

## SITE AND ELECTRICAL PLAN:

## SPECIFIC PROJECT INFORMATION:

- ALL MATERIALS, EQUIPMENT, INSTALLATION, AND WORK SHALL COMPLY WITH THE LATEST VERSION OF THE:
- 2022 CALIFORNIA BUILDING CODE (CBC)
  - 2022 CALIFORNIA RESIDENTIAL CODE (CRC)
  - 2022 CALIFORNIA MECHANICAL CODE (CMC)
  - 2022 CALIFORNIA ELECTRICAL CODE (CEC)
  - 2022 CALIFORNIA PLUMBING CODE (CPC)
  - CALIFORNIA FIRE CODE (CFC),
  - CALIFORNIA ENERGY CODE (T24),
  - CALIFORNIA GREEN CODE (CALGREEN),
  - CITY OF COSTA MESA MUNICIPAL CODE.
- SCOPE OF WORK:
1. IS GENERATOR PORTABLE (ON WHEELS)?  YES  NO
2. GENERATOR FUEL TYPE: \_\_\_\_\_
3. GENERATOR TANK CAPACITY: \_\_\_\_\_ GALLONS
4. DOES THE GENERATOR HAVE DOUBLE-WALLED CONTAINMENT:  YES  NO
- A. IF NO, TYPE OF CONTAINMENT: \_\_\_\_\_
5. INSTALLATION LOCATION IS (CHECK ONE):  
EXTERIOR - SITE: \_\_\_\_\_ EXTERIOR - ROOF: \_\_\_\_\_ INTERIOR: \_\_\_\_\_  
IF INTERIOR, THE ROOM MUST BE 2-HOUR FIRE RATED WITH EMERGENCY EGRESS

