




**From:** Kelley Geyer k.geyer@bbid.org   
**Subject:** RE: Response letter  
**Date:** May 29, 2015 at 3:40 PM  
**To:** k.geyer@bbid.org, Rick Gilmore r.gilmore@bbid.org, Moon, Laura K.@DWR Laura.K.Moon@water.ca.gov, Dan Kelly dkelly@somachlaw.com  
**Cc:** Croyle, William@DWR William.Croyle@water.ca.gov, Johns, Jerry@DWR jjohnswater@gmail.com

This email includes all attachments for your use.

-----Original Message-----

**From:** Kelley Geyer [mailto:k.geyer@bbid.org]  
**Sent:** Friday, May 29, 2015 3:36 PM  
**To:** 'Rick Gilmore'; 'Moon, Laura K.@DWR'; 'Dan Kelly'; 'k.geyer@bbid.org'  
**Cc:** 'Croyle, William@DWR'; 'Johns, Jerry@DWR'  
**Subject:** RE: Response letter  
**Importance:** High

Dear Ms. King Moon,

Please find attached an updated proposal letter from Byron-Bethany Irrigation District (BBID) outlining a proposal between BBID and Department of Water Resources (DWR) for your consideration.

Enjoy the weekend.

Kind regards,

Kelley

-----Original Message-----

**From:** Rick Gilmore [mailto:r.gilmore@bbid.org]  
**Sent:** Friday, May 29, 2015 9:46 AM  
**To:** Moon, Laura K.@DWR  
**Cc:** Croyle, William@DWR; Johns, Jerry@DWR; Kelley Geyer  
**Subject:** Re: Response letter

Today, we are finalizing the numbers requested per Jerry's request.

Rick Gilmore

On May 29, 2015, at 9:36 AM, Moon, Laura K.@DWR <Laura.K.Moon@water.ca.gov> wrote:

Rick,

I know discussions are still going on between you and Jerry on a new proposal for dealing with your water needs, but I wanted to make sure we at least gave you a response acknowledging your previous proposal and indicating our intent to keep working with you. Do you have an idea when you will be ready to share your new proposal?

Best,

Laura

<Rick Gilmore BBID May 29 2015.pdf>



May 29 2015 BBID DWR  
Proposal.pdf

May 29, 2015

Via Electronic and U.S. Mail



Laura King Moon, Chief Deputy Director  
California Department of Water Resources  
P.O. Box 942836, Room 1115-2  
Sacramento, CA 94236-0001  
Email: [Laura.k.moon@water.ca.gov](mailto:Laura.k.moon@water.ca.gov)

SUBJECT: Byron-Bethany Irrigation District

RUSSELL KAGEHIRO  
President  
Division V

TIM MAGGIORE  
Vice President  
Division III

LARRY ENOS, JR.  
Director  
Division I

MARK MAGGIORE  
Director  
Division II

FELIX MUSCO  
Director  
Division IV

CHARLES TUSO  
Director  
Division VI

JEFF BROWN  
Director  
Division VII

RICK GILMORE  
General Manager  
Secretary

7995 Beams Road  
Byron, CA 94514-1625

Phone: 209-835-0575  
Facsimile: 209-835-2869

Dear Ms. King Moon:

This letter follows my May 23, 2015 letter regarding an exchange of water between the Byron-Bethany Irrigation District (BBID or District) and the Department of Water Resources (Department). The purpose of this letter is to inquire as to whether the Department is willing to extend the exchange contemplated by my May 23, 2015 letter through the remainder of the irrigation season this year. The District believes the extension of this exchange of water is contemplated by and consistent with our 2003 Agreement.

First, BBID appreciates your time and efforts and that of your staff in assisting BBID in trying to find creative solutions to mitigate damages to lands within BBID through the current drought. BBID's Board of Directors very much appreciates those efforts and willingness to continue to work with us to provide some level of back up water supply. BBID values its relationship with DWR and desires to continue to cultivate our recent cooperative efforts into a more productive long-term relationship.

