

## DOCKETED

<b>Docket Number:</b>	15-AFC-02
<b>Project Title:</b>	Mission Rock Energy Center
<b>TN #:</b>	214945
<b>Document Title:</b>	Invitation to Consult to Native Americans
<b>Description:</b>	N/A
<b>Filer:</b>	Matthew Braun
<b>Organization:</b>	California Energy Commission
<b>Submitter Role:</b>	Energy Commission
<b>Submission Date:</b>	12/20/2016 10:45:12 AM
<b>Docketed Date:</b>	12/20/2016

**CALIFORNIA ENERGY COMMISSION**

1516 NINTH STREET  
SACRAMENTO, CA 95814-5512  
www.energy.ca.gov



May 24, 2016

Gino Altamirano  
Coastal Band of Chumash Nation

RE: Mission Rock Energy Center (15-AFC-02) - Invitation to Participate in California Energy Commission Consultation

Dear Mr. Altamirano,

The California Energy Commission (Energy Commission) is responsible for preparing an environmental analysis for the proposed Mission Rock Energy Center (MREC) and invites Coastal Band of Chumash Nation to consult regarding this project because of Coastal Band of Chumash Nation's traditional and cultural affiliation, and knowledge within the geographic area of the proposed project.

This letter provides general information concerning the current project design, includes attached exhibits depicting the vicinity and project site location, and invites you to participate in Energy Commission consultation, in accordance with the obligations pursuant to Public Resources Code 21080.3.1 and 21080.3.2.

The Energy Commission has jurisdiction over the proposed project and determined the MREC application for certification (AFC) data adequate on May 17, 2016. A search of the Sacred Lands File by the Native American Heritage Commission did not result in the identification of any resources. The literature search and pedestrian survey conducted by the project applicant in the proposed project area and associated linears identified a sandstone mortar fragment, an historic transmission line, the Santa Clara substation, an historic trash scatter, the former Beckwith Ranch, the Limoneira Ranch Aliso Village, and the Santa Clara Valley Rural Historic District.

## **MREC PROJECT DESCRIPTION**

The applicant, Mission Rock Energy Center, LLC proposes to construct, own, and operate the MREC in unincorporated Ventura County, California, approximately 2 miles west of Santa Paula, near Highway 126. The facility would be a natural gas-fired, simple-cycle power plant comprising five combustion turbine generators (CTGs), with a nominal generating capacity of 255 megawatts (MW). Additionally, MREC would house twenty (20) on-site ion (and/or *flow*<sup>1</sup>) battery units for the storage of MREC-generated

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<sup>1</sup> a flow battery is just like an electrochemical cell, with the exception that the ionic solution (electrolyte) is not stored in the cell around the electrodes. Rather, the ionic solution is stored outside of the cell, and can be fed into the cell in order to generate electricity. The total amount of electricity that can be generated depends on the size of the storage tanks.

electricity, providing an additional 100 megawatt hours (MWh) (25 MW for up to 4 hours) of nominal capacity. The plant would also be fitted with clutch technology enabling synchronized condenser operation to provide voltage (Volt-Ampere Reactive or “VAR”) support to the local grid without consuming natural gas.

Project elements include:

- Five GE Energy LM6000 PG (*or equivalent*) CTGs equipped with selective catalytic reduction (SCR) air emissions control technology and associated support equipment for nitrogen oxides (NO<sub>x</sub>) and carbon monoxide (CO) control.
- Lithium-ion (*and/or flow*) batteries housed in enclosed systems that could be operated in conjunction with the power plant, or separately. Twenty separate enclosures would house the batteries, inverters, step-up transformers and site controller.
- Interconnection of the five CTGs and the battery array to the regional electrical grid would occur through Southern California Edison’s (SCE) Santa Clara Substation via a new, 6.6-mile 230-kV transmission line.
- Natural gas pipeline connection via a new 2.4 mile, 16-inch-diameter, pipeline that would run southwest from the MREC site along Shell Road and the Southern Pacific Railroad right-of-way to interconnect with Southern California Gas Company’s (SoCal Gas) existing high-pressure natural gas transmission pipeline (Line 404/406).
- Process water for the MREC would be supplied by local agribusiness conglomerate, Limoneira Company. Limoneira will provide recycled lemon wash and wastewater from their packing house discharges.
- Limoneira’s wastewater treatment facility uses a lagoon and a sludge treatment process to produce its recycled water which will then be delivered to the project site via a new 1.7-mile-long pipeline.
- Demineralizer equipment, mounted on portable skids and proposed for location in the northeastern quadrant of the proposed facility, would purify recycled Limoneira water for industrial plant process requirements, including steam production. Following purification, process water would be stored in an adjacent 54-foot tall, 892,000 gallon tank, sufficient for 32 hours of continuous power plant operation.
- Industrial wastewater from cooling tower blow-down and other power plant processes would be discharged to Green Compass Environmental Solutions via an existing pipeline located along Shell Road, adjacent to the MREC site.
- Temporary construction laydown/parking facilities would include a 2.89-acre worker parking and laydown area immediately north of the western edge of the proposed MREC site.

As a peaking power plant, MREC is expected to operate during periods of increased need on the grid, such as: times of high electrical load, during periods when intermittent

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renewable source generation fluctuates, when baseload plants are not operating or being brought on-line, or during emergency conditions. If licensed, the facility would be permitted to operate up to 28.5 percent of the time, with 150 start and stop cycles. The project would also have black start capability, allowing the facility to come online and support the grid to recover from a complete power outage.

Energy Commission staff would like to consult with you to better understand Native American concerns regarding this project. Please respond to this letter in writing within 30 days if the TRIBE would like to request consultation.

Additionally, over the coming months the Energy Commission will hold public workshops and hearings on the application to better understand any impacts the project may have on the environment. These workshops and hearings will provide the public; local state and federal agencies; and tribal governments, the opportunity to ask questions about, and provide input on, the proposed project. The Energy Commission will issue notices for these workshops and hearings at least 10 days prior to the meeting.

If you would like to be notified by e-mail whenever a public meeting is scheduled or a document is posted to the project website, you may sign up for the project listserv on the Energy Commission's main web page listed below. Public notices can also be sent to you by mail at your request. Should you request, Energy Commission staff will arrange for a separate consultation meeting to discuss issues that you may wish to hold in confidence from the general public.

To review the MREC AFC (15-AFC-02), and find more information about the project and proceedings, please visit the project website:

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Gino Altamirano

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The Energy Commission staff welcomes your comments or questions. If you have comments or questions, please contact Matthew Braun at (916) 654-4543; Fax: (916) 651-8868; or [matthew.braun@energy.ca.gov](mailto:matthew.braun@energy.ca.gov).

Sincerely,

ROGER E. JOHNSON  
Deputy Director  
Siting, Transmission  
and Environmental Protection Division

Energy Commission Tribal Liaison

Enclosures: Regional Location Map  
Site Map

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May 24, 2016

Richard Angulo  
P.O. Box 935  
Salome, AZ 85348

RE: Mission Rock Energy Center (15-AFC-02) - Invitation to Participate in California Energy Commission Consultation

Dear Mr. Angulo,

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As a peaking power plant, MREC is expected to operate during periods of increased need on the grid, such as: times of high electrical load, during periods when intermittent renewable source generation fluctuates, when baseload plants are not operating or

being brought on-line, or during emergency conditions. If licensed, the facility would be permitted to operate up to 28.5 percent of the time, with 150 start and stop cycles. The project would also have black start capability, allowing the facility to come online and support the grid to recover from a complete power outage.

Energy Commission staff would like to consult with you to better understand Native American concerns regarding this project.

Additionally, over the coming months the Energy Commission will hold public workshops and hearings on the application to better understand any impacts the project may have on the environment. These workshops and hearings will provide the public; local state and federal agencies; and tribal governments, the opportunity to ask questions about, and provide input on, the proposed project. The Energy Commission will issue notices for these workshops and hearings at least 10 days prior to the meeting.

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Richard Angulo  
May 24, 2016  
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Sincerely,

ROGER E. JOHNSON  
Deputy Director  
Siting, Transmission  
and Environmental Protection Division

Energy Commission Tribal Liaison

Enclosures: Regional Location Map  
Site Map

**CALIFORNIA ENERGY COMMISSION**

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May 24, 2016

Frank Arredondo  
P.O. Box 161 Santa Barbara, CA 93102

RE: Mission Rock Energy Center (15-AFC-02) - Invitation to Participate in California Energy Commission Consultation

Dear Mr. Arrendondo,

The California Energy Commission (Energy Commission) is responsible for preparing an environmental analysis for the proposed Mission Rock Energy Center (MREC) and invites you to consult regarding this project because of your traditional and cultural affiliation, and knowledge within the geographic area of the proposed project.

This letter provides general information concerning the current project design, includes attached exhibits depicting the vicinity and project site location, and invites you to participate in Energy Commission consultation.

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### **MREC PROJECT DESCRIPTION**

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enabling synchronized condenser operation to provide voltage (Volt-Ampere Reactive or "VAR") support to the local grid without consuming natural gas.

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Frank Arredondo

May 24, 2016

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Frank Arredondo

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Sincerely,

ROGER E. JOHNSON  
Deputy Director  
Siting, Transmission  
and Environmental Protection Division

Energy Commission Tribal Liaison

Enclosures: Regional Location Map  
Site Map

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May 24, 2016

Isabel Ayala  
Coastal Band of the Chumash Nation

RE: Mission Rock Energy Center (15-AFC-02) - Invitation to Participate in California Energy Commission Consultation

Dear Ms. Ayala,

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The Energy Commission has jurisdiction over the proposed project and determined the MREC application for certification (AFC) data adequate on May 17, 2016. A search of the Sacred Lands File by the Native American Heritage Commission did not result in the identification of any resources. The literature search and pedestrian survey conducted by the project applicant in the proposed project area and associated linears identified a sandstone mortar fragment, an historic transmission line, the Santa Clara substation, an historic trash scatter, the former Beckwith Ranch, the Limoneira Ranch Aliso Village, and the Santa Clara Valley Rural Historic District.

