

EIA, Power  
Marketing  
Liaison  
Office &  
Golden Field  
Office

## **Enron documents from the Energy Information Administration**

1. Memorandum to Heads of all Departmental Elements, Directors, All DOE Laboratories, and All Contractor Facility Site Managers, from Lee Liberman Otis, General Counsel, dated February 5, 2002. 1 page with three enclosures. (F2001-00630)
  - A. DOECASD dated February 3, 2002. Subject: Message from the Attorney General from the General Counsel Concerning Enron Related Documents. 1 page. (F2001-00630)
  - B. Letter to The Honorable Lee Liberman Oits, General Counsel, Department of Energy, from Christopher A. Way, Principal Associate Deputy Attorney General. 2 pages. (F2001-00630)
  - C. Document entitled "Memo for the Record: Hearing on the Effect of the Enron Bankruptcy on the Functioning of Energy Markets." 2 pages. (F2001-00630)
2. Letter to Ms. Mary Hutzler, Director, Office of Integrated Analysis and Forecasting, Energy Information Agency, from Joe Barton, Chairman, Subcommittee on Energy and Air Quality, dated February 11, 2002. 2 pages with one enclosure. (F2001-00630)
  - A. Document entitled "Guidelines for the Electronic Submission of Congressional Testimony." 2 pages. (F2001-00630)
3. Document entitled "Oral Testimony of Mary J. Hutzler, Acting Administrator, Energy Information Administration, Department of Energy, Before the Subcommittee on Energy and Air Quality, Committee on Energy and Commerce, United States House of Representatives, Hearings on the Effect of the Enron Bankruptcy on the Functioning of Energy Markets." 13 pages. (F2001-00630)
4. Document entitled "Subscriptions." 3 pages. (F2001-00630)
5. E-mail to Doug Jones from Claudia Hernandez, dated April 29, 2002. Subject: Henry Hub prices. 1 page. (F2001-00630)
6. E-mail to Infoctr from Sylvia Norris, dated May 9, 2002. Subject: FW: Projected Natural Gas Consumption for Southeastern states. 1 page. (F2001-00630)
7. E-mail to Inoctr from George Breen, dated June 29, 2001. Subject: Heating Oil Capacity. 1 page. (F2001-00630)
8. E-mail to Infoctr from John Grace, dated June 18, 2001. Subject: Fuel Assemblies. 1 page. (F2001-00630)

9. E-mail to Infoctr from Annie Huang, dated June 14, 2001. Subject: Gasoline demand. 1 page. (F2001-00630)
10. E-mail to Infoctr from John Grace, dated June 7, 2001. Subject: RW-859. 1 page (F2001-00630)
11. E-mail to Inoctr from Janice, dated May 18, 2001. Subject: Television/radio station power consumption. 1 page. (F2001-00630)
12. E-mail to Infoctr from Dave Perrino, dated May 3, 2001. Subject: Question. 1 page. (F2001-00630)
13. E-mail to Infoctr from Keith Fraley, dated April 20, 2001. Subject: Substation Data. 1 page. (F2001-00630)
14. E-mail to Infoctr from Adriane, dated February 6, 2001. Subject "Wholesale Electricity." 1 page. (F2001-00630)
15. E-mail to Inforctr from Katie Stower, dated February 2, 2001. Subject: Standard Offer #4 Contracts.
16. Document entitled "Statement of Mary J. Hutzler, Acting Administrator, Energy Information Administration, Department of Energy, Before the Subcommittee on Energy and Air Quality, Committee on Energy and Commerce, United States House of Representatives, Hearing on the Effect of the Enron Bankruptcy on the Functioning of Energy Markets, February 13, 2002. 38 pages. (F2001-00630)
17. Memorandum to Kenneth Vagts, Director, Office of Oil and Gas, from Dorothy Pritchett, Office of Resource Management, dated July 23, 1999. 1 page. (F2001-00630)
  - A. Memorandum to Dorothy Pritchett, Energy Information Administration, from Brenda Washington, FOIA/Privacy Act Division, dated May 4, 1999. 1 page. (F2001-00630)
  - B. Letter to Gayla D. Sessoms, Director, FOIA and Privacy Groups, from Michael O'N. Barron, Attorney At Law, dated April 21, 1999. 2 pages. (F2001-00630)
18. Undated and unsigned draft letter to Michael O'N. Brarron, 1 page. (F2001-006330)
19. Letter to Mr. Michael O'N. Barron from Abel Lopez, Director, FOIA/Privacy Act Division, dated May 4, 1999. 1 page. (F2001-00630)
20. Memorandum to Vera T. Robinson, Headquarters Records Management Branch, Office of Administrative Services, from Robert A. Perrygo, Management Systems Division, Economic Regulatory Administration, and Linda Fletcher-Oliver, Planning & Financial

Management Division, Energy Information Administration, dated June 4, 1993. 1 page with one enclosure. (F2001-00630)

- A. Document entitled "EIA Records to be Transferred to ERA." 1 page. (F2001-00630)
- 21. E-mail to Elizabeth Jenkins from Elizabeth Campbell, dated June 14, 2002. Subject: More on Enron FOIA. 1 page. (F2001-00630)
- 22. E-mail to David Rosenberg from Margaret Natof, dated June 6, 2002. Subject: RE: LNG Imports. Information withheld under Exemption B6. 1 page. (F2001-00630)
- 23. E-mail to David Rosenberg from Margaret Natof, dated May 20, 2002. Subject: RE Undeliverable: Looking for Advice. 1 page with one enclosure. (F2001-00630)
  - A. Document entitled "Natural Gas Division Meets with Members of Enron's Gas Fundamentals Research Group." 1 page. (F2001-00630)
- 24. E-mail to Elizabeth Jenkins from Bart R. Burk, Enron Corporation, Gas Fundamentals Research., dated June 13, 2001. Subject: FW: Meeting in D.C. with EIA. 1 page. (F2001-00630)
- 25. E-mail to Dorothy Pritchett from James Tobin, dated June 12, 2002. Subject: Enron Communications. 1 page. (F2001-00630)
- 26. Undated and untitled document listing names and companies. 6 pages. (F2001-00630)



## Department of Energy

Washington, DC 20585

February 5, 2002

MEMORANDUM FOR HEADS OF ALL DEPARTMENTAL ELEMENTS  
DIRECTORS, ALL DOE LABORATORIES  
ALL CONTRACTOR FACILITY SITE MANAGERS

FROM: LEE LIBERMAN OTIS *LL*  
GENERAL COUNSEL

SUBJECT: Preservation of Records Memorializing  
Communications with Enron Corporation Since  
January 1, 1999

On February 3, 2002, I issued the attached instructions to Department of Energy employees concerning the preservation of certain documents relating to the Enron Corporation.

I am now further conveying those instructions by forwarding a hard copy of my DOECAST to Department of Energy employees as well as a copy of the letter to me on this subject from Christopher A. Wray, Principal Associate Deputy Attorney General.

Recipient laboratory directors and contractor sites and facilities also are to be guided by these instructions, as the text of the DOECAST indicates.

Attachments



**From:** DOECAST  
**Sent:** Sunday, February 03, 2002 10:06 AM  
**Subject:** Message from the General Counsel Concerning Enron Related Documents

The Department of Justice has formally requested, in connection with a criminal investigation that it is conducting of various matters relating to the Enron Corporation, that the Department of Energy "preserv[e] and maintain[]" all materials that "relate in any way to Enron's financial condition and/or business interests, including contacts with its officers, employees, agents or other representatives and any individual acting officially or unofficially, directly or indirectly on behalf of Enron about these matters."

The request covers materials of all kinds from 1999 to the present. This includes documents, electronic records including e-mail messages, computer records and storage devices, notes and memoranda. It also applies whether these materials are in the possession of the Department or whether they are in your personal possession (for example, at home).

Please understand that it is preservation and maintenance of materials that is called for by the Justice letter. That means that no document search as such is now required. What is required, however, is that you take whatever steps are necessary to assure that for the indefinite future any materials that fall within the categories described in Justice's letter are not destroyed or disposed of, even inadvertently, for example as part of a routine deletion of e-mail messages or document disposition policy.

Finally, please note that the request seeks preservation of materials even if the materials otherwise fall outside the kinds of records that federal employees are required to preserve in the ordinary course. Thus if you have any materials that fall into any of these categories, even if they are the kind of material that you would otherwise be free to dispose of, Justice's directive to retain this material governs.

Insofar as this memorandum incorporates instructions to Departmental contractors, please be advised that they are issued on the Secretary's behalf after receiving his authorization to instruct all contractors in the performance of their contracts with the Department. Please take whatever steps are necessary to assure completely effective compliance with this request.

The full text of the Justice letter will be forwarded separately. If you have any questions, please contact me at 202-586-5281, Deputy General Counsel Fygi at 202-586-5284, or Deputy General Counsel for Litigation Marc Johnston at 202-586-8337.



U. S. Department of Justice

Office of the Deputy Attorney General

Associate Deputy Attorney General

Washington, D.C. 20530

February 1, 2002

VIA FACSIMILE

The Honorable Leo Liberman Otis  
General Counsel  
Department of Energy  
1000 Independence Avenue, SW  
Forestal Building  
Room 6A245  
Washington, DC 20585

Dear Ms. Otis:

A Department of Justice task force and the Federal Bureau of Investigation are conducting a criminal investigation of various matters relating to Enron Corporation. We believe that documents in the possession of the Department of Energy, its staff and employees may contain information relevant to our investigation into the financial condition of Enron and statements made by Enron employees and agents relating to its financial condition and business interests.

I am writing to request your assistance in preserving and maintaining for the time period January 1, 1999 to the present, all documents, electronic records and correspondence, computer records and storage devices, notes and memorandum which relate in any way to Enron's financial condition and/or business interests, including contacts with its officers, employees, agents or other representatives and any individual acting officially or unofficially, directly or indirectly on behalf of Enron about these matters. Although federal law imposes broad requirements for preserving documents even apart from the needs of any investigation, in the present circumstances all documents relating to these subjects should be preserved, even if there is a question whether the particular document would be a federal record or even if its destruction might otherwise be permitted.

At this time, we are only requesting that you ensure the retention of these records. We appreciate your cooperation.