BBID is seeking an exchange of water through the 2015 irrigation season to mitigate for significant damages to lands and for uses within the District. As you are aware, BBID is the sole source of water for the community of Mountain House, a community with over 12,000 residents. The fire protection system in Mountain House is also available to and used by Cal Fire to fight wildfires in the Altamont Pass area. The District also provides water for the Mariposa Energy Project, a 200-megawatt natural-gas-fired power plant, for use to control emissions and fire suppression, and to the County Airport at Byron for fire suppression.

BBID's needs through the 2015 irrigation season are set forth below. BBID proposes to continue the diversion of water following curtailments of BBID's pre-1914 appropriative water rights through an exchange with the Department. BBID proposes to "repay" DWR by providing the Department with a like supply of water through fallowing or other water savings measures in 2016 *or* through entering the water transfer market and purchasing a like quantity of water to provide to the Department to replace water used by BBID in 2015.

The District estimates that the water supply needs for the remainder of the 2015 irrigation season, assuming the curtailment of BBID's pre-1914 appropriative water right on June 30, 2015, to total approximately 8,400 acre-feet. Factoring in an overall system loss of 12%, the estimated total amount of water diverted from the Intake Channel is approximately 9,400 acre-feet.

That total number of 8,400 acre feet is based upon the following:

Water supply for Mountain House: 2,800 acre-feet. Water supplies for Mountain House are difficult to quantify with certainty. While Mountain House has implemented a Stage 3 Water Shortage Emergency, BBID needs to provide sufficient wholesale water supplies in order to maintain minimum pressure in the fire protection/suppression system within the Mountain House community, both for fire-fighting purposes within Mountain House and for Cal Fire's use in fighting wildfires. (See attached letter from the Mountain House Community Services District.)

Mariposa Energy Project: 60 acre-feet. (See attached information)

Contra Costa Airport – Byron: 6 acre-feet.

G3 Enterprises (Gallo silica mining operation for bottling): 240 acre-feet

Byron-Bethany Irrigation District Metered Agricultural Customers: (Irrigated acreage July-October)

Row Crops. Some growers have annual crops currently planted and being irrigated. If curtailments issue and growers are prohibited from irrigated crops already planted, losses will be in the millions of dollars. Below is a breakdown of crops by type and acreage, along with the quantity of water required to allow harvest of crops already planted. All row crops are irrigated via drip irrigation.

Estimated water delivery to reach harvest:

Strawberries – 5 acres – 6 acre-feet

Corn, Sweet - 414 acres – 363 acre-feet

Tomatoes - 275 acres – 556 acre-feet

Bell Peppers - 326 acres – 338 acre-feet

Mixed Vegetables - 100 acres – 60 acre-feet

Permanent Crops. There are approximately 3,535 acres of permanent crops within BBID. The cherry crop has already been harvested, and the remaining permanent crops are still being irrigated to reach harvest. All permanent crops are irrigated via micro-sprinklers. The breakdown of permanent crops and water needed for each is as follows.

Almonds (1-2 years old) – 789 acres – 632 acre-feet

Cherries – 463 acres – 807 acre-feet

Figs – 10 acres – 16 acre-feet

Fruit Trees – 387 acres – 453 acre-feet

Grapes, Wine – 1200 acres – 719 acre-feet

Laura King Moon  
May 29, 2015  
Page 3

Nursery – 38 acres – 22 acre-feet  
Olives – 11 acres – 8 acre-feet  
Walnuts – 636 acres – 845 acre-feet

The remaining crops within the District are as follows:

Sudan – 837 acres – 1,508 acre-feet  
Alfalfa – 703 acres – 1,680 acre-feet  
Clover - 39 acres – 36 acre-feet  
Pasture - 86 acres – 100 acre-feet

As the Department is aware, BBID's diversions are reported daily to the Department. As such, the Department would have daily accurate measurements of water provided to BBID as part of the exchange and the parties will be able to accurately track and record the quantity of water to be repaid by the District in 2016.

*If necessary, the District is prepared to implement mandatory rationing to reduce the District's diversion from the Intake Channel thus reducing the amount of metered deliveries through October 31, 2015.*

Please let me know if the Department would agree to proceed with the proposed extension of our prior exchange under our existing Agreement. If the Department has any questions regarding the information provided above, or any other aspect of the proposed exchange, BBID would prefer to answer those questions or resolve any issues in a face-to-face meeting in an effort to reach principles of an agreement prior to June 3, 2015.

