

**CPUC ENERGY DIVISION DATA REQUEST
CPUC ED-SDG&E DR-04
TL674/TL666D PROJECT – A.17-06-026
SDG&E RESPONSE
DATE RECEIVED: FEBRUARY 5, 2019
DATE RESPONDED: FEBRUARY 12, 2019**

Request 1

Del Mar Substation footprint area

Provide a brief description of the existing substation facility, specifying the current size of the Del Mar substation's footprint and the area inside of the perimeter fence line.

Our current estimate based on publicly available imagery indicates that the substation's internal area containing circuitry is 51,275 square feet. Please confirm this estimate or provide a corrected citation if this measurement is not reasonably accurate.

SDG&E Response:

The fenced portion of Del Mar Substation is approximately 48,523 square feet.

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Request 2

Factors contributing to circuit breaker replacement

Explain what factor(s) definitively require the need for the proposed circuit breaker replacement.

SDG&E Response:

The existing oil-filled circuit breaker was installed in 1990. Due to its age, it does not meet San Diego Gas & Electric Company's (SDG&E's) current design standards which specify the use of sulfur hexafluoride (SF₆) circuit breakers. The removal of TL666D and new termination of TL6973 in its place provides an opportunity to bring this circuit breaker and associated hardware up to current design standards.

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Request 3

Number of existing circuit breakers

Please identify how many circuit breakers are currently operational at the Del Mar Substation.

SDG&E Response:

Eight 69 kilovolt (kV) and fourteen 12 kV circuit breakers are currently operational at Del Mar Substation.

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Request 4

Wiring

SDG&E's email dated January 25, 2019 indicates that "[t]o commission the new circuit breaker, wiring within the boundary of the substation will be modified and/or replaced, as needed." Please confirm whether this wiring would connect to the circuit breaker above or below ground, such as in conduit.

SDG&E Response:

All wiring required to connect the replacement circuit breaker would be placed in underground conduit.

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Request 5

Location of work area

Provide a simplified layout identifying the general location of where the circuit breaker would be replaced: this could be referenced as a quadrant of the substation area (e.g., northeastern corner) or similar general description.

SDG&E Response:

A schematic depicting the location of the circuit breaker replacement has been included as Figure 1: Del Mar Substation Circuit Breaker Replacement Location. As shown, the circuit breaker is located in the northern portion of the substation, approximately 60 feet east of the existing control building.

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Request 6

Circuit breaker disposal

Please identify exactly how the old circuit breaker would be disposed. Specify if any SDG&E Best Management and Construction Processes would be implemented for the handling or disposal of the circuit breaker and/or its contents.

SDG&E Response:

The circuit breaker and any associated hardware would be removed from the site and taken to an existing SDG&E yard. If possible, parts would be separated to serve as emergency replacement parts for other equipment currently in service. The remaining parts would then be brought to a local contracted metal scrap company for disposal. SDG&E's best management practices would be implemented, as applicable, during this process.

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Request 7:

Vehicle access

Describe the estimated number of vehicles required and vehicle access to and from the substation site. Clarify whether the street segment/access road that continues north of Via de la Valle would still be referred to as Jimmy Durante Boulevard (it appears to be unnamed).

SDG&E Response:

The table that follows contains the anticipated off-road equipment and on-road vehicles that would be used to replace the circuit breaker and associated hardware at Del Mar Substation.

Vehicle Name	Hours Operating at Site/Day	Quantity Required	Vehicle Type
<i>Below-Grade Construction (11/10/19 to 12/26/19)</i>			
Concrete Truck	Not Applicable (NA)	1	On
Drill Rig with Augers	6	1	Off
Backhoe	6	1	Off
Trencher/Ditch Witch	6	1	Off
Loader	6	1	Off
Water Truck	1	1	Off
Handheld Compactor	4	2	Off
Forklift	6	1	Off
Dump/Haul	NA	2	On
<i>Above-Grade Construction (12/17/19 to 2/15/19)</i>			
Crew Truck	NA	1	On
Assist Truck	NA	1	On
Boom Truck	3	1	Off
Bucket Truck	3	1	Off
Pick Up	NA	2	On
Testing Van	1	1	Off

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The number of vehicles onsite during the process is expected to vary based on the specific activity being conducted that day. It is anticipated that a maximum of approximately 12 vehicles would be onsite at one time.

Vehicle access would be from the substation's existing private driveway that leads from Via De La Valle. The street segment that continues north from Via De La Valle from Jimmy Durante Boulevard is a driveway and will not be used during construction.

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Request 8

Vehicle and equipment use/staging

Indicate the number and type of vehicles anticipated to be parked or actively used at the substation site during an average work day.

Clarify whether vehicles would park off-street on the western side of the substation, or somewhere else. Confirm if there would be any need to park vehicles or equipment on the shoulder of the access road leading up the hill next to the Del Mar Substation.

Describe how the crane would be used for positioning and lifting the new circuit breaker into its proposed location within the Substation.

SDG&E Response:

Crew members would typically meet at one of the project's staging area/fly yards, parking personal vehicles in these locations. From this location, crew trucks and other vehicles would travel to and park within the existing substation. Some temporary parking south of the substation along Via De La Valle may be required depending on construction activities occurring each day. This additional temporary parking would allow for the maneuvering of vehicles and equipment during equipment and material deliveries and during peak construction periods. Parking on the west side of the substation is not anticipated.

