382	10SDF
3	SIGN, "HIGH VOLTAGE", 3", ADHESIVE	2	2	208	567650	-
4	BOLT, MACHINE, GLV, 3/4" X 12"	2	2	390	5153408	-
5	WASHER, ROUND, 3/4", 2" OD GALVANIZED	2	2	390	5900256	-
6	WASHER, RIB, GLV, FOR 3/4" BOLT	2	2	390	5797760	-
7	WASHER, DBL SPRING, STL, TIN/ZINC, 3/4"	6	6	390	5798966	-
8	HENDRIX TAP WIRE (C)	-	-	711	-	-
9	INSULATOR, DEADEND, POLYMER, GLV, 35 KV	8	8	750	5428958	LONGDE
10	CLAMP, STRAIGHT LINE, GLV, #6-1/0	8	8	743	5230368	-
11	INSULATOR, VISE TOP, POLYMER, 1"	4	4	750	5429270	IPU1
12	PIN, INSULATOR, GLV, 1-3/8", 7-1/2" STUD	4	0	396	5532448	PS1LG
13	PIN, STAND-OFF, STL, GLV, 1"	0	4	396	5529248	-
14	WASHER, SQUARE, GLV, 4" X 4" X 3/8"	8	8	379	5800070	-

NOTES:

(X) THIS ITEM IS EXEMPT.

XX. QUANTITY SHOWN IN THE BILL OF MATERIALS ARE FOR THE SPECIFIC CONSTRUCTION THAT IS ILLUSTRATED IN THIS STANDARD. YOU MUST ADJUST THE QUANTITY BASED ON THE NEEDS OF YOUR JOB.

REFERENCE:

- a. FOR BONDING GENERAL INFORMATION, SEE OH1003.
- b. FOR COMPOSITE CROSSARMS, SEE OH379.
- c. FOR WIRE TABLES, SEE OH711.
- d. FOR DISTRIBUTION POLE TOPS, SEE OH400 SECTION.

REV	CHANGE	DRWN	BY	CHKD	APVD	DATE	SDGE
D	REVISED TO 3D FORMAT/ EDITORIAL CHANGES	INV5	SPC	MRF	KRG	04/23/2025	
C	BILL OF MATERIALS UPDATE	EDM	GLW	JES	CZH	01/14/2020	
B	DRAWING UPDATE	PEI	-	-	-	01/15/2019	

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				SCALE: NOT TO SCALE	
MODIFIED CONSTRUCTION FOR EXISTING POLES AVIAN SAFE CONSTRUCTION				DRAWING NO:	SHEET:
				OH1654.1	1 OF 1
Indicates Latest Revision		Completely Revised	New Page	Information Removed	

SCOPE: THIS STANDARD ILLUSTRATES PHASE CONDUCTOR POSITIONS FOR NEW SINGLE CIRCUIT, TANGENT, FOUR WIRE CONSTRUCTION IN AN AVIAN PROTECTION AREA.

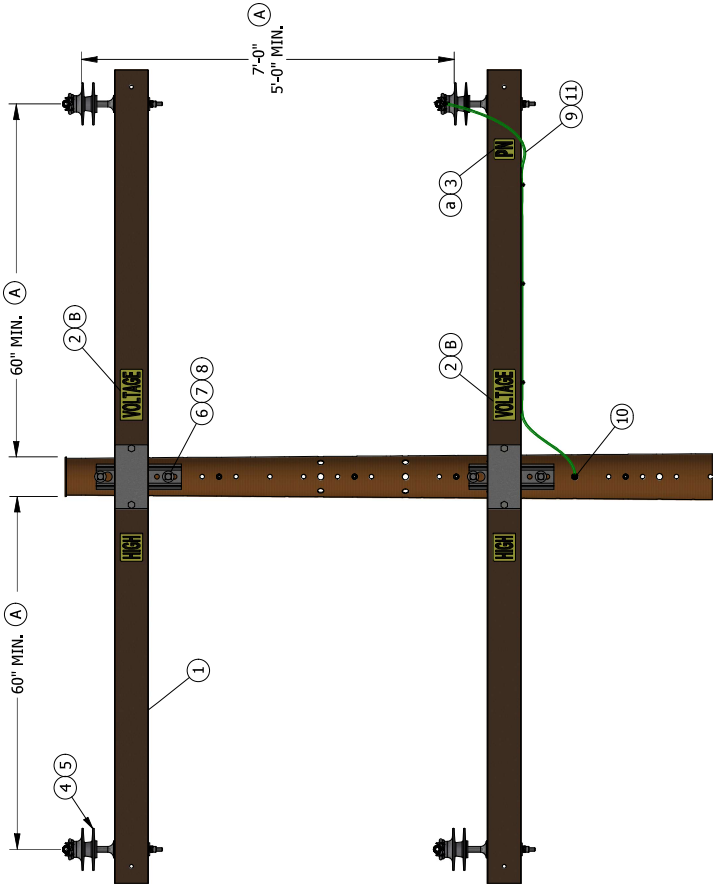


FIGURE 1

INSTALLATION:

- (A) THE REQUIRED MINIMUM DISTANCE OF UNCOVERED CONDUCTOR PHASE-TO-PHASE, PHASE-TO-GROUND OR PHASE-TO-NEUTRAL IS 60 INCHES.
- (B) HIGH VOLTAGE SIGN CAN BE INSTALLED ON THE CROSS-ARM OR 40 INCHES BELOW THE LOWEST CONDUCTOR LEVEL ABOVE 750 VOLTS.

