

**Kirkwood Meadows Public Utility District
Operations Committee
REGULAR MEETING AGENDA**

NOTICE IS HEREBY GIVEN that the Operations Committee of the Kirkwood Meadows Public Utility District has called a Regular Meeting of the Committee to be held on **Wednesday, August 29, 2018 at 3:30 p.m.** at the Kirkwood Meadows Public Utility District, Community Services Building, 33540 Loop Road, Kirkwood, CA 95646.

The Agenda for this Regular Meeting is:

1. **Performance Reporting.** Updated efficiencies and losses of each Department. *AM Benson Pgs. 2-3*
2. **Wastewater I&I.** Update of progress. *GM Christeson*
3. **WWTP Feasibility Study.** Update of progress. *GM Christeson*
4. **Design Standards.** Discussion of DRAFT design standards. *GM Christeson/ AM Benson*
5. **Propane Bulk Tank Additional Work.** Update of costs. *AM Benson Pgs. 4-5*
6. **Customization of the 2016 California Fire Code.** Discussion and possible action. *AGM Ansel*
7. Future Topics
8. Next Meeting/Staff Recommendation: *Wednesday, September 26, 2018 - 3:30pm.*

Dated: August 22, 2018


Kirkwood Meadows PUD

The Kirkwood Meadows Public Utility District is an Equal Opportunity Provider and Employer.

In compliance with the Americans with Disabilities Act, if you are a disabled person and you need a disability-related modification or accommodation to participate in this meeting, please contact the District at (209) 258-4444, by email to jaustin@kmpud.com. Requests must be made as early as possible, and at least two business days before the meeting.

**Kirkwood Meadows Public Utility District
Electric Generation
2018/2019**

	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	2018/2019 Totals
Total Production (kWh)	451,825												451,825
CAISO Purchase (kWh)	451,825												451,825
Powerhouse Production (kWh)	0												0
Actual Metered (kWh)	355,467												355,467
Total System Losses (kWh)	96,358												96,358
Identified System Losses (Estimated kWh):													
KM Blue Transformer	9,523												9,523
KM Green Transformer	11,244												11,244
Step-Up Transformers	8,640												8,640
Total Identified System Losses (kWh)	29,407												29,407
Unidentified System Losses (kWh):													
Distribution System Losses	26,027												26,027
OV Line Loss	40,924												40,924
Total Unidentified System Losses (kWh)	66,951												66,951
% Unidentified System Losses (Goal 12%)	15%												15%

**Kirkwood Meadows Public Utility District
Propane Production
2018/2019**

	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	2018/2019 Totals
Propane Usage (cf)	534,766												534,766
Actual Metered (cf)	512,889												512,889
Unmetered Total	21,877												21,877
% Unmetered (Goal 10%)	4%												4%

**Kirkwood Meadows Public Utility District
Water Production
2018/2019**

	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	2018/2019 Totals
Total Production (Gallons)	1,571,872												1,571,872
Actual Metered (Gallons)	1,282,386												1,282,386
Total System Losses (Gallons)	289,486												289,486
Identified System Losses - (Estimated Gallons)													
District Facility Use	12,000												12,000
Hydrant / Sample Flushing	1,000												1,000
Backwards Meter Reads	1,000												1,000
Discovered Leaks Before Meters	0												0
Fire Department	500												500
Total Identified System Losses (Gallons)	14,500												14,500
Unidentified System Losses (Gallons)	274,986												274,986
% Unidentified System Losses (Goal 10%)	17%												17%

**Kirkwood Meadows Public Utility District
Waste Water Production
2018/2019**

	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	2018/2019 Totals
Influent Metered (Gallons)	954,511												954,511
Actual Metered (Gallons)	882,318												882,318
Total System Unmetered (Gallons)	72,193												72,193
Identified Unmetered Usage - (Estimated Gallons)													
District Facility Use	12,000												12,000
Hydrant Flushing Into System	1,000												1,000
Backwards Reads	1,000												1,000
Total Identified Unmetered Usage (Gallons)	14,000												14,000
Unidentified Unmetered Usage (Gallons)	58,193												58,193
% Unidentified Unmetered Usage (Goal 27%)	6%												6%



PROPANE CONSTRUCTION & METER SERVICES 1-800-587-7411

To: Brandi Benson

From: Greg Martinsen

Subject: Internal Tank Valves Issue

This proposal is for replacing the tank valves and appurtenances associated with the Eastern propane tank for Kirkwood P.U.D.

The proposal is based off of the tank percentages (both) being under 35 %. Propane Construction and Meter Services (PCMS) will transfer all liquid from the eastern tank into the western tank via the use of a vapor compressor. We will attempt to also transfer the remaining vapor from the eastern tank to the western tank. It may be required to also "flare off" the remaining tank vapors to allow PCMS to remove the old valves and replace with new.

PCMS will remove the old tank internal valves, the semi internal relief valves and the remaining plugged off excess flow valve on the top of the tank. PCMS will install a 1 1/4" internal valve and plug off for future use. PCMS will install new internal valves in the same location as existing. We will also install tees in the position of where there is currently elbows in place. The tee's outlet will be plugged off for future use if needed. PCMS will also attempt to reuse the existing gas flex lines connecting the tank internal valves to the piping system. The flex lines should not have a problem being reused, unless something is found during the disassembly of the flex lines. In that case, new flex lines will be installed.

PARTS AND MATERIALS	\$21,089.64 (INCLUDES TAXES)
LABOR CHARGES	\$17,476.00 (INCLUDES LODGING AND MEALS)
ADDITIONAL COST OF FLEX LINES IF NEEDED	\$1,480.05 (INCLUDES TAXES)

Upon completion of tank valve installation PCMS will vapor up and test tank for leaks, PCMS will re-vaporize tank to normal operation pressure and transfer liquid over to balance the tank liquid levels. PCMS will also test any redone piping and ensure it is all leak free.

Sincerely

Greg Martinsen

Manager, PROPANE CONSTRUCTION AND METER SERVICES

Propane Construction & Meter Services
1915 Moffat Blvd Manteca CA 95336
(866)587-7411



PROPANE CONSTRUCTION & METER SERVICES 1-800-587-7411

ADDENDUM TO ORIGINAL PROPOSAL...

08/24/2018

PCMS will, upon tank emptying, put system in vapor only mode. Drain liquid line that feeds the vaporizers. PCMS will dis-assemble the 3 inch liquid lines from both tank up to the tee that combines the two tank liquid lines to one line. PCMS will install two (2) 3 inch globe valves to isolate each tank from another in order for the system to operate independently from the other tank. This will enable the other tank to be disconnected from the system and allow the liquid feed line to remain in operation.

PCMS will also install a vapor line from the east tank internal valve on top of tank and also install feed for vapor service to provide another source of vapor as a backup system. This regulator would provide approximately 14,000,000 BTU for vapor back up.

The above described additions to work will allow KIRKWOOD P.U.D. to operate the LP GAS system off of each tank independently of the other in the event of a tank issue that results in the isolation of said tank.

PARTS AND MATERIALS	\$9,800.51 <i>(INCLUDES TAXES)</i>
LABOR CHARGES	\$5,698.00

SINCERELY

Greg Martinsen

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