B

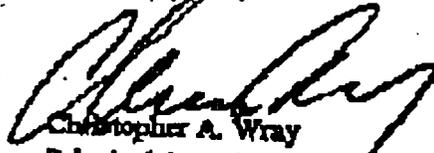
02/01/02 FRI 10:22 FAX

Ms. Otis

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If you have any questions regarding this letter, please contact Joshua R. Hochberg, Chief,  
Fraud Section, Criminal Division, at (202) 514-7023.

Sincerely yours,



Christopher A. Wray  
Principal Associate Deputy Attorney General

**MEMO FOR THE RECORD: HEARING ON THE EFFECT OF THE ENRON BANKRUPTCY ON THE  
FUNCTIONING OF ENERGY MARKETS**

**SUBJ: Testimony Preparation for Mary's February 13, 2002 Hearing before  
the Subcommittee on Energy and Air Quality**

Monday, February 11, 2002

Steve informed me that Mary had been invited to testify but he wasn't sure which committee, to check with Scott Sitzer, who would be preparing the Testimony.

I contacted Barbara Barnes in Congressional Affairs, to see if she had received a copy of the "Letter of Invitation", and she told me that she had not received one, and asked if I could provide her one and also needed to she could expect a copy of the Testimony.

Scott Sitzer informed me, that a copy of the testimony would be submitted to Congressional Affairs by mid-afternoon on Tuesday.

@1:26 pm, sent Scott an e-mail, with a cc: to You, Steve, Joceline and Larry, informing him that a copy of the Testimony should be submitted electronically, in Microsoft Word to Barbara Barnes, the Congressional Affairs contact, and a hardcopy with EIA concurrences, provided to me, and that I would forward it to Congressional Affairs. I also informed him of Congressional Affairs procedures for sending out the Testimony and requesting responses, from other the DOE offices, the Secretary and OMB.

Tuesday, February 12, 2002

@11:50 am, I spoke with the supervisor in the printing office informing him that I would be submitting an urgent print request for 175 copies, for an EIA February 13, Hearing scheduled at 1:30 pm. He informed me to send the request electronically as early as possible, on Wednesday morning, and he would have them ready between 10:00-10:30.

@ 1:50 pm, I received a call from Barbara Barnes requesting the status of the Testimony and wanted to know when could she expect to receive it, because we were pushing it close and the testimony had to go to Secretary and OMB.

@1:52 pm, sent e-mail to Scott requesting the status.

@ 2:13 pm, received e-mail from Joceline informing me that the draft had been sent to Michael Watley and Ellis Dish, in Congressional Affairs.

@ 2:16 pm, contacted Barbara to inform her that the testimony had been forwarded to Michael and Ellis, and I was informed that she had received a copy from Ellis and had sent it out to the other DOE Offices for comments/concur, and the responses were due back at 3:30. I e-mailed my conversation with Barbara, to you, Steve, Joceline, and Larry.

@ 2:22 pm, receive an e-mail from Scott informing me that Mary was working directly with Whatley of CI, because of the tight deadline and they should check with him.

@ 2:30 pm, Barbara provided me with comments/concurrences from GC, I checked with Joceline to see if they should be provided to her, she requested that I provide them to Scott, he agreed to make the changes.

@ 3:50 pm, received call from Barbara, asking if GC changes would be expected, if so, would he provide her with a clean copy to be forwarded to the Secretary's office for comments/concur.

@ 3:55 pm informed Scott of Barbara's request to be provided with a version of the Testimony with GC's comments incorporated. Scott informed me that the GC comments included a misspelled word and that they had a question, which he would respond to, but because of the short turn around, he suggest to have her send out the copy, that she received from Ellis in Congressional Affairs, to the e Secretary for review.

since the change was a question to required clarification, she could go ahead and send the copy of the testimony, which Ellis provided to her.

@5:00 pm, before leaving the office, I checked to see if Congressional Affairs had received the other DOE offices, and was informed that they were still waiting for the other responses.

I informed Joceline that I would be leaving early and I was planning to arrive early the next morning, to make sure the comments/concurrences from the other DOE offices, had been received/concurred and prepare the Testimony for printing.

I left the office that evening planning to arrive early the next morning, make sure the comments/concur were received from the other DOE offices, get them incorporated into the Testimony and then submit the print request via e-mail, as instructed by the Printing Office.

### Wednesday, February 13, 2002

When I arrived at 8:00 am, I informed Joceline that I was in the office. Around 8:15, I received a call from Joceline, requesting me to come to the front office to help her unstapled the copies of the Testimony printed prior evening and replace the graphs with colored graphs. She explained to me that Barbara Barnes contacted her and requested her to make 80 copies, to be provided to the Committee Members, and she would stay late and wait for them. Sharon Sutton was completing the copying, when Barbara Barnes called back and informed her that she was leaving for the day, and she would pick them up by 8:00 am the next morning. It is my understanding that Sharon Sutton informed Mary, that the 80 copies had been completed and Barbara Barnes would pick them up the next morning.

I informed Joceline of every action that was taken with Barbara Barnes and Scott, . I explain the congressional procedures and the process required for requesting copies of the Testimony, according to the instructions outlined in Dorothy's SOP and those provided to me from Barbara.

### Conclusion

I think because of the tight deadline, Mary and Scott worked directly with Michael Whatley in Congressional Affairs, and some how I was not included in the loop. So there were actions that should have come to ORM, which did not.

If I had none the comments/concurs would have been received from the other DOE offices, later that evening, I would have cancelled and rescheduled my doctor's appointment.

02-11-02 01:23 From  
Feb 11 02 02:16pm From

T-511 P.002/004 F-616

CHAS. BELLINO, FLORIDA  
MI. BARTON, TEXAS  
BO. LIPSON, MICHIGAN  
JFF. STEVENS, FLORIDA  
WIL. E. GILBERT, OREGON  
LANCE E. GREENWOOD, PENNSYLVANIA  
CHRISTOPHER COLE, CALIFORNIA  
ATHAN BEAL, GEORGIA  
TERRY LANDRY, OKLAHOMA  
OSWALD BLAIR, NORTH CAROLINA  
D. WESTFELT, KENTUCKY  
REG. GONZALEZ, IDAHO  
HARLAN HENRIWOOD, GEORGIA  
DANN SPENCER, ILLINOIS  
SANTOR WILSON, NEW MEXICO  
DAN B. SHARON, ARIZONA  
HAROLD "BOB" PICKENS, MISSISSIPPI  
BOB FORBES, NEW YORK  
BOB BENTLEY, MISSOURI  
D. BENTLEY, TENNESSEE  
DANNY L. RICHMOND, ARIZONA  
TERRY BLAYER, ARIZONA  
ANDREW PAZDANOVICH, CALIFORNIA  
HARLES F. BASS, NEW HAMPSHIRE  
JOSEPH R. PITTS, PENNSYLVANIA  
LARRY SCHULZ, CALIFORNIA  
REG. WALDEN, OREGON  
LE TERRY, NEBRASKA

ONE HUNDRED SEVENTH CONGRESS

**U.S. House of Representatives**  
**Committee on Energy and Commerce**  
**Washington, DC 20515-6115**

**W.J. "BILLY" TAUZIN, LOUISIANA,**  
**CHAIRMAN**

**February 11, 2002**

JOHN D. DINGELL, MICHIGAN  
HENRY A. WAXMANN, CALIFORNIA  
EDWARD J. MARKEY, MASSACHUSETTS  
RALPH M. HALL, TEXAS  
BOB ROACH, VIRGINIA  
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ANNA G. ESCOB, CALIFORNIA  
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CHRISTOPHER JOHN, LOUISIANA  
JANE HARRMAN, CALIFORNIA

DAVID V. MARVENTANO, STAFF DIRECTOR

**Ms. Mary Hutzler**  
**Director**  
**Office of Integrated Analysis**  
**and Forecasting**  
**Energy Information Agency**  
**Department of Energy**  
**1000 Independence Avenue, SW**  
**Washington, DC 20585**

**Dear Ms. Hutzler:**

I am writing to confirm the invitation for you to testify before the Subcommittee on Energy and Air Quality on Wednesday, February 11, at 1:30 p.m. or one half hour after the completion of the Commerce, Trade and Consumer Protection Subcommittee hearing in 2322 Rayburn House Office Building. The hearing will be entitled: "The Effect of the Enron Bankruptcy on the Functioning of Energy Markets." This hearing will focus on competitive energy markets and the collapse of one of the largest energy marketers in the world. Specifically, did Enron's demise harm or disrupt competitive energy markets, and what are the short and long term effects on energy prices and supplies. In addition, the Subcommittee welcomes any legislative recommendations you may have regarding issues such as transparency and information disclosure in competitive energy markets.

Following are important details concerning the preparation and presentation of your testimony.

**The Form of Your Testimony.** You are requested to submit a written statement which may be of any reasonable length and may contain supplemental materials; however, please be aware that the Committee cannot guarantee that supplemental material will be included in the printed hearing record. Your written statement should be typed, double spaced, and should include a one-page summary of the major points you wish to make. You will have an opportunity to present an oral summary of your testimony to the Subcommittee; to ensure sufficient time for Members to ask questions, your oral presentation should be limited to five minutes.

Pursuant to Rule 4(b)(1) of the Rules of the Energy and Commerce Committee (a copy of which is enclosed), I am requesting you to provide 75 copies of your written statement at least two working days in advance of your appearance. This will allow Members and staff the opportunity to review your testimony. On the day of the hearing, please bring an additional 75 copies of your testimony to satisfy the anticipated public interest in this hearing.

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Ms. Mary Hutzler  
Page 2

Rule 4(b)(1) of the Committee Rules also requires that, if you have the technological capability, you should also submit a copy of your testimony in electronic format, i.e., on a computer disk. The Committee will post your testimony to the Committee Website (at "<http://www.house.gov/commerce/welcome.html>") after the hearing. This will increase public access to your testimony and reduce the Committee's printing costs. Please be aware that submission of your testimony in electronic form does not relieve you of the obligation to submit the requested number of printed copies of your testimony. Additional guidelines for submission of testimony in electronic format are enclosed.

