



**Pacific Gas and
Electric Company**

Curt Russell
Topock Onsite Project Manager
Environmental Affairs

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October 18, 2005

Norman Shopay, R.G.
Project Manager
California Department of Toxic Substances Control
Geology and Corrective Action Branch
700 Heinz Avenue
Berkeley, California 94710

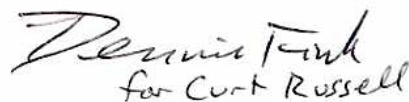
Subject: Submittal of Interim Measures No. 3 Treatment and Extraction System -
Construction Completion Report
PG&E Topock Compressor Station, Needles, California

Dear Mr. Shopay:

This letter transmits the *Interim Measures No. 3 Treatment and Extraction System - Construction Completion Report*. This report documents the completion of construction and startup of the IM-3 treatment system as conditionally approved by DTSC on September 21, 2004. This document is intended to satisfy Condition 23 in DTSC's July 15, 2005 letter requiring the submittal of a Construction Completion Report within 30 days of completion of the plant performance check.

If you have any questions regarding the information contained in this letter, please do not hesitate to call me at (760) 326-5582.

Sincerely,


for Curt Russell

cc: Ning-Wu Chang, DTSC

Interim Measures No. 3 Treatment and Extraction System - Construction Completion Report Topock Compressor Station Needles, California

Prepared for
Pacific Gas and Electric Company

October 2005

CH2MHILL
155 Grand Avenue, Suite 1000
Oakland, CA 94612

**Interim Measures No. 3 Treatment and Extraction System
Construction Completion Report
Topock Compressor Station
Needles, California**

October 2005

Prepared for
Pacific Gas and Electric Company

Prepared by
CH2M HILL

This document was prepared by CH2M HILL under the supervision of:



Dennis Fink, PE
No. 68986



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Acronyms and Abbreviations

BLM	Bureau of Land Management
DTSC	Department of Toxic Substances Control
gpm	gallons per minute
IM	Interim Measures
mg/L	milligrams per liter
PG&E	Pacific Gas and Electric Company
Water Board	California Regional Water Quality Control Board Colorado River Basin Region

1.0 Purpose

Pacific Gas and Electric Company (PG&E) is implementing an Interim Measure (IM) to address chromium concentrations in groundwater at the Topock Compressor Station near Needles, California under the oversight of the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC). The IM consists of groundwater extraction for hydraulic control of the plume boundaries in the Colorado River floodplain and management of extracted groundwater. The groundwater extraction, treatment, and injection systems collectively are referred to as Interim Measure No. 3 (IM No. 3). This document summarizes the construction and startup of the Interim Measures (IM) No. 3 Treatment and Extraction System. This document is intended to satisfy Condition 23 in DTSC's July 15, 2005 letter requiring the submittal of a Construction Completion Report within 30 days of completion of the plant performance check.

2.0 Synopsis

2.1 Synopsis of IM No. 3

The purpose of the IM No. 3 Treatment and Extraction System is to maintain hydraulic control of the plume boundaries near the Colorado River to achieve a net landward gradient away from the Colorado River. The IM No. 3 construction project described here includes:

- Extraction system of two extraction wells and conveyance pipeline.
- Treatment system to remove hexavalent chromium and total chromium from groundwater.
- Injection system to discharge treated groundwater.

Table 2-1 shows schedule milestones for construction and startup of the IM No. 3 system.

TABLE 2-1
Construction and Startup Schedule Synopsis
Interim Measures No. 3 Treatment and Extraction System - Construction Completion Report

Schedule Milestone	Date
Design Basis Report (CH2M HILL 2004) and preliminary design drawings submitted to DTSC.	July 30, 2004
Full design documents submitted to DTSC.	September 9, 2004
Construction starts.	September 27, 2004
Construction considered to be complete.*	July 2005
Startup with clean water begins.	May 2005
Startup with groundwater begins.	July 17, 2005
WDR 72-hour Performance Acceptance Test completed.	July 28, 2005
Injection of effluent begins.	July 31, 2005
Startup Report submitted to Water Board.	August 12, 2005
Startup considered to be complete,	September 19, 2005

* - Construction of original scope considered complete at this date. However, items added continue to be constructed such as TW-3D and PE-1.

2.2 Design Criteria

The design criteria of the IM No. 3 system were described in the *Interim Measures Number 3 Design Basis Report* (CH2M HILL 2004). The design criteria of the system include:

- Flow: Process 20 to 135 gallons per minute (gpm)

- Chromium removal: The *Design Basis Report* defined this as treating groundwater to less than 0.025 milligrams per liter (mg/L) of total chromium, and to not-detected levels (at a reporting limit of 0.010 mg/L) of hexavalent chromium. The hexavalent chromium limit was set at less than 0.008 mg/L of hexavalent chromium by the California Regional Water Quality Control Board Colorado River Basin Region (Water Board) Order No. R7-2004-0103.

The *Design Basis Report* described three discharge options: discharge to injection wells, discharge to the Colorado River, and reuse of discharged water at the compressor station. The system as constructed allows for discharge to injection wells. To date, there has been no system discharge to the Colorado River or reuse at the PG&E Compressor Station. PG&E has no plans to exercise these options at this time.

2.3 Certification System Constructed in Accordance with Final Plans

Certification that the IM No. 3 system was constructed per the design plans, as modified through consultation with DTSC, is provided by:

- Letters from CH2M HILL to San Bernardino County from the design engineers certifying that the system was constructed per design. Letters provided by each design discipline – civil/structural, mechanical, underground conveyance piping, and instrumentation and controls/electrical – were prepared and are included in Appendix A.
- San Bernardino County Land Use Services Department, Building and Safety Division building inspector verification that the facility was designed and built in accordance with all applicable requirements. A copy of this inspection certification is included in Appendix A. The site job card was signed by the County inspector July 14, 2005. That approval had one caveat: the completion of an inspection by the Fire Inspector of a fire detection system in the control building. This smoke detection system has been installed, but the inspection has not yet been completed.

3.0 Summary of Inspection Findings

Certification that the IM No. 3 system was constructed per the design plans, as modified through consultation with DTSC, is provided herein by:

- Letters from CH2M HILL to San Bernardino County from the design engineers certifying that the system was constructed per design. Letters provided by each design discipline – civil/structural, mechanical, underground conveyance piping, and instrumentation and controls/electrical – were prepared and are included in Appendix A.
- San Bernardino County Land Use Services Department, Building and Safety Division building inspector verification that the facility was designed and built in accordance with all applicable requirements. A copy of this inspection certification is included in Appendix A. The site job card was signed by the County inspector July 14, 2005. That approval had one caveat: the completion of an inspection by the Fire Inspector of a fire detection system in the control building. This smoke detection system has been installed, but the inspection has not yet been completed.

Inspection findings from the San Bernardino County Land Use Services Department, Building and Safety Division and the CH2M HILL design engineers of record are included in Appendix A.

4.0 Modifications to Final Design Plans

4.1 Changes During Construction

After DTSC conditional approval of the design plans of September 21, 2004, and throughout the construction period, regular communications were established between DTSC, PG&E, and CH2M HILL to communicate changes to the plans during construction and to seek DTSC approval. Changes to the design plans were numbered sequentially when raised, and approvals by the appropriate agencies (e.g., DTSC, Bureau of Land Management [BLM]) of the design changes were logged for tracking purposes. The final meeting in this series was held May 31, 2005. A record of the Design Change Tracking Log updated at that meeting is attached as Appendix B. Resolution of most items is documented in this log. Resolution of the following four items, which were unresolved as of May 31, 2005, is discussed in Table 4-1.

TABLE 4-1
Design Change Tracking – Resolution of Open Items
Interim Measures No. 3 Treatment and Extraction System - Construction Completion Report

Issues from Design Change Log Resolved After May 31	Resolution
#3 – Retaining wall	BLM, DTSC, PG&E agreed on a rock wall. The wall was installed.
#19a – Emergency generator	PG&E has leased a 400 kW generator.
#19b - Lighting	Lighting inside the plant was converted to sodium lighting, which has a yellow hue at the BLM's direction.
#44 – Air release valve	Due to BLM concerns of damage to Route 66 road bed, no rocks or other protective devices have been placed around the concrete boxes that house the air release valves on the line to the injection wells.

4.2 Changes During Startup

During startup, additional changes were made to the treatment system. These are shown in the as-built drawings in Appendix C, especially the Process and Instrumentation Diagrams. These design changes are shown in Table 4-2.

TABLE 4-2

Design Change Tracking – Design Changes to Original IM3 Project Since May 31, 2005

Interim Measures No. 3 Treatment and Extraction System - Construction Completion Report

A	Installed “flow trim” lines around automated flow control valves LCV-603, FCV-602, and FCV-615 so that the Reverse Osmosis Flow Control Loop and Effluent Total Dissolved Solids Blending could be controlled with the automated flow control valves across the range of design flows. Shown on drawing TP-PR-10-10-08.
B	PG&E is installing a magnetic flow meter on the ferrous chloride feed line near the point of injection into the process wastewater as additional assurance that disruptions in the feed of ferrous chloride will be detected. Earlier, addition of a low flow switch at this location had been attempted, but this proved to be unsuccessful. Shown on drawing TP-PR-10-05.
C	Installed pump and additional piping to remove chemicals from the microfilter after periodic chemical cleaning in place. Also added additional piping to carry normal backwash waste and turbidity meter flow-through water back to the Process Drain Tank. Shown on drawing TP-PR-10-10-07.
D	Related to Design Change #16 – Installed a new lab waste tank so that tank can be aboveground.
E	Related to Design Change #21 – Currently operating sodium hydroxide feed to Iron Oxidation Tanks in pH-based mode. (Change #21 involved potentially not being able to run in pH-based mode, as specified in the original design.)
F	Related to Design Change #35 – Have not yet installed the 7,000-gallon off-spec wastewater tank; tank is still stored at the compressor station awaiting Operations determination of its need.

5.0 Completion of Startup Testing

5.1 Startup Objectives Met

All objectives described in the *Interim Measures No. 3 Treatment and Extraction System - Initial Startup Plan* (Startup Plan) (CH2M HILL 2005) were met. The specific goals were to achieve the required effluent water quality, while demonstrating the flow capacity of the extraction, treatment, and injection system.

5.2 Startup Phases Completed

Each phase of startup was completed as described in Section 2.0 of the Startup Plan.

5.2.1 Pre-startup Acceptance

This phase was completed as described in the Startup Plan on a sub-system by sub-system basis, primarily in April and May. Some sub-systems were completed in July.

5.2.2 Clean Water Startup of Subsystems

This phase was completed in May and July, as described in the Startup Plan. Work included performing loop checks, checking alarms, and verifying the hydraulic capacity of the sub-systems across the design range of 20 to 135 gpm. The work included Commissioning Checklists from Appendix A of the Startup Plan.

5.2.3 Clean Water Startup of Entire System

This phase was completed in early July, as described in the Startup Plan, to ensure all subsystems function together. Work included ensuring that the plant checking process alarms and interlocks worked per design and verifying that the hydraulic capacity of 20 to 135 gpm of the system across the design range.

5.2.4 Groundwater Commissioning

This phase was completed in July, as described in the Startup Plan. Work included testing items that could not be simulated with clean water (e.g., reducing hexavalent chromium, oxidizing iron, forming floc, and removing solids by clarifier and microfilter), establishing the reaction chemistry, and verifying that treatment limits could be met. During this phase, effluent was trucked offsite and not injected. It took from July 17 to July 24 to commission the system.

5.2.5 72-hour Performance Acceptance Test

This phase was completed in July, as described in the Startup Plan. Samples were collected from the influent, effluent, and reverse osmosis streams on July 25 and July 27, 2005. All effluent samples were well below regulatory limits, as documented in the Startup Report submitted to the Water Board on August 12, 2005. During this phase, effluent was trucked offsite and not injected. The test was run from July 25 to July 28, 2005. Injection of treated water began on July 31, as the period of July 28 to 30 was needed to characterize the brine

for transport and disposal. The only exception to the Startup Plan is that influent flow was 70 gpm rather than the 40 to 60 gpm anticipated during the writing of the Startup Plan.

5.2.6 Plant Performance Check

This phase was completed as described in the Startup Plan from August 15 to September 14, 2005. The period of July 28 to August 14 was needed to address punch-list items in the treatment system. Onsite and offsite laboratory analysis of the effluent showed compliance with regulatory limits for pH and chromium. Per DTSC comment on the Startup Plan, the system was run at 135 gpm throughput for 5 days and at 20 gpm throughput for 3 days.

The 30-day plant check period described in Startup Plan was completed on September 14, 2005. During the September 6 to 9, 2005 low-flow testing, the system required frequent operator intervention to maintain flow balances. Therefore, additional low-flow testing was conducted from September 18 to 19, 2005.

The plant was set to 90 gpm as “normal plant operation” on September 19.

6.0 As-built Drawings

As-built drawings are provided in Appendix C (bound separately).

7.0 References

CH2M HILL. 2004. *Design Basis Report*. July 30.