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May 24, 2016

Raudel Joe Banuelos, Jr.  
Barbareno/Ventureno Band of Chumash Indians  
331 Mira Flores Court  
Camarillo, CA 93012

RE: Mission Rock Energy Center (15-AFC-02) - Invitation to Participate in California Energy Commission Consultation

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Raudel Joe Banuelos, Jr

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As a peaking power plant, MREC is expected to operate during periods of increased need on the grid, such as: times of high electrical load, during periods when intermittent renewable source generation fluctuates, when baseload plants are not operating or being brought on-line, or during emergency conditions. If licensed, the facility would be permitted to operate up to 28.5 percent of the time, with 150 start and stop cycles. The project would also have black start capability, allowing the facility to come online and support the grid to recover from a complete power outage.

Energy Commission staff would like to consult with you to better understand Native American concerns regarding this project. Please respond to this letter in writing within 30 days if the Barbareno/Ventureno Band of Chumash Indians would like to request consultation.

Additionally, over the coming months the Energy Commission will hold public workshops and hearings on the application to better understand any impacts the project may have on the environment. These workshops and hearings will provide the public; local state and federal agencies; and tribal governments, the opportunity to ask questions about, and provide input on, the proposed project. The Energy Commission will issue notices for these workshops and hearings at least 10 days prior to the meeting.

If you would like to be notified by e-mail whenever a public meeting is scheduled or a document is posted to the project website, you may sign up for the project listserv on the Energy Commission's main web page listed below. Public notices can also be sent to you by mail at your request. Should you request, Energy Commission staff will arrange for a separate consultation meeting to discuss issues that you may wish to hold in confidence from the general public.

To review the MREC AFC (15-AFC-02), and find more information about the project and proceedings, please visit the project website:

<http://www.energy.ca.gov/sitingcases/missionrock/index.html>

Raudel Joe Banuelos, Jr

May 24, 2016

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The Energy Commission staff welcomes your comments or questions. If you have comments or questions, please contact Matthew Braun at (916) 654-4543; Fax: (916) 651-8868; or [matthew.braun@energy.ca.gov](mailto:matthew.braun@energy.ca.gov).

Sincerely,

ROGER E. JOHNSON  
Deputy Director  
Siting, Transmission  
and Environmental Protection Division

Energy Commission Tribal Liaison

Enclosures: Regional Location Map  
Site Map

**CALIFORNIA ENERGY COMMISSION**

1516 NINTH STREET  
SACRAMENTO, CA 95814-5512  
www.energy.ca.gov



May 24, 2016

Sam Cohen  
Tribal Admin and Counsel  
Santa Ynez Band of Mission Indians  
P.O. Box 517, Santa Ynez, CA 93460

RE: Mission Rock Energy Center (15-AFC-02) - Invitation to Participate in California Energy Commission Consultation

Dear Mr. Cohen,

The California Energy Commission (Energy Commission) is responsible for preparing an environmental analysis for the proposed Mission Rock Energy Center (MREC) and invites the Santa Ynez Band of Mission Indians to consult regarding this project because of the Santa Ynez Band of Mission Indians' traditional and cultural affiliation, and knowledge within the geographic area of the proposed project.

This letter provides general information concerning the current project design, includes attached exhibits depicting the vicinity and project site location, and invites you to participate in Energy Commission consultation, in accordance with the obligations pursuant to Public Resources Code 21080.3.1 and 21080.3.2.

The Energy Commission has jurisdiction over the proposed project and determined the MREC application for certification (AFC) data adequate on May 17, 2016. A search of the Sacred Lands File by the Native American Heritage Commission did not result in the identification of any resources. The literature search and pedestrian survey conducted by the project applicant in the proposed project area and associated linears identified a sandstone mortar fragment, an historic transmission line, the Santa Clara substation, an historic trash scatter, the former Beckwith Ranch, the Limoneira Ranch Aliso Village, and the Santa Clara Valley Rural Historic District.

### **MREC PROJECT DESCRIPTION**

The applicant, Mission Rock Energy Center, LLC proposes to construct, own, and operate the MREC in unincorporated Ventura County, California, approximately 2 miles west of Santa Paula, near Highway 126. The facility would be a natural gas-fired, simple-cycle power plant comprising five combustion turbine generators (CTGs), with a nominal generating capacity of 255 megawatts (MW). Additionally, MREC would house twenty (20) on-site ion (and/or *flow*<sup>1</sup>) battery units for the storage of MREC-generated

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<sup>1</sup> a flow battery is just like an electrochemical cell, with the exception that the ionic solution (electrolyte) is not stored in the cell around the electrodes. Rather, the ionic solution is stored outside of the cell, and can

electricity, providing an additional 100 megawatt hours (MWh) (25 MW for up to 4 hours) of nominal capacity. The plant would also be fitted with clutch technology enabling synchronized condenser operation to provide voltage (Volt-Ampere Reactive or “VAR”) support to the local grid without consuming natural gas.

Project elements include:

- Five GE Energy LM6000 PG (*or equivalent*) CTGs equipped with selective catalytic reduction (SCR) air emissions control technology and associated support equipment for nitrogen oxides (NO<sub>x</sub>) and carbon monoxide (CO) control.
- Lithium-ion (*and/or flow*) batteries housed in enclosed systems that could be operated in conjunction with the power plant, or separately. Twenty separate enclosures would house the batteries, inverters, step-up transformers and site controller.
- Interconnection of the five CTGs and the battery array to the regional electrical grid would occur through Southern California Edison’s (SCE) Santa Clara Substation via a new, 6.6-mile 230-kV transmission line.
- Natural gas pipeline connection via a new 2.4 mile, 16-inch-diameter, pipeline that would run southwest from the MREC site along Shell Road and the Southern Pacific Railroad right-of-way to interconnect with Southern California Gas Company’s (SoCal Gas) existing high-pressure natural gas transmission pipeline (Line 404/406).
- Process water for the MREC would be supplied by local agribusiness conglomerate, Limoneira Company. Limoneira will provide recycled lemon wash and wastewater from their packing house discharges.
- Limoneira’s wastewater treatment facility uses a lagoon and a sludge treatment process to produce its recycled water which will then be delivered to the project site via a new 1.7-mile-long pipeline.
- Demineralizer equipment, mounted on portable skids and proposed for location in the northeastern quadrant of the proposed facility, would purify recycled Limoneira water for industrial plant process requirements, including steam production. Following purification, process water would be stored in an adjacent 54-foot tall, 892,000 gallon tank, sufficient for 32 hours of continuous power plant operation.
- Industrial wastewater from cooling tower blow-down and other power plant processes would be discharged to Green Compass Environmental Solutions via an existing pipeline located along Shell Road, adjacent to the MREC site.
- Temporary construction laydown/parking facilities would include a 2.89-acre worker parking and laydown area immediately north of the western edge of the proposed MREC site.

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be fed into the cell in order to generate electricity. The total amount of electricity that can be generated depends on the size of the storage tanks.

As a peaking power plant, MREC is expected to operate during periods of increased need on the grid, such as: times of high electrical load, during periods when intermittent renewable source generation fluctuates, when baseload plants are not operating or being brought on-line, or during emergency conditions. If licensed, the facility would be permitted to operate up to 28.5 percent of the time, with 150 start and stop cycles. The project would also have black start capability, allowing the facility to come online and support the grid to recover from a complete power outage.

Energy Commission staff would like to consult with you to better understand Native American concerns regarding this project. Please respond to this letter in writing within 30 days if the Santa Ynez Band of Mission Indians would like to request consultation.

Additionally, over the coming months the Energy Commission will hold public workshops and hearings on the application to better understand any impacts the project may have on the environment. These workshops and hearings will provide the public; local state and federal agencies; and tribal governments, the opportunity to ask questions about, and provide input on, the proposed project. The Energy Commission will issue notices for these workshops and hearings at least 10 days prior to the meeting.

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Sam Cohen  
May 24, 2016  
Page 4

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Sincerely,

ROGER E. JOHNSON  
Deputy Director  
Siting, Transmission  
and Environmental Protection Division

Energy Commission Tribal Liaison

Enclosures: Regional Location Map  
Site Map

**CALIFORNIA ENERGY COMMISSION**

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SACRAMENTO, CA 95814-5512  
www.energy.ca.gov



May 24, 2016

Dr. Kote & Lin A-Lul'Koy Lotah  
Owl Clan  
48825 Sapaque Road  
Bradley, CA 93426

RE: Mission Rock Energy Center (15-AFC-02) - Invitation to Participate in California Energy Commission Consultation

Dear Dr. Kote & Lin A-Lul'Koy Lotah,

The California Energy Commission (Energy Commission) is responsible for preparing an environmental analysis for the proposed Mission Rock Energy Center (MREC) and invites the Owl Clan to consult regarding this project because of the Owl Clan's traditional and cultural affiliation, and knowledge within the geographic area of the proposed project.

This letter provides general information concerning the current project design, includes attached exhibits depicting the vicinity and project site location, and invites you to participate in Energy Commission consultation, in accordance with the obligations pursuant to Public Resources Code 21080.3.1 and 21080.3.2.

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## **MREC PROJECT DESCRIPTION**

The applicant, Mission Rock Energy Center, LLC proposes to construct, own, and operate the MREC in unincorporated Ventura County, California, approximately 2 miles west of Santa Paula, near Highway 126. The facility would be a natural gas-fired, simple-cycle power plant comprising five combustion turbine generators (CTGs), with a nominal generating capacity of 255 megawatts (MW). Additionally, MREC would house twenty (20) on-site ion (and/or *flow*<sup>1</sup>) battery units for the storage of MREC-generated

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electricity, providing an additional 100 megawatt hours (MWh) (25 MW for up to 4 hours) of nominal capacity. The plant would also be fitted with clutch technology enabling synchronized condenser operation to provide voltage (Volt-Ampere Reactive or "VAR") support to the local grid without consuming natural gas.