Please send the electronic and printed copies of your testimony required two working days before the hearing to the attention of the Legislative Clerk for the Committee on Energy and Commerce in 2125 Rayburn House Office Building, Washington, D.C. 20515.

**Publication of the Hearing Record.** Rule XI, clause 2(e)(1)(A) of the Rules of the House requires the Committee to keep a written record of committee hearings which is a substantially verbatim account of remarks made during the proceedings, subject only to technical, grammatical, and typographical corrections. Your testimony, the transcript of the hearing, and any other material that the Subcommittee agrees to include in the hearing record (subject to space limitations) will be printed as a record of the hearing. You will receive a copy of the printed hearing record when it becomes available, usually 30 to 60 days after the date of the hearing.

If you have any questions concerning any aspect of your testimony, please contact Jason Bentley of the Energy and Commerce Committee staff at (202) 225-2927.

Sincerely,



Joe Barton

Chairman

Subcommittee on Energy and Air Quality

Enclosures: (1) Electronic Format Guidelines  
(2) Rules for the Committee on Energy and Commerce

## *Guidelines for the Electronic Submission of Congressional Testimony*

The Rules of the House Energy and Commerce Committee require each witness, to the greatest extent practicable, to submit a copy of their testimony in an electronic format prescribed by the Chairman. Testimony submitted in electronic form will be used to produce the printed hearing record, and also may be converted to HTML or Adobe Portable Document Format and posted after the hearing to the Committee on Energy and Commerce website at <http://www.house.gov/commerce/welcome.html>. Your compliance with this requirement will facilitate the distribution of your testimony, and help the Committee to minimize the costs of printing the hearing record.

Materials submitted to the Committee for electronic publication must be formatted in one of the formats listed below.

### 1. Windows Environment

- a. 3.5 disk DOS/Windows format disk, either 720k or 1.44MB format
- b. The following file formats will be accepted:
  - 1) Word 7.0 or earlier;
  - 2) WordPerfect 6.1 or earlier; and
  - 3) ASCII or ANSI text files.

### 2. Macintosh Environment

- a. 3.5 inch Macintosh high-density format disk
- b. The following file formats will be accepted:
  - 1) Word 6 or earlier;
  - 2) WordPerfect 3.5 or earlier; and
  - 3) Macintosh text file.

Please label your disk with the following information: 1) Witness Name; 2) Witness Organization; and 3) Name and Date of Hearing; and 4) the file format used.

In addition to submitting testimony in the two formats listed above, witnesses may also submit a second copy of their testimony in Hypertext Markup Language (HTML) or Adobe Portable Document Format. Testimony submitted in HTML may not include external hypertext links in the testimony.

The submission of testimony in HTML format does not relieve the witness of their obligation to submit a copy of their testimony in one of the Windows or Macintosh formats, or to submit written testimony as prescribed in the letter of invitation.

**ORAL TESTIMONY OF**  
**MARY J. HUTZLER**  
**ACTING ADMINISTRATOR**  
**ENERGY INFORMATION ADMINISTRATION**  
**DEPARTMENT OF ENERGY**  
  
**before the**  
**SUBCOMMITTEE ON ENERGY AND AIR QUALITY**  
**COMMITTEE ON ENERGY AND COMMERCE**  
**UNITED STATES HOUSE OF REPRESENTATIVES**  
**HEARING ON THE EFFECT OF THE ENRON BANKRUPTCY**  
**ON THE FUNCTIONING OF ENERGY MARKETS**

**February 13, 2002**

Mr. Chairman and Members of the Subcommittee:

I appreciate the opportunity to appear before you today to discuss current and future electricity and natural gas prices and supplies in the United States, in light of the recent Enron situation.

The Energy Information Administration (EIA) is an autonomous statistical and analytical agency within the Department of Energy. We are charged with providing objective, timely, and relevant data, analysis, and projections for the use of the Administration, the Congress, and the public.

The projections in this testimony are from our *Short-Term Energy Outlook*, released this month, and the *Annual Energy Outlook 2002*, released late last year.

Energy markets, with particular emphasis on electricity and natural gas, have experienced considerable turmoil over the past two years. These markets, however, have emerged into a period of relative calm.

★ Chart 1: Electricity Spot Prices

Most of the volatility in electricity markets occurred on the West Coast, particularly in California and in the

Pacific Northwest as you can see from this chart. Many of the conditions that contributed to the electricity market squeeze in California are no longer present.

Unfortunately, one of the contributors to lower electricity market volatility is the significant slowdown in the U.S. economy in 2001, particularly due to the dramatic decline in industrial output which is still pervading the economy.

Despite the volatility in some spot electricity markets, most retail electricity customers have seen only slight increases in delivered electricity costs, because, at the retail level, electricity prices are still regulated in many States. Some States (particularly California) have seen large changes in delivered electricity prices, but, for most

areas, retail price changes have been relatively small over the last two years.

Some of the pressure on electricity prices in 2000 and early 2001 were related to fuel costs and the availability of adequate generating capacity. Throughout 2000, natural gas spot prices were rising steadily because of strong demand and stagnant or declining productive capacity. The economy was expanding rapidly and incremental natural gas demand requirements were outstripping the capacity to produce new supplies.

Natural gas inventories fell steadily to very low levels at the beginning of the 2000-2001 heating season, setting the

stage for significant increases in natural gas costs to end-use customers. Oil prices were also well above typical levels because of the tight condition of world oil markets. The reduction in hydroelectric resources in 2000 due to weather factors served to tighten electricity markets by removing an important component of electricity supply adding to the increased demand for natural gas generation. In late 2000, very cold temperatures moved heating energy use to well above normal levels. This squeeze on natural gas markets resulted in a dramatic runup in natural gas prices which sent fuel costs soaring.

Since last winter, the onset of the economic slow down

and relatively mild weather has reduced demand and changed the cost/price environment for electricity and other energy sources. Average U.S. natural gas spot prices are currently between one fourth and one fifth the level seen at the height of the runup last winter and oil prices are noticeably lower. Electricity spot prices are generally between \$18 and \$24 per megawatt-hour compared to \$40 to \$50 in the South and East and to \$400 to \$500 on the West Coast during mid January 2001.

Average energy prices are expected to remain close to current levels and current supplies are relatively high for most fuels, particularly natural gas.

★ Chart 2 Electricity Prices vs. Enron Stock Price

We have examined electricity and natural gas price data since the fourth quarter of last year and compared them to Enron's stock prices. As this chart shows, we see no correlation between spot market prices for electricity and the path of Enron's stock price. Between October 2001 and February 2002, wholesale electricity prices from the Middle Atlantic, New York, New England, and California displayed relative stability at the same time that Enron's stock value was plummeting from nearly \$37 a share in October to less than a dollar a share six weeks later. In terms of electricity, Enron was a small contributor in

2000, accounting for less than one percent of total retail electricity sales, total generating capacity, and total electricity generation.

Similarly, the Henry Hub spot natural gas price, while a little more volatile than electricity prices, showed no sign of being affected by the Enron problems during this same period. While Enron had as much as a 10% interest in interstate pipeline capacity, this capacity, of which the largest pipeline has been sold, is operating and is expecting to operate regardless of future ownership. Both electricity and natural gas markets appear to have shrugged off the Enron situation with little or no

discernible market impacts.

In the short term, little change is expected for electricity prices. For 2002, an average decline in residential electricity prices of 1.6 percent is expected. A modest increase of about 0.5 percent is anticipated for 2003 as fuel costs increase moderately and as aggregate electricity demand increase. In the longer term, electricity prices are expected to decline about 0.2 percent annually from 2000 through 2020, as more competition and lower coal prices to electricity generators offset somewhat higher natural gas prices.

★ Chart 3 Natural Gas Prices

Spot wellhead prices are currently averaging around \$2.00-\$2.20 per million Btu, or about one-quarter of what they were in January of last year when prices at the wellhead reached record levels. Very mild weather during the fourth quarter of last year through January of this year has reduced heating demand considerably. The low heating demand, a weak economy, and high storage levels for natural gas should result in natural gas well head prices about \$1.85 per thousand cubic feet for 2002 increasing to nearly \$2.40 per thousand cubic feet in 2003 as the economy grows and world oil prices rise. Natural

gas prices at the wellhead are expected to rise from their current levels, reaching \$3.26 per thousand cubic feet by 2020 in real 2000 dollars.

In summary, it appears that the factors responsible for the very volatile and high electricity prices on the West Coast, and the spike and subsequent collapse in natural gas prices nationwide, stemmed from numerous economic and non-economic developments that are not obviously related to Enron's market activity. Enron, while a large and well-known player among energy trading entities in the United States, was one among many existing and potential new players in electricity and natural gas markets. The

existing array of market participants should be able to interact effectively to ensure a normal, competitive market balance in the future. There is nothing in what has occurred in energy markets since the failure of Enron that would suggest otherwise as far as the aggregate energy market data is concerned.

Thank you, Mr. Chairman and members of the Subcommittee. I will be happy to answer any questions you may have.

