ENERGY FACILITY LICENSING PROCESS

Natural Gas Supply Information

DECEMBER 2000
P700-00-018

Gray Davis, Governor
Introduction
This paper was prepared in response to AB 970 in an effort to provide additional assistance to potential thermal power plant developers. This paper focuses on natural gas supply issues, specifically how a developer could obtain gas supplies to meet the needs of a new power plant.

Natural Gas Supply Background
Traditional natural gas supply sources for California include the Province of Alberta in Canada, the Rocky Mountains, southwest US production basins and native production in California. The proven and potential reserves of natural gas in these basins are sufficient to meet the needs of power generation in California for the foreseeable future. This includes the needs of the power plants that are subject to the provision of Assembly Bill 970. Figure 1 shows the levels of supply California received in 1999 from each of these supply areas.

Figure 1

<table>
<thead>
<tr>
<th>1999 California Natural Gas Receipts by Supply Region</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rockies 10%</td>
</tr>
<tr>
<td>Calif 16%</td>
</tr>
<tr>
<td>Canada 28%</td>
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<tr>
<td>Southwest 46%</td>
</tr>
<tr>
<td>(6132 MMcfd)</td>
</tr>
</tbody>
</table>

There are four active interstate pipelines that have sufficient capacity to natural gas to California. These include El Paso Natural Gas Company, Transwestern Pipeline Company, Kern River Transportation System and PG&E Transmission Northwest. Figure 2 indicates the supply and demand areas served by these pipelines.

Depending on facility location, deliveries may be made using several options. The most obvious method for receiving supply is through the three natural gas utilities: Pacific Gas and Electric Company (PG&E), Southern California Gas Company (SoCalGas),
and San Diego Gas and Electric Company (SDG&E). Direct deliveries may be made off the Kern River and Mojave interstate pipelines. Mojave receives supply from El Paso and Transwestern at the California Border for delivery in California. Finally, supply may be obtained directly from California production using a variety of pipeline options. Again, the site for the proposed facility will determine which of the options is applicable.

PG&E and SoCal Gas have the flexibility to meet increased demand through multiple supply points and storage. That is not the case for SDG&E. For the summer of 2000 its pipeline system ran nearly full, with little or no room for adding new customers without adding to the potential for natural gas supply curtailment. New delivery capacity via additional pipelines from SoCalGas to SDG&E is proposed for operation in the summer of 2001. This would boost SDG&E’s delivery ability by 70 million cubic feet per day (MMcfd), which will just about match the natural gas demand of the Rosarito 540 MW facility, located in Rosarito Beach, Mexico, which will begin operation by the summer of 2001. If this new facility operates at its full capacity, SDG&E will have the same situation it experienced this past summer, operating at or near the limits of its natural gas delivery capacity with little flexibility to meet peak day demand.

Figure 2
Natural Gas Prices

Prices for natural gas may be expected to remain high for the next few years. Summer time prices for electric generation are expected to be in the range of $4.80 per million British thermal units (mmBtu) in 2001 and in the area of $4.20 per mmBtu in 2002. Figures 3 and 4 provide the staff's monthly electric generation natural gas price estimates for the next three-years in northern and southern California. These are based on regressing past monthly NYMEX future contract prices against actual California border spot prices, then applying the regression to future monthly contract prices.

Figure 3
Obtaining Natural Gas Supply
Facilities that consume more than 20,800 therms per month are considered as noncore customers in California. Most power plants natural gas consumption exceed this threshold. Noncore customers are responsible for both obtaining their own supply and lining up the necessary pipeline capacity to have the supply delivered to their facilities.

There are several options available for obtaining the needed natural gas supply. The first option is for the developer to contact one of the many natural gas marketers that operate in northern and southern California. The marketers make the arrangements needed to purchase supply and have it delivered to the facility site. A list of the marketers for northern California is in Appendix A and southern California marketers (including the San Diego area) are listed in Appendix B.

Second, power plant developer can independently purchase its own supply and arrange for transport through existing pipelines. However, constant attention is needed to insure that supply and pipeline capacities continue to be available. It is not uncommon for supply to be delayed or not even be available because of production or natural gas conditioning problems and possibly pipeline congestion. If a developer chooses to follow this path, they can purchase supplies directly from producers or from others at any point along the transportation system. Producers are too numerous to list here. Transport would have to be arranged for each segment of the delivery system. Appendix C provides a list of contacts to arrange transportation on the interstate pipelines. Natural gas utility contacts are provided in Appendix D.
In obtaining fuel supply for peaking facilities, the power plant developer should consider that their plants will run for short periods of time and not necessarily every day. Natural gas may take several days to travel from the well head to the point of use. Purchasing supply then entails anticipating several days in advance how much supply is needed and what specific hour it is needed. The supply flows continuously in the pipeline system, even when the power plant is not running. Thus, arrangements must also be made with the interstate pipelines or the natural gas utility to park or store the flowing supply when it is not needed.

