

PROCESSES

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POWER QUALIFICATIONS

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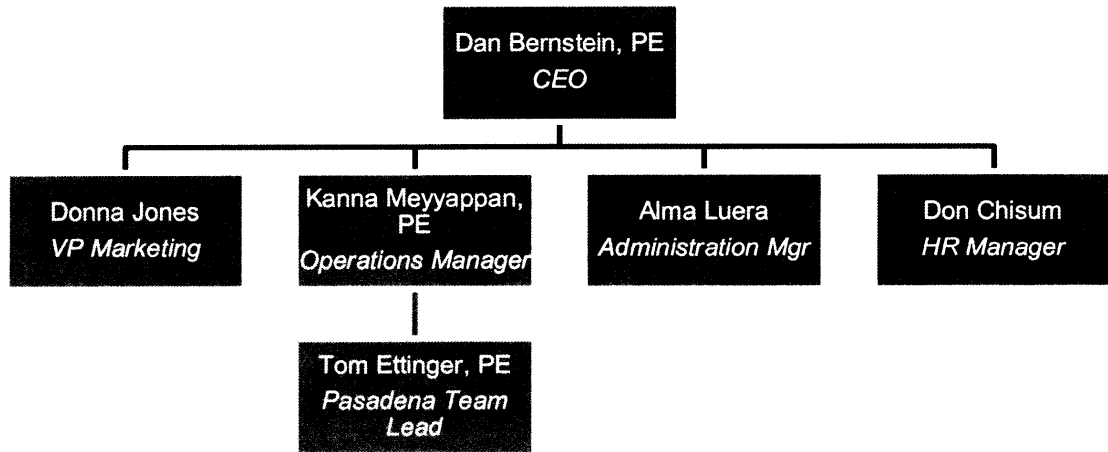
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PROU PASADENA POWER QUALIFICATIONS

Processes Unlimited (ProU) was formed in 1985 and is located in Bakersfield, California. It is a multi-disciplined engineering firm serving the power, process, food and beverage and oil and gas industries registered as a corporation in the State of California. Besides the Bakersfield office, ProU has six regional offices including the office in Pasadena, California. ProU has approximately 380 employees and had 2012 revenue of \$50 million. In 2012 ProU was named company #208 on Engineering News-Records Top 500 Design Firms. Much of ProU’s power experience resides in the Pasadena office. However, there are personnel in Bakersfield, San Ramon and Atlanta that have power and energy experience to support the team and bring with them years of experience and ProU’s commitment to quality.

ProU’s key experience in gas fired, geothermal, solar and biosolids power projects.

Prior to 2006, some of the ProU Pasadena employees were employees of Bibb and Associates (formerly The Ben Holt Company). When Bibb made the decision in June 2006 to close the Pasadena office, ProU came in and took over the office. Bibb’s Pasadena key personnel with gas-fired power experience joined ProU. These key personnel are: Carl Haase, John Brugman, Max Stock, Les Toth and Tom Ettinger. Ettinger remains as the manager of the Pasadena office. Below is an organization chart of ProU’s corporate structure.



ProU’s Pasadena personnel experience includes feasibility studies, owner’s engineer and consulting services, engineering design from conceptual to detailed engineering and design, project management, construction management, startup assistance, performance testing, O&M manual preparation, operator training, financial reviews, facility upgrades, retrofitting emissions reduction and trouble shooting. The following is a list of recent gas-fired power projects that the key Pasadena staff worked on:

PROJECT NAME AND GENERAL LOCATION	KEY PROU PERSONNEL	PROU PERSONNEL'S ROLE	CAPACITY AND EQUIPMENT
47 MW Lake One Peaking Project Burbank, CA	Tom Ettinger	Project Sponsor for Owner's Engineering work to support the LM6000 installation.	GE LM600
SCPPA 250 MW Magnolia Power Burbank, CA	Carl Haase John Brugman	Carl was the CEC resident engineer plus was the owner's assistant construction manager. John worked with the owner on water permitting issues and the project's zero liquid discharge system.	GE 7FA HRSG GE Steam Turbine
City of Pasadena Master Plan Update GT 1& 2 Controls Pasadena, CA	John Brugman Tom Ettinger	Both personnel were managers who managed and performed most of the two projects for the City's department of water and power.	FT-8 CGT GE LM6000
400 MW Panoche Peaking Permitting Panoche, CA	Les Toth Carl Haase	Both personnel provided project management and engineering and design support for the CEC permit application for certification (AFC).	GE LMS-100
Imperial Irrigation District Niland Peaking & El Centro Repower Imperial Valley, CA	Tom Ettinger John Brugman	Tom was the project sponsor and John the project manager for cost estimates, cycle analysis, water consumption calcs, site feasibility, equipment layout, final report for a simple cycle and repowering project.	GE LM6000 GE 7EA
Constellation – 750 MW High Desert Power Project Victorville, CA	Carl Haase John Brugman Tom Ettinger	Carl was the CEC resident engineer plus was the engineer's representative for the project. Tom was the manager and John the lead process engineer on the water treatment plant which included a ZLD.	W501F HRSG GE Steam Turbine
100 MW Riverside Peaking Project Riverside, CA	Tom Ettinger John Brugman	Project Sponsor and Principle Mechanical Engineer for the project management, engineering, design and construction/startup support for the project	GE LM6000
100 MW Saguaro Cogen Expansion Henderson, NV	Tom Ettinger	Tom was the owner's engineering project manager for cost estimates, cycle analysis, water usage calcs, site feasibility, equipment layout, environmental permit support, final report.	GE LM6000
Casa Diablo 15 MW Geothermal Mammoth Lakes, CA	Tom Ettinger John Brugman	Both personnel performed conceptual engineering including PFDs, technical permit support and cost estimates as owner's engineer.	GE Rotoflow Radial Inflow Turbine
Salton Sea 185 MW Geothermal Plant Imperial Valley, CA	Tom Ettinger John Brugman	Both personnel performed conceptual engineering including PFDs, cost estimates, layouts, etc. plus technical CEC permit support as owner's engineer.	Geothermal Steam Turbine
Three Mountain 500 MW Power Permitting Burney, CA	Les Toth John Brugman	Both personnel provided management and technical support for the CEC permit application for certification (AFC). Les project managed the permit for the owner to approval.	GE 7FA HRSG Steam Turbine

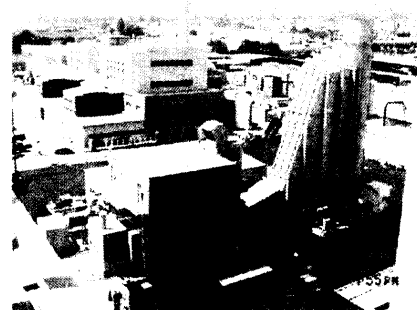
ProU Pasadena Employee Experience in Designing Gas-Fired Power Projects in California

ProU Pasadena Employees have extensive experience in project management, owner's engineering, detailed engineering, procurement, construction commissioning and performance testing of many simple-cycle and combined cycle power projects in California.

Highlights of our recent experience with California power projects are as follows:

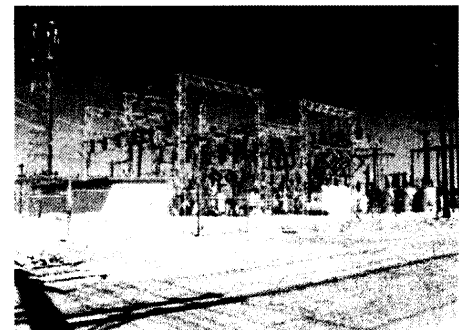
47 MW Simple Cycle Lake One Project Burbank, California Client: City of Burbank

This project consisted of one GE LM6000 Sprint gas turbine generator equipped with SCR to meet the 5ppm NOx requirements by South Coast Air Quality Management District (SCAQMD). Various ProU Pasadena Employees provided owner's engineering services including conceptual design, preliminary engineering in support of major equipment procurement activities and EPC contracting. We also provided Owner's Engineering services including project management, construction management assistance, engineering, and electrical design services. The project was completed within five months on schedule and under budget. Subsequent to this project, ProU personnel worked on Burbank Olive 1 & 2 plans as owner's engineer and performed other tasks such as a safety analysis.