The number and type of vehicles required for this phase of the project would vary depending on the construction activities occurring each day. A description of the required equipment is provided in response to Request 7.

It is anticipated that a forklift rather than a crane would be used to remove the existing circuit breaker and place the new circuit breaker. The forklift would be operated within the fenced portion of the substation during the replacement process.

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Request 9

Circuit breaker replacement work hours

Describe the anticipated work hours at the Del Mar Substation and clarify whether any nighttime construction work may be required.

SDG&E Response:

Nighttime work is not anticipated during this phase of the project. As a result, anticipated work hours will be consistent with the remainder of the project and, unless dictated otherwise by permit conditions, will be conducted in accordance with the timeframes presented in applicable local noise ordinances.

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Request 10

Proposed construction timeline

SDG&E's email states that work could take up to eight weeks if foundation work is necessary and four weeks if foundation work is deemed unnecessary.

Clarify if the duration of the proposed circuit breaker replacement should be considered additive to the original project construction schedule estimate of 12 months, resulting in an estimated total project timeline of up to 14 months, or if this work would overlap and be concurrent within the original 12 month estimated construction schedule.

SDG&E Response:

An additional review of the existing foundation has been completed and it has been determined that a new foundation will be required. The circuit breaker replacement process would be initiated after the TL674A Reconfiguration is complete. As a result, it will overlap with the TL666D Removal, C510 Conversion, and C738 Conversion. The original 12-month construction duration will not be affected by this phase of the project.

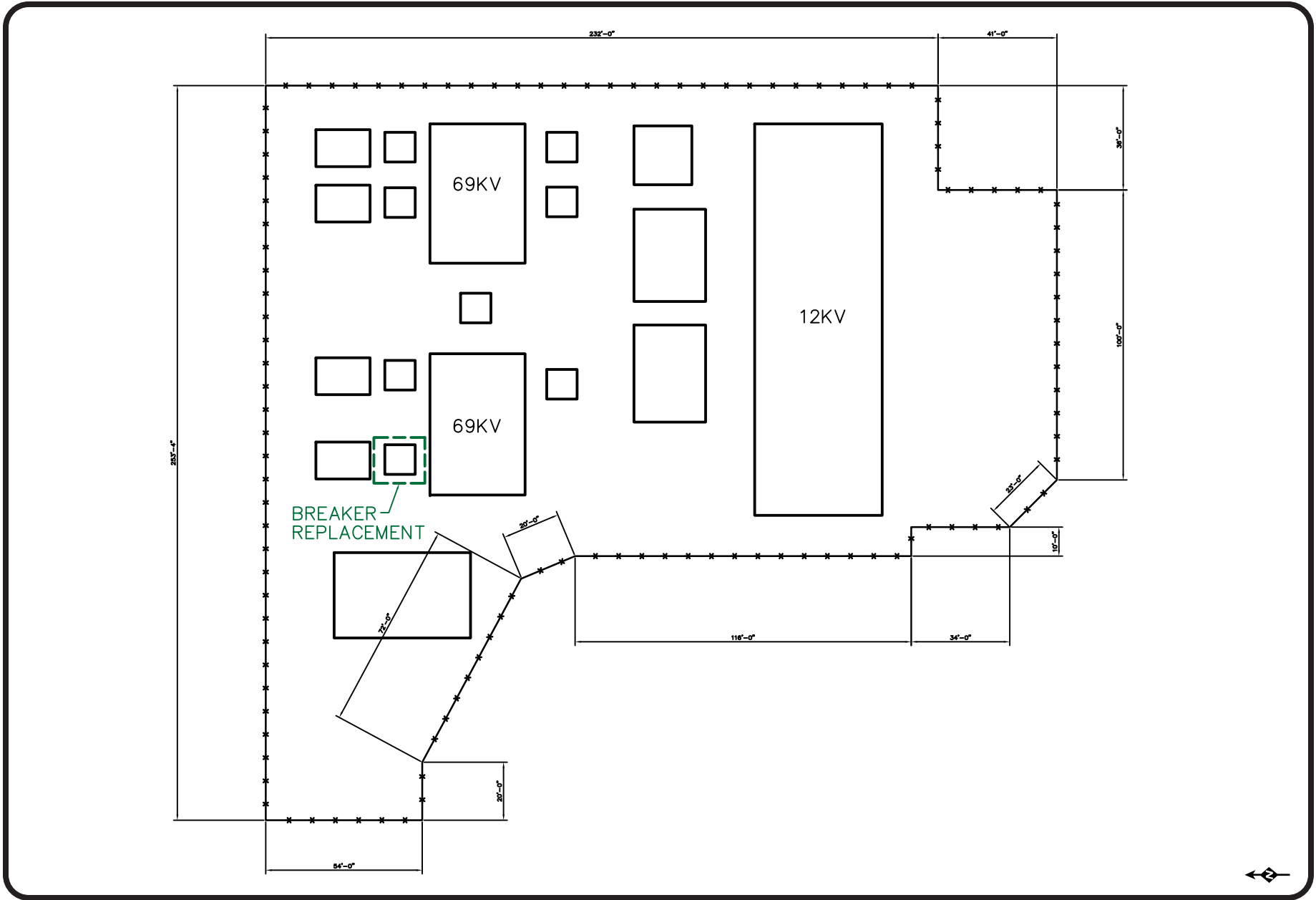


Figure 1: Del Mar Substation Circuit Breaker Replacement Location