Project elements include:

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Dr. Kote & Lin A-Lul'Koy Lotah

May 24, 2016

Page 3

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Energy Commission staff would like to consult with you to better understand Native American concerns regarding this project. Please respond to this letter in writing within 30 days if the Owl Clan would like to request consultation.

Additionally, over the coming months the Energy Commission will hold public workshops and hearings on the application to better understand any impacts the project may have on the environment. These workshops and hearings will provide the public; local state and federal agencies; and tribal governments, the opportunity to ask questions about, and provide input on, the proposed project. The Energy Commission will issue notices for these workshops and hearings at least 10 days prior to the meeting.

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Dr. Kote & Lin A-Lul'Koy Lotah

May 24, 2016

Page 4

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Sincerely,

ROGER E. JOHNSON  
Deputy Director  
Siting, Transmission  
and Environmental Protection Division

Energy Commission Tribal Liaison

Enclosures: Regional Location Map  
Site Map

**CALIFORNIA ENERGY COMMISSION**

1516 NINTH STREET  
SACRAMENTO, CA 95814-5512  
www.energy.ca.gov



May 24, 2016

Honorable Antonia Flores  
Santa Ynez Tribal Elders Council  
P.O. Box 365, Santa Ynez, CA 93460

RE: Mission Rock Energy Center (15-AFC-02) - Invitation to Participate in California Energy Commission Consultation

Dear Honorable Chairperson Antonia Flores,

The California Energy Commission (Energy Commission) is responsible for preparing an environmental analysis for the proposed Mission Rock Energy Center (MREC) and invites Santa Ynez Band of Mission Indians to consult regarding this project because of the Santa Ynez Band of Mission Indians' traditional and cultural affiliation, and knowledge within the geographic area of the proposed project.

This letter provides general information concerning the current project design, includes attached exhibits depicting the vicinity and project site location, and invites you to participate in Energy Commission consultation, in accordance with the obligations pursuant to Public Resources Code 21080.3.1 and 21080.3.2.

The Energy Commission has jurisdiction over the proposed project and determined the MREC application for certification (AFC) data adequate on May 17, 2016. A search of the Sacred Lands File by the Native American Heritage Commission did not result in the identification of any resources. The literature search and pedestrian survey conducted by the project applicant in the proposed project area and associated linears identified a sandstone mortar fragment, an historic transmission line, the Santa Clara substation, an historic trash scatter, the former Beckwith Ranch, the Limoneira Ranch Aliso Village, and the Santa Clara Valley Rural Historic District.

## **MREC PROJECT DESCRIPTION**

The applicant, Mission Rock Energy Center, LLC proposes to construct, own, and operate the MREC in unincorporated Ventura County, California, approximately 2 miles west of Santa Paula, near Highway 126. The facility would be a natural gas-fired, simple-cycle power plant comprising five combustion turbine generators (CTGs), with a nominal generating capacity of 255 megawatts (MW). Additionally, MREC would house twenty (20) on-site ion (and/or *flow*<sup>1</sup>) battery units for the storage of MREC-generated

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-

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Energy Commission staff would like to consult with you to better understand Native American concerns regarding this project. Please respond to this letter in writing within 30 days if the Santa Ynez Band of Mission Indians would like to request consultation.

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Antonia Flores  
May 24, 2016  
Page 4

The Energy Commission staff welcomes your comments or questions. If you have comments or questions, please contact Matthew Braun at (916) 654-4543; Fax: (916) 651-8868; or [matthew.braun@energy.ca.gov](mailto:matthew.braun@energy.ca.gov).

Sincerely,

ROGER E. JOHNSON  
Deputy Director  
Siting, Transmission  
and Environmental Protection Division

Energy Commission Tribal Liaison

Enclosures: Regional Location Map  
Site Map

**CALIFORNIA ENERGY COMMISSION**

1516 NINTH STREET  
SACRAMENTO, CA 95814-5512  
www.energy.ca.gov



June 3, 2016

Caitlin Gulley  
1019 Second Street  
San Fernando, CA 91340

RE: Mission Rock Energy Center (15-AFC-02) - Invitation to Participate in California Energy Commission Consultation

Dear Ms. Caitlin Gulley,

The California Energy Commission (Energy Commission) is responsible for preparing an environmental analysis for the proposed Mission Rock Energy Center (MREC) and invites the Fernandeano Tataviam Band of Mission Indians to consult regarding this project because of the tribe's traditional and cultural affiliation, and knowledge within the geographic area of the proposed project.

This letter provides general information concerning the current project design, includes attached exhibits depicting the vicinity and project site location, and invites you to participate in Energy Commission consultation, in accordance with the obligations pursuant to Public Resources Code 21080.3.1 and 21080.3.2.

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## **MREC PROJECT DESCRIPTION**

The applicant, Mission Rock Energy Center, LLC proposes to construct, own, and operate the MREC in unincorporated Ventura County, California, approximately 2 miles west of Santa Paula, near Highway 126. The facility would be a natural gas-fired, simple-cycle power plant comprising five combustion turbine generators (CTGs), with a nominal generating capacity of 255 megawatts (MW). Additionally, MREC would house twenty (20) on-site ion (and/or *flow*<sup>1</sup>) battery units for the storage of MREC-generated

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Caitlin Gulley  
June 3, 2016  
Page 4

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Sincerely,

ROGER E. JOHNSON  
Deputy Director  
Siting, Transmission  
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Energy Commission Tribal Liaison

Enclosures: Regional Location Map  
Site Map

**CALIFORNIA ENERGY COMMISSION**

1516 NINTH STREET  
SACRAMENTO, CA 95814-5512  
www.energy.ca.gov



May 24, 2016

Randy Guzman-Folkes  
4676 Walnut Avenue  
Simi Valley, CA 93063

RE: Mission Rock Energy Center (15-AFC-02) - Invitation to Participate in California Energy Commission Consultation

Dear Mr. Guzman-Folkes,

The California Energy Commission (Energy Commission) is responsible for preparing an environmental analysis for the proposed Mission Rock Energy Center (MREC) and invites you to consult regarding this project because of your traditional and cultural affiliation, and knowledge within the geographic area of the proposed project.

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- Lithium-ion (*and/or flow*) batteries housed in enclosed systems that could be operated in conjunction with the power plant, or separately. Twenty separate enclosures would house the batteries, inverters, step-up transformers and site controller.
- Interconnection of the five CTGs and the battery array to the regional electrical grid would occur through Southern California Edison's (SCE) Santa Clara Substation via a new, 6.6-mile 230-kV transmission line.
- Natural gas pipeline connection via a new 2.4 mile, 16-inch-diameter, pipeline that would run southwest from the MREC site along Shell Road and the Southern Pacific Railroad right-of-way to interconnect with Southern California Gas Company's (SoCal Gas) existing high-pressure natural gas transmission pipeline (Line 404/406).
- Process water for the MREC would be supplied by local agribusiness conglomerate, Limoneira Company. Limoneira will provide recycled lemon wash and wastewater from their packing house discharges.
- Limoneira's wastewater treatment facility uses a lagoon and a sludge treatment process to produce its recycled water which will then be delivered to the project site via a new 1.7-mile-long pipeline.
- Demineralizer equipment, mounted on portable skids and proposed for location in the northeastern quadrant of the proposed facility, would purify recycled Limoneira water for industrial plant process requirements, including steam production. Following purification, process water would be stored in an adjacent 54-foot tall, 892,000 gallon tank, sufficient for 32 hours of continuous power plant operation.
- Industrial wastewater from cooling tower blow-down and other power plant processes would be discharged to Green Compass Environmental Solutions via an existing pipeline located along Shell Road, adjacent to the MREC site.
- Temporary construction laydown/parking facilities would include a 2.89-acre worker parking and laydown area immediately north of the western edge of the proposed MREC site.

As a peaking power plant, MREC is expected to operate during periods of increased need on the grid, such as: times of high electrical load, during periods when intermittent renewable source generation fluctuates, when baseload plants are not operating or

Randy Guzman-Folkes

May 24, 2016

Page 3

being brought on-line, or during emergency conditions. If licensed, the facility would be permitted to operate up to 28.5 percent of the time, with 150 start and stop cycles. The project would also have black start capability, allowing the facility to come online and support the grid to recover from a complete power outage.

Energy Commission staff would like to consult with you to better understand Native American concerns regarding this project.

Additionally, over the coming months the Energy Commission will hold public workshops and hearings on the application to better understand any impacts the project may have on the environment. These workshops and hearings will provide the public; local state and federal agencies; and tribal governments, the opportunity to ask questions about, and provide input on, the proposed project. The Energy Commission will issue notices for these workshops and hearings at least 10 days prior to the meeting.

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To review the MREC AFC (15-AFC-02), and find more information about the project and proceedings, please visit the project website:

<http://www.energy.ca.gov/sitingcases/missionrock/index.html>



Randy Guzman-Folkes

May 24, 2016

Page 4

The Energy Commission staff welcomes your comments or questions. If you have comments or questions, please contact Matthew Braun at (916) 654-4543; Fax: (916) 651-8868; or [matthew.braun@energy.ca.gov](mailto:matthew.braun@energy.ca.gov).

