TURN/SCGC DATA REQUEST-05
SDG&E-SOCALGAS 2019 GRC – A.17-11-007/8
SDG&E_SOCALGAS RESPONSE
DATE RECEIVED: MARCH 13, 2018
DATE RESPONDED: MARCH 28, 2018

Exhibit Reference: SCG-11
Witness: Buczkowski
Subject: Aliso Canyon Turbine Replacement Project

Data Requests: Regarding SCG-11 (Aliso Canyon Turbine Replacement Project)

1. The testimony at page DLB-3 lists an objective: "to increase the injection capacity at the Storage Field by approximately 145 MMcfd." Was this increase of approximately 145 MMcfd to be determine based on end-of-cycle injection capabilities or on some other basis?

Utility Response 01:

The increase in injection compression capacity was based on end-of-cycle capabilities.

2. If the increase of injection capability was to be determined on some other basis, please describe how the incremental injection capability was to be determined.

Utility Response 02:

Not applicable.

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3. The testimony at page DLB-4 states: "SoCalGas expects that it will be required to inject and withdraw natural gas from the Aliso Canyon Storage Field more frequently and rapidly than ever before to manage inventory within the Commission-ordered range of working gas and continue to safely and reliably meet the energy needs of Southern California."

a. Does SoCalGas envision being required to inject gas into and withdraw gas from Aliso Canyon during different hours of the same day?

b. Would it be technically feasible to inject gas into Aliso Canyon during some hours and withdraw gas from Aliso Canyon during different hours during the same day?

c. If the answer to the previous question is "no," what factors would prevent injecting gas into Aliso Canyon during some hours and withdrawing gas from Aliso Canyon during different hours during the same day?

Utility Response 03:

a. Prior to the ACTR project, Aliso Canyon was able to inject and withdrawal gas supply within the same day in response to changing conditions on the SoCalGas system. SoCalGas expects that need to continue once ACTR is in operation.

b. Yes, the facility has capabilities to inject and withdraw on the same day.

c. Not applicable.

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4. Given the change in requirements for injecting gas through well tubing only instead of the traditional method of injecting gas through both well tubing and well casing:

a. What is the expected injection capacity of Aliso Canyon assuming that the Turbine Replacement project is in operation?

b. What is the number of wells assumed to be operational in the response to the previous question?

c. If the number of wells in operation were to increase by a significant factor beyond the number identified in response to part (b), for example 25 percent, would this change the expected injection capacity of Aliso Canyon?

d. If the answer to the previous question is "yes," please specify the number of wells assumed to be in operation in your "yes" response and the corresponding injection capacity of Aliso Canyon, assuming that the Turbine Replacement project is in operation.

Utility Response 04:

a. SoCalGas has not conducted flow testing to evaluate the injection capacity of Aliso Canyon with tubing flow only. SoCalGas will evaluate the injection capacity when the Aliso Canyon Turbine Replacement Project is in operation. The injection capacity will ultimately be dependent on the total number of injection wells and available gas inventory at the field.

b. See Response 4.a.

c. See Response 4.a.

d. See Response 4.a.

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5. Regarding page DLB-22, please specify what building code requirements changed to require SoCalGas to "facilitate fire department access, installation of fire hydrants and sprinklers, and adherence to more stringent fire resistance ratings."

Utility Response 05:

California Code of Regulations, Title 24, Part 2, Volume 1, Chapter 7A.

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6. Regarding page DLB-22, please explain why SoCalGas felt it was necessary to use a design wind speed of 100 mph when the previous facilities at Aliso Canyon, which had existed for decades, were office trailers.

Utility Response 06:

SoCalGas used various factors to determine the design wind speed of 100 mph. The weather station at the Aliso Canyon has records of wind speed approaching 100 mph. In addition, the trailers on site required routine repairs due to wind damage and significant repairs during high wind events. The original office trailers were in a relatively sheltered location, while the new office buildings are on a higher elevation, over the ridge-line, making them more exposed and subjected to continuous higher wind speed.

As indicated in SCG-011, page DLB-22, SoCalGas determined that permanent buildings were appropriate to shelter personnel at this facility.

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7. Please identify the cost difference associated with designing the building for 100 mph wind speed versus more ordinary, lower wind speeds.

Utility Response 07:

SoCalGas did not conduct an analysis to determine the building's cost at a design wind speed lower than 100 mph since ordinary wind speeds approach 100 mph at the facility as stated in Utility Response 6.

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8. Regarding page DLB-22, please provide each building design that was considered during the planning and design of the new office building that was completed at the site.

Utility Response 08:

During detailed Engineering SoCalGas considered a one-story building but further evaluation indicated that adding a second story to a smaller footprint would cost less, require zero alteration to existing infrastructure such as roads and pipe racks and be less invasive to the environment.

Please see these accompanying files:

- 0550_01_Aliso Canyon proposed new Admin bldg.PDF
- 0550_02_Aliso Canyon proposaed new IM Bldg.PDF
- Admin - Floor Plan.PDF
- Aliso Canyon-Admin Bldg Floor Plan 021412.PDF
- Aliso Canyon-Admin Bldg Floor Plan 032412 Ltb.PDF
- Aliso Canyon-Admin Bldg 2 Story Plan-Elev 042612.PDF
- ALISO CANYON-IM BLDG 2 STORY PLAN -ELEV 042612.PDF
- ALISO CANYON-IM BLDG FLOOR PLAN 022812.PDF
- IM Floor Plan.PDF

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9. Please provide pictures of the new office building facility.

Utility Response 9:

Main office on the left. Two-story building with approximately 12,000 square feet of office space and footprint of 6000 square feet.

Instrument Mechanics building on the right. Two-story building with approximately 3000 square feet of office space and footprint of 1500 square feet.

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10. Please provide a floor plan with measurements for the new office facility indicating the uses for the various spaces that exist throughout the building.

Utility Response 10:

Please see acompanying documents:

Admin – Floor Plan.pdf
IM – Floor Plan.pdf

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11. Please state how many people are employed full time at Aliso Canyon.

Utility Response 11:

The number of people employed full time at Aliso Canyon ranges from approximately 125 to 250.