## SUBSCRIPTIONS

6/13/2002

Last	First	Organization	City	State	Title
SAUNDERS	SHERRIE	ENRON GAS L	HOUSTON	TX	PETROLEUM SUPPLY ANNUAL
FRAZIER	PERRY	ENRON CORP	HOUSTON	TX	ENERGY INFORMATION DIRECTORY
STROUT	CHARLENE	C/O ENRON	HOUSTON	TX	PETROLEUM SUPPLY MONTHLY
STOKES	CHRISTINE	ENRON TRAN	HOUSTON	TX	ENERGY INFORMATION DIRECTORY
STOKES	CHRISTINE	ENRON TRAN	HOUSTON	TX	NATURAL GAS: ISSUES AND TRENDS
QUASHIGAH	MOSES	ENRON PETR	HOUSTON	TX	PETROLEUM SUPPLY MONTHLY
QUASHIGAH	MOSES	ENRON PETR	HOUSTON	TX	PETROLEUM MARKETING MONTHLY
WOODHAM	DOUG	ENRON	HOUSTON	TX	NATURAL GAS: ISSUES AND TRENDS
ROBERTS	MIKE	ENRON	HOUSTON	TX	NATURAL GAS MONTHLY
HOWELL	SARAH	AMOCO/ENRO	FREDERICK	MD	RENEWABLE ENERGY
OREN	JOSH	ENRON	HOUSTON	TX	INTERNATIONAL ENERGY ANNUAL
OREN	JOSH	ENRON	HOUSTON	TX	INTERNATIONAL ENERGY OUTLOOK
BUSSAN	JEFF	ENRON	HOUSTON	TX	NATURAL GAS MONTHLY
HARTSOE	JOSEPH	ENRON CORP	WASHINGTON	DC	ENERGY INFORMATION DIRECTORY
Segner	Sharon	Enron Capitol a	Houston	TX	MONTHLY ENERGY REVIEW
Segner	Sharon	Enron Capitol a	Houston	TX	ELECTRIC POWER MONTHLY
MUENCH	GAYLE	ENRON	HOUSTON	TX	NATURAL GAS MONTHLY
MUENCH	GAYLE	ENRON	HOUSTON	TX	NATURAL GAS ANNUAL
MUENCH	GAYLE	ENRON	HOUSTON	TX	ELECTRIC POWER MONTHLY
MUENCH	GAYLE	ENRON	HOUSTON	TX	ELECTRIC POWER ANNUAL
Rose	Mary	Enron Capital a	Houston	TX	ENERGY INFORMATION DIRECTORY
GREENELL	GERI	ENRON CAPIT	CALGARY, AL		ANNUAL ENERGY OUTLOOK
JOHNSON	MATTHEW	ENRON CORP	HOUSTON	TX	FINANCIAL STATISTICS OF SELECTED ELECTRIC U
BRADY	ROBERT	ENRON CORP	HOUSTON	TX	ANNUAL ENERGY REVIEW
WIMBERLEY	SUSAN	ENRON	HOUSTON	TX	U.S. CRUDE OIL NATURAL GAS AND NATURAL GAS
GOMEZ	JULIA	ENRON	HOUSTON	TX	NATURAL GAS MONTHLY

**Single Issues**

BRADLEY	ROBERT	ENRON CORP	PO BOX 1188, SUITE 4736D	HOUSTON	TX	ANALYSIS OF STRATEGIES FOR REDUCING MULTIPLE EMMISSIONS FROM POWER PLANTS
BURK	BART	ENRON AMERICA S	1400 SMITH ST, EB- 3237C	HOUSTON	TX	INTERNATIONAL ENERGY OUTLOOK 2000
STRAM	BRUCE	ENRON	1400 SMITH STREET EB823	HOUSTON	TX	ANALYSIS OF STRATEGIES FOR REDUCING MULTIPLE EMMISSIONS FROM POWER PLANTS
STRAM	BRUCE	ENRON	1400 SMITH STREET EB823	HOUSTON	TX	ANALYSIS OF STRATEGIES FOR REDUCING MULTIPLE EMMISSIONS FROM POWER PLANTS - APPENDIXES A-E

SubID	First	Idc	Last	Organization Level	Organization Level 2	Street	City	State
300482	RICHARD	E	EYLER	ENRON CORP		PO BOX 1188	HOUSTON	TX
323618	LOU		PAI	ENRON CORP	ROOM 3090	PO BOX 1188	HOUSTON	TX
327491	JOE		HIRL	ENRON GAS SERVICES	1400 SMITH ST	PO BOX 1188	HOUSTON	TX
327729	KEN		NELSON	ENRON GAS MARKETING INC		1400 SMITH ST	HOUSTON	TX
329765	STEWART	L	SEELIGSON	ENRON		1400 SMITH ST	HOUSTON	TX
330545	RITA		HARTFIELD	ENRON		PO BOX 1188 RM 4328	HOUSTON	TX
758828	Jessica		Landis	Enron Capital & Trade Resources Inc		1400 Smith St, EB-3382	Houston	TX
759127	ART		MIKHLIN	ENRON CAPITAL AND TRADE		1400 SMITH	HOUSTON	TX
759567	TRACY		KRUGER	ENRON CORP		1400 SMITH	HOUSTON	TX
760687	FIONA		GRANT	ENRON - EUROPE		4 MILLBANK	LONDON, ENGLAND	
760734	ALLEN		WOLF	ENRON		101 CALIFORNIA STREET - STE.3170	SAN FRANCISCO	CA
761384	Michael	F	Rabinovitch	Enron Capital and Trade Resources		1400 Smith St.	Houston	TX
762774	Marc	x	de La Roche	Enron Corp.		1400 Smith	Houston	TX
764482	ROBERT		REILLEY	ENRON CORPORATION		6105 TWIN LEDGE COVE, SUITE 1500	AUSTIN	TX
765511	DESIREE		SAYLE	ENRON CORP		750 17TH STREET NW; 4TH FLR	WASHINGTON	DC
765599	David		Wilson	ENRON			London	
765727	SAM		WEHN	ENRON		1400 SMITH ST. 3122 C	HOUSTON	TX
766498	ANJAM		AHMAD	ENRON CORP. EB3001D		1400 SMITH ST., P.O. BOX 1188	HOUSTON	TX
766664	JOE		MATHEW	ENRON CORP		1400 SMITH STREET; 31ST FLR-3118A	HOUSTON	TX

**Jeffers, William**

---

**From:** Hernandez, Claudia  
**Sent:** Monday, April 29, 2002 2:12 PM  
**To:** 'doug.jones@enron.com'  
**Cc:** Colletti, Mary Caroline  
**Subject:** Henry Hub prices

Doug,

Attached are two Excel spreadsheets which contain historical daily and weekly Henry Hub data as far back as EIA has collected the data.



Henry Hub  
Weekly.xls



Henry Hub Daily.xls

Claudia Hernandez  
claudia.hernandez@eia.doe.gov  
(202) 586-8800

**Jeffers, William**

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**From:** Norris, Sylvia  
**Sent:** Thursday, May 09, 2002 2:52 PM  
**To:** InfoCtr  
**Cc:** 'Jason.Thompkins@ENRON.com'  
**Subject:** FW: Projected Natural Gas Consumption for Southeastern states

Good Evening,

spoke with Mr. Thompkins today, and he still needs help finding projected data. Thank you.

---

*Sylvia A. R. Norris*  
*Natural Gas Analyst*  
*Natural Gas Survey Mgmt. Team*  
202) 586-6106  
202) 586-4420 - fax  
sylvia.norris@eia.doe.gov

-----Original Message-----  
**rom:** Thompkins, Jason [mailto:Jason.Thompkins@ENRON.com]  
**ent:** Tuesday, April 23, 2002 11:43 AM  
**o:** sylvia.norris@eia.doe.gov  
**ubject:** Projected Natural Gas Consumption for Southeastern states

Sylvia,  
found your name listed in the Natural Gas Annual report and am wondering if you can help me find the following consumption information or perhaps give me a clue as to where I might find it. I am hoping to find projected natural gas consumption figures for the following Southeastern states through 2006 (Texas, Oklahoma, Arkansas, Louisiana, Mississippi, Alabama, Tennessee, Kentucky, Florida, Georgia, South Carolina, North Carolina, Virginia, West Virginia, Maryland). I'm not sure if this information is readily available. Do you think there is somewhere I can find it?

Thanks,  
Jason Thompkins  
(13) 853 4766

\*\*\*\*\*  
This e-mail is the property of Enron Corp. and/or its relevant affiliate and may contain confidential and privileged material for the sole use of the intended recipient (s). Any review, use, distribution or disclosure by others is strictly prohibited. If you are not the intended recipient (or authorized to receive for the recipient), please contact the sender or reply to Enron Corp. at enron.messaging.administration@enron.com and delete all copies of the message. This e-mail (and any attachments hereto) are not intended to be an offer (or an acceptance) and do not create or evidence a binding and enforceable contract between Enron Corp. (or any of its affiliates) and the intended recipient or any other party, and may not be relied on by anyone as the basis of a contract by estoppel or otherwise. Thank you.

## InfoCtr

---

**From:** Breen, George [george.breen@ENRON.com]  
**Sent:** Friday, June 29, 2001 3:04 PM  
**To:** Infoctr@eia.doe.gov  
**Subject:** Heating Oil Capacity

Hello,

My name is George Breen, and I am a college intern. I am presently working on a project that requires me to map the heating oil capacity by state. I have thus far been unable to attain this information and was wondering if you could help me out. Thanks a lot.

George E. Breen III  
Enron Global Markets  
Summer Analyst  
713-345-2882

## InfoCtr

---

**From:** Grace, John [John.Grace@ENRON.com]  
**Sent:** Monday, June 18, 2001 1:58 PM  
**To:** infoctr@eia.doe.gov  
**Subject:** Fuel Assemblies

Do you have any data on the

1. cost
2. amount of uranium

for fuel assemblies in bwr and pwr's?

**InfoCtr**

---

**From:** Huang, Annie [annie.huang@enron.com]  
**Sent:** Thursday, June 14, 2001 12:03 PM  
**To:** infoctr@eia.doe.gov  
**Subject:** Gasoline demand

Hi,  
I was wondering if the EIA keeps stats on daily gasoline demand in the US, specifically by city.  
Thanks,  
Annie Huang  
713-853-0983

## InfoCtr

---

**From:** Grace, John [John.Grace@ENRON.com]  
**Sent:** Thursday, June 07, 2001 11:39 AM  
**To:** infoctr@eia.doe.gov  
**Subject:** Rw-859

I am looking for a document called RW-859, it is the source listed for some data that I have and I am trying to reconcile it with some NRC data that I have. Could you tell me where I can locate this?

John Grace

## InfoCtr

---

**From:** Janice Avery [javery@enron.com]  
**Sent:** Friday, May 18, 2001 12:31 PM  
**To:** Infoctr@eia.doe.gov  
**Subject:** Television/radio station power consumption

Do you have any data regarding the power consumption for the broadcast industry. I am analyzing the market and have been unable to find any data. It would be useful if I could identify the usage for an average station

Thanks

## InfoCtr

---

**From:** Dave.Perrino@enron.com  
**Sent:** Thursday, May 03, 2001 1:40 PM  
**To:** infoctr@eia.doe.gov  
**Subject:** Question

Can you tell me where I can find the most recent load data (annual preferred) for the WSCC region?