## GENERAL REQUIREMENTS:

- A. TEMPORARY POWER GENERAL NOTES:
- ALL MATERIALS, EQUIPMENT, INSTALLATION AND WORK SHALL COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE (CBC), CALIFORNIA ELECTRICAL CODE (CEC), CALIFORNIA ENERGY CODE (T24), CALIFORNIA GREEN CODE (CALGREEN), CALIFORNIA FIRE CODE (CFC), CALIFORNIA MECHANICAL CODE (CMC), CALIFORNIA PLUMBING CODE (CPC), CALIFORNIA RESIDENTIAL CODE (CRC), AND CITY OF COSTA MESA MUNICIPAL CODE.
  - THE GENERATOR AND ALL ASSOCIATED ELECTRICAL DISTRIBUTION EQUIPMENT SHALL BE LISTED AND LABELED BY AN APPROVED NATIONALLY RECOGNIZED TESTING LABORATORY AND SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ITS LISTING.
  - SEPARATE APPROVAL BY THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT IS REQUIRED PRIOR TO INSTALLATION.
    - CALL THE EMERGENCY ICE ENGINE HOTLINE AT 909-396-3396 FOR MORE INFORMATION.
    - THE SCAQMD DEFINITION OF A 'TEMPORARY' GENERATOR: A STANDBY ICE OR TURBINE FOR NON-UTILITY POWER GENERATION THAT DOES NOT OPERATE MORE THAN 200 HOURS A YEAR AND IS ONLY OPERATED IN THE EVENT OF AN EMERGENCY POWER FAILURE OR FOR ROUTINE TESTING AND MAINTENANCE IS CONSIDERED AN EMERGENCY BACKUP GENERATOR FOR POWER GENERATION.
    - GENERATORS WHICH ARE INTERNAL COMBUSTION ENGINES (ICES) THAT ARE GREATER THAN 50 BRAKE HORSEPOWER (BHP) OR GAS TURBINES GREATER THAN 2,975,000 BRITISH THERMAL UNITS (BTU) PER HOUR ARE REQUIRED TO OBTAIN A PERMIT TO CONSTRUCT FROM THE SOUTH COAST AQMD PRIOR TO INSTALLATION AT A SITE.
    - AS PART OF THE SOUTH COAST AQMD'S PERMIT STREAMLINING PROGRAM, CERTAIN EMERGENCY GENERATORS HAVE BEEN PRE-CERTIFIED AS MEETING SOUTH COAST AQMD RULES/REGULATIONS. FACILITIES WHO WANT TO INSTALL/OPERATE THESE PRE-CERTIFIED UNITS CAN APPLY FOR A PERMIT USING THE PERMIT 'REGISTRATION' PROGRAM THAT OFFERS LOWER PROCESSING FEES AND SHORTER PERMIT PROCESSING TIMES. PLEASE VISIT SCAQMD'S WEBSITE TO FIND THEIR CERTIFIED ICE-EMERGENCY GENERATORS LIST AND THEIR END-USER FORM FOR EMERGENCY GENERATOR (FORM EIC-RE)
  - SEPARATE NOTIFICATION AND APPROVAL BY SOUTHERN CALIFORNIA EDISON ARE REQUIRED PRIOR TO INSTALLATION.
    - CALL 1 (800)555-4559 FOR INFORMATION, AND PLEASE VISIT [HTTPS://WWW.SCE.COM/PARTNERS/CONSULTING-SERVICES/LOCALPLANNING](https://www.sce.com/partners/consulting-services/localplanning) FOR SCE'S REQUIRED FORMS AND SUBMITTAL PROCEDURES.
    - INSPECTIONS AND APPROVAL OF THE INSTALLATION ARE REQUIRED AFTER OBTAINING A TEMPORARY GENERATOR PERMIT. ELECTRICAL INSPECTION BY A CITY INSPECTOR SHOULD BE SCHEDULED 24 HOURS IN ADVANCE. PLEASE USE THE QR CODE IN THE AREA LABELLED 'INSPECTION' TO GET TO THE ONLINE PORTAL TO SCHEDULE AN INSPECTION.
- B. PANELBOARD CLEARANCES AND LOCATION
- OVERCURRENT PROTECTION DEVICES (OCPDS) SHALL BE INSTALLED IN LOCATIONS THAT ARE READILY ACCESSIBLE. (CEC 240.24(A))
  - THE MAXIMUM HEIGHT OF THE OPERATING HANDLE OF A BREAKER SHALL BE 6 FEET 7 INCHES ABOVE THE FINISHED FLOOR (AFF). (CEC 240.24(A))
  - PANELBOARDS AND CABINETS SHALL NOT BE ALLOWED IN LOCATIONS WHERE THEY ARE SUBJECT TO PHYSICAL DAMAGE. (CEC 240.24(C))
  - PANELBOARDS AND CABINETS SHALL NOT BE LOCATED NEAR EASILY IGNITABLE MATERIALS, SUCH AS CLOTHES CLOSETS. (CEC 240.24(D))
  - PANELBOARDS AND CABINETS SHALL NOT BE ALLOWED IN BATHROOMS OF DWELLINGS. (CEC 240.24(E))
  - PANELBOARDS AND CABINETS SHALL NOT BE ALLOWED TO BE INSTALLED OVER THE STEPS OF A STAIRWAY. (CEC 240.24(F))
- C. DRY, DAMP AND WET LOCATIONS
- ENCLOSURES IN WET OR DAMP LOCATIONS SHALL BE WEATHERPROOF. (CEC 312.2)
  - SURFACE-MOUNTED METAL ENCLOSURES IN WET OR DAMP LOCATIONS SHALL MAINTAIN A MINIMUM ¼ INCH AIRSPACE BETWEEN THE ENCLOSURE AND THE WALL. (CEC 312.2)
  - IN WET LOCATIONS, RACEWAYS, AND CABLES ENTERING ABOVE THE LEVEL OF UNINSULATED LIVE PARTS SHALL USE FITTINGS LISTED FOR WET LOCATIONS. (CEC 312.2)
  - EQUIPMENT RATED FOR DRY OR DAMP LOCATIONS SHALL BE PROTECTED AGAINST DAMAGE FROM WEATHER DURING CONSTRUCTION. (CEC 110.11)
  - ENCLOSURES SHALL BE MARKED WITH THEIR ENCLOSURE TYPE. (CEC 110.28)
  - EQUIPMENT RATED FOR DRY OR DAMP LOCATIONS OR MARKED 'INDOOR USE ONLY' OR ENCLOSURE TYPES 1, 2, 5, 12, 12K, AND 13 SHALL BE PROTECTED AGAINST DAMAGE FROM WEATHER DURING CONSTRUCTION. (CEC 110.11)
- D. ENCLOSURES (CABINETS)
- THE MAXIMUM SETBACK IN A NONCOMBUSTIBLE WALL (E.G., STEEL STUDS) IS ¼ INCH. (CEC 312.3)
  - ENCLOSURES SHALL BE FLUSH TO THE FINISH SURFACE IN COMBUSTIBLE (WOOD-FRAME) WALLS. (CEC 312.3)
  - THE MAXIMUM PLASTER GAP AT THE SIDE OF A FLUSH MOUNT PANEL SHALL BE ¼ INCH. (CEC 312.4)
  - ENCLOSURES FOR OCPDS SHALL BE INSTALLED IN A VERTICAL POSITION. (CEC 240.33)