BBID very much appreciates the Department's time and efforts and looks forward to maintaining a positive working relationship with the Department.

Very Truly Yours,

BYRON-BETHANY IRRIGATION DISTRICT



Rick Gilmore  
General Manager

cc: Daniel Kelly, General Counsel

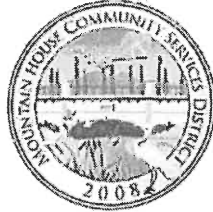
## Byron-Bethany Irrigation District

### July - October 2015 Water Needs

|                     | Crop        | Total Acres    | July       | Aug        | Sep        | Oct        | Total      | Per A/F         |
|---------------------|-------------|----------------|------------|------------|------------|------------|------------|-----------------|
| Sandhu Bros         | Almonds     | 710.33         | 142        | 142        | 142        | 142        | 568        |                 |
| R & T Farms         | Almonds     | 75             | 15         | 15         | 15         | 15         | 60         |                 |
| Johnson Farms       | Almonds     | 4              | 1          | 1          | 1          | 1          | 4          |                 |
|                     |             | <b>789.33</b>  | <b>158</b> | <b>158</b> | <b>158</b> | <b>158</b> | <b>632</b> | <b>0.800679</b> |
| Bloomfield          | Cherries    | 19             | 13         | 13         | 13         | 13         | 52         |                 |
| FA Maggiore         | Cherries    | 100            | 84         | 76         | 54         | 16         | 230        |                 |
| Vaquero Farms       | Cherries    | 161            | 90         | 76         | 90         | 80         | 336        |                 |
| Salvador            | Cherries    | 11             | 5          | 3          | 2          | 2          | 12         |                 |
| Freitas Orchard     | Cherries    | 4              | 3          | 3          | 3          | 2          | 11         |                 |
| McKinney Farms      | Cherries    | 35             | 7          | 5          | 4          | 4          | 20         |                 |
| McLean Farms        | Cherries    | 11             | 2          | 2          | 2          | 2          | 8          |                 |
| Barragon Farms      | Cherries    | 11             | 2          | 2          | 2          | 2          | 8          |                 |
| Severs Farms        | Cherries    | 11             | 2          | 2          | 2          | 2          | 8          |                 |
| Nunn                | Cherries    | 99.57          | 35         | 35         | 35         | 17         | 122        |                 |
|                     |             | <b>462.57</b>  | <b>243</b> | <b>217</b> | <b>207</b> | <b>140</b> | <b>807</b> | <b>1.744601</b> |
| Knoll Farms         | Figs        | 9.77           | 4          | 4          | 4          | 4          | 16         | 1.637666        |
| Mark Gambardella    | Grapes      | 10.5           | 5          | 5          | 4          | 4          | 18         |                 |
| Tamayo Wineries     | Grapes      | 42             | 3          | 3          | 0          | 2          | 8          |                 |
| Bloomfield          | Grapes      | 282            | 28         | 28         | 28         | 28         | 112        |                 |
| Five Star           | Grapes      | 522.26         | 82         | 72         | 92         | 96         | 342        |                 |
| Vaquero Farms       | Grapes      | 300            | 45         | 60         | 45         | 40         | 190        |                 |
| Leer Vineyards      | Grapes      | 44             | 13         | 17         | 11         | 8          | 49         |                 |
|                     |             | <b>1200.76</b> | <b>176</b> | <b>185</b> | <b>180</b> | <b>178</b> | <b>719</b> | <b>0.598787</b> |
| Mike Arata          | Mixed Fruit | 30             | 30         | 8          | 15         | 48         | 101        |                 |
| Frog Hollow         | Mixed Fruit | 251.11         | 80         | 60         | 40         | 60         | 240        |                 |
| Kelsey Organic Farr | Mixed Fruit | 60             | 18         | 18         | 18         | 18         | 72         |                 |
| Nunn Chavez         | Mixed Fruit | 46             | 10         | 10         | 10         | 10         | 40         |                 |
|                     |             | <b>387.11</b>  | <b>138</b> | <b>96</b>  | <b>83</b>  | <b>136</b> | <b>453</b> | <b>1.17021</b>  |
| Bello O'Livio       | Olives      | 10.61          | 2          | 2          | 2          | 2          | 8          | 0.754006        |
| Byron Nursery       | Nursery     | 14             | 2          | 2          | 2          | 2          | 8          |                 |
| Barragon Nursery    | Nursery     | 24.18          | 3.5        | 3.5        | 3.5        | 3.5        | 14         |                 |
|                     |             | <b>38.18</b>   | <b>5.5</b> | <b>5.5</b> | <b>5.5</b> | <b>5.5</b> | <b>22</b>  | <b>0.576218</b> |
| G3 Enterprises      | Silica      | 160            | 85         | 70         | 55         | 30         | 240        | 1.5             |
| FA Maggiore         | Walnuts     | 128            | 50         | 70         | 70         | 0          | 190        |                 |
| Aramass             | Walnuts     | 43.39          | 20         | 13         | 22         | 0          | 55         |                 |
| Lawrence Cattle     | Walnuts     | 80             | 27         | 20         | 18         | 5          | 70         |                 |
| Houston Orchard     | Walnuts     | 357            | 160        | 160        | 160        | 0          | 480        |                 |
| Martinez Farms      | Walnuts     | 10             | 7          | 7          | 6          | 0          | 20         |                 |
| Paris Farms         | Walnuts     | 4              | 1          | 1          | 1          | 1          | 4          |                 |
| Pacific Rim Orchard | Walnuts     | 14             | 10         | 12         | 4          | 0          | 26         |                 |
|                     |             | <b>636.39</b>  | <b>275</b> | <b>283</b> | <b>281</b> | <b>6</b>   | <b>845</b> | <b>1.327802</b> |