_____. 2005. *Interim Measures No. 3 Treatment and Extraction System - Initial Startup Plan*. April.

Appendix A
Letter - Certification of System Construction in
Accordance with Final Plans



July 15, 2005

Norman Shopay, R.G.
Project Manager
California Department of Toxic Substances Control
Geology and Corrective Action Branch
700 Heinz Avenue
Berkeley, California 94710

Subject: Notification of completion – Permits and Approvals for Interim Measure No. 3
(IM-3) Start-Up
Pacific Gas and Electric Company, Topock Project

Dear Mr. Shopay:

This letter provides Pacific Gas and Electric Company's (PG&E) notification of our receipt of permits and approvals necessary to start up the Interim Measure No. 3 (IM-3) system at Topock. The attached checklist provides the listing of required permits and approvals for IM-3 and shows the status of "completed" for each of these items. The checklist provides the list of requirements of the Department of Toxic Substances Control (DTSC) as well as other agencies (Colorado River Basin Regional Water Quality Control Board (RWQCB), State Water Resources Control Board, Air Quality Management District, U.S. Environmental Protection Agency, San Bernardino County (CUPA), and the U.S. Bureau of Land Management (BLM)).

A summary of the key agency approvals is as follows:

- San Bernardino County has issued the required permits and approvals for IM-3, including the Temporary Use Permit and Certificate of Occupancy. The San Bernardino County permits are provided as attachments to this letter.
- Requirements of the RWQCB-issued Waste Discharge Requirements R7-2004-0103 for start-up have been completed, including submittal of the Compliance Monitoring Plan, Injection System O&M Plan, Treatment System Start-up Report, Solid Waste Management Plan, and Contingency Plan.
- BLM has issued a letter to PG&E stating that the startup of IM-3 facilities crossing BLM property is approved. The BLM approval is provided as an attachment to this letter.

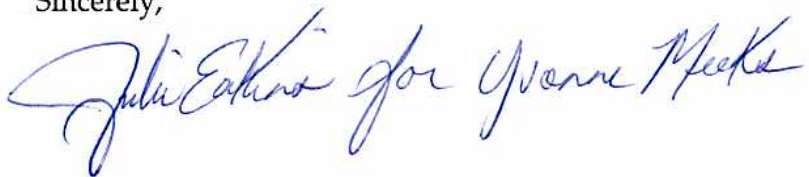
As the required permits are in place, notifications and approvals are complete, and required documentation is onsite (list of documentation onsite is included as an attachment to this letter), PG&E has met the requirements for startup of the IM-3 system, and this letter serves as notification to DTSC that PG&E intends to start up the IM-3 system on July 16, 2005. Startup will commence with groundwater commissioning (treating groundwater and

Mr. Norman Shopay
July 15, 2005
Page 2

returning treated groundwater to the MW-20 bench), followed by the WDR-required 3-day performance testing, initiation of injection, and the 30-day plant check.

We look forward to receiving your approval to proceed with startup of the IM-3 system. If you have any questions, please call me at (805) 546-5243.

Sincerely,



Attachments

1. Checklist of Agency Requirements Prior to Operation of Interim Measures No. 3, Status July 15, 2005
2. Bureau of Land Management (BLM) Concurrence to Proceed with Interim Measures No. 3 Facility Startup
3. Fax from the County of San Bernardino dated July 14, 2005 providing approval of the Certificate of Occupancy
4. Grading for Water Treatment Plant Permit from County of San Bernardino Land Use Services Department, Building and Safety Division, Issued September 24, 2004
5. Water Treatment Plant Permit from County of San Bernardino Land Use Services Department, Building and Safety Division, Issued October 6, 2004
6. Letter from the County of San Bernardino Land Use Services Department dated October 13, 2004 containing conditions of approval for the remediation plan (Use Permit).
7. Temporary Use Permit from County of San Bernardino Land Use Services Department, Issued July 8, 2005
8. Sewage Holding Tank Construction Permit, Department of Public Health
9. Sewage Holding Tank Operating Permit Issued by San Bernardino County Department of Public Health
10. Letter from County of San Bernardino Fire Department dated May 2, 2005 providing approval of the Hazardous Materials Business Plan. [Under approval from the Certified Unified Program Agency (CUPA), IM-3 hazardous materials handling activities are considered an addendum to the PG&E Topock Compressor Station's Business Plan]
11. Pacific Gas & Electric Company Topock Compressor Station, Environmental Compliance Permits, Plans, and Notifications, Updated July 15, 2005

cc: Karen Baker
Aaron Yue
Kate Burger
Ning-Wu Chang

Attachments

CHECKLIST OF AGENCY REQUIREMENTS PRIOR TO OPERATION OF INTERIM MEASURES NO. 3 TREATMENT AND INJECTION SYSTEM
Status July 14, 2005

Agency	Permit/Condition	Details	Status	Action Needed Prior to Operation	Items Completed for Operational Start
DTSC	DTSC's five hydrogeologic/water quality criteria	<ul style="list-style-type: none"> Subsurface geology and hydrogeology need to be understood in area impacted by injection. 	DTSC's five criteria addressed in Revised <i>Groundwater and Hydrogeologic Investigation Report</i> for IM No. 3 Injection Area submitted to DTSC on 6/22/05. Document was revised per DTSC 5/24/05 letter.	None	X
		<ul style="list-style-type: none"> Injection wells must demonstrate capability to accept maximum expected flow rate of treated water plus a 50% contingency factor. Equates to a minimum flow of 200gpm, which must be available at all times, even when one well is offline for maintenance. 			X
		<ul style="list-style-type: none"> Extent of groundwater contamination in area impacted by injection needs to be characterized. 			X
		<ul style="list-style-type: none"> A sufficient number of monitoring and observation wells need to be installed to monitor the aquifer during injection. 			X
		<ul style="list-style-type: none"> Estimated flow and rate of movement of injected groundwater needs to be modeled and understood. 			X
DTSC	DTSC's 5/24/05 letter	<ul style="list-style-type: none"> Contingency Plan for response actions associated with operation of injection well field 	Submitted 6/3/05	None	X
		<ul style="list-style-type: none"> Tech memo: Baseline water quality in IM3 injection area 	Submitted 6/10/05		X
		<ul style="list-style-type: none"> Groundwater elevation contour maps for injection well field area 	Submitted 6/10/05		X
		<ul style="list-style-type: none"> Revised Compliance Monitoring Plan 	Submitted 6/17/05		X
DTSC	1996 CACA	<ul style="list-style-type: none"> Treatment System O&M Plan 	Submitted to DTSC 4/11/05	None	X
		<ul style="list-style-type: none"> Treatment System Start-Up Plan - CACA specifies startup procedures be part of O&M Manual. PG&E will submit as separate document. 	Submitted to DTSC 4/6/05	None	X
DTSC	DTSC email 6/24/05	<ul style="list-style-type: none"> Emergency Notification Binder; must be in place before DTSC will approve start-up with groundwater 	Submitted to DTSC on 7/11/05	None	X

CHECKLIST OF AGENCY REQUIREMENTS PRIOR TO OPERATION OF INTERIM MEASURES NO. 3 TREATMENT AND INJECTION SYSTEM
Status July 14, 2005

Agency	Permit/Condition	Details	Status	Action Needed Prior to Operation	Items Completed for Operational Start
Regional Water Board	WDR R7-2004-0103 (Oct 13, 2004)	<ul style="list-style-type: none"> Design Plan for Groundwater Compliance Monitoring - must be submitted for approval by Executive Officer within 45 days of adoption of Board Order 	Draft submitted to Water Board and DTSC on 11/23/04. Incorporated agency comments and submitted Final to Water Board and DTSC on 1/5/05.	None	X
		<ul style="list-style-type: none"> Groundwater Compliance Monitoring Plan - must be submitted for approval by Executive Officer at least 30 days prior to discharge 	Draft Compliance Monitoring Plan submitted 4/11/05. Water Board provided comments on 5/16/05. Final document submitted 6/17/05.	None	X
		<ul style="list-style-type: none"> Injection System O&M Plan - must be submitted for approval by Executive Officer at least 30 days prior to discharge 	Draft submitted to Water Board and DTSC on 4/7/05. Water Board provided comments on 5/16/05 - address power failure at injection wells. Addendum to O&M plan to address power failure comment submitted on 6/30/05.	None	X
		<ul style="list-style-type: none"> Treatment System Start-Up Report - must be submitted no more than 15 days after completion of start-up phase. 	To be prepared following startup	None	N/A
		<ul style="list-style-type: none"> Solid Waste Management Plan - must be submitted and approved prior to disposal of treated or untreated solid waste. 	Submitted to Water Board on 3/24/04. Water Board provided comments on 5/16/05 - correct error. Letter of clarification submitted on 7/01/05.	None	X
		<ul style="list-style-type: none"> Contingency Plan for any plant upset - must be submitted for approval by Executive Officer at least 30 days prior to discharge 	Submitted 4/15/05 as part of Treatment System O&M Plan. RWQCB provided comments on 5/16/05. Submitted supplement on 6/3/05 to address RWQCB comments.	None	X
		<ul style="list-style-type: none"> Must inform Water Board in writing of the locations of all sampling stations and the expected start up date - at least 10 days prior to beginning operational start up 	Sampling locations letter submitted to RWQCB on 6/29/05.	None	X

CHECKLIST OF AGENCY REQUIREMENTS PRIOR TO OPERATION OF INTERIM MEASURES NO. 3 TREATMENT AND INJECTION SYSTEM
Status July 14, 2005

Agency	Permit/Condition	Details	Status	Action Needed Prior to Operation	Items Completed for Operational Start
		<ul style="list-style-type: none"> System effluent cannot be injected until sampling results from first day indicate effluent is in compliance. 	Effluent will be transported to offsite permitted facility for first 3 days; if sampling results during that timeframe indicate effluent is in compliance, will begin injection.	N/A	N/A
State Water Board	Notice of Intent for Industrial Activity	Under General Permit for stormwater discharge associated with industrial activity	Submitted to State Water Board approx. 4/8/05. Issuance of WDID #.	None	X
State Water Board	Stormwater Pollution Prevention Plan	Needs to be in place at time of system operation.	Will not be submitted to agency (to be retained on file).	None	X
AQMD	Permit to Operate	Authority to Construct currently in place is effectively temporary Permit to Operate. Letter is required documenting list of equipment at treatment system.	Letter submitted 3/24/05. AQMD has issued official Permit to Operate.	None.	X
EPA	Underground Injection Notification	Form identifying locations of injection wells.	Submitted 3/24/05.	None	X
County	Temporary Use Permit (TUP)	Required for modular office/lab space.	Planning Dept Issued on 7/12/05	None	X
County	Condition Compliance Release for Occupancy/Use Form	Release by specified county agencies required prior to project clearance.	Occupancy permit issued on 7/14/05	None	X
CUPA	Conditional Authorization for hazardous waste treatment	PG&E submitted notification package prior to construction.	CUPA issued approval letter 9/22/04, with condition that Financial Assurance Mechanism for Closure be submitted 30 days prior to system operation. PG&E submitted mechanism.	None	X
CUPA	Hazardous Material Business Plan Permit	Due within 30 days of first handling hazardous materials.	Submitted 4/27/05.	None	X
BLM		Concurrence from BLM that SB County's requirements for IM-3 facilities on BLM property are met	Letter of Authorization from Field Office Manager	None	X

BLM Fax Cover Sheet

Bureau of Land Management
Lake Havasu Field Office

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Date

7/15/05

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Notes/Comments:



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

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928-505-1200
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In Reply Refer To:
CAAZCA 43660 (300)

July 15, 2005

Yvonne Meeks
Portfolio Manager – Site Remediation
Pacific Gas & Electric Company
4325 South Higuera Street
San Luis Obispo, California 93401

RE: Bureau of Land Management (BLM) concurrence to proceed with Interim Measures No.3 facility start up

Dear Ms. Meeks:

This letter authorizes Pacific Gas & Electric (PG&E) to commence operation of the facilities on public land associated with the operation of the "Interim Measure No 3 Treatment Facility" (IM-3) located on PG&E property. Installation of these facilities on public land was previously authorized by the BLM as a time critical removal action pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) by Action Memorandum dated September 17, 2004 (Action Memo No 3).

This authorization to proceed is conditioned on PG&E's full compliance with the terms and conditions of Action Memo No 3 as well as all terms and conditions specified in the following documents, copies of which have been provided to BLM:

1. Letter to Mr. Gary Givens (San Bernardino County) dated June 29, 2005 from the PG&E engineer of record for the IM-3 electrical systems;
2. Letter to Mr. Gary Givens (San Bernardino County) dated July 6, 2005 from the PG&E engineer of record for the IM-3 aboveground piping and mechanical systems;
3. Letter to Mr. Gary Givens (San Bernardino County) dated June 14, 2005 from the PG&E engineer of record for the IM-3 civil and structural work;
4. Letter to Mr. Gary Givens (San Bernardino County) dated June 21, 2005 from the PG&E engineer of record for the IM-3 underground conveyance piping;

5. San Bernardino County final inspection which was performed on July 13, 2005;
6. Final occupancy permit dated July 17, 2005 which includes the release form signed by the Building and Safety Division.