  - PANELBOARDS SHALL NOT BE ALLOWED TO BE INSTALLED IN A FACE-UP POSITION. (CEC 408.43 EXCEPTION 2)
  - OPEN KNOCKOUTS (KOS) SHALL BE PROPERLY FILLED, EXCEPT FOR MANUFACTURER HOLES SUCH AS THOSE FOR MOUNTING. (CEC 110.12(A))
- E. OVERCURRENT PROTECTION DEVICES (OCPDS)
- BREAKERS SHALL BE LISTED OR CLASSIFIED AND INSTALLED ACCORDING TO THE APPROVED MANUFACTURER INSTRUCTIONS FOR THE PANEL. (CEC 110.3(B))
  - BACK-FED BREAKERS SHALL BE SECURED IN PLACE (CEC 408.36(D))
    - EXCEPTION: OUTPUT CIRCUITS FROM LISTED UTILITY INTERACTIVE INVERTERS, WHICH MAY NOT REQUIRE ADDITIONAL SECURING FOR BACK-FED BREAKERS. (CEC 705.12(E))
  - BREAKERS SHALL INDICATE WHETHER THEY ARE IN THE 'ON' OR 'OFF' POSITION. (CEC 240.81)
  - IF A BREAKER OPERATES VERTICALLY, THE 'UP' POSITION SHALL INDICATE 'ON'. (CEC 240.81)
  - FOR RECEPTACLES ON A SHARED YOKE OR MOUNTING STRAP, EITHER A 2-POLE BREAKER OR 2 SINGLE-POLE BREAKERS WITH APPROVED HANDLE TIES SHALL BE USED. (CEC 210.7)
- F. BUS BARS
- BUS BARS AND OTHER INTERNAL PARTS SHALL BE PROTECTED FROM CONTAMINATION (E.G., PAINT OR PLASTER) DURING CONSTRUCTION. (CEC 110.12(B))
  - SUBPANELS REQUIRE OVERCURRENT PROTECTION ON THE SUPPLY SIDE (CEC 408.36)
    - EXCEPTION APPLIES FOR EXISTING SERVICES IN INDIVIDUAL RESIDENTIAL OCCUPANCY SETTINGS. (CEC 408.36(B))
- G. COVERS AND CIRCUIT DIRECTORIES
- EACH PANEL SUPPLIED BY A FEEDER SHALL BE PROVIDED WITH A DURABLE LABEL (NOT HANDWRITTEN) INDICATING WHERE THE POWER ORIGINATES IF IN A DIFFERENT LOCATION THAN THE PANEL. (CEC 408.4(B))
  - PANELS SHALL HAVE A DEAD-FRONT COVER. (CEC 408.38)
  - BREAKER HANDLES DO NOT HAVE TO BE LOCATED BEHIND A DOOR. (CEC 240.40(B))
  - CIRCUIT DIRECTORIES SHALL DISTINGUISH EACH CIRCUIT FROM ALL OTHERS. (CEC 408.4(A))
  - CIRCUIT DESCRIPTIONS SHALL NOT RELY ON TRANSIENT CONDITIONS FOR IDENTIFICATION. (CEC 408.4(A))
  - LABEL SPARE POSITIONS THAT CONTAIN UNUSED OVERCURRENT PROTECTION DEVICES (OCPDS). (CEC 408.4(A))
  - FILL PLATES SHALL BE INSTALLED IN ANY MISSING TWIST-OUTS THAT DO NOT HAVE BREAKERS INSTALLED. (CEC 110.12(A))
  - EMPTY EDISON-BASE FUSE SOCKETS SHALL NOT BE PERMITTED. (CEC 110.12(A))
- H. PANEL WIRING
- ONLY ONE WIRE SHALL BE ALLOWED PER TERMINAL UNLESS THE TERMINAL IS SPECIFICALLY IDENTIFIED FOR MORE THAN ONE WIRE. PANEL INSTRUCTIONS MAY ALLOW FOR UP TO 2 OR 3 EGCS PER TERMINAL. (CEC 110.14(A))
  - EACH NEUTRAL CONDUCTOR SHALL HAVE ITS OWN INDIVIDUAL TERMINAL, WITH EXCEPTIONS FOR PARALLELED CONDUCTORS ON EQUIPMENT GROUNDING CONDUCTORS (EGCS) AND NEUTRALS MAY NOT SHARE THE SAME TERMINAL, EVEN IN SERVICE EQUIPMENT WHERE ALLOWED ON THE SAME TERMINAL BAR. (CEC 408.41)
  - TORQUE ALL BREAKERS AND TERMINALS ACCORDING TO APPROVED MANUFACTURER INSTRUCTIONS. (CEC 110.3(B))
  - USE APPROVED MEANS, SUCH AS TORQUE SCREWDRIVERS, TO ACHIEVE THE INDICATED TORQUE. (CEC 110.14(D))
  - ANTIOXIDANT SHALL BE APPLIED ON ALUMINUM CONDUCTORS AS REQUIRED IN ACCORDANCE WITH MANUFACTURER'S APPROVED INSTALLATION INSTRUCTIONS (CEC 110.14)
  - EACH CABLE SHALL BE SECURED TO THE CABINET OR ENCLOSURE. (CEC 312.5(C))
- I. NEUTRAL CONDUCTORS AND EGCS
- NEUTRAL, EGCS, AND ENCLOSURE SHALL BE BONDED IN SERVICE PANELS. (CEC 250.24(B))
  - NEUTRALS SHALL NOT BE BONDED IN SUBPANELS. (CEC 250.24(A)(5))
  - THE CONTINUITY OF NEUTRALS SHALL NOT DEPEND ON THE ENCLOSURES THEY ARE WITHIN. (CEC 200.2(B))
  - EACH NEUTRAL CONDUCTOR SHALL HAVE ITS OWN INDIVIDUAL TERMINAL, WITH EXCEPTIONS FOR PARALLELED CONDUCTORS ON TERMINALS IDENTIFIED FOR MORE THAN ONE CONDUCTOR. (CEC 408.41)
  - A NEUTRAL SHALL NOT SERVE MORE THAN ONE CIRCUIT OR MWBC CIRCUIT. (CEC 200.4(A))
  - NEUTRAL CONDUCTORS SHALL BE FACTORY-APPLIED WHITE OR GRAY, WITH CONDUCTORS SIZED #4 AWG OR GREATER ALLOWED TO HAVE WHITE OR GRAY TAPING INCLUDING THE ENDS. (CEC 200.6(A) AND 200.6(B))
  - WHITE CONDUCTORS SHALL NOT BE ALLOWED ON UNGROUNDED CONDUCTORS (CEC 200.7(A))
    - EXCEPTION: WHITE CONDUCTORS OF A CABLE ASSEMBLY ARE ACCEPTABLE AS UNGROUNDED CONDUCTORS IF TAPED (NOT WHITE, GRAY, OR GREEN) ENCIRCLING THE ENDS. (CEC 200.7(C))
  - GROUNDING TERMINAL BARS SHALL BE REQUIRED IF WIRE EGCS ARE PRESENT IN THE PANEL. (CEC 408.40)
  - EGCS SHALL NOT BE TERMINATED ON THE NEUTRAL BAR IN SUBPANELS. (CEC 250.24(A)(5))
  - MORE THAN ONE EGC PER TERMINAL SHALL BE ACCEPTABLE IF ALLOWED BY THE LISTING AND LABELING OF THE PANEL. (CEC 110.14(A))
  - OVERCURRENT PROTECTION DEVICES (OCPDS) SHALL NOT BE ALLOWED IN SERIES WITH THE NEUTRAL, EXCEPT WHEN OCPD SIMULTANEOUSLY OPENS ALL OTHER CONDUCTORS OF THE CIRCUIT OR WHERE REQUIRED FOR MOTOR OVERLOAD PROTECTION. (CEC 240.22)

