DOCKETED	
Docket Number:	23-IEPR-03
Project Title:	Electricity and Gas Demand Forecast
TN #:	250234
Document Title:	UNGSF Annual Report for PG&E 2023 IEPR Gas Demand Forms supporting documentation
Description:	Underground Natural Gas Storage Facility (UNGSF) Annual Report for PG&E 2023 IEPR Gas Demand Forms supporting documentation. This, along with five additional PHMSA reports and the CPUC General Order 112F Annual Report, are the most recent report submitted under California Public Utilities Commission General Order 112-F Section 123.
Filer:	Jennifer Privett
Organization:	Pacific Gas and Electric Company
Submitter Role:	Applicant
Submission Date:	5/19/2023 4:50:09 PM
Docketed Date:	5/19/2023

U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration	**UNDERGROUND NATURAL GAS STORAGE FACILITY ANNUAL REPORT FOR CALENDAR YEAR 2022**	**DOT USE ONLY**	
		Original Date Submitted	**02/23/2023**
		Report Type	**INITIAL**
		Date Submitted	

INSTRUCTIONS

Important: *Please read the separate instructions for completing this form before you begin. They clarify the information requested and provide specific examples. If you do not have a copy of the instructions, you can obtain one from the PHMSA Pipeline Safety Community Web Page at* http://www.phmsa.dot.gov/pipeline/library/forms

PART A - OPERATOR INFORMATION	**DOT USE ONLY**	**20230016 - 04342**

A1. Operator's OPS-issued Operator Identification Number (OPID): **15007**

A2. Name of Operator: **PACIFIC GAS & ELECTRIC CO**

A3. Address of Operator

A3a. Street Address: **6121 BOLLINGER CANYON RD.**

A3b. City: **SAN RAMON**

A3c. State: **CA**

A3d. Zip Code: **94583**

PART B – STORAGE FACILITY (Complete Part B once for each independent storage facility)

B1.	Facility Name (chosen by operator): **Los Medanos**	
B2.	Select only one: ☐ INTERState ☒ INTRAState	
	PHMSA USE ONLY Unit ID: **88725**	
B3.	Facility Location:	
	Latitude:	**38.02347**
	Longitude:	**- 122.00376**
	State:	**California**
	County:	**CONTRA COSTA**
B4.	Energy Information Administration Gas Field Code: **013** Names of Reservoirs within this facility: **Domengine**	

GAS VOLUMES	
B5.	Working gas capacity (billion standard cubic feet (BCF)), *include two decimal places*: **11.78**
B6.	Base (also known as Cushion or Pad) gas (billion standard cubic feet (BCF)), include two decimal places: **17.36**
B7.	Total gas capacity (billion standard cubic feet (BCF)): **29.14**
B8	Metered volume of natural **gas withdrawn from the facility** for calendar year (billion standard cubic feet (BCF)), *include two decimal places:* **7.91**
B9.	Metered volume of natural gas **injected into the facility** for calendar year (billion standard cubic feet (BCF)), *include two decimal places*: **5.56**

PART C – RESERVOIRS AND WELLS ***(Complete Part C once for each reservoir or geologic storage formation within a facility)***

RESERVOIR Domengine	
C1.	Reservoir name (chosen by operator): **Domengine**
C2.	Year reservoir placed in storage service: **1973**
C3.	Type (select only one): ☐ Salt Cavern ☒ Hydrocarbon Reservoir ☐ Aquifer Reservoir ☐ Other Description of type:
C4.	Maximum Wellhead Surface Pressure
C4a.	Name of the representative well: **N/A**
C4b.	Maximum surface pressure (pounds per square inch gauge (psig)) at the representative well: **1600**

RESERVOIR OR CAVERN(S) DEPTH

C5.	Approximate Maximum Depth (feet): **4000**
C6.	Approximate Minimum Depth (feet): **3770**

WELLS

C7. Number of Injection and/or Withdraw Wells by Year Range Placed in Storage Operation:

	Pre-1930	1930-1959	1960-1969	1970-2004	2005-present	Total
Injection and/or Withdrawal Wells	0	0	0	16	0	16

C8. Number of Monitoring and/or Observation Wells:

	Pre-1930	1930-1959	1960-1969	1970-2004	2005-present	Total
Monitoring and/or Observation Wells	0	0	0	1	1	2

C9. Number of Wells drilled during the calendar year: **0**

C10 Wells plugged and abandoned during the calendar year

C10a. Number of wells re-plugged during the calendar year: **0**

C10b. Number of wells plugged but not abandoned during the calendar year: **0**

C10c. Number of wells plugged and abandoned during the calendar year: **0**

WELL SAFETY VALVES

C11 Number of Wells with automated surface safety valves: **16**

C12 Number of Wells with subsurface safety valves: **16**

WELLS GAS FLOW

C13 Number of Wells with gas flow only through production tubing: **9**

C14 Number of Wells with gas flow only through production casing: **0**

C15 Number of Wells with gas flow through both production tubing and production casing: **7**