If you have any questions concerning this authorization to proceed please contact Cathy Wolff-White at (928) 505-1309 or Sally Murray at (928) 505-1238.

Sincerely,

/s/ ROBERT M. HENDERSON

Timothy Z. Smith
Field Manager

cc:

Norman Shopay
Department of Toxic Substances
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Berkley, California 94710-2721

Linda Otero
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FAX

SAN BERNARDINO COUNTY
Land Use Services Department
BUILDING AND SAFETY DIVISION
57407 29 Palms Outer Hwy. South
Yucca Valley, California 92284

Date 7-14-05Number of pages including cover sheet 7

To:

From:

Norman Shopay DTSC 510-540-3937Cathy Wolf-White BLM 828-505-1280John G. Fells CH2M Hill 760-326-3329Dennis Fink CH2M Hill 510-893-8205Gary Grew

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Fax Phone

(760) 228-5449 909-866-0172

CC:

REMARKS:☒ As requested☐ Urgent☐ For your Review☐ Reply ASAP☐ Please Comment

Certificate of Occupancy is Approved
The Job Card serves as the Evidence of occupancy
Approval from Building and Safety. County Planning will
Forward the planning Certificate upon completion of paperwork.
Please note the attached memo from Doug Crawford regarding
The alarm system. I will be bringing the Job Card to the site
next week.
If you have any questions I will be in Big Bear today and
Yucca Valley on Friday

OWNER Metropolitan Water DATE 10-6-04
 LOCATION 144950 Hwy 58 Needles

INSPECTION RECORD

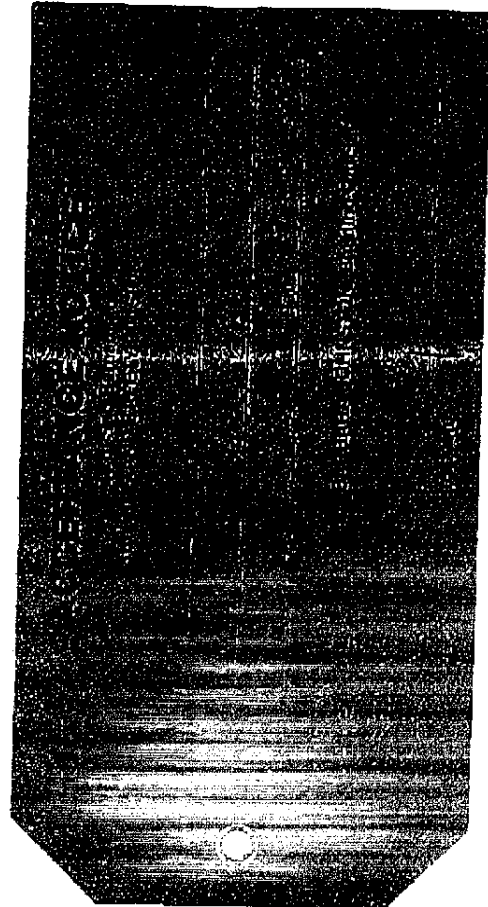
INSPECTION	DATE	INSPECTOR
Setback		
Temporary Power	<u>10-21-04</u>	<u>[Signature]</u>
Foundation Reinforcing Steel		
Rough Grading Certification		
F.H.A. Foundation Requirements		
Excavation and Forms	<u>5-11-05</u>	<u>[Signature]</u>
Slab Grade		
Ground Plumbing		
Underslab Ducts		
Underslab Conduit		
Fireplace Foundation		
Joists and Girders		
Electrical Ground		
DO NOT CONCEAL UNTIL ABOVE ARE SIGNED AND DATED		
Mid-Height Bond Beam		
8-Foot Bond Beam		
Final Bond Beam		
Fireplace Bond Beam		
Shear Panel		
Roof Sheathing		
Framing and Ventilation		
Roof Covering		
Rough Heating		
Electrical Service and Ground		
Rough Electrical		
Rough Plumbing		
Shower Pan Test		
Stucco Mesh or Exterior Siding		
Rough Fire		
DO NOT CONCEAL UNTIL ABOVE ARE SIGNED AND DATED		
Insulation		
Sewer		
Interceptor		
Septic Tank		
Leach Line or Seep Pit		
Water Service		
DO NOT CONCEAL UNTIL ABOVE ARE SIGNED AND DATED		
Lath or Drywall Nailing		
Gas Line Air Test		
Final Energy		
Final Plumbing *		
Final Heating/A.C.		
Special Inspector Reports		
Final Grading Certification		
Final Construction *		
Final On-Site Improvements		
Final Off-Site Improvements		
Final Dedication		
Final Zoning		
Final Electrical *		
Final Gas		
* Final Fire		
Developer Fees Paid		
Certificate of Occupancy	<u>7-14-05</u>	<u>[Signature]</u>

NOTICE TO OWNER!

Call for FINAL inspection on every job. This permit will expire if work is suspended or abandoned for a period of 180 days.
 Call for inspection every 180 days to help keep permit active.

FILE THIS CARD WITH YOUR PERMANENT RECORDS WHEN JOB IS COMPLETED

12 1659-487 Rev. 10/93



Given, Gary - Building and Safety

From: Crawford, Doug

Sent: Thursday, July 14, 2005 8:14 AM

To: Given, Gary - Building and Safety

Gary

The alarm plans are in our office and will be out next week, I do not see any problem with a temporary C of O starting today. If you have any questions please contact me.

Thanks

Douglas Crawford
Planning and Engineering Supervisor
San Bernardino County Fire Department
(909) 386-8465 Fax (909) 386-8460
e-mail dcrawford@shcfire.org

07/14/2005

9188 South Jamaica Street
Englewood, CO 80112-5946
P.O. Box 22508
Denver, CO 80222-0508
Tel 303.771.0800
Fax 720.286.9250

**CH2MHILL**

June 29, 2005

Gary Given
San Bernardino County – Building and Safety Division
Big Bear Office
477 Summit Boulevard
P.O. Box 2835
Big Bear Lake, CA 92315

Subject: Occupancy Permit – Topock IM3 Project

Dear Mr. Given:

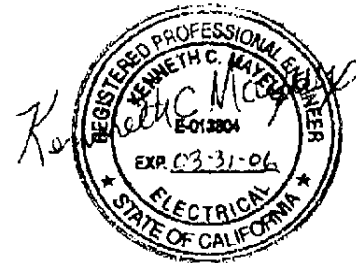
During the construction of the IM-3 Project I have been in communication with the construction team at the site responding to Requests For Information, clarifying design details and providing general engineering support. I visited the site on June 28 through June 30, 2005, and inspected the installation of equipment, and instrumentation, installation of conduit, cable tray and wiring, and reviewed the electrical test results.

Based on my review I am satisfied the plant has been constructed in accordance with the design drawings and specifications in effect on June 30, 2005.

Regards,

Kenneth C. Mayeux (CA License E-013804)
CH2MHILL

Cc: Phil Schoenecke
Alan Johnston
Project File 315994.PS.07.SD



**CH2MHILL**

155 Grand Avenue
Suite 1000
Oakland, CA 94612
P.O. Box 12681
Oakland, CA
94604-2681
Tel 510.251.2428
Fax 510.893.8205

June 21, 2005

Gary Givens
San Bernardino County Building and Safety Division
Big Bear Office
477 Summit Blvd.
P.O. Box 2835
Big Bear Lake, CA 92315

Subject: Underground Conveyance Piping
IM-3 Facility
PG&E Topock Compressor Station
15 mi East of Needles, CA

Dear Mr. Givens:

This letter is submitted in reference to the construction and testing of the underground conveyance pipelines at the Pacific Gas and Electric (PG&E) Topock IM-3 Facility. The conveyance piping is installed between the facility and the MW-20 Bench along Park Moabi Road (refer to project drawings TP-PC-10-01 through -09).

As the engineer-of-record for the pipelines, I visited the site during construction to confer with site engineers and the project superintendent. I observed the installation of a portion of the pipelines and reviewed construction photos of the remainder. All work was performed in accordance with the design drawings prepared under my direction.

I reviewed the results of pressure testing conducted along discrete sections of the pipelines following installation. This pressure testing was overseen by Mr. Duane Budd, the site engineer. Each section of each underground pipeline passed inspection.

In addition, I visited the site during the weeks of May 30 and June 6, 2005 to oversee pressure testing of the entire length of each underground pipeline. Each pipeline was pressure tested with water to 150% of design pressure for one hour. The annular regions in the two dual-containment pipelines were tested using air at 5 psi for 10 minutes. All of the pipelines passed inspection.

It is my professional opinion that each of the underground conveyance pipelines has been installed in accordance with the approved design and is suitable for the intended application.

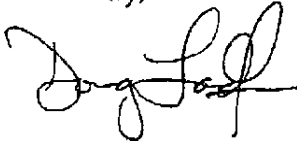
Mr. Gary Givens

Page 2

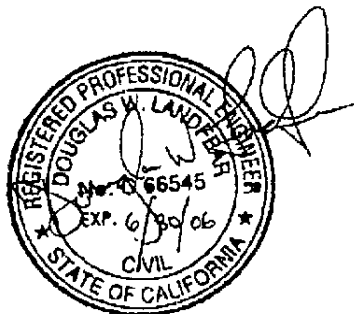
June 21, 2005

If you have further questions or comments, please do not hesitate to contact me at (510) 587-7713 or at doug.landfear@ch2m.com.

Sincerely,



Doug Landfear, P.E.
California License No. C 66545



**CH2MHILL****CH2M HILL**

9189 South Jamaica Street

Englewood, CO 80112-5046

P.O. Box 22608

Denver, CO 80222-0508

Tel 303.771.0800

Direct 720.286.5439

Fax 720.286.0622

June 17, 2005

Attn: Gary Given

San Bernardino County - Building and Safety Division

Big Bear Office

477 Summit Boulevard

P.O. Box 2835

Big Bear Lake, CA 92315

Subject: Occupancy Permit - Topock IM3 Project

Dear Mr. Given:

During the construction of the above named project, I have monitored, reviewed and inspected the civil and structural work done at the site, and I am satisfied that all work was done in accordance with the design drawings, specifications, and local and national building codes, in force at the time of the project construction.

I have also reviewed all structural inspection reports and find no questions or concerns.

Regards,

Mario N. Scacco, P.E. (CA Civil License #37744)

cc: Phil Schoenecke
Alan Johnston
Project File 315994.PS.07.SD





COUNTY OF SAN BERNARDINO
LAND USE SERVICES DEPARTMENT

RECEIPT
NUMBER

BR04-14284

Activity Number: B200410838

TYPE: GRAD/EC

SITE ADDRESS: 144950 HWY 58 NED

PAYMENT DATE: 08/18/2004

PARCELS: 0650-151-060000

RECEIPT ISSUED BY: S2678

FEE PAYOR: CH2MHILL

OFFICE: 201

ACCOUNT ITEM LIST:

Item#	Description	Account Code	Tot Fee	Paid	Prv.	Pmts	Cur.	Pmts
60	Grading Fees	AAA BNS BNS	354.90	354.90	.00		354.90	
120	Plan Review	AAA BNS BNS	141.96	141.96			.00	
190	Map Fund/Zoning	AAA BNS BNS	5.25	5.25	.00		5.25	
200	Microfilm	AAA BNS BNS	.30	.30	.00		.30	

TRUST TRANS LIST:

Type	Method	Description	Amount
Payment	Check	407639	360.45

TOTAL RECEIVED: \$ 360.45

2314 South Mountain Avenue, Ontario, CA 91762	385 North Arrowhead Avenue, San Bernardino, CA 92415-0182
477 Summit Blvd. (P.O. Box 2835), Big Bear Lake, CA 92315	301 East Mt. View Avenue, Barstow, CA 92311
15505 Civic Drive, Victorville, CA 92392	26010 State Highway 189 (P.O. Box 709), Twin Peaks, CA 92391
	57407 Twentynine Palms Outer Highway South, Yucca Valley, CA 92284



COUNTY OF SAN BERNARDINO
LAND USE SERVICES DEPARTMENT
BUILDING AND SAFETY DIVISION

PERMIT
NUMBER

B200410838

GRADING FOR WATER TREATMENT PLANT PERMIT

Date Issued: 09/24/2004 User Id: K0390 Region: 511 Index: 1449-253
Status: ISSUED Use Code: 235R Sub-Type: GRAD/EC

Job Site Address: 144950 HWY 58 NED
Cross Street: OLD HIGHWAY 58
Parcel Number: 0650-151-06-0000 Parcel Map:
Tract: Blk: Lot: Sec: SW5 Twn: 7N Parcel: Rng: 24E

Applicant: CH2M HILL CONTRACTORS Phone: 714-435-6168
Address: 3 HUTTON CENTRE DRIVE SANTA ANA 92707

Owner: METROPOLITAN WATER DIST OF SO CALIF Phone:
Address: P O BOX 54153 LOS ANGELES CA 90054

Contractor: CH2M HILL CONTRACTORS License: 733633 Phone: 714-435-6168
Address: 3 HUTTON CENTRE DRIVE SANTA ANA 92707

*****Minimum Setback Requirements*****

	Distance in Feet	C/L of Street	R/W	Direction	From P/L	From Easement
Front:	0				N	N
Rear:	0				N	N
Side:	0				N	N
Side:	0				N	N
Side:	0				N	N

*****Land Use*****

Lot Dimension: 100 ACRES M/L Land Use District: RC;
Planning Area: Geo Overlays: ; ;
Hazard Overlays: ; ; ; ;
Existing Use: VACANT Improvement Level: 5

*****Construction Information*****

Water Public: N Private: N Sewer Public: N
Sewer Private: N Tank: 0 Depth: 0 SqFt: 0
Sign Sqft: 0 Block Wall Sqft: 0
Existing Occ: VACANT Proposed Occ:
Existing Bldgs: 0 Retain Wall Sqft: 0 New Bldgs: 0
Construct Type: Proposed SqFt: 0 Valuation: \$0.00

*****Comments/Conditions*****

S2678 07/29/2004 OK to submit plans for grading per Henry Rowe. No cut and fill on the plans/confirm DEPARTMENT REVIEW is APPROVED prior to ISSUANCE of PERMIT.
S2678 09/17/2004 WDID NUMBER 736C329173.