**Byron-Bethany Irrigation District**  
**July - October 2015 Water Needs**

|                 | <b>Crop</b>  | <b>Total Acres</b> | <b>July</b> | <b>Aug</b>  | <b>Sep</b>  | <b>Oct</b>  | <b>Total</b> | <b>Per A/F</b>  |
|-----------------|--------------|--------------------|-------------|-------------|-------------|-------------|--------------|-----------------|
| Tern Farms      | Strawberries | <b>4.98</b>        | <b>1.5</b>  | <b>1.5</b>  | <b>1.5</b>  | <b>1.5</b>  | <b>6</b>     | <b>1.204819</b> |
| Simoni Massoni  | Corn, Sweet  | <b>105</b>         | <b>0</b>    | <b>115</b>  | <b>0</b>    | <b>0</b>    | <b>115</b>   |                 |
| Barzor/Uesugi   | Corn, Sweet  | <b>68</b>          | <b>72</b>   | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>72</b>    | <b>1.058824</b> |
| FA Maggiore     | Corn, Sweet  | <b>48</b>          | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>     |                 |
| G & S Farms     | Corn, Sweet  | <b>48</b>          | <b>56</b>   | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>56</b>    | <b>1.166667</b> |
| RRS             | Corn, Sweet  | <b>130</b>         | <b>100</b>  | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>100</b>   |                 |
| Mark Dwelley    | Corn, Sweet  | <b>15</b>          | <b>20</b>   | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>20</b>    |                 |
| FA Maggiore     | Corn, Sweet  | <b>0</b>           | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>     |                 |
|                 |              | <b>414</b>         | <b>248</b>  | <b>115</b>  | <b>0</b>    | <b>0</b>    | <b>363</b>   | <b>0.876812</b> |
| Simoni Massoni  | Tomatoes, Pi | <b>163.9</b>       | <b>350</b>  | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>350</b>   |                 |
| FA Maggiore     | Tomatoes, Pi | <b>46.5</b>        | <b>130</b>  | <b>20</b>   | <b>0</b>    | <b>0</b>    | <b>150</b>   |                 |
| G&S Farms       | Tomatoes, Pi | <b>65</b>          | <b>56</b>   | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>56</b>    |                 |
|                 |              | <b>275.4</b>       | <b>536</b>  | <b>20</b>   | <b>0</b>    | <b>0</b>    | <b>556</b>   | <b>2.018882</b> |
| Barzor/Uesugi   | Bell Peppers | <b>325.96</b>      | <b>98</b>   | <b>98</b>   | <b>98</b>   | <b>44</b>   | <b>338</b>   | <b>1.036937</b> |
| 10 Farms        | Mixed Vegeta | <b>98.83</b>       | <b>15</b>   | <b>15</b>   | <b>15</b>   | <b>15</b>   | <b>60</b>    | <b>0.607103</b> |
| Sudan Growers   | Sudan        | <b>837.65</b>      | <b>377</b>  | <b>377</b>  | <b>377</b>  | <b>377</b>  | <b>1508</b>  | <b>1.800275</b> |
| Alfalfa Growers | Alfalfa      | <b>703.2</b>       | <b>420</b>  | <b>420</b>  | <b>420</b>  | <b>420</b>  | <b>1680</b>  | <b>2.389078</b> |
| Oat Growers     | Oats         | <b>0</b>           | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>     |                 |
| Clover          | Clover       | <b>38.75</b>       | <b>9</b>    | <b>9</b>    | <b>9</b>    | <b>9</b>    | <b>36</b>    | <b>0.929032</b> |
| Pasture Growers | Pasture      | <b>85.94</b>       | <b>25</b>   | <b>25</b>   | <b>25</b>   | <b>25</b>   | <b>100</b>   | <b>1.163603</b> |
|                 |              | <b>1665.54</b>     | <b>831</b>  | <b>831</b>  | <b>831</b>  | <b>831</b>  | <b>3324</b>  | <b>1.995749</b> |
|                 |              | <b>6441.25</b>     | <b>2816</b> | <b>2101</b> | <b>1921</b> | <b>1551</b> | <b>8389</b>  | <b>1.302387</b> |