Sincerely,

ROGER E. JOHNSON  
Deputy Director  
Siting, Transmission  
and Environmental Protection Division

Energy Commission Tribal Liaison

Enclosures: Regional Location Map  
Site Map

**CALIFORNIA ENERGY COMMISSION**

1516 NINTH STREET  
SACRAMENTO, CA 95814-5512  
www.energy.ca.gov



May 24, 2016

Honorable Kenneth Kahn  
Santa Ynez Band of Mission Indians  
P.O. Box 517, Santa Ynez, CA 93460

RE: Mission Rock Energy Center (15-AFC-02) - Invitation to Participate in California Energy Commission Consultation

Dear Honorable Chairperson Kenneth Kahn,

The California Energy Commission (Energy Commission) is responsible for preparing an environmental analysis for the proposed Mission Rock Energy Center (MREC) and invites the Santa Ynez Band of Mission Indians to consult regarding this project because of the Santa Ynez Band of Mission Indians' traditional and cultural affiliation, and knowledge within the geographic area of the proposed project.

This letter provides general information concerning the current project design, includes attached exhibits depicting the vicinity and project site location, and invites you to participate in Energy Commission consultation, in accordance with the obligations pursuant to Public Resources Code 21080.3.1 and 21080.3.2.

The Energy Commission has jurisdiction over the proposed project and determined the MREC application for certification (AFC) data adequate on May 17, 2016. A search of the Sacred Lands File by the Native American Heritage Commission did not result in the identification of any resources. The literature search and pedestrian survey conducted by the project applicant in the proposed project area and associated linears identified a sandstone mortar fragment, an historic transmission line, the Santa Clara substation, an historic trash scatter, the former Beckwith Ranch, the Limoneira Ranch Aliso Village, and the Santa Clara Valley Rural Historic District.

## **MREC PROJECT DESCRIPTION**

The applicant, Mission Rock Energy Center, LLC proposes to construct, own, and operate the MREC in unincorporated Ventura County, California, approximately 2 miles west of Santa Paula, near Highway 126. The facility would be a natural gas-fired, simple-cycle power plant comprising five combustion turbine generators (CTGs), with a nominal generating capacity of 255 megawatts (MW). Additionally, MREC would house twenty (20) on-site ion (and/or *flow*<sup>1</sup>) battery units for the storage of MREC-generated

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<sup>1</sup> a flow battery is just like an electrochemical cell, with the exception that the ionic solution (electrolyte) is not stored in the cell around the electrodes. Rather, the ionic solution is stored outside of the cell, and can be fed into the cell in order to generate electricity. The total amount of electricity that can be generated depends on the size of the storage tanks.

electricity, providing an additional 100 megawatt hours (MWh) (25 MW for up to 4 hours) of nominal capacity. The plant would also be fitted with clutch technology enabling synchronized condenser operation to provide voltage (Volt-Ampere Reactive or "VAR") support to the local grid without consuming natural gas.

Project elements include:

- Five GE Energy LM6000 PG (*or equivalent*) CTGs equipped with selective catalytic reduction (SCR) air emissions control technology and associated support equipment for nitrogen oxides (NO<sub>x</sub>) and carbon monoxide (CO) control.
  - Lithium-ion (*and/or flow*) batteries housed in enclosed systems that could be operated in conjunction with the power plant, or separately. Twenty separate enclosures would house the batteries, inverters, step-up transformers and site controller.
  - Interconnection of the five CTGs and the battery array to the regional electrical grid would occur through Southern California Edison's (SCE) Santa Clara Substation via a new, 6.6-mile 230-kV transmission line.
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-

Honorable Kenneth Kahn

May 24, 2016

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As a peaking power plant, MREC is expected to operate during periods of increased need on the grid, such as: times of high electrical load, during periods when intermittent renewable source generation fluctuates, when baseload plants are not operating or being brought on-line, or during emergency conditions. If licensed, the facility would be permitted to operate up to 28.5 percent of the time, with 150 start and stop cycles. The project would also have black start capability, allowing the facility to come online and support the grid to recover from a complete power outage.

Energy Commission staff would like to consult with you to better understand Native American concerns regarding this project. Please respond to this letter in writing within 30 days if the Santa Ynez Band of Mission Indians would like to request consultation.

Additionally, over the coming months the Energy Commission will hold public workshops and hearings on the application to better understand any impacts the project may have on the environment. These workshops and hearings will provide the public; local state and federal agencies; and tribal governments, the opportunity to ask questions about, and provide input on, the proposed project. The Energy Commission will issue notices for these workshops and hearings at least 10 days prior to the meeting.

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Honorable Kenneth Kahn

May 24, 2016

Page 4

The Energy Commission staff welcomes your comments or questions. If you have comments or questions, please contact Matthew Braun at (916) 654-4543; Fax: (916) 651-8868; or [matthew.braun@energy.ca.gov](mailto:matthew.braun@energy.ca.gov).

Sincerely,

ROGER E. JOHNSON  
Deputy Director  
Siting, Transmission  
and Environmental Protection Division

Energy Commission Tribal Liaison

Enclosures: Regional Location Map  
Site Map

**CALIFORNIA ENERGY COMMISSION**

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www.energy.ca.gov



May 24, 2016

Honorable Mia Lopez  
Coastal Band of the Chumash Nation

RE: Mission Rock Energy Center (15-AFC-02) - Invitation to Participate in California Energy Commission Consultation

Dear Honorable Chairperson Mia Lopez,

The California Energy Commission (Energy Commission) is responsible for preparing an environmental analysis for the proposed Mission Rock Energy Center (MREC) and invites the Coastal Band of the Chumash Nation to consult regarding this project because of the Coastal Band of the Chumash Nation's traditional and cultural affiliation, and knowledge within the geographic area of the proposed project.

This letter provides general information concerning the current project design, includes attached exhibits depicting the vicinity and project site location, and invites you to participate in Energy Commission consultation, in accordance with the obligations pursuant to Public Resources Code 21080.3.1 and 21080.3.2.

The Energy Commission has jurisdiction over the proposed project and determined the MREC application for certification (AFC) data adequate on May 17, 2016. A search of the Sacred Lands File by the Native American Heritage Commission did not result in the identification of any resources. The literature search and pedestrian survey conducted by the project applicant in the proposed project area and associated linears identified a sandstone mortar fragment, an historic transmission line, the Santa Clara substation, an historic trash scatter, the former Beckwith Ranch, the Limoneira Ranch Aliso Village, and the Santa Clara Valley Rural Historic District.

## **MREC PROJECT DESCRIPTION**

The applicant, Mission Rock Energy Center, LLC proposes to construct, own, and operate the MREC in unincorporated Ventura County, California, approximately 2 miles west of Santa Paula, near Highway 126. The facility would be a natural gas-fired, simple-cycle power plant comprising five combustion turbine generators (CTGs), with a nominal generating capacity of 255 megawatts (MW). Additionally, MREC would house twenty (20) on-site ion (and/or *flow*<sup>1</sup>) battery units for the storage of MREC-generated

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<sup>1</sup> a flow battery is just like an electrochemical cell, with the exception that the ionic solution (electrolyte) is not stored in the cell around the electrodes. Rather, the ionic solution is stored outside of the cell, and can be fed into the cell in order to generate electricity. The total amount of electricity that can be generated depends on the size of the storage tanks.

Honorable Mia Lopez

May 24, 2016

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- Temporary construction laydown/parking facilities would include a 2.89-acre worker parking and laydown area immediately north of the western edge of the proposed MREC site.

As a peaking power plant, MREC is expected to operate during periods of increased need on the grid, such as: times of high electrical load, during periods when intermittent

Honorable Mia Lopez

May 24, 2016

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renewable source generation fluctuates, when baseload plants are not operating or being brought on-line, or during emergency conditions. If licensed, the facility would be permitted to operate up to 28.5 percent of the time, with 150 start and stop cycles. The project would also have black start capability, allowing the facility to come online and support the grid to recover from a complete power outage.

Energy Commission staff would like to consult with you to better understand Native American concerns regarding this project. Please respond to this letter in writing within 30 days if the Coastal Band of the Chumash Nation would like to request consultation.

Additionally, over the coming months the Energy Commission will hold public workshops and hearings on the application to better understand any impacts the project may have on the environment. These workshops and hearings will provide the public; local state and federal agencies; and tribal governments, the opportunity to ask questions about, and provide input on, the proposed project. The Energy Commission will issue notices for these workshops and hearings at least 10 days prior to the meeting.

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Honorable Mia Lopez

May 24, 2016

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The Energy Commission staff welcomes your comments or questions. If you have comments or questions, please contact Matthew Braun at (916) 654-4543; Fax: (916) 651-8868; or [matthew.braun@energy.ca.gov](mailto:matthew.braun@energy.ca.gov).

Sincerely,

ROGER E. JOHNSON  
Deputy Director  
Siting, Transmission  
and Environmental Protection Division

Energy Commission Tribal Liaison

Enclosures: Regional Location Map  
Site Map

**CALIFORNIA ENERGY COMMISSION**

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SACRAMENTO, CA 95814-5512  
www.energy.ca.gov



May 24, 2016

Stephen William Miller  
189 Cartagena St  
Camarillo, CA 93010

RE: Mission Rock Energy Center (15-AFC-02) - Invitation to Participate in California Energy Commission Consultation

Dear Mr. Miller,

The California Energy Commission (Energy Commission) is responsible for preparing an environmental analysis for the proposed Mission Rock Energy Center (MREC) and invites you to consult regarding this project because of your traditional and cultural affiliation, and knowledge within the geographic area of the proposed project.

This letter provides general information concerning the current project design, includes attached exhibits depicting the vicinity and project site location, and invites you to participate in Energy Commission consultation.

The Energy Commission has jurisdiction over the proposed project and determined the MREC application for certification (AFC) data adequate on May 17, 2016. A search of the Sacred Lands File by the Native American Heritage Commission did not result in the identification of any resources. The literature search and pedestrian survey conducted by the project applicant in the proposed project area and associated linears identified a sandstone mortar fragment, an historic transmission line, the Santa Clara substation, an historic trash scatter, the former Beckwith Ranch, the Limoneira Ranch Aliso Village, and the Santa Clara Valley Rural Historic District.