Kind Regards,

Dave

## InfoCtr

---

**From:** Fraley, Keith [Keith.Fraley@ENRON.com]  
**Sent:** Friday, April 20, 2001 11:44 AM  
**To:** Infoctr@eia.doe.gov  
**Subject:** Substation Data

Hello,

My name is Keith Fraley and I work for Enron Corporation in Houston, Texas.

I am interested in getting a hold of spreadsheet that might list all the of the Power Substations in the US greater than or equal to 69kV.

Could somewhere there direct me in the right direction to obtain this list?

Thanks,

Keith Fraley  
kfraley@enron.com  
713.853.0529

## InfoCtr

---

**From:** Adriane.Moratto@enron.com  
**Sent:** Tuesday, February 06, 2001 11:35 AM  
**To:** infoctr@eia.doe.gov  
**Subject:** Wholesale Electricity

There is a particular file that I am interested in.  
[www.eia.doe.gov/cneaf/electricit5y/utility/wholesale.txt](http://www.eia.doe.gov/cneaf/electricit5y/utility/wholesale.txt) Do you have a  
cleaner version that would download to excel easier?

thanks,  
Adriane Moratto

## InfoCtr

---

**From:** Stowers, Katie [Katie.Stowers@ENRON.com]  
**Sent:** Friday, February 02, 2001 5:48 PM  
**To:** Infoctr@eia.doe.gov  
**Subject:** Standard Offer #4 Contracts

Can you give me a fairly detailed description of Standard Offer #4 Contracts in the electricity market? What are their distinguishing characteristics? I am particularly interested in Standard Offer #4 Contracts in California.

Thanks,  
Katie

**STATEMENT OF**  
**MARY J. HUTZLER**  
**ACTING ADMINISTRATOR**  
**ENERGY INFORMATION ADMINISTRATION**  
**DEPARTMENT OF ENERGY**  
  
**before the**  
**SUBCOMMITTEE ON ENERGY AND AIR QUALITY**  
**COMMITTEE ON ENERGY AND COMMERCE**  
**UNITED STATES HOUSE OF REPRESENTATIVES**  
  
**HEARING ON THE EFFECT OF THE ENRON BANKRUPTCY ON THE**  
**FUNCTIONING OF ENERGY MARKETS**

**February 13, 2002**

## Summary of Major Points

Energy markets have experienced considerable turmoil over the past two years, with electricity price spikes and supply shortages in California, volatility in natural gas prices, and, more recently, the collapse of a major energy trader, the Enron Corporation. While it is likely that volatile natural gas prices played a role in raising wholesale electricity prices in California, it is unlikely that the Enron situation has had a major impact on energy markets, or that the outlook for electricity and natural gas supply, demand, and prices will be materially affected by Enron's problems.

An examination of electricity and natural gas price data since the fourth quarter of last year indicates no correlation between spot market prices for the two commodities and the path of Enron's stock price. Between October of 2001 and February of 2002, several measures of wholesale electricity prices from around the country (including those from the Middle Atlantic, New York, New England, and California spot markets) displayed relative stability at the same time that Enron's stock value was plummeting from nearly \$37 a share in October to less than a dollar a share scarcely six weeks later. Similarly, the Henry Hub spot natural gas price, while a little more volatile than electricity prices, showed no sign of being affected by the Enron problems during this same period. Both electricity and natural gas markets appear to have shrugged off the Enron situation with little or no discernible market impacts.

In the short term, little change is expected for electricity prices. For 2002, an average decline in residential electricity prices of 1.6 percent is expected. A modest increase of about 0.5 percent is

anticipated for 2003 as fuel costs increase moderately and as aggregate electricity demand begins to rise. After the large increases of the last two years, natural gas prices at the wellhead are expected to decline to about \$1.85 per thousand cubic feet in 2002, then, as economic growth accelerates and as world oil prices rise, increase to nearly \$2.40 in 2003.

In the longer term, electricity prices are expected to decline about 0.2 percent annually from 2000 through 2020, as more competition and lower coal prices to electricity generators offset somewhat higher natural gas prices. Natural gas prices at the wellhead are expected to rise from their current levels, reaching \$3.26 per thousand cubic feet (real 2000 dollars) by 2020.

It is not clear at this point to what extent the Enron situation will affect the announced plans of States to move their electricity markets toward competitive restructuring. Clearly, the large price increases seen in California during the second half of 2000 had a chilling impact on the trend toward deregulation. There have been no recent announcements of new State-level restructuring initiatives. On the other hand, with the return to stability in the California electricity market, as well as in national natural gas markets, there have been only a few decisions to delay or reverse the announcements already made. No clear trend concerning Enron's impact on electricity prices are discernible, implying that the effects will be small at best.

**Mr. Chairman and Members of the Subcommittee:**

I appreciate the opportunity to appear before you today to discuss current and future electricity and natural gas prices and supplies in the United States, in light of the recent Enron situation.

The Energy Information Administration (EIA) is an autonomous statistical and analytical agency within the Department of Energy. We are charged with providing objective, timely, and relevant data, analysis, and projections for the use of the Department of Energy, other Government agencies, the U.S. Congress, and the public. We do not take positions on policy issues, but we do produce data and analysis reports that are meant to help policy makers determine energy policy. Because we have an element of statutory independence with respect to the analyses that we publish, our views are strictly those of EIA. We do not speak for the Department, nor for any particular point of view with respect to energy policy, and our views should not be construed as representing those of the Department or the Administration. However, EIA's baseline projections on energy trends are widely used by Government agencies, the private sector, and academia for their own energy analyses.

The Subcommittee has requested information about current and future electricity and natural gas prices and supplies in light of the Enron situation. EIA collects and interprets data on the current energy situation, and produces both short-term and long-term energy projections. The projections in this testimony are from our *Short-Term Energy Outlook, February 2002*, and the *Annual Energy Outlook 2002*, released late last year. The *Short-Term Energy Outlook* provides quarterly

projections of energy markets through 2003, while the *Annual Energy Outlook* provides projections and analysis of domestic energy consumption, supply, and prices through 2020. These projections are not meant to be exact predictions of the future, but represent a likely energy future, given technological and demographic trends, current laws and regulations, and consumer behavior as derived from known data. EIA recognizes that projections of energy markets are highly uncertain and subject to many random events that cannot be foreseen, such as weather, political disruptions, strikes, and technological breakthroughs. In addition, both short- and long-term trends in technology development, demographics, economic growth, and energy resources may evolve along a different path than assumed in the *Short-Term Energy Outlook* and the *Annual Energy Outlook*. Many of these uncertainties are explored through alternative cases with a range of assumptions concerning world oil prices and weather in the *Short-Term Energy Outlook*, and world oil prices, economic growth, and, technology in the *Annual Energy Outlook*. My testimony today will present our reference case projections, which represent current policies and trends, and are not expected to be affected by the situation surrounding the collapse of Enron Corporation.

Enron Corporation declared bankruptcy in December 2001. Our mid-term projections, which were published the same month, incorporated the most recent events in energy markets as possible, but most of our analysis was completed by the end of September 2001. At that time, the problems of Enron had not yet been made public, and were not foreseen by most energy analysts. It is our view, however, that the mid-term outlook for energy markets is not materially

affected by this situation, which is essentially confined to the shareholders and employees of Enron.

## **The Current Situation and the Short-Term Outlook**

### **Overview**

Energy markets, with particular emphasis on electricity and natural gas, have experienced a great deal of volatility over the past two years. For electricity, the most dramatic ups and downs have occurred on the West Coast, particularly in California. Natural gas market changes over that period have been broader in scope and have been felt strongly across the country, although the highest price increases were in California. In general, it appears that the factors that are responsible for the very volatile and high electricity prices on the West Coast, and the spike and subsequent collapse in natural gas prices nationwide, stemmed from numerous economic and non-economic developments (some years in the making) that are not obviously related to Enron's market activity. Furthermore, these developments appear to be resolving toward a general result that would be obtained with or without the continued existence of Enron. Enron, while a large and well-known player among energy trading entities in the United States, was one among many existing and potential new players in electricity and natural gas markets. The existing array of market participants (producers, traders, marketers, distributors, consumers) should be able to interact effectively to ensure a normal (competitive) market balance in the future. The

projections in this testimony are based on that premise, and there is nothing in what has occurred in energy markets since the failure of Enron that would suggest otherwise.

### Electricity

Electricity markets in the United States emerged, in mid to late 2001, from a period of significant turmoil into a period of relative calm with respect to spot electricity price movements. Most of the increased volatility in spot electric prices occurred on the West Coast of the United States, particularly in California, but also in the Pacific Northwest (Figure 1). Between May 1, 2000 and June 1 2001, the average daily percent spot price change at the California/Oregon border (COB) was 20 percent with a maximum absolute change of 140 percent. For the period August 7, 1998 to December 30, 1999, the average was 12 with a daily maximum of 126. The relative calm that has characterized the West Coast market since last winter is demonstrated by the fact that between June 1, 2001 and February 8, 2002, the average daily percent change in COB electricity spot prices has been 9.6 percent with a maximum absolute change of 84 percent. Many of the conditions that contributed to the electricity market squeeze in California in late 2000/early 2001 are no longer operative and the prospects for continued calm in electricity prices through 2003 are good. Unfortunately, one of the contributors to lower electricity market volatility is the significant slowdown in the U.S. economy in 2001, particularly as demonstrated by the dramatic decline in industrial output which is still pervading the economic environment. It should be noted that, despite the volatility in some spot electricity markets, most retail electricity customers in the United States have seen only marginal increases in delivered electricity costs, and

moderate declines in 2002 are likely. This result stems from the fact that at the retail level electricity prices are still regulated in many States. Some States (particularly California) have seen large changes in delivered electricity prices, but, for most areas, retail price changes have been relatively small over the last two years.

Some of the pressure on electricity prices that emerged in 2000 and early 2001 were related to fuel costs and the availability of adequate amounts of certain kinds of generating capacity.

Throughout 2000, natural gas spot prices were rising steadily because of strong demand and stagnant or declining productive capacity. The economy was expanding rapidly and incremental natural gas demand requirements were outstripping the capacity to produce new supplies.