# CITY OF COSTA MESA



## TEMPORARY POWER STANDARD

### PERMIT LIMITATIONS:

- TEMPORARY POWER POLE
- THIS PERMIT IS FOR THE INSTALLATION OF EITHER TEMPORARY POWER POLE(S) OR GENERATOR(S) ON A RESIDENTIAL, COMMERCIAL, OR INDUSTRIAL SITE.
  - TEMPORARY POWER MAY ONLY BE USED FOR CONSTRUCTION ACTIVITIES OR OUTDOOR EVENTS WHERE PERMANENT POWER IS NOT PRESENT OR AVAILABLE.
  - THIS PERMIT MAY NOT BE USED TO POWER PERMANENT STRUCTURES OR INSTALLATIONS.
  - THIS PERMIT SHALL NOT BE USED FOR WORK BEYOND THE SCOPE OF THE TEMPORARY POWER INSTALLATION

- GENERATOR SPECIFIC CONDITIONS:
- A TEMPORARY GENERATOR PERMIT IS VALID FOR 90 DAYS FROM PERMIT ISSUANCE. AFTER 90 DAYS, THE GENERATOR SHALL EITHER BE REMOVED, THE INSTALLATION FORMALLY PERMITTED FOR A PERMANENT INSTALLATION BASIS USING PERMANENT WIRING METHODS, OR THE TEMPORARY PERMIT MAY BE RENEWED.
  - THIS PERMIT IS VALID ONLY FOR A TEMPORARY GENERATOR PROVIDING ELECTRICAL POWER TO NON-EMERGENCY SYSTEMS NOT REQUIRED BY CALIFORNIA CODES.
  - FOR EMERGENCY ELECTRICAL POWER SYSTEMS THAT ARE REQUIRED TO BE PERMANENTLY INSTALLED BY CALIFORNIA CODES, A SEPARATE REVIEW AND PERMIT ARE REQUIRED.

### CITY REQUIREMENTS:

- JOB PLACARD SHALL BE POSTED ON THE SITE, IN A LOCATION READILY VISIBLE FROM THE STREET.
- ALL COMPANIES & CONTRACTORS WORKING OR OPERATING WITHIN THE CITY OF COSTA MESA MUST HAVE A VALID CITY OF COSTA MESA BUSINESS LICENSE. (BUSINESS LICENSES CAN BE APPLIED FOR ONLINE WITH TESSA)
- OVERSIZED LOAD PERMITS ARE REQUIRED FOR:
  - SINGLE TRUCKS EXCEEDING 8'-6" W X 40' L X 14'
  - COMBINATION TRUCKS EXCEEDING 8'-6" W X 75' L X 14'
- (OVERSIZED LOAD PERMITS CAN BE APPLIED FOR ONLINE WITH TESSA)
- A PRELIMINARY PUBLIC WORKS INSPECTION IS REQUIRED PRIOR TO THE COMMENCEMENT OF ANY WORK.
- A FINAL PUBLIC WORKS INSPECTION IS REQUIRED IMMEDIATELY PRIOR TO THE FINAL BUILDING INSPECTION.
- ANY DAMAGE TO THE EXISTING PUBLIC IMPROVEMENTS (E.G. SIDEWALKS, CURB & GUTTER, STREET PAVING, LANDSCAPING, ETC.) THAT OCCURRED TO THE AREA SURROUNDING THE SITE DURING THE COURSE OF CONSTRUCTION SHALL BE REPAIRED PER THE CITY STANDARDS AT THE PROPERTY OWNERS EXPENSE.
- AN ENCROACHMENT PERMIT IS REQUIRED FOR ANY AND ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY (SEPARATE APPLICATION REQUIRED)

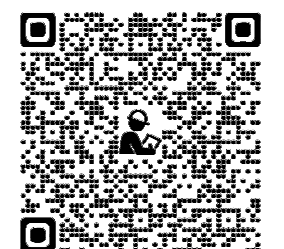
- CONSTRUCTION WORKING HOURS:
- MONDAY THROUGH FRIDAY, 7AM TO 7PM
  - SATURDAYS, 9AM THROUGH 6PM
  - CONSTRUCTION WORK IS NOT ALLOWED ON SUNDAYS OR THE FOLLOWING SPECIFIED FEDERAL HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, INDEPENDENCE DAY, LABOR DAY, THANKSGIVING DAY, AND CHRISTMAS DAY.
  - VIOLATORS WILL BE CITED AND POTENTIALLY FINED.

### INSPECTIONS:



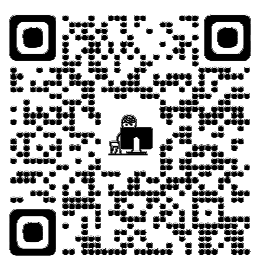
\* AFTER BOOKING THIS INSPECTION, LOG INTO TESSA TO UPLOAD THE SUPPORTING DOCUMENTATION TO THIS INSPECTION ITEM BEFORE THE INSPECTOR ARRIVES.