## **MREC PROJECT DESCRIPTION**

The applicant, Mission Rock Energy Center, LLC proposes to construct, own, and operate the MREC in unincorporated Ventura County, California, approximately 2 miles west of Santa Paula, near Highway 126. The facility would be a natural gas-fired, simple-cycle power plant comprising five combustion turbine generators (CTGs), with a nominal generating capacity of 255 megawatts (MW). Additionally, MREC would house twenty (20) on-site ion (and/or *flow*<sup>2</sup>) battery units for the storage of MREC-generated electricity, providing an additional 100 megawatt hours (MWh) (25 MW for up to 4

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<sup>1</sup> a flow battery is just like an electrochemical cell, with the exception that the ionic solution (electrolyte) is not stored in the cell around the electrodes. Rather, the ionic solution is stored outside of the cell, and can be fed into the cell in order to generate electricity. The total amount of electricity that can be generated depends on the size of the storage tanks.

Stephen William Miller

May 24, 2016

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Project elements include:

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Stephen William Miller

May 24, 2016

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Stephen William Miller

May 24, 2016

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Sincerely,

ROGER E. JOHNSON  
Deputy Director  
Siting, Transmission  
and Environmental Protection Division

Energy Commission Tribal Liaison

Enclosures: Regional Location Map  
Site Map

**CALIFORNIA ENERGY COMMISSION**

1516 NINTH STREET  
SACRAMENTO, CA 95814-5512  
www.energy.ca.gov



June 3, 2016

Hon. Rudy Ortega, Jr.  
1019 Second Street  
San Fernando, CA 91340

RE: Mission Rock Energy Center (15-AFC-02) - Invitation to Participate in California Energy Commission Consultation

Dear Hon. Chairperson Rudy Ortega, Jr.,

The California Energy Commission (Energy Commission) is responsible for preparing an environmental analysis for the proposed Mission Rock Energy Center (MREC) and invites the Fernandeano Tataviam Band of Mission Indians to consult regarding this project because of the tribe's traditional and cultural affiliation, and knowledge within the geographic area of the proposed project.

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Hon. Rudy Ortega, Jr.

June 3, 2016

Page 3

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Hon. Rudy Ortega, Jr.

June 3, 2016

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The Energy Commission staff welcomes your comments or questions. If you have comments or questions, please contact Matthew Braun at (916) 654-4543; Fax: (916) 651-8868; or [matthew.braun@energy.ca.gov](mailto:matthew.braun@energy.ca.gov).

Sincerely,

ROGER E. JOHNSON  
Deputy Director  
Siting, Transmission  
and Environmental Protection Division

Energy Commission Tribal Liaison

Enclosures: Regional Location Map  
Site Map

**CALIFORNIA ENERGY COMMISSION**

1516 NINTH STREET  
SACRAMENTO, CA 95814-5512  
www.energy.ca.gov



May 24, 2016

Kathleen Pappo  
Barbareno/Ventureno Band of Chumash Indians  
2762 Vista Mesa Drive  
Rancho Palos Verdes, CA 90275

RE: Mission Rock Energy Center (15-AFC-02) - Invitation to Participate in California Energy Commission Consultation

Dear Ms. Pappo,

The California Energy Commission (Energy Commission) is responsible for preparing an environmental analysis for the proposed Mission Rock Energy Center (MREC) and invites the Barbareno/Ventureno Band of Chumash Indians to consult regarding this project because of Barbareno/Ventureno Band of Chumash Indians' traditional and cultural affiliation, and knowledge within the geographic area of the proposed project.

This letter provides general information concerning the current project design, includes attached exhibits depicting the vicinity and project site location, and invites you to participate in Energy Commission consultation./, in accordance with the obligations pursuant to Public Resources Code 21080.3.1 and 21080.3.2. You may recall this project when you were contacted by the applicant's consultant, Gloriella Cardenas of CH2M Hill, in October of 2015.

The Energy Commission has jurisdiction over the proposed project and determined the MREC application for certification (AFC) data adequate on May 17, 2016. A search of the Sacred Lands File by the Native American Heritage Commission did not result in the identification of any resources. The literature search and pedestrian survey conducted by the project applicant in the proposed project area and associated linears identified a sandstone mortar fragment, an historic transmission line, the Santa Clara substation, an historic trash scatter, the former Beckwith Ranch, the Limoneira Ranch Aliso Village, and the Santa Clara Valley Rural Historic District.

### **MREC PROJECT DESCRIPTION**

The applicant, Mission Rock Energy Center, LLC proposes to construct, own, and operate the MREC in unincorporated Ventura County, California, approximately 2 miles west of Santa Paula, near Highway 126. The facility would be a natural gas-fired, simple-cycle power plant comprising five combustion turbine generators (CTGs), with a nominal generating capacity of 255 megawatts (MW). Additionally, MREC would house

twenty (20) on-site ion (and/or *flow*<sup>1</sup>) battery units for the storage of MREC-generated electricity, providing an additional 100 megawatt hours (MWh) (25 MW for up to 4 hours) of nominal capacity. The plant would also be fitted with clutch technology enabling synchronized condenser operation to provide voltage (Volt-Ampere Reactive or “VAR”) support to the local grid without consuming natural gas.

Project elements include:

- Five GE Energy LM6000 PG (*or equivalent*) CTGs equipped with selective catalytic reduction (SCR) air emissions control technology and associated support equipment for nitrogen oxides (NO<sub>x</sub>) and carbon monoxide (CO) control.
- Lithium-ion (*and/or flow*) batteries housed in enclosed systems that could be operated in conjunction with the power plant, or separately. Twenty separate enclosures would house the batteries, inverters, step-up transformers and site controller.
- Interconnection of the five CTGs and the battery array to the regional electrical grid would occur through Southern California Edison’s (SCE) Santa Clara Substation via a new, 6.6-mile 230-kV transmission line.
- Natural gas pipeline connection via a new 2.4 mile, 16-inch-diameter, pipeline that would run southwest from the MREC site along Shell Road and the Southern Pacific Railroad right-of-way to interconnect with Southern California Gas Company’s (SoCal Gas) existing high-pressure natural gas transmission pipeline (Line 404/406).
- Process water for the MREC would be supplied by local agribusiness conglomerate, Limoneira Company. Limoneira will provide recycled lemon wash and wastewater from their packing house discharges.
- Limoneira’s wastewater treatment facility uses a lagoon and a sludge treatment process to produce its recycled water which will then be delivered to the project site via a new 1.7-mile-long pipeline.
- Demineralizer equipment, mounted on portable skids and proposed for location in the northeastern quadrant of the proposed facility, would purify recycled Limoneira water for industrial plant process requirements, including steam production. Following purification, process water would be stored in an adjacent 54-foot tall, 892,000 gallon tank, sufficient for 32 hours of continuous power plant operation.
- Industrial wastewater from cooling tower blow-down and other power plant processes would be discharged to Green Compass Environmental Solutions via an existing pipeline located along Shell Road, adjacent to the MREC site.

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Kathleen Pappo

May 24, 2016

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- Temporary construction laydown/parking facilities would include a 2.89-acre worker parking and laydown area immediately north of the western edge of the proposed MREC site.

As a peaking power plant, MREC is expected to operate during periods of increased need on the grid, such as: times of high electrical load, during periods when intermittent renewable source generation fluctuates, when baseload plants are not operating or being brought on-line, or during emergency conditions. If licensed, the facility would be permitted to operate up to 28.5 percent of the time, with 150 start and stop cycles. The project would also have black start capability, allowing the facility to come online and support the grid to recover from a complete power outage.

Energy Commission staff would like to consult with you to better understand Native American concerns regarding this project. Please respond to this letter in writing within 30 days if the Barbareno/Ventureno Band of Chumash Indians would like to request consultation.

Additionally, over the coming months the Energy Commission will hold public workshops and hearings on the application to better understand any impacts the project may have on the environment. These workshops and hearings will provide the public; local state and federal agencies; and tribal governments, the opportunity to ask questions about, and provide input on, the proposed project. The Energy Commission will issue notices for these workshops and hearings at least 10 days prior to the meeting.

If you would like to be notified by e-mail whenever a public meeting is scheduled or a document is posted to the project website, you may sign up for the project listserv on the Energy Commission's main web page listed below. Public notices can also be sent to you by mail at your request. Should you request, Energy Commission staff will arrange for a separate consultation meeting to discuss issues that you may wish to hold in confidence from the general public.

To review the MREC AFC (15-AFC-02), and find more information about the project and proceedings, please visit the project website:

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Kathleen Pappo  
May 24, 2016  
Page 4

The Energy Commission staff welcomes your comments or questions. If you have comments or questions, please contact Matthew Braun at (916) 654-4543; Fax: (916) 651-8868; or [matthew.braun@energy.ca.gov](mailto:matthew.braun@energy.ca.gov).

Sincerely,

ROGER E. JOHNSON  
Deputy Director  
Siting, Transmission  
and Environmental Protection Division

Energy Commission Tribal Liaison

Enclosures: Regional Location Map  
Site Map

**CALIFORNIA ENERGY COMMISSION**

1516 NINTH STREET  
SACRAMENTO, CA 95814-5512  
www.energy.ca.gov



May 24, 2016

Charles S. Parra  
P.O. Box 6612  
Oxnard, CA

RE: Mission Rock Energy Center (15-AFC-02) - Invitation to Participate in California Energy Commission Consultation

Dear Mr. Parra,

The California Energy Commission (Energy Commission) is responsible for preparing an environmental analysis for the proposed Mission Rock Energy Center (MREC) and invites you to consult regarding this project because of your traditional and cultural affiliation, and knowledge within the geographic area of the proposed project.

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- Temporary construction laydown/parking facilities would include a 2.89-acre worker parking and laydown area immediately north of the western edge of the proposed MREC site.