C16 Number of Wells with some “other type” of gas flow: **0**
Describe the “other type” of gas flow through the well:

MAINTENANCE

C17 Number of Wells with new production tubing installed during the calendar year: **4**

C18 Number of Wells with new production casing, new liner, or repairs to casing or liner during the calendar year: **0**

C19 Number of Wells with wellhead remediation or repair during the calendar year: **4**

C20 Number of Wells with casing, wellhead, or tubing leaks during the calendar year: **0**

C21 Number of Wells with Pressure Test during the calendar year: **6**

C22 Number of Wells with Casing Evaluation for Corrosion/ metal loss during the calendar year: **4**

C23 Number of Wells inspected using a downhole assessment method other than “Pressure Test” and “Casing Evaluation for Corrosion/metal loss” during the calendar year*: **0**

* Describe other assessment method(s):

PART B – STORAGE FACILITY (Complete Part B once for each independent storage facility)

B1. Facility Name (chosen by operator): **Pleasant Creek**

B2. Select only one: ☐ INTERState ☒ INTRAState

PHMSA USE ONLY Unit ID: **88723**

B3. Facility Location:

	Latitude:	**38.54552**
	Longitude:	**- 122.00211**
	State:	**California**
	County:	**YOLO**
B4.	Energy Information Administration Gas Field Code: **113** Names of Reservoirs within this facility: **Peters Sand**	

GAS VOLUMES

B5.	Working gas capacity (billion standard cubic feet (BCF)), *include two decimal places*: **2.25**
B6.	Base (also known as Cushion or Pad) gas (billion standard cubic feet (BCF)), include two decimal places: **5.08**
B7.	Total gas capacity (billion standard cubic feet (BCF)): **7.33**
B8	Metered volume of natural **gas withdrawn from the facility** for calendar year (billion standard cubic feet (BCF)), *include two decimal places:* **0**
B9.	Metered volume of natural gas **injected into the facility** for calendar year (billion standard cubic feet (BCF)), *include two decimal places*: **0**

PART C – RESERVOIRS AND WELLS ***(Complete Part C once for each reservoir or geologic storage formation within a facility)***

RESERVOIR Peters Sand

C1.	Reservoir name (chosen by operator): **Peters Sand**
C2.	Year reservoir placed in storage service: **1960**
C3.	Type (select only one): ☐ Salt Cavern ☒ Hydrocarbon Reservoir ☐ Aquifer Reservoir ☐ Other Description of type:
C4.	Maximum Wellhead Surface Pressure
C4a.	Name of the representative well: **N/A**
C4b.	Maximum surface pressure (pounds per square inch gauge (psig)) at the representative well: **1250**

RESERVOIR OR CAVERN(S) DEPTH

C5.	Approximate Maximum Depth (feet): **2975**
C6.	Approximate Minimum Depth (feet): **2675**

WELLS

C7. Number of Injection and/or Withdraw Wells by Year Range Placed in Storage Operation:

	Pre-1930	1930-1959	1960-1969	1970-2004	2005-present	Total
Injection and/or Withdrawal Wells	0	1	0	4	1	6

C8. Number of Monitoring and/or Observation Wells:

	Pre-1930	1930-1959	1960-1969	1970-2004	2005-present	Total
Monitoring and/or Observation Wells	0	0	0	0	0	0

C9.	Number of Wells drilled during the calendar year: **0**
C10	Wells plugged and abandoned during the calendar year
C10a.	Number of wells re-plugged during the calendar year: **0**
C10b.	Number of wells plugged but not abandoned during the calendar year: **0**
C10c.	Number of wells plugged and abandoned during the calendar year: **0**
WELL SAFETY VALVES	
C11	Number of Wells with automated surface safety valves: **6**
C12	Number of Wells with subsurface safety valves: **0**
WELLS GAS FLOW	
C13	Number of Wells with gas flow only through production tubing: **0**
C14	Number of Wells with gas flow only through production casing: **0**
C15	Number of Wells with gas flow through both production tubing and production casing: **6**
C16	Number of Wells with some “other type” of gas flow: **0** Describe the “other type” of gas flow through the well:
MAINTENANCE	
C17	Number of Wells with new production tubing installed during the calendar year: **0**
C18	Number of Wells with new production casing, new liner, or repairs to casing or liner during the calendar year: **0**
C19	Number of Wells with wellhead remediation or repair during the calendar year: **0**
C20	Number of Wells with casing, wellhead, or tubing leaks during the calendar year: **0**
C21	Number of Wells with Pressure Test during the calendar year: **0**
C22	Number of Wells with Casing Evaluation for Corrosion/ metal loss during the calendar year: **0**
C23	Number of Wells inspected using a downhole assessment method other than “Pressure Test” and “Casing Evaluation for Corrosion/metal loss” during the calendar year*: **0** * Describe other assessment method(s):