TO BOOK AND INSPECTION, VIEW THE INSPECTION SCHEDULE, OR SEE INSPECTION RESULTS, VISIT TESSA



### SITE PLAN CHECKLIST:

- A DIMENSIONED (OR SCALED) DRAWING THAT INCLUDES THE FOLLOWING:
  - DRAW THE PROPERTY LINES WITH DIMENSIONS (LOT WIDTH X DEPTH)
  - SHOW ALL BUILDINGS ON THE PROPERTY. THIS INCLUDES THE HOUSE AND OTHER ABOVE GRADE STRUCTURES LIKE: PATIO COVERS, TRASH ENCLOSURES, BBQ, FIRE PITS, ETC.
  - SHOW POOLS, SPAS, AND OTHER DECORATIVE WATER FEATURES.
  - SHOW ALL EASEMENTS & SETBACKS FROM ULTIMATE PROPERTY LINES AND THE DISTANCES BETWEEN BUILDINGS AND OTHER STRUCTURES.
  - SHOW DRIVEWAYS
  - SHOW STREETS, WITH STREET NAMES, AND SIDEWALKS ADJACENT TO THE PROPERTY
  - SHOW ORIENTATION WITH A NORTH ARROW
  - SHOW FENCE LOCATIONS WITH HEIGHTS AND TYPE (WOOD, VINYL, BLOCK WALL)



### WARNINGS & DISCLOSURES:

- THE CITY OF COSTA MESA PROVIDES THESE STANDARD PLANS FOR A LIMITED NUMBER OF PERMITS AND A NARROWLY DEFINED SCOPE OF WORK. BY USING THESE STANDARDS, THE PERMIT HOLDER AGREES TO THE FOLLOWING TERMS:
- THE PLANS MUST BE SUBMITTED EXACTLY AS PROVIDED BY THE CITY, WITHOUT ALTERATION OR MODIFICATION. ANY UNAUTHORIZED CHANGES, INCOMPLETE SECTIONS, OR DOCTORED INFORMATION INVALIDATE THE PLANS & PERMIT.
  - THESE PLANS MAY ONLY BE USED FOR THE SPECIFIC PROJECT AND SCOPE ASSOCIATED WITH THE CURRENT PERMIT APPLICATION. USE FOR ANY OTHER PURPOSE, INCLUDING PROJECTS OUTSIDE OF COSTA MESA, IS PROHIBITED.
  - ALL INTELLECTUAL PROPERTY RELATED TO THESE PLANS REMAINS THE PROPERTY OF THE CITY OF COSTA MESA.
  - FAILURE TO ADHERE TO THE PROVIDED STANDARDS, OR SUBMISSION OF INCOMPLETE OR INCORRECT INFORMATION, WILL RESULT IN DELAYS, AND MAY REQUIRE ADDITIONAL DOCUMENTATION, SUBMITTAL OF NEW APPLICATION(S), VOIDING OF THE PERMIT, AND/OR LEAD TO CODE ENFORCEMENT ACTIONS, INCLUDING CITATIONS AND FINES.
- BY PROCEEDING, THE APPLICANT ACKNOWLEDGES THESE TERMS AND AGREES TO COMPLY FULLY WITH THE CITY OF COSTA MESA'S RESIDENTIAL RE-ROOF STANDARD DETAILS, SPECIFICATIONS, LIMITATIONS, AND REQUIREMENTS.

SIGNATURE: \_\_\_\_\_

FOR OFFICE USE ONLY:

PERMIT #: \_\_\_\_\_

ISSUED: \_\_\_\_\_

\_\_\_\_\_

PROJECT NAME: \_\_\_\_\_  
PROJECT ADDRESS: COSTA MESA, CA

OWNER INFO  
NAME: \_\_\_\_\_

PHONE: \_\_\_\_\_

EMAIL: \_\_\_\_\_

CONTRACTOR INFO  
NAME: \_\_\_\_\_

PHONE: \_\_\_\_\_

EMAIL: \_\_\_\_\_

LICENSE: \_\_\_\_\_ EXPIRATION: \_\_\_\_\_

PLAN PREPARER INFO  
NAME: \_\_\_\_\_

PHONE: \_\_\_\_\_

EMAIL: \_\_\_\_\_

EMERGENCY CONTACT INFO  
NAME: \_\_\_\_\_

PHONE: \_\_\_\_\_

ROLE/RELATION TO PROPERTY: \_\_\_\_\_

TENANT INFO (IF APPLICABLE)  
NAME: \_\_\_\_\_

PHONE: \_\_\_\_\_

EMAIL: \_\_\_\_\_



FORM NUMBER:  
**CBPG-1**

(RELEASE: 09-2024)



TABLES:

Table with 3 columns: Wire Size (AWG or kcmil), Rating or Setting of Automatic Overcurrent Device, and Spacing (inches) for different conductor types.

Note: Where necessary to comply with 250.4(A)(5) or (B)(4), the equipment grounding conductor shall be sized larger than given in this table.

Table 312.6(A) Minimum Wire-Bending Space at Terminals and Minimum Width of Wiring Gutters. Columns include Wire Size (AWG or kcmil) and Wires per Terminal (1-5).

Notes: 1. Bending space at terminals shall be measured in a straight line from the end of the lug or wire connector. 2. This column shall be permitted to be used to determine the minimum wire-bending space for compact stranded aluminum conductors in sizes up to 1000 kcmil.

Table 312.6(B) Minimum Wire-Bending Space at Terminals. Columns include Wire Size (AWG or kcmil) and Wires per Terminal (1-4 or More).

Notes: 1. Bending space at terminals shall be measured in a straight line from the end of the lug or wire connector in a direction perpendicular to the enclosure wall. 2. For removable and lock-in wire terminals intended for only one wire, bending space shall be permitted to be reduced by the following number of millimeters (inches).

3. This column shall be permitted to determine the required wire-bending space for compact stranded aluminum conductors in sizes up to... 1. 12.7 mm (1/2 in.) 2. 25.4 mm (1 in.) 3. 38.1 mm (1 1/2 in.) 4. 50.8 mm (2 in.) 5. 76.2 mm (3 in.)