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being brought on-line, or during emergency conditions. If licensed, the facility would be permitted to operate up to 28.5 percent of the time, with 150 start and stop cycles. The project would also have black start capability, allowing the facility to come online and support the grid to recover from a complete power outage.

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Additionally, over the coming months the Energy Commission will hold public workshops and hearings on the application to better understand any impacts the project may have on the environment. These workshops and hearings will provide the public; local state and federal agencies; and tribal governments, the opportunity to ask questions about, and provide input on, the proposed project. The Energy Commission will issue notices for these workshops and hearings at least 10 days prior to the meeting.

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Charles S. Parra

May 24, 2016

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Sincerely,

ROGER E. JOHNSON  
Deputy Director  
Siting, Transmission  
and Environmental Protection Division

Energy Commission Tribal Liaison

Enclosures: Regional Location Map  
Site Map

**CALIFORNIA ENERGY COMMISSION**

1516 NINTH STREET  
SACRAMENTO, CA 95814-5512  
www.energy.ca.gov



May 24, 2016

Melissa M. Parra-Hernandez  
119 North Balsam St  
Oxnard, CA 93030

RE: Mission Rock Energy Center (15-AFC-02) - Invitation to Participate in California Energy Commission Consultation

Dear Ms. Parra-Hernandez,

The California Energy Commission (Energy Commission) is responsible for preparing an environmental analysis for the proposed Mission Rock Energy Center (MREC) and invites you to consult regarding this project because of your traditional and cultural affiliation, and knowledge within the geographic area of the proposed project.

This letter provides general information concerning the current project design, includes attached exhibits depicting the vicinity and project site location, and invites you to participate in Energy Commission consultation.

The Energy Commission has jurisdiction over the proposed project and determined the MREC application for certification (AFC) data adequate on May 17, 2016. A search of the Sacred Lands File by the Native American Heritage Commission did not result in the identification of any resources. The literature search and pedestrian survey conducted by the project applicant in the proposed project area and associated linears identified a sandstone mortar fragment, an historic transmission line, the Santa Clara substation, an historic trash scatter, the former Beckwith Ranch, the Limoneira Ranch Aliso Village, and the Santa Clara Valley Rural Historic District.

## **MREC PROJECT DESCRIPTION**

The applicant, Mission Rock Energy Center, LLC proposes to construct, own, and operate the MREC in unincorporated Ventura County, California, approximately 2 miles west of Santa Paula, near Highway 126. The facility would be a natural gas-fired, simple-cycle power plant comprising five combustion turbine generators (CTGs), with a nominal generating capacity of 255 megawatts (MW). Additionally, MREC would house twenty (20) on-site ion (and/or *flow*<sup>1</sup>) battery units for the storage of MREC-generated

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- Temporary construction laydown/parking facilities would include a 2.89-acre worker parking and laydown area immediately north of the western edge of the proposed MREC site.

As a peaking power plant, MREC is expected to operate during periods of increased need on the grid, such as: times of high electrical load, during periods when intermittent

Melissa M. Parra-Hernandez

May 24, 2016

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Melissa M. Parra-Hernandez

May 24, 2016

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Sincerely,

ROGER E. JOHNSON  
Deputy Director  
Siting, Transmission  
and Environmental Protection Division

Energy Commission Tribal Liaison

Enclosures: Regional Location Map  
Site Map

**CALIFORNIA ENERGY COMMISSION**

1516 NINTH STREET  
SACRAMENTO, CA 95814-5512  
www.energy.ca.gov



May 24, 2016

PeuYoKo Perez  
5501 Stanford St.  
Ventura, CA 93003

RE: Mission Rock Energy Center (15-AFC-02) - Invitation to Participate in California Energy Commission Consultation

Dear Mr. Perez,

The California Energy Commission (Energy Commission) is responsible for preparing an environmental analysis for the proposed Mission Rock Energy Center (MREC) and invites you to consult regarding this project because of your traditional and cultural affiliation, and knowledge within the geographic area of the proposed project.

This letter provides general information concerning the current project design, includes attached exhibits depicting the vicinity and project site location, and invites you to participate in Energy Commission consultation. You may recall this project when you were contacted by the applicant's consultant, Gloriella Cardenas of CH2M Hill, in October of 2015, and stated that you would like to be involved with the surveys and have Native Americans involved in cultural studies.

The Energy Commission has jurisdiction over the proposed project and determined the MREC application for certification (AFC) data adequate on May 17, 2016. A search of the Sacred Lands File by the Native American Heritage Commission did not result in the identification of any resources. The literature search and pedestrian survey conducted by the project applicant in the proposed project area and associated linears identified a sandstone mortar fragment, an historic transmission line, the Santa Clara substation, an historic trash scatter, the former Beckwith Ranch, the Limoneira Ranch Aliso Village, and the Santa Clara Valley Rural Historic District.

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PeuYoKo Perez

May 24, 2016

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PeuYoKo Perez

May 24, 2016

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Site Map

**CALIFORNIA ENERGY COMMISSION**

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SACRAMENTO, CA 95814-5512  
www.energy.ca.gov



May 24, 2016

Carol A. Pulido  
165 Mountainview St  
Oak View, CA 93022

RE: Mission Rock Energy Center (15-AFC-02) - Invitation to Participate in California Energy Commission Consultation

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Carol A. Pulido  
May 24, 2016  
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The Energy Commission staff welcomes your comments or questions. If you have comments or questions, please contact Matthew Braun at (916) 654-4543; Fax: (916) 651-8868; or [matthew.braun@energy.ca.gov](mailto:matthew.braun@energy.ca.gov).

Sincerely,

ROGER E. JOHNSON  
Deputy Director  
Siting, Transmission  
and Environmental Protection Division

Energy Commission Tribal Liaison

Enclosures: Regional Location Map  
Site Map

**CALIFORNIA ENERGY COMMISSION**

1516 NINTH STREET  
SACRAMENTO, CA 95814-5512  
www.energy.ca.gov



May 24, 2016

Qun-tan Shup  
Owl Clan  
48825 Sapaque Road, Bradley, CA 93426

RE: Mission Rock Energy Center (15-AFC-02) - Invitation to Participate in California Energy Commission Consultation

Dear Qun-tan Shup,

The California Energy Commission (Energy Commission) is responsible for preparing an environmental analysis for the proposed Mission Rock Energy Center (MREC) and invites the Owl Clan to consult regarding this project because of the Owl Clan's traditional and cultural affiliation, and knowledge within the geographic area of the proposed project.

This letter provides general information concerning the current project design, includes attached exhibits depicting the vicinity and project site location, and invites you to participate in Energy Commission consultation, in accordance with the obligations pursuant to Public Resources Code 21080.3.1 and 21080.3.2.

The Energy Commission has jurisdiction over the proposed project and determined the MREC application for certification (AFC) data adequate on May 17, 2016. A search of the Sacred Lands File by the Native American Heritage Commission did not result in the identification of any resources. The literature search and pedestrian survey conducted by the project applicant in the proposed project area and associated linears identified a sandstone mortar fragment, an historic transmission line, the Santa Clara substation, an historic trash scatter, the former Beckwith Ranch, the Limoneira Ranch Aliso Village, and the Santa Clara Valley Rural Historic District.

## **MREC PROJECT DESCRIPTION**

The applicant, Mission Rock Energy Center, LLC proposes to construct, own, and operate the MREC in unincorporated Ventura County, California, approximately 2 miles west of Santa Paula, near Highway 126. The facility would be a natural gas-fired, simple-cycle power plant comprising five combustion turbine generators (CTGs), with a nominal generating capacity of 255 megawatts (MW). Additionally, MREC would house twenty (20) on-site ion (and/or *flow*<sup>1</sup>) battery units for the storage of MREC-generated

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<sup>1</sup> a flow battery is just like an electrochemical cell, with the exception that the ionic solution (electrolyte) is not stored in the cell around the electrodes. Rather, the ionic solution is stored outside of the cell, and can be fed into the cell in order to generate electricity. The total amount of electricity that can be generated depends on the size of the storage tanks.

electricity, providing an additional 100 megawatt hours (MWh) (25 MW for up to 4 hours) of nominal capacity. The plant would also be fitted with clutch technology enabling synchronized condenser operation to provide voltage (Volt-Ampere Reactive or “VAR”) support to the local grid without consuming natural gas.

Project elements include:

- Five GE Energy LM6000 PG (*or equivalent*) CTGs equipped with selective catalytic reduction (SCR) air emissions control technology and associated support equipment for nitrogen oxides (NO<sub>x</sub>) and carbon monoxide (CO) control.
  - Lithium-ion (*and/or flow*) batteries housed in enclosed systems that could be operated in conjunction with the power plant, or separately. Twenty separate enclosures would house the batteries, inverters, step-up transformers and site controller.
  - Interconnection of the five CTGs and the battery array to the regional electrical grid would occur through Southern California Edison’s (SCE) Santa Clara Substation via a new, 6.6-mile 230-kV transmission line.
  - Natural gas pipeline connection via a new 2.4 mile, 16-inch-diameter, pipeline that would run southwest from the MREC site along Shell Road and the Southern Pacific Railroad right-of-way to interconnect with Southern California Gas Company’s (SoCal Gas) existing high-pressure natural gas transmission pipeline (Line 404/406).
  - Process water for the MREC would be supplied by local agribusiness conglomerate, Limoneira Company. Limoneira will provide recycled lemon wash and wastewater from their packing house discharges.
  - Limoneira’s wastewater treatment facility uses a lagoon and a sludge treatment process to produce its recycled water which will then be delivered to the project site via a new 1.7-mile-long pipeline.
  - Demineralizer equipment, mounted on portable skids and proposed for location in the northeastern quadrant of the proposed facility, would purify recycled Limoneira water for industrial plant process requirements, including steam production. Following purification, process water would be stored in an adjacent 54-foot tall, 892,000 gallon tank, sufficient for 32 hours of continuous power plant operation.
  - Industrial wastewater from cooling tower blow-down and other power plant processes would be discharged to Green Compass Environmental Solutions via an existing pipeline located along Shell Road, adjacent to the MREC site.
  - Temporary construction laydown/parking facilities would include a 2.89-acre worker parking and laydown area immediately north of the western edge of the proposed MREC site.
-

As a peaking power plant, MREC is expected to operate during periods of increased need on the grid, such as: times of high electrical load, during periods when intermittent renewable source generation fluctuates, when baseload plants are not operating or being brought on-line, or during emergency conditions. If licensed, the facility would be permitted to operate up to 28.5 percent of the time, with 150 start and stop cycles. The project would also have black start capability, allowing the facility to come online and support the grid to recover from a complete power outage.