Finally, to meet part or all of the generation needs, the developer can make spot market purchases at the time of need from marketers or others that have flowing gas supply. However, supply will not always be available or could be very expensive to purchase.

A fuller discussion of current natural gas issues may be found in the Energy Commission's Staff Report *California Natural Gas Market Analysis and Issues*, Pub No. 200-00-006, November 21, 2000.
Appendix A
Southern California Natural Gas Marketers

List of Natural Gas Suppliers on the PG&E System

Last updated October 5, 2000
(http://www.pge.com/pipeline/library/resources/industry_links/mkrlist.html)

This list of gas suppliers has been compiled and provided by PG&E solely as a convenience to energy users. Neither the CEC, PG&E nor any of its employees:

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This list will be updated periodically. Natural gas suppliers who would like to be included on future lists, or those with changes or corrections to this list may contact their CGT Account Services Representative
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James Jeffery
Senior Marketing Representative,
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Calgary, Alberta T2P 4K9
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Fax: (714) 251-0230

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Marketing Representative
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Calpine Energy Services, L.P. / CPN Gas Marketing Company
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Manager, Fuel Procurement
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Fax: (713) 830-8722
e-mail: hankd@calpine.com
CanWest Gas Supply USA
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Senior Marketing Representative
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Canada
Telephone: (403) 205-7300
Fax: (403) 205-2562

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Coordinator, Gas Marketing
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Fax: (281) 293-1720

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Malcolm Reinhardt
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Paul Reid - National Account Manager
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Mission Viejo, CA 92692
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Fax: (714) 380-9820

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Web site: www.sempraenergysales.com
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Fax: (502) 584-1794
Toll Free: (877) 2SEMPRA (273-6772)
e-mail: energysales@sempra-slns.com
Web site: www.sempraenergysales.com/midwest/

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Martha Murphy
Scheduling
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Telephone: (713) 985-3853 (Martha)
Fax: (713) 548-5151

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VP, Marketing
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Fax: (510) 226-5778

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Utilicorp/Aquila
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Fax: (614) 781-5243
Appendix B

Southern California Natural Gas Marketers

SOUTHERN CALIFORNIA GAS COMPANY
(Contracted Marketers as of 10/11/00*)

This list of gas suppliers has been compiled and provided by SoCalGas solely as a convenience to energy users. Neither the CEC, SoCalGas nor any of its employees:
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• Assumes any liability with respect to the use of, or for damages resulting from the use of, this information.

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(www.socalgas.com/candi/customer_choice/find_marketeers.shtml)