GENERAL REQUIREMENTS:

- 174. RACEWAYS AND CABLE ARMOR USED AS EGCS SHALL HAVE APPROVED FITTINGS; ALL JOINTS, FITTINGS, AND CONNECTIONS SHALL BE MADE TIGHT. (CEC 250.120(A))
175. FLEXIBLE METAL CONDUIT (FMC) SHALL BE ACCEPTABLE AS AN EGC WITH LISTED FITTINGS FOR CIRCUITS WITH A MAXIMUM OF 20A OCPD.

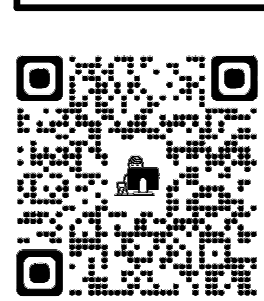
GENERAL REQUIREMENTS:

- W. CONNECTION METHODS
109. BURIED CLAMPS SHALL BE LISTED AND LABELED FOR DIRECT BURIAL (MARKED 'DB'). (CEC 250.70)
110. COPPER WATER TUBING CLAMPS SHALL BE LISTED AND LABELED FOR TUBING. (CEC 250.70)
111. UFER CLAMPS SHALL BE LISTED AND LABELED FOR REBAR AND ENCASEMENT. (CEC 250.70)

GENERAL REQUIREMENTS:

- J. MULTIWIRE BRANCH CIRCUITS (MWB/C)
56. UNGROUNDED CONDUCTORS SHALL HAVE VOLTAGE POTENTIAL BETWEEN THEM, I.E., THEY SHALL ORIGINATE FROM THE SAME POLE. (CEC 100)
57. ALL MWBC CONDUCTORS SHALL ORIGINATE FROM THE SAME PANEL. (CEC 210.4(A))

TEMPORARY POWER STANDARD
PROJECT NAME: COSTA MESA, CA
PROJECT ADDRESS: COSTA MESA, CA
OWNER INFO NAME:
PHONE:
EMAIL:
CONTRACTOR INFO NAME:
PHONE:
EMAIL:
LICENSE: EXPIRATION:
PLAN PREPARER INFO NAME:
PHONE:
EMAIL:
EMERGENCY CONTACT INFO NAME:
PHONE:
EMAIL:
ROLE/RELATION TO PROPERTY:
TENANT INFO (IF APPLICABLE) NAME:
PHONE:
EMAIL:
FORM NUMBER: CBPG-2
(RELEASE: 09-2024)





**MANUFACTURER'S INFORMATION:**

**SINGLE LINE DIAGRAM:**

**TABLES:**

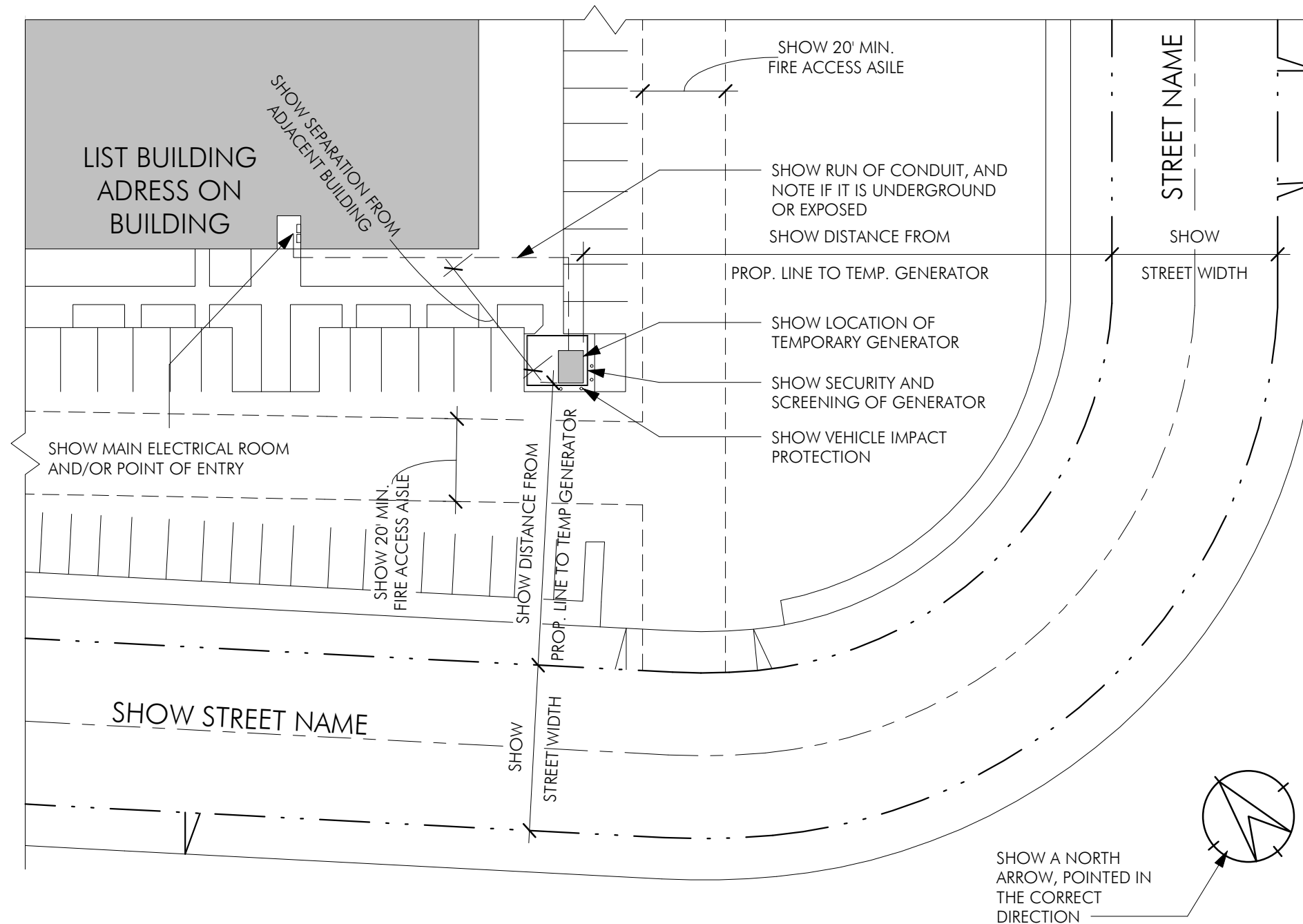
2022 CEC Table 250.102(C)(1) Grounded Conductor, Main Bonding Jumper, System Bonding Jumper, and Supply-Side Bonding Jumper for Alternating-Current Systems			
Size of Largest Ungrounded Conductor or Equivalent Area for Parallel Conductors (AWG/kcmil)		Size of Grounded Conductor or Bonding Jumper* (AWG/kcmil)	
Copper	Aluminum or Copper-Clad Aluminum	Copper	Aluminum or Copper-Clad Aluminum
2 or smaller	1/0 or smaller	8	6
1 or 1/0	2/0 or 3/0	6	4
2/0 or 3/0	4/0 or 250	4	2
Over 3/0 through 350	Over 250 through 500	2	1/0
Over 350 through 600	Over 500 through 900	1/0	3/0
Over 600 through 1100	Over 900 through 1750	2/0	4/0
Over 1100	Over 1750	See Notes 1 and 2.	