50 MW Niland Peaking and 70 MW El Centro Repower Conceptual Study Imperial Valley, California Client: Imperial Irrigation District

Niland is one LM6000 simple-cycle turbine and El Centro is a Repower of Unit 3 with a 7EA turbine. ProU Pasadena Employees managed and studied two projects as owner's engineer during their conceptual phase for IID optimizing the performance, drawing preliminary layouts and cost estimating the two projects.



**330 MW Simple Cycle Richland Peaking Project
Richland, Ohio**

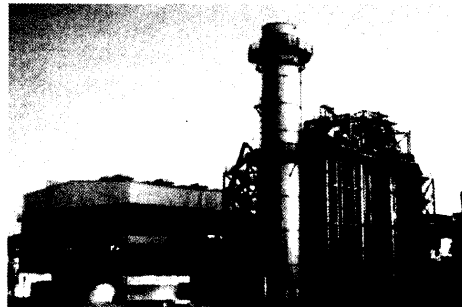
Client: First Energy

This project consisted of three ABB 11N2 peaking gas turbine generators. ProU Pasadena Employees managed the conceptual design services including air emissions, cycle design, site layout, and specification for the purchase order of the turbines as owner's engineer/manager and went on to perform the EPC engineering, detailed design and construction support of the project.



**250 MW Magnolia Project, Burbank, California
Client: Southern California Public Power
Authority (SCPPA)**

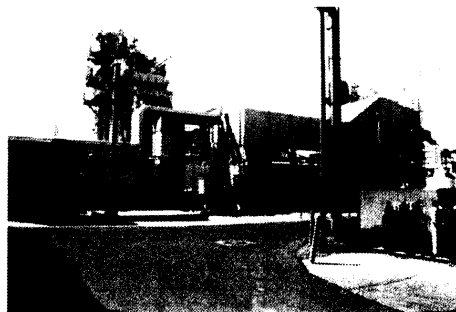
The Magnolia project is designed to generate 250 MW consisting of one GE 7FA, one Heat Recovery Steam Generator (HRSG), one steam turbine generator (STG). Various ProU Pasadena Employees supported the project during conceptual design and CEC permitting. They supported the project administration, provided technical support, and one employee was the CEC Resident Engineer and assistant construction manager for the Magnolia Project for SCPPA. This project was awarded the "2005 Plant of the Year" by Power Magazine.



**100 MW Cogeneration Expansion of Existing
Facility, Henderson, Nevada**

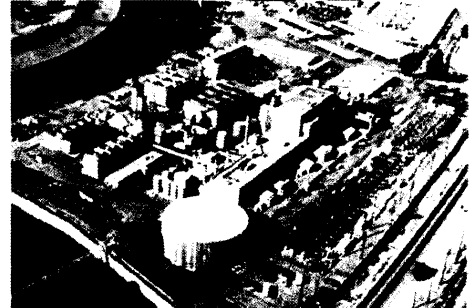
Client: Saguaro Power

The Saguaro power project consists of two GE LM6000 gas turbine generators with capability to supply steam to a near-by manufacturer. ProU Pasadena Employees managed the owner's engineering including conceptual design and preliminary engineering services including developing data for the air permit, cycle configuration, and site layout, estimate and schedule as well as evaluating alternate site locations.