PART B – STORAGE FACILITY (Complete Part B once for each independent storage facility)

B1.	Facility Name (chosen by operator): **McDonald Island**

B2.	Select only one: ☐ INTERState ☒ INTRAState	
	PHMSA USE ONLY Unit ID: **88724**	
B3.	Facility Location:	
	Latitude:	**37.99096**
	Longitude:	**- 121.47647**
	State:	**California**
	County:	**SAN JOAQUIN**
B4.	Energy Information Administration Gas Field Code: **077** Names of Reservoirs within this facility: **Mokelumne River**	

GAS VOLUMES

B5.	Working gas capacity (billion standard cubic feet (BCF)), *include two decimal places*: **37.08**
B6.	Base (also known as Cushion or Pad) gas (billion standard cubic feet (BCF)), include two decimal places: **99.49**
B7.	Total gas capacity (billion standard cubic feet (BCF)): **136.57**
B8	Metered volume of natural **gas withdrawn from the facility** for calendar year (billion standard cubic feet (BCF)), *include two decimal places:* **19.87**
B9.	Metered volume of natural gas **injected into the facility** for calendar year (billion standard cubic feet (BCF)), *include two decimal places*: **18.82**

PART C – RESERVOIRS AND WELLS ***(Complete Part C once for each reservoir or geologic storage formation within a facility)***

RESERVOIR Mokelumne River

C1.	Reservoir name (chosen by operator): **Mokelumne River**
C2.	Year reservoir placed in storage service: **1975**
C3.	Type (select only one): ☐ Salt Cavern ☒ Hydrocarbon Reservoir ☐ Aquifer Reservoir ☐ Other Description of type:
C4.	Maximum Wellhead Surface Pressure
C4a.	Name of the representative well: **McDonald Farms #4**
C4b.	Maximum surface pressure (pounds per square inch gauge (psig)) at the representative well: **2070**

RESERVOIR OR CAVERN(S) DEPTH

C5.	Approximate Maximum Depth (feet): **5315**
C6.	Approximate Minimum Depth (feet): **5150**

WELLS

C7. Number of Injection and/or Withdraw Wells by Year Range Placed in Storage Operation:

	Pre-1930	1930-1959	1960-1969	1970-2004	2005-present	Total
Injection and/or Withdrawal Wells	0	0	5	70	0	75

C8. Number of Monitoring and/or Observation Wells:

	Pre-1930	1930-1959	1960-1969	1970-2004	2005-present	Total
Monitoring and/or Observation Wells	0	4	1	1	1	7

C9.	Number of Wells drilled during the calendar year: **0**
C10	Wells plugged and abandoned during the calendar year
C10a.	Number of wells re-plugged during the calendar year: **0**
C10b.	Number of wells plugged but not abandoned during the calendar year: **0**
C10c.	Number of wells plugged and abandoned during the calendar year: **2**

WELL SAFETY VALVES

C11	Number of Wells with automated surface safety valves: **72**
C12	Number of Wells with subsurface safety valves: **65**

WELLS GAS FLOW

C13	Number of Wells with gas flow only through production tubing: **45**
C14	Number of Wells with gas flow only through production casing: **0**
C15	Number of Wells with gas flow through both production tubing and production casing: **28**
C16	Number of Wells with some “other type” of gas flow: **0** Describe the “other type” of gas flow through the well:

MAINTENANCE

C17	Number of Wells with new production tubing installed during the calendar year: **10**
C18	Number of Wells with new production casing, new liner, or repairs to casing or liner during the calendar year: **2**
C19	Number of Wells with wellhead remediation or repair during the calendar year: **12**
C20	Number of Wells with casing, wellhead, or tubing leaks during the calendar year: **0**
C21	Number of Wells with Pressure Test during the calendar year: **28**
C22	Number of Wells with Casing Evaluation for Corrosion/ metal loss during the calendar year: **14**
C23	Number of Wells inspected using a downhole assessment method other than “Pressure Test” and “Casing Evaluation for Corrosion/metal loss” during the calendar year*****: **0** * Describe other assessment method(s):

PART D – CONTACT INFORMATION

D1. Name of person submitting report: **Susie Richmond**

D2. Title of person in D1: **Manager, Regulatory Compliance**

D3. Work e-mail address of person in D1: **Susie.Richmond@pge.com**

D4. Work phone number of person in D1: **(925)786-0267**

D5. Name of person to contact with questions about this report: **Lucy Redmond**

D6. Title of person in D5: **Director Reservoir Engineering**

D7. Email address of person in D5: **Lucy.Redmond@pge.com**

D8. Phone number of person in D5: **(925)328-5793**