- Notes:
- If the ungrounded supply conductors are larger than 1100 kcmil copper or 1750 kcmil aluminum, the grounded conductor or bonding jumper shall have an area not less than 121/2 percent of the area of the largest ungrounded supply conductor or equivalent area for parallel supply conductors. The grounded conductor or bonding jumper shall not be required to be larger than the largest ungrounded conductor or set of ungrounded conductors.
  - If the ungrounded supply conductors are larger than 1100 kcmil copper or 1750 kcmil aluminum and if the ungrounded supply conductors and the bonding jumper are of different materials (copper, aluminum, or copper-clad aluminum), the minimum size of the grounded conductor or bonding jumper shall be based on the assumed use of ungrounded supply conductors of the same material as the grounded conductor or bonding jumper and will have an ampacity equivalent to that of the installed ungrounded supply conductors.
  - If multiple sets of service-entrance conductors are used as permitted in 230.40, Exception No. 2, or if multiple sets of ungrounded supply conductors are installed for a separately derived system, the equivalent size of the largest ungrounded supply conductor(s) shall be determined by the largest sum of the areas of the corresponding conductors of each set.
  - If there are no service-entrance conductors, the supply conductor size shall be determined by the equivalent size of the largest service-entrance conductor required for the load to be served.
- \*For the purposes of applying this table and its notes, the term bonding jumper refers to main bonding jumpers, system bonding jumpers, and supply-side bonding jumpers.

**CLEARANCES CHART:**

Tank Capacity Gallons	Required Setback to Property Line	Required Setback to Adjacent Building
0-275	10 feet	5 feet
276-750	20 feet	5 feet
751-1000	30 feet	5 feet