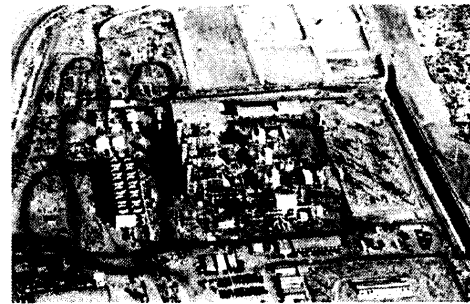
Repowering Grayson Power Plant
Client: City of Glendale Water and Power

ProU Pasadena Employees managed the feasibility study as owner's engineer to evaluate the repowering of the existing three steam turbine generators (STG) with a new combined cycle power generation using either GE LM6000 or GE 7FA gas turbine generator and a simple cycle GE LM6000 peaking unit. The study addressed the technical impacts and economic trade-off of capital costs versus operating costs for various options including the use of the evaporative cooler versus chiller for cooling the inlet air to the combustor, technical feasibility of firing landfill gas in the HRSG duct burners, and alternative site locations.



High Desert Power Plant, Victorville, California
Client: Constellation

Various ProU Employees project managed and designed the 750 MW High Desert power project water treatment plant in Victorville, California for Constellation. The High Desert project water treatment plant consists of multi-stage filtration and a Zero Liquid Discharge facility. The project achieved commercial operation May 2003, ahead of schedule and under budget. This project was awarded the "2003 Plant of the Year" by Power Magazine.



City of Riverside 100MW Peaking Project,
Riverside, California
Client: City of Riverside

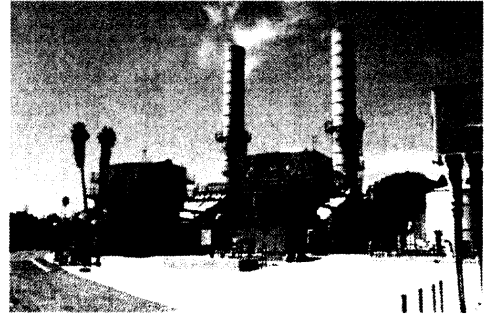
This project consisted of two GE LM6000 peaking gas turbine generators, hot SCR, gas compressors and substation. Various ProU Pasadena Employees performed the EPC engineering management, detailed engineering, detailed design, construction and start-up support of the project.



**Various Projects for Pasadena Water and Power
Pasadena, California**

Client: City of Pasadena

ProU has worked on various projects for Pasadena Water and Power: update to the Power Plant Site Master Plan; create a specification for controls retrofit of two FT-8 gas-fired turbines; review of a boiler's pipe stress plus modifications of the support system; electrical relay setting and wiring for an FT-8 plus other miscellaneous projects.

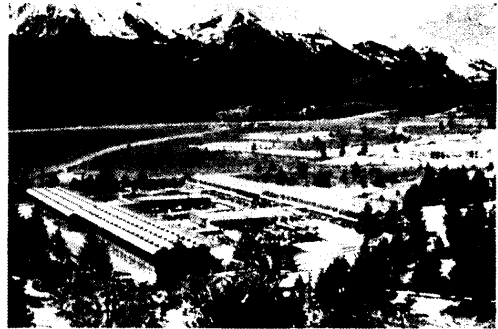


15 MW Casa Diablo 4 Geothermal

Mammoth Lakes, California

Client: Mammoth-Pacific LLC

ProU works extensively in the geothermal power plant industry and this is one of many projects ProU has performed. ProU employees performed as owner's engineer, conceptual engineering including PFDs, P&IDs, cost estimates, layouts, and environmental permitting support. The project was an air-cooled geothermal binary cycle expansion to the existing project that ProU employees had earlier engineered and constructed.