Natural gas inventories fell steadily to very low levels at the beginning of the 2000-2001 heating season, setting the stage for significant increases in natural gas costs to end-use customers, including electric power generators. At this time, oil prices were also well above typical levels because of the tight condition of world oil markets. It should be noted that a concomitant reduction in hydroelectric resources in 2000 (due of course to exogenous weather factors) only served to tighten electricity markets by, in effect, removing an important component of everyday electricity supply capacity. This was particularly true on the West Coast. In late 2000, very cold temperatures shocked energy markets by moving heating demand-related energy use to well above normal levels. The resulting squeeze on natural gas markets resulted in one of the most dramatic runups in natural gas prices ever seen in the United States, with the result that industrial and power generating companies (as well as other energy users) saw fuel costs soar. For power generators, some alternatives to natural gas alleviated some of the pressure. In fact, the 2000-

2001 winter turned out to be one of the busiest winters for oil-burning power stations in many years. While oil-fired generating capacity represents only a marginal source of alternative electricity supply, this development nevertheless helped prevent gas price runups from being even worse than they actually were last winter.

Since last winter, the onset of economic recession and relatively mild weather (including unusually warm heating season temperatures beginning in November of 2001) has reduced electricity (and other energy) demand and changed the cost/price environment for electricity and other energy sources. Average U.S. natural gas spot prices are currently between one fourth and one fifth the level seen at the height of the runup last winter. Oil prices are noticeably lower now than during the winter of 2000-2001 as well. Electricity spot prices now generally between \$18 and \$24 per megawatt-hour compared to \$40-\$50 in the South and East, and \$400-\$500 on the West Coast during mid January 2001. Cost conditions in the near term (2002 and 2003) are expected to be such that average energy prices remain much closer to current levels than to anything resembling the high prices of late 2000 to early 2001. Moreover, current supplies (inventories) are relatively high right now for most fuels in the United States, particularly natural gas. Although some tightening in natural gas markets is anticipated for 2003, prices are likely to remain quite low on average through most of 2002.

Until the U.S. economy begins to recover in earnest and domestic fuel inventories are pared to more normal levels, the probability of sharp price runups is minimal. In addition to the demand and fuel cost factors that have reduced the level of electricity price volatility since last winter,

there has been a significant number of new electric generating plants added to the U.S. inventory over the last year or so. Current estimates are that there has been about a 73,500-megawatt (9.3-percent) increase in generating capacity between the end of 1999 and the beginning of 2002.

Approximately 2,000 megawatts (3.9 percent) have been added in California. Furthermore, it is generally expected that a significant recovery in hydroelectric power availability on the West Coast is likely this year. Such a development would further reduce the likelihood of renewed pressure on electricity prices in the region regardless of the specific entities engaged in trading there.

Despite a period of wide variability and sharp runups in spot electricity prices since 1999, for most retail electricity consumers, price movements have been much less dramatic. For example, between 1999 and 2001, U.S. residential electricity prices have risen an average of 1.9 percent per year. The highest monthly year-over-year increase in the last two years for average residential prices has been 4.6 percent (February 2001). For 2002, an average decline in residential electricity prices of 1.6 percent is expected. A modest increase of about 0.5 percent is anticipated for 2003 as fuel costs increase moderately and as aggregate electricity demand begins to rise. U.S. electricity demand is currently estimated to have fallen by 0.6 percent in 2001. Much of that decline is expected to be reversed in 2002 and reach a more normal annual growth rate of 2.7 percent in 2003. This projection presumes that the U.S. economy will begin to recover in 2002 and post a 4.0-percent real GDP growth rate in 2003.

#### Enron and Electricity Prices

Average wholesale electricity prices across the Nation have been relatively stable since October 2001 (Figure 2). Monthly average electric power prices during this period ranged from a high of about \$38.00 a megawatthour to a low of about \$18.00 a megawatthour in response to changing demand and supply conditions.

Enron's stock traded at \$36.79 per share on October 11, 2001. Its price continued its downward spiral during the months of October and November. The stock has not recovered since then. This performance is also in sharp contrast with the stock's performance in September 2000 when its price reached a high of nearly \$90.

The rate of decline accelerated as information about Enron's accounting practices emerged and Federal agencies began looking closely into Enron's affairs. Failure of a merger agreement between Enron and Dynegy also contributed to a decline in Enron's stock. Given the relative stability of wholesale electricity prices together with the collapse of Enron's stock price, it is not possible to establish any meaningful correlation between electric power prices and Enron's performance in the stock market.

A review of average retail electricity prices (calculated as average revenue per kilowatthour) in relation to Enron's stock price during January 1999 through October 2001 also fails to exhibit any correlation between average retail electricity prices and Enron's stock's performance (Figure 3). As electricity prices are still regulated by many State public utility commissions, they do not appear to be influencing or being influenced by the Enron stock price.

## Natural Gas

Spot wellhead prices are currently averaging around \$2.00-\$2.20 per million Btu, or about one-quarter of what they were in January of last year when prices at the wellhead reached record levels (Figure 4). These prices are measured at the Henry Hub—a major upstream trading center, the prices of which are often used as representative of U.S. natural gas markets. Very mild winter weather during the fourth quarter of last year through January of this year has lowered heating demand considerably. Heating degree-days in the fourth quarter 2001 were about 26 percent below levels from the previous fourth quarter and about 16 percent below normal, while January 2002 heating degree-days were about 14-17 percent below normal (depending on the region) and below year-ago levels. The low heating demand, a weak economy, and the ensuing excess storage levels for natural gas during the winter of 2001-2002 through the spring of 2002 should result in rather tepid natural gas prices in the near term. At the end of last November, working gas in storage was 30 percent above levels during the previous November. By the end of January, the storage level was almost 80 percent above that of the previous year and about 35 percent above a 5-year normal (Figure 5). We expect that by the end of the heating season—less than 2 months away - working gas in storage will be double the level at the end of last March. Another factor that helped to temper natural gas prices is the relatively low price for petroleum. Both crude and product prices are considerably less than they were this time last year, thus relieving any upward competitive price push on natural gas.

With the heating season nearly over (given the high storage levels and weak demand), it is perhaps surprising that natural gas prices have not fallen further. It is true that average daily spot prices at the Henry Hub have slipped below \$2 per million Btu on more than one occasion since November, most recently on January 29 of this year. Yet for much of the heating season to date (mid-December through mid-February), Henry Hub spot prices have remained in the \$2.30-\$3.00 per million Btu range. Our current view for natural gas prices is that for much of the rest of 2002, spot wellhead prices will hover near (or perhaps slightly below) the \$2.00-per-million-Btu level. A modest recovery in prices by late 2002 or early 2003 depends largely upon the speed of recovery in the U.S. economy, weather, and the net effect on gas productive capacity of the slowdown in U.S. drilling. The latest statistics from Baker Hughes show that gas-directed drilling in the United States has fallen to levels not seen since July 2000. We believe that room for some continued declines exists over the next several months because, on balance, aggregate lease revenues for oil and gas producers aren't likely to turn upward again until mid-summer. This will be particularly true if oil prices remain flat or weaken instead of increasing gradually as expected. For 2003, we project that, as economic growth accelerates and as world oil prices rise, natural gas wellhead prices will rise accordingly, gaining about 50 cents per thousand cubic feet on average compared to 2002.

### Enron and Natural Gas Prices

Very little information regarding Enron's true financial status was available to natural gas markets prior to October 16, 2001. In the period from that day through February 9, 2002, natural

gas spot prices have fluctuated between \$2 and \$3 per million Btu (MMBtu) at the Henry Hub, with only a few brief exceptions.

The price fluctuations during this period do not appear to have a clear correspondence with important dates involving Enron (Figure 6). While all daily variation is not necessarily easily explained, the price trends over weeks relate well to market conditions. Spot prices were increasing during October, which is a typical occurrence as the markets prepare for the heating season. Weather forecasts at the time were calling for a cold winter and prices reacted accordingly. As low temperatures failed to materialize, prices subsided to levels around \$2. In December, as temperatures declined, once again forecasts were calling for cold winter temperatures in the near future, and natural gas prices rose in reaction.

Since the beginning of the year, weather has tended to be warmer than normal, which has kept prices from increasing greatly. Further, the generally higher-than-normal temperatures during the heating season caused operators to limit withdrawals of natural gas from storage. The exceptionally large volumes of gas remaining in storage pose a substantial supply cushion that has mitigated the impact of any demand pressures on the market.

Looking back over the past 2 years, natural gas markets have experienced a remarkable period in which prices rose from just above \$2 per MMBtu in January 2000 to more than \$10 by the end of the year. After beginning 2001 at these elevated levels, prices returned to below \$2 by the end of September 2001 (Figure 7). EIA examined gas market conditions and prices in two studies, *U.S.*

*Natural Gas Markets: Recent Trends and Prospects for the Future* (May 2001), and *U.S. Natural Gas Markets: Mid-Term Prospects for Natural Gas Supply* (December 2001). These reports concluded that the high natural gas prices experienced in 2000 were caused by constrained domestic productive capacity that resulted from a sustained period of relatively low oil and natural gas prices, followed by unusually high demand—the result of strong economic growth and an unusually warm summer and cold winter—and a poor storage position heading into the winter season (November 2000 through February 2001).

EIA does not believe that the Enron situation has had a strong detrimental impact on natural gas markets. The major events involving Enron do not appear to have a correlation with natural gas markets and prices. Further, gas price patterns during the past 2 years have reasonable explanations that did not require an extraordinary role for Enron.

#### Enron in the Electricity and Natural Gas Industries

In many ways, Enron was deemed a very large company. Among the 33 major energy companies reporting to the Financial Reporting System (FRS) in 2000, Enron ranked second in total revenues (11 percent share), third on total assets (9 percent share), seventh on capital expenditures (4 percent share), and tenth on the basis of net income (2 percent share). However, as the table below shows, Enron accounted for less than 1 percent of total retail electricity sales, generating capacity, and electricity generation in the United States in 2000. Enron mainly operated in wholesale trading markets, without owning or operating physical assets.