EXPIRATION AND REFUND NOTICE: Applications for which no permit is issued within 180 days from the date of application shall expire. Permits shall expire if work does not commence within 180 days of issuance of such permit or if the work is suspended or abandoned for a period of 180 days. Fees paid are not refundable after one (1) year from date of payment. All fees paid may not be refundable

385 N. Arrowhead Avenue, San Bernardino, CA 92415-0182 Info/Inspections: (909) 387-4244
2314 South Mountain Avenue, Ontario, CA 91762 301 E. Mt. View Avenue, Barstow, CA 92311
Info: (909) 458-1540 Info/Inspections: (760) 256-4750
477 Summit Blvd. (P.O. Box 2835), Big Bear Lake, CA 92315 26010 State Highway 189 (P.O. Box 709), Twin Peaks, CA 92391
Info: (909) 866-0170 Inspections: (909) 866-0194 Info: (909) 336-0640 Inspections: (909) 336-0641
15505 Civic Drive, Victorville, CA 92392 57407 Twentynine Palms Outer Highway South, Yucca Valley, CA 92284
Info: (760) 241-7691 Inspections: (760) 243-8242 Info/Inspections: (760) 228-5430 or (800) 722-8511

PROVIDE PERMIT NUMBER WHEN CALLING FOR INSPECTION.
HAVE APPROVED PLANS ON JOB AT TIME OF INSPECTION.

OWNER Metropolitan Water DATE 9-24-04
LOCATION 144950 Hwy 58 Needles

INSPECTION RECORD

INSPECTION	DATE	INSPECTOR
Setback		
Temporary Power		
Foundation Reinforcing Steel		
Rough Grading Certification		
F.H.A. Foundation Requirements		
Excavation and Forms		
Slab Grade		
Ground Plumbing		
Underslab Ducts		
Underslab Conduit		
Fireplace Foundation		
Joists and Girders		
Electrical Ground		
DO NOT CONCEAL UNTIL ABOVE ARE SIGNED AND DATED		
Mid-Height Bond Beam		
8-Foot Bond Beam		
Final Bond Beam		
Fireplace Bond Beam		
Shear Panel		
Roof Sheathing		
Framing and Ventilation		
Roof Covering		
Rough Heating		
Electrical Service and Ground		
Rough Electrical		
Rough Plumbing		
Shower Pan Test		
Stucco Mesh or Exterior Siding		
Rough Fire		
DO NOT CONCEAL UNTIL ABOVE ARE SIGNED AND DATED		
Insulation		
Sewer		
Interceptor		
Septic Tank		
Leach Line or Seep Pit		
Water Service		
DO NOT CONCEAL UNTIL ABOVE ARE SIGNED AND DATED		
Lath or Drywall Nailing		
Gas Line Air Test		
Final Energy		
Final Plumbing		
Final Heating/A.C.		
Special Inspector Reports		
Final Grading Certification		
Final Construction		
Final On-Site Improvements		
Final Off-Site Improvements		
Final Dedication		
Final Zoning		
Final Electrical		
Final Gas		
Final Fire		
Developer Fees Paid		
Certificate of Occupancy		

NOTICE TO OWNER!

Call for FINAL inspection on every job. This permit will expire if work is suspended or abandoned for a period of 180 days. Call for inspection every 180 days to help keep permit active.

FILE THIS CARD WITH YOUR PERMANENT RECORDS WHEN JOB IS COMPLETED



COUNTY OF SAN BERNARDINO
LAND USE SERVICES DEPARTMENT

RECEIPT
NUMBER

BR04-13698

Activity Number: B200411472

TYPE: COMBO

SITE ADDRESS: 144950 HWY 58 NED

PAYMENT DATE: 08/10/2004

PARCELS: 0650-151-060000

RECEIPT ISSUED BY: G0109

FEE PAYOR: CH2M HILL CONSTRUCTORS, INC.

OFFICE: 201

ACCOUNT ITEM LIST:

Item#	Description	Account Code	Tot Fee	Paid	Prv.	Pmts	Cur.	Pmts
10	Construction Fe	AAA BNS BNS	16,993.25	16,993.25	.00	16,993.25		
120	Plan Review	AAA BNS BNS	15,293.93	15,293.93	.00	15,293.93		
130	SMIP	NRW BNS BNS	616.04	616.04	.00	616.04		
190	Map Fund/Zoning	AAA BNS BNS	5.25	5.25	.00	5.25		
200	Microfilm	AAA BNS BNS	.30	.30	.00	.30		

TRUST TRANS LIST:

Type	Method	Description	Amount
Payment	Check	407430	32,908.77

TOTAL RECEIVED: \$ 32,908.77

385 North Arrowhead Avenue, San Bernardino, CA 92415-0182
2314 South Mountain Avenue, Ontario, CA 91762
477 Summit Blvd. (P.O. Box 2835), Big Bear Lake, CA 92315
15505 Civic Drive, Victorville, CA 92392
301 East Mt. View Avenue, Barstow, CA 92311
26010 State Highway 189 (P.O. Box 709), Twin Peaks, CA 92391
57407 Twentynine Palms Outer Highway South, Yucca Valley, CA 92284

Commercial Plan Check Submittal Form

Plan Check Number: B200411472

Date Submitted: 08/10/2004

UserID: G0109

Region: 511

Index: 1449-253

Status: PLAN REV

Use Code: 201W

Sub-Type: COMBO

Job Site Address: 144950 HWY 58

NED

Cross Street: OLD HIGHWAY 58

Parcel Number: 0650-151-06-0000

Parcel Map:

Tract: Blk: Lot: Sec: SW5 TwN: 7N

Parcel: Rng: 24E

Applicant: CH2M HILL CONTRACTORS

Phone: 714-435-6168

Address: 3 HUTTON CENTRE DRIVE SANTA ANA 92707

Architect: License: Phone:

Address: License: Phone:

Engineer: License: Phone:

Address: Phone:

Owner: METROPOLITAN WATER DIST OF SO CALIF

Address: P O BOX 54153 LOS ANGELES CA 90054

*****Minimum Setback Requirements*****

	Distance in Feet	C/L of Street	R/W	Direction	From P/L	From Easement
Front:	0				N	N
Rear:	0				N	N
Side:	0				N	N
Side:	0				N	N
Side:	0				N	N

*****Land Use*****

Lot Dimension: 100 ACRES

Land Use District: RC;

Planning Area:

Geo Overlays: ; ;

Hazard Overlays: ; ; ; ;

Improvemt Level: 5

*****Construction Information*****

Water Public: N

Private: N

Sewer Public: N

Sewer Private: N

Tank: 0

Depth: 0

SqFt: 0

Existing Occ: VACANT

Block Wall Sqft: 0

Proposed Occ:

Existing Bldgs: 0

New Bldgs: 0

Sign Sqft: 0

Construct Type:

Proposed SqFt: 0

Valuation: 2,933,508.00

Retain Wall Sqft: 0

Existing Use: VACANT

Description: WATER TREATMENT PLANT

*****Comments/Conditions*****



COUNTY OF SAN BERNARDINO
LAND USE SERVICES DEPARTMENT
BUILDING AND SAFETY DIVISION

PERMIT
NUMBER

B200411472

WATER TREATMENT PLANT PERMIT

Date Issued: 10/06/2004 User Id: G0109 Region: 511 Index: 1449-253
Status: ISSUED Use Code: 201W Sub-Type: COMBO

Job Site Address: 144950 HWY 58 NED
Cross Street: OLD HIGHWAY 58

Parcel Number: 0650-151-06-0000 Parcel Map:
Tract: Blk: Lot: Sec: SW5 Twn: 7N Parcel: Rng: 24E

Applicant: CH2M HILL CONTRACTORS (GEORGE GROTE) Phone: 714-435-6088
Address: 3 HUTTON CENTRE DRIVE SANTA ANA 92707

Owner: METROPOLITAN WATER DIST OF SO CALIF Phone:
Address: P O BOX 54153 LOS ANGELES CA 90054

Contractor: CH2M HILL CONTRACTORS License: 733633 Phone: 714-435-6168
Address: 3 HUTTON CENTRE DRIVE SANTA ANA 92707

*****Minimum Setback Requirements*****

	Distance in Feet	C/L of Street	R/W	Direction	From P/L	From Easement
Front:	0				N	N
Rear:	0				N	N
Side:	0				N	N
Side:	0				N	N
Side:	0				N	N

*****Land Use*****

Lot Dimension: 100 ACRES Land Use District: RC;
Planning Area: Geo Overlays: ; ;
Hazard Overlays: ; ; ; ;
Existing Use: VACANT Improvement Level: 5

*****Construction Information*****

Water Public: N	Private: N	Sewer Public: N	
Sewer Private: N	Tank: 0	Depth: 0	SqFt: 0
Sign Sqft: 0		Block Wall Sqft: 0	
Existing Occ: VACANT		Proposed Occ:	
Existing Bldgs: 0	Retain Wall Sqft: 0	New Bldgs: 0	
Construct Type:	Proposed SqFt: 0	Valuation: 2,933,508.00	

*****Comments/Conditions*****

EXPIRATION AND REFUND NOTICE: Applications for which no permit is issued within 180 days from the date of application shall expire. Permits shall expire if work does not commence within 180 days of issuance of such permit or if the work is suspended or abandoned for a period of 180 days. Fees paid are not refundable after one (1) year from date of payment. All fees paid may not be refundable

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477 Summit Blvd. (P.O. Box 2835), Big Bear Lake, CA 92315 Info: (909) 866-0170 Inspections: (909) 866-0194	301 E. Mt. View Avenue, Barstow, CA 92311 Info/Inspections: (760) 256-4750
15505 Civic Drive, Victorville, CA 92392 Info: (760) 241-7691 Inspections: (760) 243-8242	26010 State Highway 189 (P.O. Box 709), Twin Peaks, CA 92391 Info: (909) 336-0640 Inspections: (909) 336-0641
	57407 Twentynine Palms Outer Highway South, Yucca Valley, CA 92284 Info/Inspections: (760) 228-5430 or (800) 722-8511

MAKE THIS CARD AVAILABLE FOR ALL INSPECTIONS.
PROVIDE PERMIT NUMBER WHEN CALLING FOR INSPECTION.
HAVE APPROVED PLANS ON JOB AT TIME OF INSPECTION.

OWNER Metropolitan Water DATE 10-6-04
LOCATION 144950 Hwy 58 Needles

INSPECTION RECORD

INSPECTION	DATE	INSPECTOR
Setback		
Temporary Power		
Foundation Reinforcing Steel		
Rough Grading Certification		
F.H.A. Foundation Requirements		
Excavation and Forms		
Slab Grade		
Ground Plumbing		
Underslab Ducts		
Underslab Conduit		
Fireplace Foundation		
Joists and Girders		

NOTICE TO OWNER

1. Description of Work	
2. Location of Work	
3. Date of Inspection	
4. Name of Inspector	
5. Name of Owner	
6. Name of Contractor	
7. Name of Subcontractor	
8. Name of Engineer	
9. Name of Architect	
10. Name of City Engineer	
11. Name of City Engineer	
12. Name of City Engineer	
13. Name of City Engineer	
14. Name of City Engineer	
15. Name of City Engineer	
16. Name of City Engineer	
17. Name of City Engineer	
18. Name of City Engineer	
19. Name of City Engineer	
20. Name of City Engineer	

LAND USE SERVICES DEPARTMENT



COUNTY OF SAN BERNARDINO
ECONOMIC DEVELOPMENT
AND PUBLIC SERVICES GROUP

CURRENT PLANNING DIVISION

385 North Arrowhead Avenue • San Bernardino, CA 92415-0182 • (909) 387-4131

Fax (909) 387-3249

15505 Civic Drive • Victorville, CA 92392 • (760) 243-8245 • Fax (760) 243-8212

<http://www.sbcounty.gov/landuseservices>

MICHAEL E. HAYS
Director of Land Use Services

October 13, 2004

Expiration Date: September 21, 2007

Pacific Gas & Electric Company
P. O. Box 7640, Mail Code B24A
San Francisco, CA 94120

Re: DS1455-257/2004/DR01/Department Review for a Remediation Plan on 3 acres at the existing PG&E Topok Compressor Station, in the community of Needles/1st Supervisorial District, Assessor's Parcel Numbers: 0650-151-06, 0650-161-09

Dear Applicant:

This letter is to advise you that the Conditions of Approval for this project have been amended to include conditions imposed by the County of San Bernardino Fire Department. Please review condition numbers 23 – 28 on pages 5 through 6 of the attached Amended Conditions of Approval, and contact County Fire at (909) 386-8400 for further information. Additionally, please note that condition #8 is a standard condition rather than a mitigation measure.