Mountain House Community Services District  
230 S. Sterling Drive, Suite 100, Mountain House, CA 95391  
Tel (209) 831-2300 • Fax (209) 831-5610  
[www.mhcsd.com](http://www.mhcsd.com)

May 27, 2015

Rick Gilmore, General Manager  
Byron Bethany Irrigation District  
7995 Bruns Road  
Byron, California 94514

RE: Water Use Reductions in Mountain House

Dear Mr. Gilmore:

I want to take a brief moment to highlight water use reductions the community of Mountain House has made over the years to assist you with ongoing discussions to protect available water supplies to Byron Bethany Irrigation District (BBID) and the community of Mountain House. Mountain House Community Services District is experiencing success in reduction of water consumption based on the low water use design of the master planned Mountain House community and the careful management of municipal irrigation. The 2014 estimated water use reduction is 21.3% as compared to the base year of 2013. These significant reductions in water use came from municipal landscape irrigation improvements and management that averaged a 36% reduction (for the last 12 months) and School District reductions of 34% reduction.

From its inception in the early 2000s, the design and construction of the master planned Mountain House community is and has been combining the functional intersection between efficiency and attractive designs that serve as a model for good planning being used elsewhere throughout northern San Joaquin Valley. The 12-month average residential water consumption is 96 gallons per person – R-GPCD (96 R-GPCD), which according to a recent table published by the State entitled “Urban Water Suppliers and Proposed Regulatory Framework Tiers to Achieve 25% Use Reduction” MHCSD ranks competitively with low water use coastal communities in using less water despite being geographically located in the Altamont proximity of northern San Joaquin Valley with temperatures frequently exceeding 100-degrees and winds above 30-MPH. The annual average reduction R-GPCD is 19% as compared to the baseline year of 2013, which indicates the emergence of demand hardening as a result of efficient designs and conservation

practices. Despite this demand hardening, the MHCS D is initiating several actions that will further reduce water use to comply with the State mandated reduction target of 25%. Among these measures include the following:

- Updating water shortage emergency ordinance declared by the MHCS D Board in June 2014 to support recent mandates, including the mandate of no more than 2-day per week landscape irrigation between the hours of 9 PM and 7 AM.
- Expansion of public outreach and education campaign to encourage and incentivize increased water conservation.
- Expansion of code enforcement to discourage violations of the emergency drought ordinance up to and including fines.
- Removal of 160,000 square feet of (turf) landscape.
- Elimination and/or significant reduction in water use through redesigning median landscaping.
- Installation of ET Smart irrigation controllers
- Implementation of the most advanced designs in efficient landscape irrigation for all new construction [e.g., use of subsurface irrigation in the root zone using EcoMat Technology].
- Planning stages for water recycling using tertiary water in development.