**Table 1. Enron in the Electricity Business, 2000**

Category	Enron	U.S. Total	Enron Share (Percent)
Retail Sales (million kilowatt-hours)	9.6	3,421,414	0.0003
Capacity (megawatts)	3,389	811,625	0.4176
Generation (million kilowatt-hours)	915	3,800,000	0.2400

In the natural gas business, Enron was a major player in the interstate gas pipeline business. Overall it had interests in 10 percent of the interstate gas pipeline capacity in the United States (Table 2). However, some of this capacity has already been sold. In January 2002, the largest pipeline Enron owned was sold to Dynegy, reducing its interests to 7 percent. Enron also has interests in some gas storage and intrastate pipeline facilities. Enron operates underground storage facilities through Northern Natural in the States of Iowa and Kansas. Midwest Natural Gas Transmission operates one storage field in Indiana. The total capacity of these storage operations is approximately 2.5 percent of the total underground storage capacity for the nation. On a State basis, the fields operated by Enron entities account for more than 40 percent of the 273 billion cubic feet (Bcf) of capacity in Iowa and more than 25 percent of the 301 Bcf of capacity in Kansas. Operations in Indiana amount to less than 1 percent of the total storage capacity for the State. No storage operations are associated with either Florida Gas Transmission or Northern Border. All of these facilities are expected to continue to operate regardless of their future ownership.

**Table 2. Enron Interstate Natural Gas Pipelines, 2001**

Company	Ownership Share (Percent)	Capacity (Million cubic feet per day)	Miles
Northern Natural Gas Company	100	3,904	15,671
Transwestern Gas Company	100	2,836	2,532
Florida Gas Transmission Co	50	1,742	5,342
Northern Border Pipeline Co	12	3,094	1,248
Midwestern Pipeline Co	•	1,000	359
<b>Total Enron Interests</b>		<b>12,576</b>	<b>25,152</b>
<b>Total US Interstate</b>		<b>128,387</b>	<b>214,528</b>
<b>Enron Interests (percent) **</b>		<b>10</b>	<b>12</b>

- Enron owns 12.4 percent of Northern Border Partners which in turn owns 100 percent of Midwestern Pipeline.
- \*\* The stated percentages are the share of the industry represented by the companies in which Enron has an ownership share.

### Annual Energy Outlook 2002

#### Reference Case

#### *Electricity Prices*

Between 2000 and 2020, the national average price of electricity in real 2000 dollars is projected to decline from 6.7 cents per kilowatt-hour to 6.5 cents per kilowatt-hour, an average reduction of 0.2 percent per year, mainly as a result of competition among electricity suppliers (Figure 8). By sector, projected prices in 2020 are 6.4, 3.9, and 0.2 percent lower than 2000 prices for residential, commercial, and industrial customers, respectively.

The cost of producing electricity is a function of fuel costs, operating and maintenance costs, and the cost of capital. In 2000, fuel costs typically represented \$22 million annually--or 76 percent of the total operational costs (fuel and variable operating and maintenance)--for a 300-megawatt coal-fired unit, and \$66 million annually--or 93 percent of the total operational costs--for a natural-gas-fired combined-cycle unit of the same size. For nuclear units, fuel costs are typically a much smaller portion of total production costs. Nonfuel operations and maintenance costs are a larger component of the operating costs for nuclear power units than for plants that use fossil fuels.

The impact of rising natural gas prices in the forecast is more than offset by a combination of falling coal prices and stable nuclear fuel costs. After the price spikes of 2000 and 2001, natural gas prices to electricity suppliers are projected to rise by 2.2 percent per year in the forecast, from \$2.64 per thousand cubic feet in 2002 to \$3.94 in 2020 (Figure 9). The natural gas price increases after 2002, however, are offset by forecasts of declining coal prices, declining capital expenditures, and improved efficiencies for new plants.

Before 2001, 14 States, including California, instituted competition in their retail electricity markets. Both the District of Columbia and Ohio began retail competition in 2001, and Texas and Virginia are scheduled to begin in 2002. Since the beginning of 2000, however, 7 States have delayed the opening of competitive retail markets beyond the dates originally planned, and in the fall of 2001, California suspended retail competition. Specific restructuring plans differ from State to State and utility to utility, but most call for a transition period during which customer

access will be phased in. The transition period reflects the time needed for the establishment of competitive market institutions and the recovery of stranded costs as permitted by regulators. It is assumed that competition will be phased in over 10 years, starting from the inception of restructuring in each region. In all the competitively priced regions, the generation price is set by the marginal cost of generation. Transmission and distribution prices are assumed to remain regulated.

It is not clear at this point to what extent the Enron situation will affect the announced plans of these States to move their electricity markets toward competitive restructuring. Clearly, the large price increases seen in California during the second half of 2000 had a chilling impact on the trend toward deregulation. There have been no recent announcements of new State-level restructuring initiatives. On the other hand, with the return to stability in the California electricity market, as well as in national natural gas markets, there have been only a few decisions to delay or reverse the announcements already made. No clear trend concerning Enron's impact on electricity prices are discernible, implying that the effects will be small at best.

### *Electricity Sales*

The continuing saturation of electric appliances, the availability and adoption of more efficient equipment, and efficiency standards are expected to hold the growth in electricity sales to an average of 1.8 percent per year between 2000 and 2020, compared with a 3.0-percent annual

growth in GDP. By 2020, electricity sales are expected to be 4916 billion kilowatt-hours, compared to 3413 billion kilowatt-hours in 2000, a 44 percent increase. During the 1960s, electricity demand grew by more than 7 percent per year, nearly twice the rate of economic growth (Figure 10). In the 1970s and 1980s, however, the ratio of electricity demand growth to economic growth declined to 1.5 and 1.0, respectively. Several factors have contributed to this trend, including increased market saturation of electric appliances, improvements in equipment efficiency and utility investments in demand-side management programs, and more stringent equipment efficiency standards. Throughout the forecast, growth in demand for office equipment and personal computers, among other equipment, is dampened by slowing growth or reductions in demand for space heating and cooling, refrigeration, water heating, and lighting.

With the number of U.S. households projected to rise by 1.0 percent per year between 2000 and 2020, residential demand for electricity is expected to grow by 1.7 percent annually, to 1672 billion kilowatt-hours (Figure 11). Electricity demand in the commercial sector is projected to grow by 2.3 percent per year between 2000 and 2020. Projected growth in commercial floorspace of 1.7 percent per year contributes to the expected increase. Electricity is projected to account for three-fourths of commercial primary energy consumption throughout the forecast. Expected efficiency gains in electric equipment are expected to be offset by the continuing penetration of new technologies and greater use of office equipment. In the industrial sector, electricity consumption is projected to grow 1.4 percent annually over the forecast period, stimulated by growth in industrial output of 2.6 percent per year. Industrial delivered electricity use is

projected to increase by 32 percent, with competition in the generation market keeping electricity prices low.

### *Electricity Generating Capacity*

From 2000 to 2020, 355 gigawatts of new generating capacity (excluding cogenerators) is expected to be needed to meet growing demand and to replace retiring units (Figure 12), bringing total capacity to about 1060 gigawatts. Between 2000 and 2020, 10 gigawatts (10 percent) of current nuclear capacity and 37 gigawatts (7 percent) of current fossil-fueled capacity are expected to be retired, nearly all before 2010. Of the 185 gigawatts of new capacity expected by 2010, 10 percent is projected to replace retired oil- and natural-gas-fired steam capacity.

Because of their favorable economics, natural gas-fired combined-cycle units are projected to be used for most new baseload requirements. The average efficiency for combined-cycle units is expected to approach 54 percent by 2010, compared with 49 percent for coal-steam units, and the expected construction costs for combined-cycle units are about 44 percent of those for coal-steam plants. As a result, most (59 percent) of the projected combined-cycle additions are expected before 2010. As natural gas prices rise later in the forecast, new coal-fired capacity is projected to become more competitive, and 80 percent of the projected additions of new coal-fired capacity are expected to be brought on line from 2010 to 2020.

A total of 31 gigawatts of new coal-fired capacity is projected to come on line between 2000 and 2020, accounting for almost 9 percent of all the capacity expansion expected. Competition with low-cost gas-turbine-based technologies and the development of more efficient coal gasification systems have compelled vendors to standardize designs for coal-fired plants in efforts to reduce capital and operating costs in order to maintain a share of the market. Renewable technologies account for 3 percent of expected capacity expansion by 2020--primarily wind, geothermal, and municipal solid waste units. About 19 gigawatts of distributed generation capacity is projected to be added by 2020, as well as a small amount (less than 1 gigawatt) of fuel cell capacity.

In addition to building new capacity, electricity generators are expected to use other options to meet demand growth--maintenance of existing plants, power imports from Canada and Mexico, and purchases from cogenerators.

### *Electricity Generation*

As they have since early in this century, coal-fired power plants are expected to remain the key source of electricity through 2020 (Figure 13). In 2000, coal accounted for 1,968 billion kilowatt-hours or 52 percent of total generation, including cogeneration. Although coal-fired generation is projected to increase to 2,472 billion kilowatt-hours in 2020, increasing gas-fired generation is expected to reduce coal's share to 46 percent. Concerns about the environmental impacts of coal plants, their relatively long construction lead times, and the availability of economical natural gas make it unlikely that many new coal plants will be built before about 2005. Nevertheless, slow

growth in other generating capacity, the huge investment in existing plants, and increasing utilization of those plants are expected to keep coal in its dominant position. By 2020, it is projected that 23 gigawatts of coal-fired capacity will be retrofitted with scrubbers to meet the requirements of the Clean Air Act Amendments of 1990 (CAAA90).

In percentage terms, natural-gas-fired generation is projected to show the largest increase, from 16 percent of the total in 2000 to 32 percent in 2020. As a result, by 2004, natural gas is expected to overtake nuclear power as the Nation's second-largest source of electricity. Generation from oil-fired plants is projected to remain fairly small throughout the forecast.

#### *Natural Gas Prices*

From 1995 to 2000, the wellhead price of natural gas averaged \$2.38 per thousand cubic feet (2000 dollars). Relative to that average, the price is expected to increase at an average rate of 1.6 percent per year in the reference case, reaching \$3.26 in 2020 (Figure 14).

