

From: [Barbara Buikema](#)
To: [Domine Barringer](#)
Subject: FW: Ejector Pump Policy
Date: Wednesday, February 22, 2023 1:45:14 PM

Domine – here is another one for public comment section

Rachel – head's up that there is a request for duplex pump system

From: Michael LANG <michaelalang@comcast.net>
Sent: Wednesday, February 22, 2023 1:42 PM
To: Barbara Buikema <Buikema@cawd.org>
Subject: Ejector Pump Policy

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Barbara,

I am a Pescadero Rd resident that will be affected by your proposed sewer relocation project. Yesterday I received and read the proposed ejector pump policy. I have one request, and I understand that this may be premature.

Section 2.b states the following:

"For Installations meeting the requirements of subdivision 2(a), CAWD will pay for and provide the residence with a high quality sewer ejection pump system equivalent to the Environment One (E-One) low pressure pump system during the construction of the relocation of the CAWD sewer system."

The underlined statement is not very precise as E-One manufactures several pump systems. I understand the intention here is not to fully spec the pump as that could potentially change depending on requirements of a given site. However, I would like to propose one high level feature that I think is important.

I've been researching grinder pump systems and it seems there are simplex and duplex systems. Simplex systems contain one pump and duplex systems contain two pumps. In the duplex systems, the control panel monitors the liquid level in the basin and alternates the two grinder pumps each cycle such that both pumps receive equal wear. In the event one pump should fail, the system automatically switches to the other pump.

I'd like to request that your policy specify duplex pump systems. These are beneficial to both CAWD and the homeowner because:

1. With duplex systems, CAWD will have fewer emergency service calls because when a pump fails, the other pump takes over.
2. Due to duplex system redundancy, homeowners don't need to worry about

down time due to pump failures.

3. With a built in backup pump in duplex systems, CAWD and its service providers will have more time to replace failed pumps. They won't need to maintain a stock of grinder pumps for emergency install when a pump fails.
4. Each pump in a duplex system should last twice as long as simplex system pumps because each individual pump will run half as often as simplex systems.
5. The lifetime of an individual pump is on the fringe of the proposed 10 year CAWD maintenance period, so CAWD may end up replacing many of the pumps in a simplex system. However, it's unlikely duplex systems will need pump replacement within 10 years due to the alternating pump design.
6. While duplex systems essentially pull the pump replacement cost forward, they offer system redundancy not possible in simplex systems.
7. It sends a positive message to homeowners that you are doing your best to provide a quality/reliable solution.

If it's not possible or appropriate to specify a duplex pump system in the ejector policy document, please record my request and address it at the appropriate time as your plan evolves.

If possible, please include this letter in the board packet for tomorrows meeting.

-- Mike