The effective date of the original approval and final expiration date have not changed, as nothing related to the amended conditions would effect those dates. All issues denoted on the original Conditional Approval letter remain in effect. Please refer to that letter for instructions on how to proceed with obtaining your Department Review condition compliance and approvals.

If you have any questions or concerns regarding this matter, please contact this office by mail, by fax at (909) 387-3249, by e-mail: lmathieu@lusrd.sbcounty.gov, or by calling me at (909) 387-4111.

Sincerely,

Loretta Mathieu, Planner
SAN BERNARDINO COUNTY LAND USE SERVICES DEPARTMENT
Current Planning Division

Cc: County Fire
Building & Safety
Environmental Health Services
Hazardous Materials

EFFECTIVE DATE: 9/21/04
EXPIRATION DATE: 9/21/07

DEPARTMENT REVIEW
Conditions of Approval - AMENDED

ON-GOING PROCEDURAL OR OPERATIONAL CONDITIONS OF APPROVAL

LAND USE SERVICES DEPARTMENT - Planning (909) 387-4115

1. This **Department Review** is to establish and implement a remediation plan on approximately 3 acres of a 586.35-acre site in the Community of Needles/1st Supervisorial District; APN: 0650-151-06 and 0650-161-09. Any alteration or expansion of these facilities or increase in the developed area of the site from that shown on the approved site plan may require submission of an additional application for review and approval.
2. In compliance with San Bernardino County Development Code Section 81.0150 (a-c), the applicant/owner shall agree to defend at his sole expense any action brought against the County, its agents, officers, or employees, because of the issuance of such approval, or in the alternative, to relinquish such approval, in compliance with the San Bernardino County Development Code. The applicant shall reimburse the County, its agents, officers or employees, for any court costs and attorney's fees which the County, its agents, officers may be required by court to pay as a result of such action. The County may, at its sole discretion, participate at its own expense in the defense of any such action but such participation shall not relieve applicant of his obligations under this condition.
3. This approval shall become null and void if all conditions have not been complied with and the occupancy or use of the land has not taken place within three (3) years of the date of approval. One extension of time, not to exceed three (3) years may be granted upon written request and submittal of the appropriate fee, not less than 30 days prior to the date of expiration. PLEASE NOTE: This will be the only notice given for the above specified expiration date. The applicant is responsible for the initiation of an extension request.
4. The applicant/owner shall ascertain and comply with requirements of all State, County and local agencies as are applicable to the project area. They include, but are not limited to: County Environmental Health Services, Transportation/Flood Control, County Fire, Building and Safety, State Fire Marshall, Department of Toxic Substances Control, and the Colorado River Basin Regional Water Quality Control Board.
5. All conditions of this **Department Review** are continuing conditions. Failure of the applicant and/or operator to comply with any or all of said conditions at any time shall result in the revocation of the permit granted to use the property.

Non-Standard Conditions – *Italicized*
Mitigation Measures – **Bolded**

EFFECTIVE DATE: 9/21/04
EXPIRATION DATE: 9/21/07

6. Parking and on-site circulation requirements shall be maintained.
7. If archaeological, paleontological, and/or historical resources are uncovered during ground disturbing activities, all work in that area shall cease. A qualified expert (e.g. archaeologist or paleontologist), as determined by County Planning in consultation with the County Museum shall be hired to record the find and recommend any further mitigation. If human remains are uncovered during ground disturbing activities, the San Bernardino County Coroner shall be contacted within 24 hours of the find and all work shall halt until clearance is received. If the remains are determined to be of Native American origin, the local Native American representative shall be notified.
8. All landscaping, fuel modification measures, fencing and structures shall be maintained regularly by the property owner/applicant, so that all facets of the development are kept in continual good repair, including but not limited to the removal of graffiti and the continued provision of healthy thriving landscaping. All trash and storage areas, loading areas, mechanical equipment and roof top mechanical equipment shall be screened from public view. The property shall be maintained so that is visually attractive and not dangerous to the health and welfare of the surrounding properties. Drought-resistant, fire retardant vegetation shall be used for any replacement landscaping and erosion control to reduce water consumption and promote slope stability (where applicable). All landscaped areas must be irrigated in a manner designed to conserve water. The fuel modification zone shall be maintained annually to insure on-going protection from wildland fire.
9. The developer shall submit a Dust Control Plan (DCP) to County Building and Safety consistent with SCAQMD guidelines. The DCP shall include activities to reduce on-site and on-site dust production. This measure shall be implemented to the satisfaction of County Building and Safety. Such activities shall include, but are not limited to, the following:
 - Throughout grading and construction activities, exposed soil shall be kept moist through a minimum of twice daily watering to reduce fugitive dust.
 - Street sweeping shall be conducted when visible soil accumulations occur along site access roadways to remove dirt dropped by construction vehicles or dried mud carried off by trucks moving dirt or bringing construction materials. Site access driveways and adjacent streets will be washed if there are visible signs of any dirt track-out at the conclusion of any workday.
 - All trucks hauling dirt away from the site shall be covered to prevent the generation of fugitive dust.

Amended:
10/13/04
Planning.

EFFECTIVE DATE: 9/21/04
EXPIRATION DATE: 9/21/07

- During high wind conditions (i.e., wind speeds exceeding 25 mph) areas with disturbed soil will be watered hourly and activities on unpaved surfaces shall be terminated until wind speeds no longer exceed 25 mph.
 - Storage piles that are to be left in place for more than three working days shall either be sprayed with a non-toxic soil binder or covered with plastic or revegetated until placed in use.
 - Tires of vehicles will be washed before the vehicle leaves the project site and enters a paved road.
 - Dirt on paved surfaces shall be removed daily to minimize generation of fugitive dust.
10. All signs proposed by this project may only be lit by steady, stationary, shielded light directed at the sign, by light inside the sign, by direct stationary neon lighting or by an alternating lighting system that changes no more than once per hour. The glare from the luminous source shall not exceed on-half (0.5) foot candle.
11. Any sign must be applied for and permitted according to County Development Code Chapter 7 Sign Regulations.
12. Installation of outdoor light fixtures on site shall be hooded and oriented to prevent offsite glare and installed in accordance with the approved site plan.
13. Additional fees may be required prior to issuance of development permits. Fees shall be paid as specified in adopted fee ordinances.

DIVISION OF ENVIRONMENTAL HEALTH SERVICES (909) 387-4666

14. Noise level shall be maintained at or below County Standards, Development Code Section 87.0905(b). For information, Call DEHS/Land Use at (909) 387-4666.
15. All refuse generated at the premises shall at all times be stored in approved containers and shall be placed in a manner so that visual, noise, or other impacts, and environmental public health nuisances are minimized and complies with San Bernardino County Code 33.081 et. seq. For information, call DEHS/Local Enforcement Agency (LEA) at (909) 387-4655.
16. All refuse not containing garbage shall be removed from the premises at least 1 time per week to an approved solid waste facility in conformance with San Bernardino County Code Chapter 8, Section 33.081 et. Seq. For information, please call DEHS/LEA at (909) 387-4655.

EFFECTIVE DATE: 9/21/04
EXPIRATION DATE: 9/21/07

17. The sewage holding tank shall be maintained so as not to create a public nuisance and shall be serviced according to DEHS specifications. For information, call DEHS/Wastewater Section at (909) 387-4666.

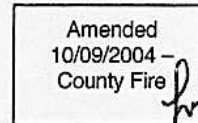
***PRIOR TO ISSUANCE OF GRADING OR BUILDING PERMITS, THE FOLLOWING
SHALL BE COMPLETED***

DIVISION OF ENVIRONMENTAL HEALTH SERVICES (909) 387-4666

18. Water Purveyor shall be Division of Environmental Health Services approved. Bottled water shall be permitted for consumption. For information, contact the Water Section at (909) 387-4666.
19. Written clearance shall be obtained from the Colorado River Basin Regional Water Quality Control Board and a copy forwarded to the Division of Environmental Health Services. For information, contact Colorado River Basin Region, 73-720 Fred Waring Drive, Suite 100, Palm Desert, CA 92260, at (760) 346-7491. NOTE: This condition applies only if septic system is required.
20. The applicant shall provide water for hand washing and toilets in restrooms. Hauled raw water is acceptable provided it meets bacteriological standards. Test results that show source meets bacteriological standards shall be submitted to the Division of Environmental Health Services. A sign regarding non-potable water shall be posted above sinks. For information, contact the Water Section at (909) 387-4666.
21. Method of sewage disposal shall be Division of Environmental Health Services approved. Portable toilets shall not be permitted. Minimum sewage disposal requirement shall be a sewage holding tank. For information, contact Wastewater Section at (909) 387-4666.
22. **The applicant shall submit preliminary acoustical information demonstrating that the proposed project maintains noise levels at or below San Bernardino County Noise Standards, San Bernardino Development Code Section 87.0905(b). The purpose is to evaluate potential future on-site and/or off-site noise sources. If the preliminary information cannot demonstrate compliance to noise standards, a project specific acoustical analysis shall be required. Submit information/analysis to the Division of Environmental Health Services (DEHS) for review and approval. For information and acoustical checklist, contact DEHS at (909) 387-4655.**

EFFECTIVE DATE: 9/21/04
EXPIRATION DATE: 9/21/07

SAN BERNARDINO COUNTY FIRE DEPARTMENT (909) 386-8400



23. The above referenced project is under the jurisdiction of the San Bernardino County Fire Department, herein ("Fire Department"). Prior to any construction occurring on any parcel, the applicant shall contact the Fire Department for verification of current fire protection requirements. All new construction shall comply with the current Uniform Fire Code requirements and all applicable statutes, codes, ordinances and standards of the Fire Department. **[F-1]**.
24. In areas without water serving utilities, the fire protection water system shall be designed to NFPA 1142 and shall be operational prior to framing. All NFPA 1142 systems shall provide an approved permanent water supply of a minimum 5,000-gallon water tank or an approved rural water supply for fire fighting per NFPA 1142. Water supply systems can be mitigated with an approved NFPA 13, 13R, or 13D-fire sprinkler system. If the project is in an FS1 or FS2, a temporary water tank shall be required and operable during construction. **[F6]**.
25. Combustible vegetation shall be removed as follows:
- Where the average slope of the site is less than 15% - Combustible vegetation shall be removed a minimum distance of thirty (30) feet from all structures or to the property line, whichever is less.
 - Where the average slope of the site is 15% or greater – Combustible vegetation shall be removed a minimum one hundred (100) feet from all structures or to the property line, whichever is less. County Ordinance No. 3586 **[F52]**.
26. Hand portable fire extinguishers are required. The location, type, and cabinet design shall be approved by the Fire Department. **[F88]**.
27. *Fire Suppression:*
1. *The applicant shall provide smoke detectors in the Control Building. There shall be no detectors or sprinklers in the large treatment area or the two warehouses. Smoke detectors need to be tied to a phone line that sends an alarm to a location manned 24/7. This may be either a commercial service or the PG&E compressor station, if it is manned 24/7.*
 2. *The applicant shall provide a fire connection point – either hydrant or tank connection. If using a hydrant, protective bollards shall be provided. The connection point shall be*

Non-Standard Conditions – *Italicized*

Mitigation Measures – **Bolded**

EFFECTIVE DATE: 9/21/04
EXPIRATION DATE: 9/21/07

located near the access road between the control building and the road so a fire truck can connect to it. The connection point does not need to be pressurized, but shall be required to have water flow to it so that water flows to the pump on a pumper truck. (County Fire has confirmed with the applicant that the engines' pump inlet will be 3 feet above ground. County Fire will provide at least four (4) feet of water pressure to ensure water to the pump).