Energy Commission staff would like to consult with you to better understand Native American concerns regarding this project. Please respond to this letter in writing within 30 days if the Owl Clan would like to request consultation.

Additionally, over the coming months the Energy Commission will hold public workshops and hearings on the application to better understand any impacts the project may have on the environment. These workshops and hearings will provide the public; local state and federal agencies; and tribal governments, the opportunity to ask questions about, and provide input on, the proposed project. The Energy Commission will issue notices for these workshops and hearings at least 10 days prior to the meeting.

If you would like to be notified by e-mail whenever a public meeting is scheduled or a document is posted to the project website, you may sign up for the project listserv on the Energy Commission's main web page listed below. Public notices can also be sent to you by mail at your request. Should you request, Energy Commission staff will arrange for a separate consultation meeting to discuss issues that you may wish to hold in confidence from the general public.

To review the MREC AFC (15-AFC-02), and find more information about the project and proceedings, please visit the project website:

<http://www.energy.ca.gov/sitingcases/missionrock/index.html>



Qun-tan Shup  
May 24, 2016  
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ROGER E. JOHNSON  
Deputy Director  
Siting, Transmission  
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Energy Commission Tribal Liaison

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May 24, 2016

Freddie Romero  
Cultural Resources Coordinator  
Santa Ynez Tribal Elders Council  
P.O. Box 365  
Santa Ynez, CA 93460

RE: Mission Rock Energy Center (15-AFC-02) - Invitation to Participate in California Energy Commission Consultation

Dear Mr. Romero,

The California Energy Commission (Energy Commission) is responsible for preparing an environmental analysis for the proposed Mission Rock Energy Center (MREC) and invites the Santa Ynez Band of Mission Indians to consult regarding this project because of the Santa Ynez Band of Mission Indians traditional and cultural affiliation, and knowledge within the geographic area of the proposed project.

This letter provides general information concerning the current project design, includes attached exhibits depicting the vicinity and project site location, and invites you to participate in Energy Commission consultation, in accordance with the obligations pursuant to Public Resources Code 21080.3.1 and 21080.3.2.

The Energy Commission has jurisdiction over the proposed project and determined the MREC application for certification (AFC) data adequate on May 17, 2016. A search of the Sacred Lands File by the Native American Heritage Commission did not result in the identification of any resources. The literature search and pedestrian survey conducted by the project applicant in the proposed project area and associated linears identified a sandstone mortar fragment, an historic transmission line, the Santa Clara substation, an historic trash scatter, the former Beckwith Ranch, the Limoneira Ranch Aliso Village, and the Santa Clara Valley Rural Historic District.

**MREC PROJECT DESCRIPTION**

The applicant, Mission Rock Energy Center, LLC proposes to construct, own, and operate the MREC in unincorporated Ventura County, California, approximately 2 miles west of Santa Paula, near Highway 126. The facility would be a natural gas-fired, simple-cycle power plant comprising five combustion turbine generators (CTGs), with a nominal generating capacity of 255 megawatts (MW). Additionally, MREC would house

twenty (20) on-site ion (and/or *flow*<sup>1</sup>) battery units for the storage of MREC-generated electricity, providing an additional 100 megawatt hours (MWh) (25 MW for up to 4 hours) of nominal capacity. The plant would also be fitted with clutch technology enabling synchronized condenser operation to provide voltage (Volt-Ampere Reactive or “VAR”) support to the local grid without consuming natural gas.

Project elements include:

- Five GE Energy LM6000 PG (*or equivalent*) CTGs equipped with selective catalytic reduction (SCR) air emissions control technology and associated support equipment for nitrogen oxides (NO<sub>x</sub>) and carbon monoxide (CO) control.
- Lithium-ion (*and/or flow*) batteries housed in enclosed systems that could be operated in conjunction with the power plant, or separately. Twenty separate enclosures would house the batteries, inverters, step-up transformers and site controller.
- Interconnection of the five CTGs and the battery array to the regional electrical grid would occur through Southern California Edison’s (SCE) Santa Clara Substation via a new, 6.6-mile 230-kV transmission line.
- Natural gas pipeline connection via a new 2.4 mile, 16-inch-diameter, pipeline that would run southwest from the MREC site along Shell Road and the Southern Pacific Railroad right-of-way to interconnect with Southern California Gas Company’s (SoCal Gas) existing high-pressure natural gas transmission pipeline (Line 404/406).
- Process water for the MREC would be supplied by local agribusiness conglomerate, Limoneira Company. Limoneira will provide recycled lemon wash and wastewater from their packing house discharges.
- Limoneira’s wastewater treatment facility uses a lagoon and a sludge treatment process to produce its recycled water which will then be delivered to the project site via a new 1.7-mile-long pipeline.
- Demineralizer equipment, mounted on portable skids and proposed for location in the northeastern quadrant of the proposed facility, would purify recycled Limoneira water for industrial plant process requirements, including steam production. Following purification, process water would be stored in an adjacent 54-foot tall, 892,000 gallon tank, sufficient for 32 hours of continuous power plant operation.
- Industrial wastewater from cooling tower blow-down and other power plant processes would be discharged to Green Compass Environmental Solutions via an existing pipeline located along Shell Road, adjacent to the MREC site.

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Freddie Romero

May 24, 2016

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- Temporary construction laydown/parking facilities would include a 2.89-acre worker parking and laydown area immediately north of the western edge of the proposed MREC site.

As a peaking power plant, MREC is expected to operate during periods of increased need on the grid, such as: times of high electrical load, during periods when intermittent renewable source generation fluctuates, when baseload plants are not operating or being brought on-line, or during emergency conditions. If licensed, the facility would be permitted to operate up to 28.5 percent of the time, with 150 start and stop cycles. The project would also have black start capability, allowing the facility to come online and support the grid to recover from a complete power outage.

Energy Commission staff would like to consult with you to better understand Native American concerns regarding this project. Please respond to this letter in writing within 30 days if the Santa Ynez Band of Mission Indians would like to request consultation.

Additionally, over the coming months the Energy Commission will hold public workshops and hearings on the application to better understand any impacts the project may have on the environment. These workshops and hearings will provide the public; local state and federal agencies; and tribal governments, the opportunity to ask questions about, and provide input on, the proposed project. The Energy Commission will issue notices for these workshops and hearings at least 10 days prior to the meeting.

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Freddie Romero

May 24, 2016

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Sincerely,

ROGER E. JOHNSON  
Deputy Director  
Siting, Transmission  
and Environmental Protection Division

Energy Commission Tribal Liaison

Enclosures: Regional Location Map  
Site Map

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SACRAMENTO, CA 95814-5512  
www.energy.ca.gov



May 24, 2016

Beverly Salazar Folkes  
1931 Shadybrook Drive  
Thousand Oaks, CA 91362

RE: Mission Rock Energy Center (15-AFC-02) - Invitation to Participate in California Energy Commission Consultation

Dear Ms. Salazar Folkes,

The California Energy Commission (Energy Commission) is responsible for preparing an environmental analysis for the proposed Mission Rock Energy Center (MREC) and invites you to consult regarding this project because of your traditional and cultural affiliation, and knowledge within the geographic area of the proposed project.

This letter provides general information concerning the current project design, includes attached exhibits depicting the vicinity and project site location, and invites you to participate in Energy Commission consultation. You may recall this project when you were contacted by the applicant's consultant, Gloriella Cardenas of CH2M Hill, in October of 2015, and requested to be kept informed of the project.

The Energy Commission has jurisdiction over the proposed project and determined the MREC application for certification (AFC) data adequate on May 17, 2016. A search of the Sacred Lands File by the Native American Heritage Commission did not result in the identification of any resources. The literature search and pedestrian survey conducted by the project applicant in the proposed project area and associated linears identified a sandstone mortar fragment, an historic transmission line, the Santa Clara substation, an historic trash scatter, the former Beckwith Ranch, the Limoneira Ranch Aliso Village, and the Santa Clara Valley Rural Historic District.

## **MREC PROJECT DESCRIPTION**

The applicant, Mission Rock Energy Center, LLC proposes to construct, own, and operate the MREC in unincorporated Ventura County, California, approximately 2 miles west of Santa Paula, near Highway 126. The facility would be a natural gas-fired, simple-cycle power plant comprising five combustion turbine generators (CTGs), with a nominal generating capacity of 255 megawatts (MW). Additionally, MREC would house twenty (20) on-site ion (and/or *flow*<sup>1</sup>) battery units for the storage of MREC-generated

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electricity, providing an additional 100 megawatt hours (MWh) (25 MW for up to 4 hours) of nominal capacity. The plant would also be fitted with clutch technology enabling synchronized condenser operation to provide voltage (Volt-Ampere Reactive or “VAR”) support to the local grid without consuming natural gas.

Project elements include:

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-

Beverly Salazar Folkes

May 24, 2016

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Energy Commission staff would like to consult with you to better understand Native American concerns regarding this project.

Additionally, over the coming months the Energy Commission will hold public workshops and hearings on the application to better understand any impacts the project may have on the environment. These workshops and hearings will provide the public; local state and federal agencies; and tribal governments, the opportunity to ask questions about, and provide input on, the proposed project. The Energy Commission will issue notices for these workshops and hearings at least 10 days prior to the meeting.