Recent ProU Pasadena Personnel Experience in providing preliminary design services in support of a California Energy Commission AFC filing

ProU Pasadena Personnel has significant and pertinent experience in providing preliminary design services in support of California Energy Commission AFC filing. Our typical technical support for the AFC submittals consist of preliminary engineering design including developing design basis and design criteria, performing screening studies to determine the best thermal cycle for the project, preparing heat and material balance, water balance for various case scenarios, plant description, major equipment specifications, site layout and plot plan, drainage and rough grading plan, one-line diagram, providing environmental support such as air emission data, waste water quality and water consumption, equipment noise data, reviewing site survey and geotechnical reports, preparing schedule and cost estimates, providing technical responses to the data adequacy responses from CEC, assisting owner in representing the project at information meetings, workshops, and hearings to achieve AFC approval. The following are brief summary of the recent projects, which ProU Pasadena Personnel had provided technical support for the AFC submittals to the California Energy Commission (CEC).

Salton Sea Unit 6 (SSU6) Project, Calipatria, Imperial County, California
Client: CE Obsidian Energy, LLC (CalEnergy)

The Salton Sea Unit 6 (SSU6) project is a proposed 185 MW geothermal power plant consisting of a geothermal Resource Production Facility (RFP); a merchant class geothermal-powered Power Generation Facility (PGF), and associated facilities in Imperial County. As owner's engineer, ProU Pasadena Employees provided the conceptual design, technical support and technical specifications for the AFC submittal of the SSU6 project in accordance with the CEC Power Plant Site Certification for CE Obsidian Energy, LLC.

Three Mountain Power Project, Burney, Shasta County, California
Client: Covanta Energy Three Mountain Power, LLC

ProU Pasadena Employees provided the overall management of the CEC permitting process, technical support, and technical specifications for major equipment for the Application for Certification (AFC) submittal to the CEC seeking authority to construct and operate the Three Mountain Power Project, a natural gas-fired, combined cycle power plant with a nominal rating of 500 MW. The AFC was submitted in accordance with Title 20, California Code of Regulations. Functions included plant layout, equipment specification, thermal cycle design and optimization (including the eventual design of the wet/dry hybrid cooling system to minimize water usage), emissions calculations, electrical transmission line interconnect evaluation, EPC cost estimating, site grading and drainage plans, and noise modeling. ProU Pasadena Personnel provided technical testimonials at numerous CEC hearings, and also formulated mitigation plans for issues relating to air emissions (including in depth analysis of BACT), noise and water resources. This project received its certification approval in June 2001.

Panoche Peaking Power Project, Panoche, Fresno County, California
Client: Panoche Energy Center, LLC

ProU Pasadena Employees, as owner's engineer, provided the engineering management of the CEC permitting process, technical support, and technical specifications for major equipment for the Application for Certification (AFC) submittal to the CEC seeking authority to construct and operate the Panoche Peaking Power Project, a natural gas-fired, simple cycle power plant with a nominal rating of 400 MW. Our functions included plant layout, equipment specification, thermal cycle design and optimization, emissions calculations, electrical transmission line interconnect evaluation, site grading and drainage plans, and noise modeling.

PROU PASADENA SOLAR EXPERIENCE

Sunray Energy, Daggett, California

The existing trough solar project used Therminol for the heating medium. Under high temperatures this petroleum product cracks into lighter hydrocarbon components. A skid was designed and installed to remove the light components and has been successfully operating.

Ram Power, Nevada

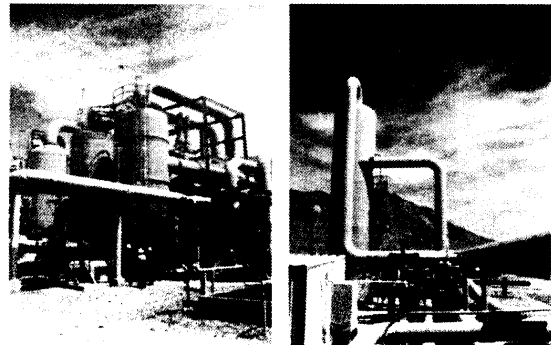
ProU personnel are owners engineer for a 20 MW trough solar ORC binary hybrid cycle. This is a first of a kind project. ProU optimized the power cycle and insolation values were developed for time of day and time of year. From this data off-design performance was developed for a matrix of cases. This data was analyzed for the specific project physical location in determining how the plant would be run early mornings and late afternoons. ProU provided the initial engineering and assisted the owner to develop a site layout and cost estimate.