3. *During operation, the applicant shall provide 10,000-gallon storage minimum to supply this hydrant. It is acceptable to use either treated groundwater or water trucked to the site.*
 4. *During construction, the applicant shall provide a minimum 10,000-gallon storage tank to supply water. Contact County Fire at (909) 386-8400 for information.*
28. **Road Access:**
1. *The applicant shall provide two (2) access roads. County Fire is working with the landowners to ascertain if a route from the north is feasible. County Fire will provide at least two (2) routes from among the three (3) possible routes off Park Moabi Road (from west along Historic Route 66, from east or north from near an abandoned hotel). County Fire will provide one (1) road that is at least 20 feet wide, and another that is either 12 feet wide with turnouts every 500 feet or is 20 feet wide. The current plan is to use access from the east and from the west. Roads shall have 12% maximum grade, unless paved.*
 2. *The applicant shall provide signage on Park Moabi Road at each access point. Contact County Fire at (909) 386-8400 for information.*

LAND USE SERVICES DEPARTMENT - BUILDING AND SAFETY DIVISION (909) 387-4244

29. When earthwork quantities exceed 5,000 cubic yards, a geotechnical (soil) report shall be submitted to the Building and Safety Division for review and approval prior to issuance of grading permits.
30. Grading plans shall be submitted to Building and Safety for review and approval prior to grading/land disturbance.
31. Prior to issuance of a grading permit, a Stormwater Management Plan is required.
32. When earthwork quantities exceed 5,000 cubic yards, an engineering geology report shall be submitted to the Building and Safety Division for review and approval prior to issuance of grading permits.

Non-Standard Conditions – *Italicized*
Mitigation Measures – **Bolded**

EFFECTIVE DATE: 9/21/04
EXPIRATION DATE: 9/21/07

33. Any building, sign, or structure to be constructed or located on site will require professionally prepared plans approved by the Building and Safety Division.
34. Submit plans and obtain permits for all fences greater than six feet (6') in height.
35. An NPDES permit – Notice of Intent (NOI) – is required on all grading of one (1) acre or more prior to issuance of a grading/construction permit. Contact the Colorado River Basin Regional Water Quality Control Board for specifics.
36. *Prior to issuance of permits, fire authority approval is required for chemical storage tanks.*
37. *Prior to issuance of construction permits, Department of Toxic Substances Control approval is required.*

PRIOR TO OCCUPANCY, THE FOLLOWING SHALL BE COMPLETED

**SAN BERNARDINO COUNTY FIRE DEPARTMENT - HAZARDOUS MATERIALS DIVISION
(909) 386-8401**

38. Prior to occupancy, operator shall submit a Business Emergency/Contingency Plan for emergency release or threatened release of hazardous materials and wastes or a letter of exemption. Contact Office of the Fire Marshal, Hazardous Materials Division at (909) 386-8401.
39. Prior to occupancy, applicant shall be required to apply for one or more of the following: a Hazardous Materials Handler Permit, a Hazardous Waste Generator Permit, an Aboveground Storage Tank Permit, and/or an Underground Storage Tank Permit. For information, contact the Office of the Fire Marshal, Hazardous Materials Division at (909) 386-8418.

LAND USE SERVICES DEPARTMENT - BUILDING AND SAFETY DIVISION (909) 387-4244

40. The applicant shall submit manufacturer's installation instructions, or engineered foundation plans for commercial coach/modular unit(s). Note: A Temporary Use Permit (TUP) is required for units not on a permanent foundation.

LAND USE SERVICES DEPARTMENT - PLANNING DIVISION (909) 387-4115

41. In order to obtain grading, building and occupancy permits, the developer shall process a Condition Compliance Review through County Planning in accordance with the directions

Non-Standard Conditions – *Italicized*
Mitigation Measures – **Bolded**

EFFECTIVE DATE: 9/21/04
EXPIRATION DATE: 9/21/07

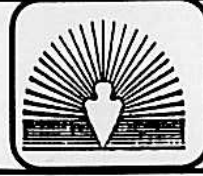
stated in the Conditional Approval letter. A fee of \$370 must be paid and the appropriate application submitted at the time Condition Compliance Review is initiated.

42. Parking and on-site circulation requirements shall be provided for as identified on the approved site plan.
43. "NO PARKING" shall be clearly posted at fire lane turnaround areas, and shall be striped for "FIRE LANE".
44. All parking stalls shall be clearly striped and permanently maintained with double or hairpin lines on the surface of the facility, with the two lines being located an equal nine (9) inches on either side of the stall sidelines; arrows shall be painted on the paving to indicate direction of traffic flow.
45. All access drives shall be a minimum of 24 feet wide to facilitate two-way traffic.
46. Structure(s) shall incorporate interior and exterior water conservation measures (low-flow plumbing, water efficient landscaping, drip irrigation, minimization of turf areas, etc.).
47. Any lights used to illuminate the site shall be hooded and designed so as to reflect away from adjoining properties and public thoroughfares.

END CONDITIONS



CONDITION COMPLIANCE RELEASE
FOR
OCCUPANCY/USE



This project requires authorization to occupy and/or use the project. In addition to the final clearance granted by Building and Safety, other reviewing agencies may have imposed certain requirements on your project that must be completed prior to issuance of said clearance. In order to ensure compliance with these conditions, you are asked to obtain a release from the agencies that have assigned pre-occupancy/pre-use requirements to your project.

A release must be obtained from the agencies circled below:

- | | |
|--|---------------------------------------|
| 1. Environmental Health Services | 5. Land Development Engineering/Roads |
| 2. Fire Dept/Hazardous Materials (38 & 39) | 6. Public Health/Veterinary Services |
| 3. Fire Dept/Fire Protection Planning | 7. Building & Safety Div./LUSD (40). |
| 4. Planning Division (41-47) | 8. Code Enforcement |

Coordinate the completion of all pre-occupancy/pre-use conditions and requirements with the agencies identified above. After the requirements have been satisfied, obtain the signature of the releasing authority, and return this form to the project planner. Allow at least ten (10) working days for planner review. Upon verification that the requirements have been completed, your project will be released for permit authorization.

FOR STAFF USE ONLY

The project referenced below is being reviewed to authorize the occupancy/use of the proposal. If the pre-occupancy/pre-use conditions and requirements have been completed, please release the project with your signature.

Signature	Date	Dept.	Signature	Date	Dept.
<i>38</i> <i>39</i> <i>Kristen Regel</i>	<i>5/20/05</i>	<i>HAZMAT</i>			
<i>#41</i> <i>42</i> <i>Loretta Mathieu</i>	<i>5/23/05</i>	<i>Planning</i>			

APN:	0650-151-06*
APPLICANT:	PACIFIC GAS & ELECTRIC COMPANY
PROPOSAL:	DEPARTMENT REVIEW FOR A REMEDIATION PLAN
	586.35 ACRES
COMMUNITY:	NEEDLES/ 1ST SUPERVISORIAL DISTRICT
LOCATION:	SOUTH SIDE OF INTERSECTION AT ST. HWY 40 AND
	PARK MOABI RD.
JCS/INDEX:	L663/DS1455-257/2004/DR01
STAFF:	LORETTA MATHIEU
REP(S):	CH2M HILL

To Building and Safety:
Planning Department verifies all conditions
and requirements are complete. Project
may be finalized. Return Conditional Use
Permit to project planner.

Loretta Mathieu
Signature

July 8, 2005
Date

LAND USE SERVICES DEPARTMENT



COUNTY OF SAN BERNARDINO
ECONOMIC DEVELOPMENT/
PUBLIC SERVICES GROUP

CURRENT PLANNING DIVISION

385 North Arrowhead Avenue • San Bernardino, CA 92415-0182 • (909) 387-4131

Fax (909) 387-3249

15505 Civic Drive • Victorville, CA 92392 • (760) 243-8245 • Fax (760) 243-8212

<http://www.sbcounty.gov/landuseservices>

MICHAEL E. HAYS
Director of Land Use Services

July 8, 2005

EFFECTIVE DATE: July 19, 2005
EXPIRATION DATE: July 19, 2006

Mike Rommage
Land Use Services/Code Enforcement Division
57098 29 Palms Hwy.
Yucca Valley, CA 92284

RE: Pacific Gas & Electric.; Temporary Use Permit/APN: 0650-151-06; 1st Supervisorial District

Dear Mr. Guillermo:

The Current Planning Division has received a Department Review Permit application from the above referenced applicant to implement a remediation plan, including the installation of a 1,420 SF modular double-wide trailer to be used for electrical controls, a laboratory, and office/meeting space, on 3 acres at the existing PG&E Compressor Station. The remediation plan is scheduled to be decommissioned within five (5) years. After normal processing of the application, the required findings for approval of the DR/CUP have been made. A Temporary Use Permit can be issued subject to conditions (see the attached Conditions of Approval).

If you have any questions or concerns regarding this matter, please contact me at (909) 387-4111 or by e-mail at lmathieu@lud.sbcounty.gov.

Sincerely,

Loretta Mathieu, Planner
Land Use Services/Current Planning Division

attachment: TUP Conditions/DR Findings

cc: Flo Walker, Building and Safety
Julie Rynerson, Div. Chief/Land Use Services
William B. Adams, Supervising Planner/Current Planning Div

MARK H. UFFER
County Administrative Officer

NORMAN A. KANOLD
Assistant County Administrator
Economic Development/
Public Services Group

Board of Supervisors
BILL POSTMUS First District DENNIS HANSBERGER Third District
PAUL BIANE Second District GARY C. OVITT Fourth District
JOSIE GONZALES Fifth District

TEMPORARY USE PERMIT **Conditions of Approval**

ON-GOING PROCEDURAL OR OPERATIONAL CONDITIONS OF APPROVAL

LAND USE SERVICES DEPARTMENT - Current Planning (909) 387-4131

1. Project Description. This Temporary Use Permit is filed concurrently with an application for a Department Review/Conditional Use Permit to implement a remediation plan, including the installation of a 1,420 SF modular double-wide trailer to be used for the groundwater treatment system electrical controls, a laboratory, and office/meeting space at the existing PG&E Topok Compressor Station in the Community of Needles, 1st Supervisorial District.
2. Indemnification. The applicant shall agree to defend at their sole expense any action brought against the County, its agents, officers, or employees, because of the issuance of such approval in compliance with the San Bernardino County Ordinance #2684. The applicant shall reimburse the County, its agents, officers, or employees for any court costs and attorney's fees which the County, its agents, officers or employees may be required by a court to pay as a result of such action. The County may, at its sole discretion, participate at its own expense in the defense of any such action but such participation shall not relieve application of his obligations under this condition.
3. Expiration. This Temporary Use Permit (TUP) approval for the interim operation of laboratory/office in a double-wide modular trailer requiring a Department Review/Conditional Use Permit shall be issued for a period of time not to exceed one year from the effective date, **July 19, 2005**. Note: This Temporary Use Permit is subject to the issuance of an Occupancy Permit by the Building and Safety Division. If said permit is not issued, the TUP shall become null and void, and any operation on the site must cease, or be subject to Code Enforcement action.
4. Extensions. Extensions of time for the Temporary Use Permit may be granted for additional periods of time not to exceed twelve (12) months, for up to a maximum of five (5) years, with the submittal of the appropriate application and fees.
5. The modular, double-wide trailer shall be set down/installed according to specifications of the Building and Safety Division.
6. The County of San Bernardino may require the applicant to post a bond to ensure that all conditions of approval of this Temporary Use Permit are met, including clean up and restoration of landscaping when the temporary use is removed.
7. Development Impact Fees. Additional fees may be required prior to issuance of development permits. Fees shall be paid as specified in adopted fee ordinances.

FINDINGS: Department Review to implement a remediation plan on 3 acres at the existing PG&E Topok Compressor Station in the Community of Needles, 1st Supervisorial District

1. The site for the proposed use is adequate in size and shape to accommodate the proposed use and all yards, open spaces, setbacks, walls and fences, parking areas, loading areas, landscaping and other features pertaining to the application, because the proposed use involves the development of approximately 3 acres of facilities on an approximately 100-acre parcel and all required features can easily be accommodated on site.
2. The site has adequate access for the proposed wastewater treatment plant, pipelines, and related facilities, because access to the project is provided from Park Moabi Road, a road on the Masterplan of Streets and Highways.
3. The proposed use will not have a substantial adverse effect on abutting property or the permitted use thereof, because the use will not generate excessive noise, vibration, traffic or other disturbance because the project is conditioned to adhere to County noise standards and traffic is projected to be minimal. In addition, power requirements will be provided by existing electric distribution lines at the project site.
4. The proposed use is consistent with the goals, policies, standards and maps of the General Plan and any applicable plan because the proposed wastewater treatment and storage facility is allowed as an additional use in any official land use district subject to an approved Department Review/Conditional Use Permit. The proposed development is consistent with the following goals of the San Bernardino County General Plan:

Goals:

- B-8 – To establish an effective and expeditious application review process for siting specified hazardous waste facilities that includes extensive public participation.

The project and proposed use have been the subject of extensive public involvement efforts including ongoing consultations with stakeholders via a consultative workgroup and the distribution of project newsletters to a broader range of stakeholders, which includes nearby residents.

- B-12 – To protect vital groundwater resources for present and future beneficial uses.