BILL OF MATERIALS:

ITEM	DESCRIPTION	QUANTITY	CALLOUTS	STANDARD PAGE	STOCK NUMBER	DESIGN UNITS
1	CROSSARM, FIBERGLASS, TANGENT 12' MIN.	2		379	524374	6TF
2	SIGN, "HIGH VOLTAGE", ADHESIVE	4			5667650	HV/D
3	SIGN, "PN", ADHESIVE	2		208	-	PN/D
4	PN INSULATOR (SIZE AS REQ'D)	4			-	-
5	INSULATOR, POLY, TIE TOP (SIZE AS REQ'D)	4			-	-
6	MACHINE BOLT, 3/4" (SIZE AS REQ'D)	4			-	-
7	SQUARE CURVED WASHERS	4		390	5797760	RIBWSH
8	SPRING LOCK WASHER 3/4"	4	(X)		5796802	LK-WSH
9	WIRE, POLY COVERED, COPPER, #4 SOLID GROUND WIRE	-	(X)	1002	5812490	4POLY
10	CONNECTOR, STUD, SPLIT BOLT 1/2" x 13	1		-	5262560	SPCONN
11	CONNECTOR, WIRE, WEDGE (SIZE AS REQ'D)	1		784	-	-

NOTES:

- (X) THIS ITEM IS EXEMPT.
- (XX) QUANTITY SHOWN IN THE BILL OF MATERIALS AR FROM THE SPECIFIC CONSTRUCTION THAT IS ILLUSTRATED IN THIS STANDARD. YOU MUST ADJUST THE QUANTITY BASED ON THE NEEDS OF YOUR JOB.

REFERENCE:

- (a) NEUTRAL GROUNDING METHOD, SEE OH1004.

REV	CHANGE	DRWN	BY	CHKD	APVD	DATE	SDGE	
D	REVISED TO 3D FORMAT/ EDITORIAL CHANGES	INV5	SPC	MRF	KRG	10/01/2024		
C	FIGURE UPDATE	EDM	GLW	JES	CZH	01/14/2020		
B	DRAWING UPDATE	PEI	-	-	-	01/15/2019		

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				SCALE: NOT TO SCALE	
CROSSARM CONSTRUCTION- 4-WIRE TANGENT TWO LEVELS				DRAWING NO:	SHEET:
AVIAN SAFE CONSTRUCTION				OH1655.1	1 OF 1
Indicates Latest Revision		Completely Revised	New Page	Information Removed	

Attachment B

SDG&E As Built for the Installation of Avian Protection at P716000

ASBUILT FORM

Header Section

Notification #	300000559262	Work Order #	530000315834	Operation #	0006
Job Name	C239: AP GR I			Construction Supr. / FOS	
Address	1034 RICE CANYON ROAD	Street2		City	FALLBROOK
				Zipcode	92028
Circuit	239	Not Built To Design Requires Recalculation	<input type="checkbox"/>	No Material Used	<input type="checkbox"/>
Event ID		TOM Bros	1028J1		
Order Comments	* 02/08/2023 13:14:59 PST Tiana Arellano (TARELLAN) Phone 8588241761 * P610108 Rancho Bavaria RAINBOW CDP 92028 1028-J1 * P716000 1034 RICE CANYON ROAD FALLBROOK 92028 1028-J1 * ----- * 04/11/2023				
Crew Comments					

Order Completion Section

All Materials have been installed and tested in accordance with the applicable SDGE Standards.

Crew Foreman ID	nbuckel	Crew Foreman	Neil Buckel	Completion Date	2024-09-13
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Location & Material Section

Location #	0001	Location Description	Location 0001
Existing Structure #	P716000	New Structure #	
Location Service / Meter Address			

Location Comment

P716000. CREWS TO INSTALL NEW AVIAN COVERS.

Location Crew Comment

CU ID	Work Function	Stock Code	Stock Description	UOM	Plan. Qty.	Act. Qty.	As Designed
POLY4J	REMOVE	S815044	WIRE, CU, #4, 7 STR, POLYTHYLENE COVER,	FT	20.000	20	<input checked="" type="checkbox"/>
56-1NP	REMOVE	S429050	INSULATOR, 1" PIN, F-NECK, TIE TOP, 2 SK	EA	1.000	1	<input checked="" type="checkbox"/>
EXACVR	INSTALL	S289660	COVER, EXTENSION ARM FOR INSULATOR COVER	EA	2.000	2	<input checked="" type="checkbox"/>
PORCVR	INSTALL	S289656	DEPLETE COVER, AVIAN, FOR PORCELAIN	EA	1.000	1	<input checked="" type="checkbox"/>
IPU1	INSTALL	S429270	INSULATOR, VISE TOP, POLYMER, 1". ***THI	EA	1.000	1	<input checked="" type="checkbox"/>
HEND4	INSTALL	S812124	WIRE, CU, #4, 7 STR, COVERED, TAP, SOFT	FT	20.000	20	<input checked="" type="checkbox"/>

Location Completion

All Materials have been installed and tested in accordance with the applicable SDGE Standards.

Crew Foreman ID	nbuckel	Crew Foreman	Neil Buckel	Completion Date	2024-09-13
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Tag Identification

No Tag Information for this Location

Equipment Information

No Equipment Information for this Location