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Beverly Salazar Folkes

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Sincerely,

ROGER E. JOHNSON  
Deputy Director  
Siting, Transmission  
and Environmental Protection Division

Energy Commission Tribal Liaison

Enclosures: Regional Location Map  
Site Map

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1516 NINTH STREET  
SACRAMENTO, CA 95814-5512  
www.energy.ca.gov



May 24, 2016

Patrick Tumamait  
992 El Camino Corto  
Ojai, CA 93023

RE: Mission Rock Energy Center (15-AFC-02) - Invitation to Participate in California Energy Commission Consultation

Dear Mr. Tumamait,

The California Energy Commission (Energy Commission) is responsible for preparing an environmental analysis for the proposed Mission Rock Energy Center (MREC) and invites you to consult regarding this project because of your traditional and cultural affiliation, and knowledge within the geographic area of the proposed project.

This letter provides general information concerning the current project design, includes attached exhibits depicting the vicinity and project site location, and invites you to participate in Energy Commission consultation. You may recall this project when you were contacted by the applicant's consultant, Gloriella Cardenas of CH2M Hill, in October of 2015, and expressed concern about known, but not formally recorded, sites in the study area and the sensitivity of the study area.

The Energy Commission has jurisdiction over the proposed project and determined the MREC application for certification (AFC) data adequate on May 17, 2016. A search of the Sacred Lands File by the Native American Heritage Commission did not result in the identification of any resources. The literature search and pedestrian survey conducted by the project applicant in the proposed project area and associated linears identified a sandstone mortar fragment, an historic transmission line, the Santa Clara substation, an historic trash scatter, the former Beckwith Ranch, the Limoneira Ranch Aliso Village, and the Santa Clara Valley Rural Historic District.

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Patrick Tumamait  
May 24, 2016  
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Sincerely,

ROGER E. JOHNSON  
Deputy Director  
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Energy Commission Tribal Liaison

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Site Map

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May 24, 2016

Honorable Julie Lynn Tumamait-Stennslie  
Barbareno/Ventureno Band of Chumash Indians  
365 North Poli Ave  
Ojai, CA 93023

RE: Mission Rock Energy Center (15-AFC-02) - Invitation to Participate in California Energy Commission Consultation

Dear Honorable Chairperson Tumamait-Stennslie,

The California Energy Commission (Energy Commission) is responsible for preparing an environmental analysis for the proposed Mission Rock Energy Center (MREC) and invites the Barbareno/Ventureno Band of Chumash Indians to consult regarding this project because of the Barbareno/Ventureno Band of Chumash Indians' traditional and cultural affiliation, and knowledge within the geographic area of the proposed project.

This letter provides general information concerning the current project design, includes attached exhibits depicting the vicinity and project site location, and invites you to participate in Energy Commission consultation, in accordance with the obligations pursuant to Public Resources Code 21080.3.1 and 21080.3.2. You may recall this project when you were contacted by the applicant's consultant, Gloriella Cardenas of CH2M Hill, in October of 2015, and you requested a copy of the survey report.

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Honorable Julie Lynn Tumamait-Stennslie

May 24, 2016

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- Temporary construction laydown/parking facilities would include a 2.89-acre worker parking and laydown area immediately north of the western edge of the proposed MREC site.

As a peaking power plant, MREC is expected to operate during periods of increased need on the grid, such as: times of high electrical load, during periods when intermittent renewable source generation fluctuates, when baseload plants are not operating or being brought on-line, or during emergency conditions. If licensed, the facility would be permitted to operate up to 28.5 percent of the time, with 150 start and stop cycles. The project would also have black start capability, allowing the facility to come online and support the grid to recover from a complete power outage.

Energy Commission staff would like to consult with you to better understand Native American concerns regarding this project. Please respond to this letter in writing within 30 days if the Barbareno/Ventureno Band of Chumash Indians would like to request consultation.

Additionally, over the coming months the Energy Commission will hold public workshops and hearings on the application to better understand any impacts the project may have on the environment. These workshops and hearings will provide the public; local state and federal agencies; and tribal governments, the opportunity to ask questions about, and provide input on, the proposed project. The Energy Commission will issue notices for these workshops and hearings at least 10 days prior to the meeting.

If you would like to be notified by e-mail whenever a public meeting is scheduled or a document is posted to the project website, you may sign up for the project listserv on the Energy Commission's main web page listed below. Public notices can also be sent to you by mail at your request. Should you request, Energy Commission staff will arrange for a separate consultation meeting to discuss issues that you may wish to hold in confidence from the general public.

To review the MREC AFC (15-AFC-02), and find more information about the project and proceedings, please visit the project website:

<http://www.energy.ca.gov/sitingcases/missionrock/index.html>



Honorable Julie Lynn Tumamait-Stennsli

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The Energy Commission staff welcomes your comments or questions. If you have comments or questions, please contact Matthew Braun at (916) 654-4543; Fax: (916) 651-8868; or [matthew.braun@energy.ca.gov](mailto:matthew.braun@energy.ca.gov).

Sincerely,

ROGER E. JOHNSON  
Deputy Director  
Siting, Transmission  
and Environmental Protection Division

Energy Commission Tribal Liaison

Enclosures: Regional Location Map  
Site Map

**CALIFORNIA ENERGY COMMISSION**

1516 NINTH STREET  
SACRAMENTO, CA 95814-5512  
www.energy.ca.gov



May 24, 2016

Honorable Mark Steven Vigil  
San Luis Obispo County Chumash Council  
1030 Ritchie Road  
Grover Beach, CA 93433

RE: Mission Rock Energy Center (15-AFC-02) - Invitation to Participate in California Energy Commission Consultation

Dear Honorable Chief Mark Steven Vigil,

The California Energy Commission (Energy Commission) is responsible for preparing an environmental analysis for the proposed Mission Rock Energy Center (MREC) and invites the San Luis Obispo County Chumash Council to consult regarding this project because of San Luis Obispo County Chumash Council's traditional and cultural affiliation, and knowledge within the geographic area of the proposed project.

This letter provides general information concerning the current project design, includes attached exhibits depicting the vicinity and project site location, and invites you to participate in Energy Commission consultation, in accordance with the obligations pursuant to Public Resources Code 21080.3.1 and 21080.3.2.

The Energy Commission has jurisdiction over the proposed project and determined the MREC application for certification (AFC) data adequate on May 17, 2016. A search of the Sacred Lands File by the Native American Heritage Commission did not result in the identification of any resources. The literature search and pedestrian survey conducted by the project applicant in the proposed project area and associated linears identified a sandstone mortar fragment, an historic transmission line, the Santa Clara substation, an historic trash scatter, the former Beckwith Ranch, the Limoneira Ranch Aliso Village, and the Santa Clara Valley Rural Historic District.

### **MREC PROJECT DESCRIPTION**

The applicant, Mission Rock Energy Center, LLC proposes to construct, own, and operate the MREC in unincorporated Ventura County, California, approximately 2 miles west of Santa Paula, near Highway 126. The facility would be a natural gas-fired, simple-cycle power plant comprising five combustion turbine generators (CTGs), with a nominal generating capacity of 255 megawatts (MW). Additionally, MREC would house twenty (20) on-site ion (and/or *flow*<sup>1</sup>) battery units for the storage of MREC-generated

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<sup>1</sup> a flow battery is just like an electrochemical cell, with the exception that the ionic solution (electrolyte) is not stored in the cell around the electrodes. Rather, the ionic solution is stored outside of the cell, and can

electricity, providing an additional 100 megawatt hours (MWh) (25 MW for up to 4 hours) of nominal capacity. The plant would also be fitted with clutch technology enabling synchronized condenser operation to provide voltage (Volt-Ampere Reactive or "VAR") support to the local grid without consuming natural gas.

Project elements include:

- Five GE Energy LM6000 PG (*or equivalent*) CTGs equipped with selective catalytic reduction (SCR) air emissions control technology and associated support equipment for nitrogen oxides (NO<sub>x</sub>) and carbon monoxide (CO) control.
- Lithium-ion (*and/or flow*) batteries housed in enclosed systems that could be operated in conjunction with the power plant, or separately. Twenty separate enclosures would house the batteries, inverters, step-up transformers and site controller.
- Interconnection of the five CTGs and the battery array to the regional electrical grid would occur through Southern California Edison's (SCE) Santa Clara Substation via a new, 6.6-mile 230-kV transmission line.
- Natural gas pipeline connection via a new 2.4 mile, 16-inch-diameter, pipeline that would run southwest from the MREC site along Shell Road and the Southern Pacific Railroad right-of-way to interconnect with Southern California Gas Company's (SoCal Gas) existing high-pressure natural gas transmission pipeline (Line 404/406).
- Process water for the MREC would be supplied by local agribusiness conglomerate, Limoneira Company. Limoneira will provide recycled lemon wash and wastewater from their packing house discharges.
- Limoneira's wastewater treatment facility uses a lagoon and a sludge treatment process to produce its recycled water which will then be delivered to the project site via a new 1.7-mile-long pipeline.
- Demineralizer equipment, mounted on portable skids and proposed for location in the northeastern quadrant of the proposed facility, would purify recycled Limoneira water for industrial plant process requirements, including steam production. Following purification, process water would be stored in an adjacent 54-foot tall, 892,000 gallon tank, sufficient for 32 hours of continuous power plant operation.
- Industrial wastewater from cooling tower blow-down and other power plant processes would be discharged to Green Compass Environmental Solutions via an existing pipeline located along Shell Road, adjacent to the MREC site.
- Temporary construction laydown/parking facilities would include a 2.89-acre worker parking and laydown area immediately north of the western edge of the proposed MREC site.

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be fed into the cell in order to generate electricity. The total amount of electricity that can be generated depends on the size of the storage tanks.

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Sincerely,

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