NREL, Department of Energy, Colorado

ProU personnel studied many concentrated solar/air cooled binary cycles. ProU checked a number of cycles for different working fluids, equipment and output splits between the solar and binary cycle. Off-design data was developed for a representative site. Various different load shifting concepts such as thermal storage, auxiliary heat sources, etc. were studied and reported to NREL.

PROU PASADENA GEOTHERMAL EXPERIENCE

For over three decades, the Pasadena office has been actively involved in the renewable energy industry. We have engineered power plants, performed numerous studies and due diligence and we bring to the geothermal industry broad experience in engineering and design, construction, and operation of binary cycle and steam flash geothermal power plants. Because we have done so much work in the geothermal industry, we have a standalone qualification package that is available upon request.



Attachment D: Agenda Report for the Authorization to Enter Contract with Process Unlimited International

Processes Unlimited International, Inc.

Proposed Repowering Project Team Members

David Tateosian: Mr. Tateosian is proposed as the project manager and has over 30 years of multidisciplinary management in power plant development, permitting, design, construction and commissioning. Mr. Tateosian's most recent experience was from Aug 2011 to 2012, serving as project manager for Imperial Irrigation District's El Centro Unit 3 Project, a combined cycle plant similar in scope to the Glenarm Repowering Project. Mr. Tateosian managed the two separate PIE and BOP contracts, similar to the Repowering contract structure, to construct and commission the plant. Mr. Tateosian was also involved in the Riverside Units 1, 2, 3 and 4 as the owner's engineer and design engineer from 2003 to 2010.

Henry R. Fine: Mr. Fine is proposed as the construction manager and has over 40 years of extensive experience with power plant construction and commissioning of gas-fired simple-cycle and combined-cycle installations. Mr. Fine has worked on several Southern California gas turbine power plants including Riverside Units 1 & 2 from 2004 to 2006, Riverside Units 3 & 4 from 2007 to 2010, and Competitive Power Ventures' Sentinel Energy Project from 2010 to present. In all three cases, the owner had a power island contract with General Electric and a separate contract with an EPC contractor, the same as the Repowering Project structure. Both Mr. Tateosian and Mr. Fine have worked together in different capacities over the last ten years and have a proven track record of successful projects and satisfied clients.

Carl Haase: Mr. Haase is proposed to provide civil and structural engineering support and has over 40 years of project management experience including serving as resident engineer for three California Energy Commission approved combined cycle and simple cycle plants. Mr. Haase recently completed work on the Anaheim Canyon Power Plant from 2010 to 2012, where he served as the resident engineer and part of the construction management team. Mr. Haase also served a similar role for the SCPPA Magnolia Power Project located in Burbank from 2003 to 2005. Mr. Haase works out of the PROU Pasadena office and would be dispatched to the Glenarm site on an as-needed basis to provide oversight on civil engineering, inspection and structural matters.

Gary Rose: Mr. Rose is proposed to provide electrical and controls engineering support and has over 40 years of power engineering and project management experience including performing electrical system studies, owner's representation services, and project and construction management services. Mr. Rose recently completed work on the Anaheim Canyon Power Plant from 2010 to 2012 and the SCPPA Magnolia project from 2003 to 2005, where he provided electrical, controls and commissioning support as part of the construction management team. Mr. Rose will report out of the Pasadena

office and would be dispatched to the Glenarm site on an as-needed basis to provide oversight on electrical and controls engineering, testing, inspection and commissioning matters.