PACIFIC GAS & ELECTRIC
DR/DS1455-257/2004/L663
NEEDLES/S-1/APN 0650-151-06*
September 10, 2004

5. The lawful conditions stated in the approval are deemed necessary to protect the public health, safety and general welfare because the project is being implemented at the direction of the California Department of Toxic Substances Control (DTSC) as a time-critical action necessary to protect the surrounding environment, including the Colorado River.
6. The design of the site has considered, to the extent possible, the potential for the use of solar energy systems and passive or natural heating and cooling opportunities.
7. The proposal will not have a significant adverse effect on the environment because standards and conditions imposed on the project will adequately mitigate environmental impacts.
8. On June 30, 2004, the DTSC issued conditional approval of Interim Measure No. 3, a portion of which includes the project. The DTSC filed a Notice of Exemption (NOE), finding the action is necessary to prevent an emergency. [Cal Code Regulations Title 14, Section 15269(c)]. The DTSC NOE included findings that the project activities are necessary to prevent or mitigate an emergency situation wherein the waters of the Colorado River may be impacted with a hazardous constituent, chromium, which is in contaminated groundwater in close proximity to the river. Immediate action is necessary to contain and reverse the flow of groundwater away from the Colorado River. Commencement of the development of additional extraction, treatment, and treated water disposal capacity is urgent to assure that increased pumping rates will be available to respond to impending fluctuations of the Colorado River.

Relying on the technical information developed and the conclusions reached by the DTSC, the County of San Bernardino has exercised its independent judgement in determining that the action is necessary to prevent an emergency. Therefore the project is exempt under Section 15269(c).

Attn: Andrew Redmon



DEPARTMENT OF PUBLIC HEALTH
COUNTY OF SAN BERNARDINO, CALIFORNIA

PG & E Topock Compressor Station IM-3
(off I-40 at Park Moabi Exit)
Needles, CA 92363

PERMIT

NON-TRANSFERABLE

THIS PERMIT EXPIRES
December 2, 2005 or at the
end of construction.

This permit may be suspended or revoked by the Department of Public Health for cause. This permit is granted on the condition that the person in the permit will comply with the laws, ordinances, and regulations that are now or may hereafter be in force by the United States Government, the State of California, and the County of San Bernardino pertaining to the above mentioned business. Penalty fees are assessed on permits renewed 30 days after expiration date indicated above, or for failure to obtain new permit in case of transfer of ownership.

TYPE OF PERMIT: SEWAGE HOLDING TANK CONSTRUCTION PERMIT

FEE PAID \$70.00

Pacific Gas & Electric Co.-Topock Compressor Station
Attn: Rich McCurdy, Senior Env. Consulting Specialist
375 N. Wlget Lane
Walnut Creek, CA 94598

04-1804-631 REV. 10/4

PERMIT DOES NOT IMPLY APPROVAL
FILE COPY CONSPICUOUS PLACE

POST IN A
HEALTH OFFICER
DEPARTMENT OF PUBLIC HEALTH
5100.004.125

[Signature]

Attn: Andrew Redmond

**PERMIT
NON-TRANSFERABLE**

Expires: 12/31/2005

This permit may be suspended or revoked by the Department of Public Health for cause. This permit is granted on the condition that the permittee will comply with the laws, ordinances, and regulations that are now or may hereafter be in force by the United States Government, the State of California, and the County of San Bernardino pertaining to the below mentioned business. Penalty fees are assessed on permits renewed 30 days after expiration date indicated above, or for failure to obtain new permit in case of transfer of ownership.

The Business Owner is responsible for timely renewal. Not receiving a renewal notice for any reason does not relieve responsibility for timely payment. If not paid within 30 days of the expiration date shown, a 25% penalty will be imposed. Failure to correct violations cited on an inspection report, by the noted compliance date, shall necessitate an additional re-inspection at a charge of \$52.00/hr.

MCCURDY RICH SEN ENVIR CONSUL SPECI
PACIFIC GAS ELECTRIC
375 N WIGET LN
WALNUT CREEK, CA 94598

OWNER OF RECORD : PACIFIC GAS ELECTRIC
REGULATED FACILITY : FA0013860
FACILITY LOCATION : PG & E TOPOCK COMPRESSOR
STATN IM 3
I-40
NEEDLES, CA 92363

	<u>Prog. Element</u>	<u>General Health Program</u>	<u>Permit #</u>	<u>Program #</u>	<u>PR# Barcode</u>
1	4204	Sewage Holding Tank Operating Permit	PT0018324	PR0018328	PR0018328

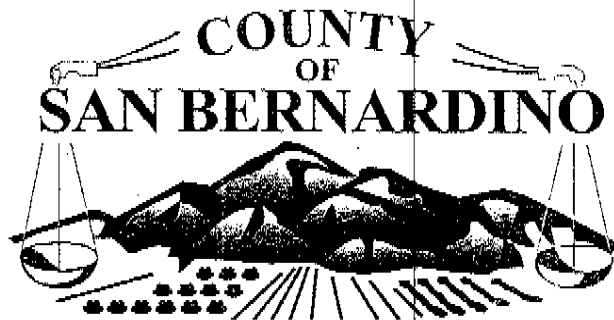
TOTAL FEE PAID: 87.00

**MUST BE POSTED IN A CONSPICUOUS PLACE
AT THE PERMITTED FACILITY. ISSUANCE OF THIS
PERMIT DOES NOT IMPLY APPROVAL**

THIS IS NOT AN INVOICE


Director
DIVISION OF ENVIRONMENTAL HEALTH SERVICES

DEPARTMENT OF PUBLIC HEALTH - DIVISION OF ENVIRONMENTAL HEALTH SERVICES
385 N. Arrowhead Ave., Second Floor, San Bernardino, CA 92415-0160 - (909) 884-4056 - FAX (909) 387-4323 - www.sbcounty.gov/dehs



**Did you know that San Bernardino County EHS is
on-line? Visit our website at
<http://www.sbcounty.gov/dehs/>**

COUNTY FIRE DEPARTMENT



COUNTY OF SAN BERNARDINO
ECONOMIC DEVELOPMENT/
PUBLIC SERVICES GROUP

OFFICE OF THE FIRE MARSHAL
HAZARDOUS MATERIALS DIVISION
620 South "E" Street • San Bernardino, CA 92415-0153
(909) 386-8401 • Fax (909) 386-8460

PETER R. HILLS
Fire Chief
County Fire Warden

DATE: MAY 2, 2005

TO: SAN BERNARDINO COUNTY LAND USE SERVICES DEPT
CURRENT PLANNING

FROM: SAN BERNARDINO COUNTY FIRE DEPARTMENT
HAZARDOUS MATERIALS DIVISION

PHONE: (909) 386-8401 **FAX:** (909) 386-8460

SUBJECT: CERTIFICATE OF OCCUPANCY CLEARANCE PER
GOVERNMENT CODE § 65850.2 (C).

FACILITY: PACIFIC GAS & ELECTRIC COMPANY
NEEDLES

CONTACT: CH2M HILL

- ☒ The above facility has complied with or is in the process of complying with the Business Plan and permit requirements for the San Bernardino County Fire Department, Hazardous Materials Division pursuant to California Health & Safety Code (CHSC) Chapter 6.95 § 25503.5.
- ☐ The above facility is exempt from the Business Plan requirements for the following reason(s):
- ☐ This facility has complied with, or is in the process of complying with the Risk Management Plan (RMP) requirements pursuant to CHSC Chapter 6.95, Article 2.
- ☐ This facility is not subject to RMP requirements because it does not handle regulated substances in quantities at or exceeding threshold quantities.

KRISTEN RIEGEL, MPH, REHS
Business Plan Program

GOVERNMENT CODE § 65850.2 (c). A city or county shall not issue a final certificate of occupancy or its substantial equivalent unless that is verification from the administering agency, if required by law, that the owner or authorized agent has met, or is meeting, the applicable requirements of § 25505 and Article 2 (commencing with § 25531) of Chapter 6.95 of Division 20 of the Health and Safety Code, and the requirements for a permit, if required by law, from the air pollution control district or air quality management district exercising jurisdiction in the area governed by the city or county or has provided proof from the appropriate district that the permit requirements do not apply to the owner or authorized agent.

MARK H. UFFER
County Administrative Officer

NORMAN A. KANOLD
Assistant County Administrator
Economic Development/
Public Services Group

Board of Supervisors

BILL POSTMUS..... First District	DENNIS HANSBERGER..... Third District
PAUL BIANE..... Second District	GARY C. OVITT..... Fourth District
JOSIE GONZALES..... Fifth District	

**Pacific Gas & Electric Company
Topock Compressor Station
Environmental Compliance Permits, Plans, and Notifications
Updated 7/15/2005**

ITEM	DOCUMENT TITLE	COMMENTS
1	Occupancy Permit	Issued by San Bernardino County
2	Use Permit	Issued by San Bernardino County
3	Temporary Use Permit	Issued by San Bernardino County
4	USEPA Identification Number	Issued by U.S. Environmental Protection Agency
5	Business Emergency/Contingency Plan, dated April 25, 2005	Submitted to CUPA.
6	Conditional Authorization Notification Package, dated August 27, 2004	Approved by CUPA
7	Hazardous Waste Tank Assessment, dated July 11, 2005	Prepared by CH2M HILL on behalf of PG&E
8	Waste Discharge Requirements (and Monitoring and Reporting Program)	Issued by the Water Board
9	Waste Discharge Requirements (and Monitoring and Reporting Program)	Issued by the Water Board
10	Waste Discharge Requirements (and Monitoring and Reporting Program) and National Pollutant Discharge Elimination System Permit	Issued by the Water Board
11	Solid Waste Management Plan , dated March 24, 2005	Prepared by CH2M HILL on behalf of PG&E

Pacific Gas & Electric Company Topock Compressor Station Environmental Compliance Permits, Plans, and Notifications Updated 7/15/2005		
ITEM	DOCUMENT TITLE	COMMENTS
12	Sampling Locations Letter , dated June 29, 2005	Prepared by CH2M HILL on behalf of PG&E
13	Industrial Storm Water Pollution Prevention Plan, dated June 29, 2005	WDID number issued State Resources Control Board
14	Air Quality Permit-to-Operate	Issued by Mojave Desert Air Quality Management District
15	Sewage Holding Tank Permit	Construction Permit issued by San Bernardino County Operating Permit issued
16	Extraction Well O&M Plan , dated April 22, 2005	Prepared by CH2M HILL on behalf of PG&E
17	Treatment Plan t O&M Plan , dated April 11, 2005	Prepared by CH2M HILL on behalf of PG&E
18	Injection Well O&M Plan , dated April 11, 2005	Prepared by CH2M HILL on behalf of PG&E
19	Injection Well O&M Plan Addendum 1 , dated June 2, 2005	Prepared by CH2M HILL on behalf of PG&E
20	Injection Well O&M Plan Addendum 2 , dated June 30, 2005	Prepared by CH2M HILL on behalf of PG&E
21	Emergency Notification Binder, dated July 11, 2005	Prepared by CH2M HILL on behalf of PG&E

Appendix B
Design Change Tracking Log

PG&E Topock Interim Measures No. 3 Design Review

ATTENDEES: Ning-Wu Chang/DTSC
Kevin Sullivan/MWH
Dennis Fink/CH2M HILL
Julie Eakins/CH2M HILL

COPIES: Norman Shopay/DTSC
Aaron Yue/DTSC
Susan Stratton/DTSC
Yvonne Meeks/PG&E
Rich McCurdy/PG&E
Chris Smith/PG&E
Sally Murray/BLM
Cathy Wolff-White/BLM
Mark Howell/BLM
Terri Herson/CH2M HILL
Glenn Caruso/PG&E
Martin Barackman/CH2M HILL
Jaque Forrest/CH2M HILL
Gary Jardine/CH2M HILL
Nancy Hendrickson/CH2M HILL

FROM: Dennis Fink

DATE OF MEETING: May 31, 2005

DATE OF MINUTES: June 13, 2005

The purpose of this conference call was to discuss changes to the Pacific Gas and Electric Company Topock Compressor Station Interim Measures Number 3 (IM No. 3) project design with the Department of Toxic Substances Control. Changes identified for the previous calls (January 4, 11, 25; February 1, 8, 22; March 15; April 5, 19, 26; May 3, 17) were reviewed. The remainder of this meeting summary identifies key discussion points and action items (shown in bold).

Meeting with County

The group discussed meeting with Gary Givens of San Bernardino County on June 9 at IM3.

Review of Remaining Design Changes

Group reviewed remaining design changes, see table below for update summary. Specific discussions:

- Issue #3 – Retaining Wall: Ning-Wu stated that this issue is on hold and does not need to be resolved in order to startup plant operation. [Note: During June 9 site visit with BLM this issue was discussed and group chose a rock appearance for the wall. PG&E, BLM, and DTSC are now to formalize this decision.]
- Issue #8 – Effluent Blending: Ning-Wu agreed that this issue was closed by the DTSC letter of May 24, 2005. Will be evaluated further during a limited duration pilot study defined in letter (through January 2007).
- Issue #10 – Number of Injection Well and Issue #20 Injection Well back flush and Issue #42 Injection Wells: Ning-Wu agreed that this issue was closed by the DTSC letter of

May 24, 2005. Will be evaluated further during a limited duration pilot study defined in letter (through January 2007).