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Contact</th>
<th>Phone Number</th>
<th>Fax Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Astra Power, L.L.C.</td>
<td>Parks Wesson</td>
<td>(714) 969-6569</td>
<td>(714) 969-8687</td>
</tr>
<tr>
<td>BP Energy</td>
<td>Scott Bond</td>
<td>(949) 251-8696</td>
<td>(949) 251-0230</td>
</tr>
<tr>
<td>Burlington Resources Trading, Inc.</td>
<td>David Kohler</td>
<td>(713) 624-9069</td>
<td>(713) 624-9119</td>
</tr>
<tr>
<td>Coral Energy Resources, L.P.</td>
<td>Stan Lyons</td>
<td>(949) 863-0600</td>
<td>(949) 225-0225</td>
</tr>
<tr>
<td>Defense Energy Supply Center**</td>
<td>Veronica Jones</td>
<td>(703) 767-8552</td>
<td>(703) 767-8757</td>
</tr>
<tr>
<td>Dynegy Marketing and Trade</td>
<td>David Ellis</td>
<td>(925) 469-2308</td>
<td>(925) 469-2301</td>
</tr>
<tr>
<td>Enron Administrative Services</td>
<td>Chris Foster</td>
<td>(713) 853-6313</td>
<td>(713) 646-2492</td>
</tr>
<tr>
<td>Enron Energy Services</td>
<td>Roger Ponce</td>
<td>(562) 901-3804</td>
<td>(562) 437-5035</td>
</tr>
<tr>
<td>IDACORP Energy Solutions, L.P.</td>
<td>Gordon Pickering</td>
<td>(208) 388-2440</td>
<td>(208) 388-6905</td>
</tr>
<tr>
<td>Occidental Energy Marketing</td>
<td>Mike Bucher</td>
<td>(713) 215-7138</td>
<td>(713) 215-7486</td>
</tr>
<tr>
<td>PanCanadian Energy Services, Inc.</td>
<td>Ben King</td>
<td>(949) 472-2909</td>
<td>(949) 472-2914</td>
</tr>
<tr>
<td>PG&amp;E Energy Trading</td>
<td>Paul Gendron</td>
<td>(415) 675-6423</td>
<td>(415) 981-4735</td>
</tr>
<tr>
<td>Reliant Energy Services</td>
<td>Kirby Bosley</td>
<td>(303) 620-9999</td>
<td>(303) 620-9696</td>
</tr>
<tr>
<td>SCANA Energy Trading</td>
<td>Dave Jones</td>
<td>(707) 789-9100</td>
<td>(707) 789-9200</td>
</tr>
<tr>
<td>Sempra Energy Sales</td>
<td>Robert Nielsen</td>
<td>(213) 244-3062</td>
<td>(213) 689-3264</td>
</tr>
<tr>
<td>Sempra Energy Trading</td>
<td>Perssya Mergeanian</td>
<td>(714) 557-5142</td>
<td>(714) 444-4924</td>
</tr>
<tr>
<td>Southern Company Energy Marketing</td>
<td>John Hogan</td>
<td>(678) 579-3205</td>
<td>(678) 579-5766</td>
</tr>
<tr>
<td>State of Calif. — General</td>
<td>Bill Knox</td>
<td>(916) 322-9838</td>
<td>(916) 322-5377</td>
</tr>
<tr>
<td>Services**</td>
<td>Contact Name</td>
<td>Phone 1</td>
<td>Phone 2</td>
</tr>
<tr>
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</tr>
<tr>
<td>TXU Energy Services</td>
<td>Michael Williamson</td>
<td>(510) 266-5777</td>
<td>(510) 226-5778</td>
</tr>
<tr>
<td>Utilicorp Energy Solutions</td>
<td>Deanna Sharpe</td>
<td>(614) 781-5231</td>
<td>(614) 781-5242</td>
</tr>
<tr>
<td>Williams Energy Services Co.</td>
<td>John O Dell</td>
<td>(918) 588-4070</td>
<td>(918) 561-6446</td>
</tr>
</tbody>
</table>

*These marketers are currently approved to participate in Southern California Gas Company’s contracted marketer program.
**Represents state facilities only

**San Diego Gas and Electric Company Service Area Gas Service Providers**

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- Assumes any liability with respect to the use of, or for damages resulting from the use of, this information.
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**Duke Energy**  
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Fax: (213) 689-3264  
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Fax: (918) 491-6659  
Email: tmashburn@tigernaturalgas.com

**TXU Energy Trading Company**  
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San Francisco, CA 94111  
**Contact:** Cathy Hawes  
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**Utilicorp Energy Solutions**  
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Columbus, OH 43235  
**Contact:** Terry Miller  
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Fax: (614) 781-5242  
Email: tmillert@ucmohi.com
Appendix C  
Interstate Pipeline Transportation Contacts

**PG&E Transmission - Northwest**

<table>
<thead>
<tr>
<th>Pipeline Marketing &amp; Development</th>
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<tbody>
<tr>
<td><strong>Name:</strong> Lund, Peter</td>
<td></td>
</tr>
<tr>
<td><strong>Title:</strong> Vice President, Pipeline Marketing &amp; Development</td>
<td></td>
</tr>
<tr>
<td><strong>Phone:</strong> (503) 833-4111</td>
<td></td>
</tr>
<tr>
<td>(713) 371-6611</td>
<td></td>
</tr>
<tr>
<td><strong>Fax:</strong> (503) 833-4913</td>
<td></td>
</tr>
<tr>
<td><strong>e-mail:</strong> <a href="mailto:Peter.Lund@neg.pge.com">Peter.Lund@neg.pge.com</a></td>
<td></td>
</tr>
<tr>
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<td></td>
</tr>
</tbody>
</table>
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801-5884-6867

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P.O. Box 1492
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915-496-3139
strangj@epenergy.com
Appendix D
California Natural Gas Utility Transport Contacts

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**Market Center Traders**
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- Jaime Rincon  (415) 972-5961  jarx@pge.com

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