Further reductions in R-GPCD is difficult because of past significant and successful efforts to conserve on the part of efficient designs, low water use landscaping, and efforts by the community to reduce water waste. This is resulting in demand hardening and staff is looking at creative measures to make further gains in the R-GPCD. This demand hardening is a function of the design characteristics of homes built in Mountain House. Each home is designed and built with water efficient toilets, plumbing, showers, low water use landscapes, and water wise irrigation. Lot sizes are small size in comparison to older, more traditional communities, which contributes to efficiency and community well-being and safety. Continuing efforts to reduce will focus on community education and implementing standards to allow for water efficient landscape designs and synthetic turf options as well.

The majority of our savings will be based on advancing our transformation of the municipal landscape from an inefficient (overhead spray) to a more efficient low flow drip and sub-surface design. Areas where municipal landscape was removed will be replanted upon the end of the drought, with drought tolerant plants watered by the most efficient means possible.

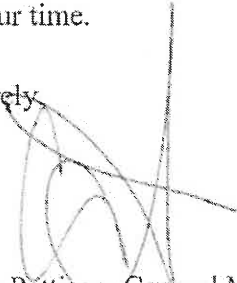
Two other important water demands factor into the Mountain House water use equation. Mountain House is blessed with four K-8 schools based on the village concept, along with a high school that serves the entire community. Student population exceeds currently 3,500 students.



The schools also serve many community activities within the region, all of which contributes to the overall health and safety water demand of the community.

The geographic proximity of Mountain House to the Altamont, the rural to suburban demographics, combined with high winds and high temperatures contribute to high risk of fire as identified in the region's Natural Hazard Mitigation Plan (2012). The fire protection system within Mountain House is therefore the first line of defense for life and property within Mountain House and within the South County Fire Authority region. We look forward to working with BBID and the State in looking for ways to contribute to water use reductions through efficiency improvements and water recycling projects. We hope we can partner with your organization and the State to further discuss projects and financial assistance in making these plans a reality. Please call or e-mail me at the following contact information if you have any questions, comments, or suggestions at (209) 831-5656 or [epattison@sjgov.org](mailto:epattison@sjgov.org). Thank you for your time.

Sincerely,

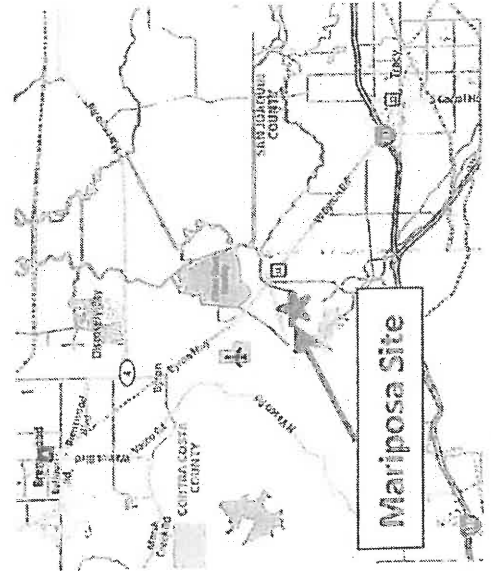
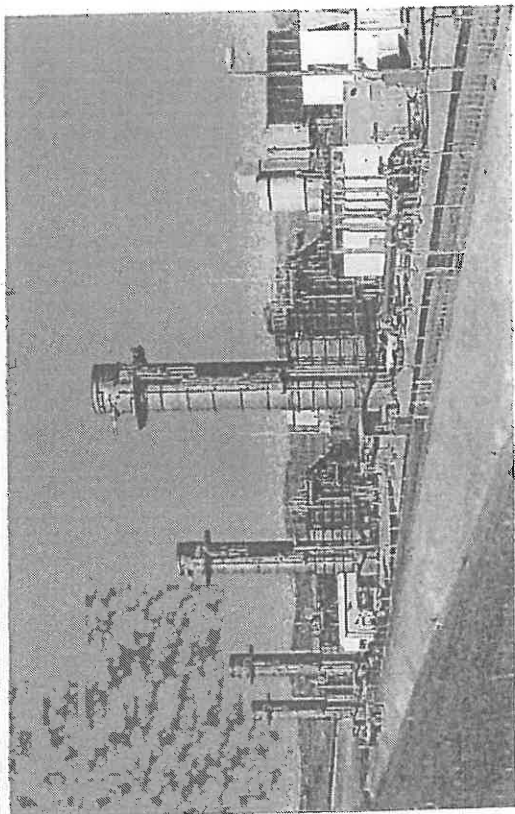
A handwritten signature in black ink, appearing to read 'Edwin Pattison', written over a vertical line.