- Issue #19b – Lighting: Ning-Wu asked that we get written concurrence from BLM on choice of light color. **Dennis will do so.** [Note: This was done, and an email sent from Mark Howell/BLM on June 6, 2005.]
- Issue #21 – Sodium hydroxide feed control. Ning-Wu stated that this issue could be closed, considered approved.
- Issue #32 – Color. Ning-Wu stated that this issue could be closed as a formal painting directive and schedule has been issued by DTSC.
- Issue #44 – Protective boxes around air release valves on line to injection wells: Ning-Wu asked that we get written concurrence from BLM on these boxes (and boulders placed to protect the boxes). **Dennis will do so.**
- Issue #45 – Sodium hydroxide feed pumps: Ning-Wu stated that this issue could be closed, considered approved.

Next Call: To be determined.

List of Proposed Changes to PG&E Topock IM 3 Design – Status: **Updated June 13, 2005 (Updated only Construction Status, no new changes)**

#	Proposed Change	Significant (S) or Minor (M)?	Driver	Construction Initiated?	Status w/ DTSC	Closed
<u>Changes Submitted to DTSC January 3, 2005</u>						
1	Added additional pipe and conduits in trench from Bench to IM 3 Plant	S - Process	To comply with DTSC Conditional Approval letter to PG&E dated September 21, 2004, comment #18		Approved via 2/4 DTSC letter	X
2	Mitigated Rt 66 (Geotextile fabric and road base cover)	S - Community	To comply with Cultural Resources Management Plan		Approved via 2/4 DTSC letter	X
3	Widened a portion of East Access route to make 20' wide and re-graded to make <12% grade	S - Community	To comply with SB County Fire requirements. First described in county's Conditional Approval dated September 10, and clarified in meeting with Fire Department Chief on September 20, 2004	Not fully	Pending per 2/4 DTSC letter Discussed in 3/15 call: issue relates to retaining wall. PG&E and BLM resolved per email from Cathy Wolff-White to Yvonne Meeks 3/16. As of June 9, an option was chosen in verbal discussions between PG&E, DTSC, and BLM. Now need to formalize and implement.	
4	Added fence around treatment building	S -Community	To comply with DTSC Conditional Approval letter to PG&E dated September 21, 2004, comment #13		Approved via 2/4 DTSC letter	X
5	Added connections for bypasses or recirculation loops	S - Process	To comply with DTSC Conditional Approval letter to PG&E dated September 21, 2004, comments #18, 19, 21		Approved via 2/4 DTSC letter	X
6	Changed berms in chemical storage to ensure adequate storage. (Note - P&ID are not yet consistent with Structural drawings to show acid and caustic in separate containment areas)	S - Process	To comply with DTSC Conditional Approval letter to PG&E dated September 21, 2004, comment #9		Approved via 2/4 DTSC letter	X
7	Add fire protection tank to provide water to Fire Dept pumper truck. Size and location of tank still under consideration by PG&E.	S - Community	To comply with SB County Fire requirements. First described in county's Conditional Approval dated September 10, and clarified in meeting with Fire Department Chief on September 20, 2004		Approved via 2/4 DTSC letter, contingent on requirements of SB County being met. They are, therefore this issued closed.	X
8	Add control valve to allow for effluent blending to control discharge TDS	S – Process	Enhance flexibility to meet CRBRWQCB discharge requirements (reduces risk of aquifer clogging resulting in loss of injection well)		Closed via May 31 call with DTSC and May 24, 2005 letter from DTSC (will be evaluated further during injection well pilot period)	X
9	Modify valve vault on MW-20 bench by adding aboveground building	S – Community	Safety – improve access		Approved via 2/4 DTSC letter	X
10	Modify injection well scheme – number of injection wells reduced from "less than 10" to 3 or less (still under discussion on exact number). CLARIFICATION (3/15 CALL): 2 wells will be installed, each with injection capacity greater than maximum treatment capacity	S – Community	Ongoing discussion with DTSC		Closed via May 31 call with DTSC and May 24, 2005 letter from DTSC (will be evaluated further during injection well pilot period)	X
11	Moved building 5' west to provide better truck access (as discussed with DTSC at site visit on November 4)	M	Safety/Operability – improve truck access		DTSC concurred this was minor issue and therefore not needing approval, via 2/4 DTSC letter	X
12	Add valve vault and valve vault design for future contingency PE-3.	S (per DTSC request 1/11)	To provide contingency for future expansion		Approved via 2/4 DTSC letter	X

#	Proposed Change	Significant (S) or Minor (M)?	Driver	Construction Initiated?	Status w/ DTSC	Closed
13	Increase control building width	M	Operability – Segregation of laboratory and Control Room and break area to increase reliability of operations		DTSC concurred this was minor issue and therefore not needing approval, via 2/4 DTSC letter	X
14	Add smoke detectors with dial-out alarm	M	To comply with SB County Fire requirements. First described in county's Conditional Approval dated September 10, and clarified in meeting with Fire Department Chief on September 20, 2004		DTSC concurred this was minor issue and therefore not needing approval, via 2/4 DTSC letter	X
15	Change from incinerator toilet to flush toilet. Therefore, added waste tank.	M	To comply with SB County Division of Environmental Health Services requirements of the county's Conditional Approval dated September 10		DTSC concurred this was minor issue and therefore not needing approval, via 2/4 DTSC letter	X
16	Add lab waste tank, 55-gallon	M	To comply with SB County Division of Environmental Health Services requirements of the county's Conditional Approval dated September 10		DTSC concurred this was minor issue and therefore not needing approval, via 2/4 DTSC letter	X
17	Relocate air compressor to different part of treatment area	M	Provides more room for temporary storage tanks		DTSC concurred this was minor issue and therefore not needing approval, via 2/4 DTSC letter	X
18	Re-route conveyance piping and valve vaults to avoid recently expanded Batch Plant tanks	M	Minimize impact on MW-20 Bench operations		DTSC concurred this was minor issue and therefore not needing approval, via 2/4 DTSC letter	X
19a	Add Emergency backup generator...	S (per DTSC request 1/11, pending visual simulation review)	Provides power to smooth shutdown of plant in case of power failure (will not support full plant operation)	No	Under review per 2/4 DTSC letter PG&E asked that this be put on hold pending decision on size of generator.	
19b and additional lighting and receptacles for phase separators				During 3/15 call DTSC indicated verbal approval of lighting. During call on May 31, DTSC asked for written BLM concurrence which was issued by BLM via email June 6.	X
20	Modify Injection Well Design - add backwash pumps CLARIFICATION (3/15 CALL): Will use air lift to "backwash" wells rather than pumps	M S (DTSC changed to S through including in 2/4 letter)	Operational improvement to maintain injection flow capacity. Pumps would extract water periodically to clean well screens. Water extracted would be pumped directly into trucks at the well area. PG&E currently considering whether to install permanently, or bring in pumps as needed.		Closed via May 31 call with DTSC and May 24, 2005 letter from DTSC (will be evaluated further during injection well pilot period)	X
21	Change initial control of caustic feed system in first two tanks from pH-paced to flow-paced due to concern over possible probe fouling. Will use pH-paced if it turns out that fouling not an issue.	M S (DTSC changed to S through including in 2/4 letter)	Operational improvement based on ongoing IM-2 experience		DTSC concurred during May 31 conference call that this issue was approved and closed.	X
22	Add fiber optic cable to injection wells	M S (DTSC changed to S through including in 2/4 letter)	Result of design review		DTSC concurred this was minor issue and therefore not needing approval, via 2/4 DTSC letter	X
23	Add heat tracing to some chemical lines	M	Added due to concerns with freezing		DTSC concurred this was minor issue and therefore not needing approval, via 2/4 DTSC letter	X

#	Proposed Change	Significant (S) or Minor (M)?	Driver	Construction Initiated?	Status w/ DTSC	Closed
24	Modify Motor Control Center to allow for potential future well pumps	M	Per DTSC comments for expandability		DTSC concurred this was minor issue and therefore not needing approval, via 2/4 DTSC letter	X
25	Modify design detail for electrical grounding	M	Result of design review		DTSC concurred this was minor issue and therefore not needing approval, via 2/4 DTSC letter	X
26	Developed more detailed electrical design information including field wiring, power circuits, control circuits, and panel schedules.	M	Design detail necessary for construction		DTSC concurred this was minor issue and therefore not needing approval, via 2/4 DTSC letter	X
27	Developed more detailed Instrumentation and Control design information by adding field wiring and details of instrument mounting.	M	Design detail necessary for construction		DTSC concurred this was minor issue and therefore not needing approval, via 2/4 DTSC letter	X
28	Developed more detailed mechanical design information by adding pipe routing within treatment system and plumbing in the Control trailer.	M	Design detail necessary for construction		DTSC concurred this was minor issue and therefore not needing approval, via 2/4 DTSC letter	X
29	Modified P&ID drawings by adding quick-connects on tank drain pipes and adding valve identification tags, revisions to acid and polymer piping, and modification to level elements in MW20 bench tanks (under consideration).	M	Result of design review		DTSC concurred this was minor issue and therefore not needing approval, via 2/4 DTSC letter	X
30	Modified Structural drawings by modifying anchor bolt notes, dimensions of pipe racks, chemical storage area shade dimensions changed, and added pipe support details.	M	Result of design review		DTSC concurred this was minor issue and therefore not needing approval, via 2/4 DTSC letter	X
<u>Changes Submitted to DTSC January 10, 2005</u>						
31	Trench, rather than directionally drill under, Park Moabi Road to install the conveyance pipe from the MW-20 bench to the IM 3 treatment plant	M	Field change (county alerted us that they are re-paving road so were amenable to trenching)		DTSC concurred this was minor issue and therefore not needing approval, via 2/4 DTSC letter	X
<u>Changes Submitted to DTSC January 24, 2005</u>						
32	DTSC, CWG, PG&E discussing color of structures and fence	S			DTSC concurred during May 31 conference call that this issue was approved and closed as DTSC has issued direction on painting colors and schedule.	X
33	DTSC, CWG, PG&E discussing fence for staging area	S			Disapproved per 2/4 DTSC letter	X
34	PG&E developing change from one to two parallel plug-flow pipe reactors. The two pipes would be a smaller (8" or 10") than the original design of a single 12". CLARIFICATION (3/15 CALL): Proposed change is retracted	S	Improve down time by allowing flushing of one reactor without taking system off-line.		Proposed change is retracted	X
35	PG&E developing change for addition of 7,000-gallon off-spec wastewater tank and 1,000-gallon potable water tank	M	Off-spec wastewater tank would be to allow treatment system to continue operation during plant upsets. Potable water tank to supply lab, and as backup for polymer makedown water. Would be under sunshade.		DTSC concurred this was minor issue and therefore not needing approval, via 2/4 DTSC letter	X
36	PG&E developing change from CPVC to PVC pipe for 6"-diameter, and larger, pipe	M S (DTSC changed to S through including in 2/4 letter)			Disapproved per 2/4 DTSC letter	X

#	Proposed Change	Significant (S) or Minor (M)?	Driver	Construction Initiated?	Status w/ DTSC	Closed
37	PG&E developing change from Aluminum to cement mortar-lined carbon steel pipe to injection wells CLARIFICATION (3/15 CALL & FEB 7 EMAIL TO NING-WU CHANG): Proposed epoxy-lined carbon steel	M S (DTSC changed to S through including in 2/4 letter)	Concerns with vandalism (shooting) of pipe		DTSC gave approval via email from Norman Shopay to Yvonne Meeks on March 28, 2005	X
38	Modified Structural drawings by modifying Valve Vault #1 (as described in 9. Also modified pipe supports.	M	Listed as Minor, since this is just the drawings. #9 is labeled as S		DTSC concurred this was minor issue and therefore not needing approval, via 2/4 DTSC letter	X
39	Modified P&ID drawings to reflect changes described above. Will issue to Ning-Wu when re-issued. Scheduled for later this week.	M	Listed as Minor, since this is just the drawings. The process changes themselves are identified as M or S above.		DTSC concurred this was minor issue and therefore not needing approval, via 2/4 DTSC letter	X
<u>Changes Submitted to DTSC January 31, 2005</u>						
40	Move power panel transformer PPT1 outside, original design was inside Control Building.	S (visual)	Change due to heat transfer issues and building code clearance issues.		Approved via 2/4 DTSC letter	X
41	Move one of the conveyance pipe leak sensor stations from Station 43+65 approximately 75 feet towards treatment plant. Move was done as original design would have located this station within Bat Cave Wash. Drawing = TP-PC-10-01-03 Rev 3.	M	This is an older Request for Information, added at this time after review of all RFI's in light of current review policy.		DTSC concurred this was minor issue and therefore not needing approval, via 2/4 DTSC letter	X
42	Approval of Injection Wells	S			See #37 and #20 above	X
<u>Changes Submitted to DTSC March 17, 2005</u>						
43	Safety showers will be supplied water from a separate tank (approved in #35 above) rather than from self-contained units	M	Worker safety			X
44	Addition of air release valve on line to injection well	S (visual)	Operational reliability	No	As of June 9, in discussions with BLM about how to protect the boxes by placing boulders without directly impacting Rt 66 roadbed.	
45	Sodium hydroxide feed pumps for 1 st and 3 rd iron oxidation tanks will be replaced with larger pumps (of same type)	S (process)	Operational reliability		DTSC concurred during May 31 conference call that this issue was approved and closed	X

Appendix C

As-built Drawings