**SAMPLE SITE PLAN SHOWING REQUIREMENTS:**



- GENERAL INFORMATION:
  - PROVIDE COPIES OF GENERATOR MANUFACTURER'S SPECIFICATIONS.
  - PLANS MUST BE PREPARED BY A REGISTERED DESIGN PROFESSIONAL OR LICENSED ELECTRICAL CONTRACTOR FOR DESIGN BUILD PROJECTS.
- SITE PLANS:
  - LOCATION OF THE TEMPORARY GENERATOR, PROPERTY LINES WITH DISTANCES FROM THE GENERATOR, STREET, THE NORTH ORIENTATION, BUILDINGS FOOTPRINTS SHOWING THE LOCATION OF THE BUILDING ELECTRICAL SERVICE MAIN PANELBOARD/DISTRIBUTION BOARD THAT IS TO BE ENERGIZED, LAYOUT OF OTHER EXISTING/PROPOSED ELECTRICAL EQUIPMENT, FEEDER CONDUITS/CABLE LAYOUT AND REQUIRED WORKING CLEARANCES OF ELECTRICAL EQUIPMENT.
  - LOAD CALCULATION ANALYSIS BASED ON ARTICLE 220 FOR THE LOADS TO BE SUPPLIED AND TO INCLUDE ADJUSTMENTS FOR CONTINUOUS LOADS AND LARGEST MOTOR LOAD. INDICATE EMERGENCY VEHICLE ACCESS DRIVE LOCATIONS, ENSURING A MINIMUM 20-FOOT WIDTH.
  - DETAIL VEHICLE IMPACT PROTECTION, SUCH AS POSTS. ADDITIONAL PROTECTION IS NOT REQUIRED FOR TEMPORARY INSTALLATIONS ON RAISED TRAILERS. SHOW THE LOCATION AND DETAILS OF PROPOSED SECURITY OR SCREENING FENCING AND SPECIFY THE MATERIAL TYPE. SCREENING IS REQUIRED FOR INSTALLATIONS FRONTING STREETS BUT NOT REQUIRED FOR INSTALLATIONS VISIBLE ONLY FROM ADJACENT PROPERTIES.
  - INDICATE THE METHOD OF PROVIDING PHYSICAL PROTECTION FOR CONDUCTORS AND SPECIFY WHETHER CONDUCTORS ARE IN CONDUIT AND ABOVE OR BELOW GRADES.
  - CLARIFY LOCATION OF CONDUITS ABOVE GROUND OR UNDERGROUND. APPLY ADJUSTMENT FACTORS FOR AMBIENT TEMPERATURE FOR ABOVE GROUND PER TABLES CEC 310.15(B)(3)(C) AND/OR CEC 400.5(A)(3) AS APPLICABLE.
- ELECTRICAL PLANS:
  - PROVIDE A SINGLE LINE DIAGRAM SHOWING THE TRANSFER OF LOADS TO THE TEMPORARY GENERATOR. AT MINIMUM, SHOW THE FOLLOWING ITEMS: TYPES OF FEEDER/WIRING METHODS (INCLUDING CORD/CABLE ASSEMBLY AND/OR CONDUCTORS, GAUGE, TYPE OF MATERIAL, INSULATION, AND CONDUIT); EQUIPMENT VOLTAGES, AMPS, VA/WATTS AND AIC RATINGS; GROUNDING ELECTRODE AND CONDUCTOR TYPES, AMOUNTS AND SIZES; CIRCUIT BREAKERS AND/OR FUSES; TRANSFORMERS; PANELBOARD; AND DISCONNECTS.
  - IDENTIFY ANY EMERGENCY LOADS REQUIRED BY CALIFORNIA CODES TO HAVE BACKUP POWER FROM AN APPROVED EMERGENCY POWER SOURCE.
  - INCLUDE LOAD CALCULATIONS TO DEMONSTRATE THAT THE GENERATOR SIZE IS SUFFICIENT FOR THE LOAD TO BE SERVED.
  - SPECIFY RATINGS OF VOLTAGE AND AMPACITY, NUMBER OF PHASES, WIRE CONFIGURATIONS FOR ALL ELECTRICAL EQUIPMENT; (FORMAT EXAMPLE: 240 VOLT, SINGLE PHASE, 3 WIRE).
  - DETAIL THE TRANSFER SWITCH METHOD (AUTOMATIC OR MANUAL) AND INCLUDE SPECIFICS SUCH AS VOLTAGE, AMPERAGE, AND THE NUMBER OF POLES. ENSURE THE TRANSFER SWITCH IS LISTED BY UL OR ANOTHER APPROVED TESTING AGENCY.
  - SPECIFY CONDUCTOR AND OVERCURRENT PROTECTION TYPE AND SIZE.
  - PROVIDE THE GENERATOR SIZE (KW AND VOLTAGE).
  - SPECIFY FUEL TYPE AND QUANTITY.
  - INCLUDE FUEL TANK DETAILS, SUCH AS DOUBLE WALL TANK CONSTRUCTION LISTED BY AN APPROVED TESTING AGENCY OR PROVIDE OTHER DETAILS FOR SECONDARY CONTAINMENT PER VIA-4 CASQA SPILL PREVENTION AND CONTROL.
  - PROVIDE VENTING DETAILS, INCLUDING PIPE LOCATION, DIAMETER, AND HEIGHT FOR NORMAL AND EMERGENCY VENTS.
  - PROVIDE GROUNDING METHOD AND SIZING DETAILS. A GROUND ROD IS NOT REQUIRED FOR A GENERATOR ON A TRAILER WITH TIRES.
  - SHOW THE REQUIRED AVAILABLE FAULT CURRENT (AFC) FROM THE SERVING UTILITY AND GENERATOR. ENSURE EQUIPMENT IS RATED FOR THE AVAILABLE FAULT CURRENT.
  - PROVIDE PANELBOARD SCHEDULE FOR PROPOSED DISTRIBUTION PANELBOARDS.
  - PROVIDE CALCULATIONS TO DETERMINE AMPACITY OF CORDS/CABLES PER CEC 400.5 APPLYING AMBIENT TEMPERATURE CORRECTION FACTOR.
  - CLEARLY AND SPECIFICALLY SPECIFY CORD/CABLE TYPE PER TABLE CEC 400.4 THAT IS SUITABLE FOR CONDITIONS OF USE AND ITS LOCATION.
  - NOTES ARE TO BE PROVIDED INDICATING THAT "ALL OF THE UNUSED LOADS ARE TO BE SAFELY DISCONNECTED", "NEUTRALS ARE TO BE ISOLATED FROM ANY GROUNDING CONNECTIONS IN THE FED PANELBOARDS/DISTRIBUTION BOARDS" AND "BACK-FED CIRCUIT-BREAKERS SHALL HAVE HOLD-DOWN KITS INSTALLED".

**TEMPORARY POWER STANDARD**

FOR OFFICE USE ONLY:  
 PERMIT #:  
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 ISSUED:  
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**PROJECT NAME:  
 PROJECT ADDRESS:  
 COSTA MESA, CA**

OWNER INFO  
 NAME:  
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 PHONE:  
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 EMAIL:  
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 CONTRACTOR INFO  
 NAME:  
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 PHONE:  
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 EMAIL:  
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 LICENSE: \_\_\_\_\_ EXPIRATION:  
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 PLAN PREPARER INFO  
 NAME:  
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 PHONE:  
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 EMAIL:  
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 EMERGENCY CONTACT INFO  
 NAME:  
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 PHONE:  
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 ROLE/RELATION TO PROPERTY:  
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 TENANT INFO (IF APPLICABLE)  
 NAME:  
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 PHONE:  
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 EMAIL:  
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**FORM NUMBER:  
 CBPG-3**

(RELEASE: 09-2024)