Edwin Pattison, General Manager  
Mountain House Community Services District

# Facility Snapshot

|                          |  |
|--------------------------|--|
| Location                 | <ul style="list-style-type: none"> <li>▣ Alameda County, CA</li> </ul>                 |
| Market Zone              | <ul style="list-style-type: none"> <li>▣ CAISO</li> </ul>                              |
| Site                     | <ul style="list-style-type: none"> <li>▣ 10 acres within 158 acre parcel</li> </ul>    |
| Nominal Capacity         | <ul style="list-style-type: none"> <li>▣ 200 MW</li> </ul>                             |
| DGC Ownership            | <ul style="list-style-type: none"> <li>▣ 100%</li> </ul>                               |
| Fuel                     | <ul style="list-style-type: none"> <li>▣ Natural Gas</li> </ul>                        |
| COD                      | <ul style="list-style-type: none"> <li>▣ October 1, 2012</li> </ul>                    |
| Equipment                | <ul style="list-style-type: none"> <li>▣ 4 GE LM6000 PC-Sprint Gas Turbines</li> </ul> |
| Toll Counterparty        | <ul style="list-style-type: none"> <li>▣ PG&amp;E</li> </ul>                           |
| Toll Term                | <ul style="list-style-type: none"> <li>▣ 10 years</li> </ul>                           |
| Heat Rate                | <ul style="list-style-type: none"> <li>▣ 9,563 Btu/kWh (HHV)</li> </ul>                |
| Gas Interconnection      | <ul style="list-style-type: none"> <li>▣ PG&amp;E</li> </ul>                           |
| Electric Interconnection | <ul style="list-style-type: none"> <li>▣ PG&amp;E / CAISO</li> </ul>                   |
| Water Supply             | <ul style="list-style-type: none"> <li>▣ BBID<sup>(1)</sup></li> </ul>                 |

(1) Water supply via a 1.8-mile 10-inch diameter pipeline from BBID Canal 45.



# Critical to basic grid reliability

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- Dispatchable by PG&E and CAISO
- Helps maintain continuous and stand local / regional power supplies, including areas affected limited transmission capacity
- Helps stabilize the power grid
- Has been dispatched an average of 208 start/stop cycles over last couple of years
- Faster start-up and ability to run at less than full capacity makes plant more flexible than other nearby plants

# Water Utilization

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Mariposa Energy Project is incredibly water efficient compared to other plants that would be dispatched should no water be available

- Designed to utilize a minimum amount of water for power generation
  - Replaced typical evaporative inlet air coolers with chillers utilizing air-cooled condensers
  - Reduced water consumption to essentially emissions control (water is used to mitigate NOx formation during the combustion process)
- As part of Mariposa Energy's impact mitigation program, Mariposa worked with BBID to pay for and implement the concrete lining of a portion of Canal 45 to eliminate seepage and conserve, on an annual bases, the maximum anticipated Mariposa usage of 187 ac-ft of water.
- Over the past 2.5 years Mariposa has been operating about 785 hours / 200 starts per
  - Mariposa has utilized only 45.1 ac-ft of water;
  - while the mitigation that Mariposa implemented with BBID has conserved 467.5 ac-ft of water.