Increasing prices reflect the rising demand for natural gas; the progression of the discovery process from larger, shallower, and more profitable fields to smaller, deeper, and less profitable ones; and increasing production from higher cost sources, such as unconventional natural gas. Projected average growth in production from unconventional sources from 2000 to 2020 ranges from 3.1 to 3.6 percent per year across the cases, compared to a range of 2.0 to 2.2 percent per year for conventional sources. Technically recoverable gas resources are expected to remain more

than adequate to meet the projected production increases. The price increases are expected to be tempered by technological progress in both discovering and producing natural gas.

Long-term end-use prices for natural gas are projected to be lower than the relatively high prices experienced in 2000 and 2001. Average transmission and distribution margins are generally expected to remain constant or decline through 2020, moderating the projected increase in wellhead prices. The average end-use price is expected to increase by 35 cents per thousand cubic feet from 2005 through 2020, compared with an increase of 61 cents per thousand cubic feet in the average price of domestic and imported supply in the same period. By 2020, the average end-use price is expected to be \$4.92 per thousand cubic feet.

Declining margins are particularly important in restraining the rise in both residential and commercial end-use prices (Figure 15). From 2005 through 2020, residential and commercial end-use prices are projected to increase by 12 cents per thousand cubic feet, to \$7.16, and 28 cents per thousand cubic feet, to \$6.02, respectively.

The industrial and electricity generation sectors have the lowest end-use prices, in part because they receive most of their natural gas directly from interstate pipelines, avoiding local distribution charges. Summer-peaking electricity generators reduce their transmission costs by using lower cost interruptible transportation rates during the summer when spare pipeline capacity is available; however, as electricity generators take an increasing share of the market, they are expected to rely on higher cost firm transportation to a greater extent. Prices of natural

gas for the industrial and electricity generation sectors are projected to reach \$4.01 and \$3.94, respectively, by 2020. The highest end-use prices are expected for compressed natural gas vehicles, because the costs of additional infrastructure requirements are expected to be added to pipeline and distribution rates.

### *Natural Gas Production and Imports*

Growth in domestic natural gas production of 9.4 trillion cubic feet between 2000 and 2020 is expected to come primarily from lower 48 onshore nonassociated (NA) sources (Figure 16).

Conventional onshore natural gas production is projected to grow rapidly in the last 10 years of the forecast, increasing its share of total lower 48 production from 37 percent in 2000 to 39 percent in 2020. As a result of technological improvements, production from unconventional sources (tight sands, shale, and coalbed methane) is projected to increase more rapidly.

Unconventional natural gas production is projected to increase from 25 percent of total lower 48 production in 2000 to 32 percent in 2020. Production of associated-dissolved (AD) natural gas from lower 48 crude oil reserves declines slightly in the projections, following the expected pattern of crude oil production. AD natural gas is projected to account for 9 percent of lower 48 natural gas production in 2020, compared with 16 percent in 2000.

Offshore production is expected to increase less rapidly, accounting for 24 percent of total lower 48 gas production in 2020. In recent years, innovative cost-saving technologies have been

applied, particularly in the deep waters of the Gulf of Mexico, where significant finds are expected to continue.

Alaskan natural gas production is projected to grow by 1.7 percent per year through 2020 to meet expected State demand. Options for marketing the gas outside Alaska include transportation through a pipeline, conversion to liquefied natural gas (LNG), and conversion to synthetic petroleum products.

Imports of natural gas make up the difference between U.S. production and consumption (Figure 17). Imports are generally expected to be priced competitively with domestic sources. Imports from Canada, primarily from western Canada and the Scotian Shelf in the offshore Atlantic, are expected to make up most of the increase in U.S. imports. Because most of the producing regions in Canada are less mature than those in the United States, there is strong potential for low-cost production. Net imports from Canada are projected to provide 15 percent of total U.S. supply in 2020, about the same as in 2000.

LNG imports are expected to increase, but they are not expected to become a major source of U.S. supply through 2020. Two LNG import facilities, at Cove Point, Maryland, and Elba Island, Georgia, have been closed for many years but are expected to reopen by 2002. It is expected that those facilities, plus the other two U.S. facilities, at Everett, Massachusetts, and Lake Charles, Louisiana, will be operating at full capacity by 2010, supplying 0.8 trillion cubic feet per year through 2020.

Although Mexico has a considerable natural gas resource base, trade with Mexico has until recently consisted primarily of exports from the United States. Mexico is projected to remain a net importer of U.S. natural gas through 2020; however, U.S. exports are expected to peak in 2015 and then decline as the infrastructure is developed for Mexican natural gas to meet indigenous demand.

### *Natural Gas Consumption*

Total natural gas consumption is projected to reach 33.8 trillion cubic feet by 2020. Increasing demand by electricity generators (excluding cogenerators) is expected to account for 55 percent of the total consumption growth by 2020 (Figure 18). Demand growth is also expected in the residential, commercial, industrial, and transportation sectors. Most new electricity generation capacity is expected to be fueled by natural gas, and natural gas consumption in the electricity sector is projected to grow rapidly throughout the forecast as electricity consumption increases.

In the reference case, natural gas consumption for electricity generation (excluding cogeneration) is projected to increase from 4.2 trillion cubic feet per year in 2000 to 10.3 trillion cubic feet per year in 2020, an average annual growth rate of 4.5 percent. At the end of the forecast period, electricity generation is expected to surpass the industrial sector as the largest consumer of natural gas. Although coal prices to the electricity generation sector are generally projected to fall throughout the forecast, natural-gas-fired electricity generators are expected to have advantages

over coal-fired generators, including lower capital costs, higher fuel efficiency, shorter construction lead times, and lower emissions.

Although more than half the increase in natural gas consumption between 2000 to 2020 is expected in the East, the West--including Canadian imports and most of the Gulf Offshore--is expected to provide approximately 80 percent of the incremental lower 48 natural gas supply in the reference case. As a result, most new natural gas pipelines are expected to be built from the West to the East. The exception is expected new pipeline capacity originating in Canada and the Rocky Mountains, which will be needed to meet growth in natural gas consumption along the Pacific Coast.

### Conclusion

The collapse of Enron Corporation, while detrimental to the employees and shareholders of the company, has not had a noticeable impact on energy markets, especially those for electricity and natural gas, to date. An examination of wholesale price data for both electricity and natural gas indicates that, during the same period that Enron stock was declining from over \$37 to less than \$1 a share, spot prices for electricity and natural gas were relatively stable, showing normal fluctuations related to supply and demand. It is not expected that the Enron situation will have any lasting impact on future electricity and natural gas markets, either in the short term, or through 2020. Electricity prices are expected to remain fairly stable over the next couple of years, with a slight decline through about 2010 due to the effects of competition and falling coal

prices before rising again through 2020 because of rising natural gas prices. Natural gas prices, which were highly volatile during much of 2000 and 2001, are expected to be lower in 2002 before rising about \$0.50 per thousand cubic feet at the wellhead in 2003. In the long term, natural gas prices are expected to increase from current levels, reaching \$3.26 per thousand cubic feet (real 2000 dollars) by 2020.

Thank you, Mr. Chairman and members of the Subcommittee. I will be happy to answer any questions you may have.

Figure 1. Daily Spot Electricity Prices for Various Locations

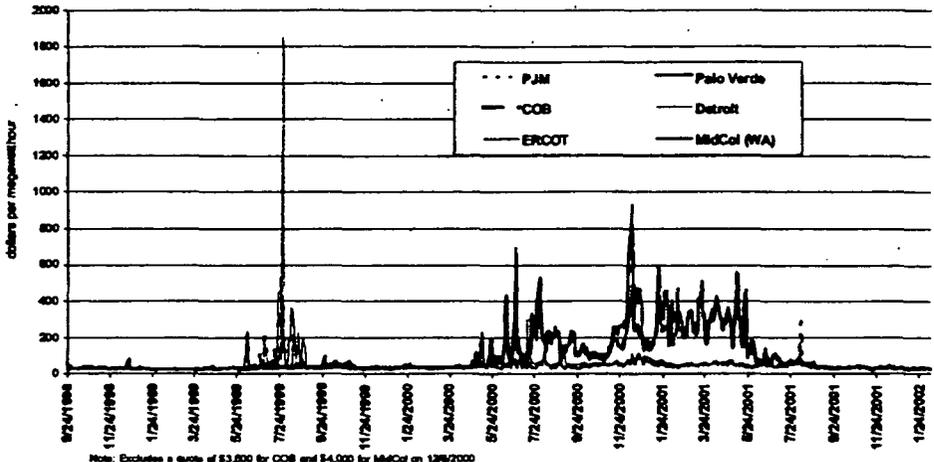
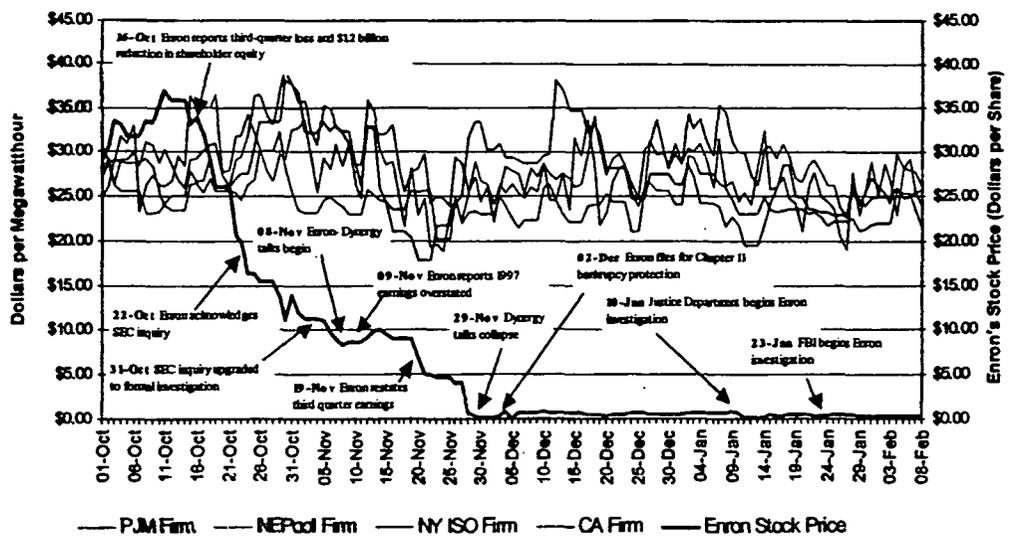
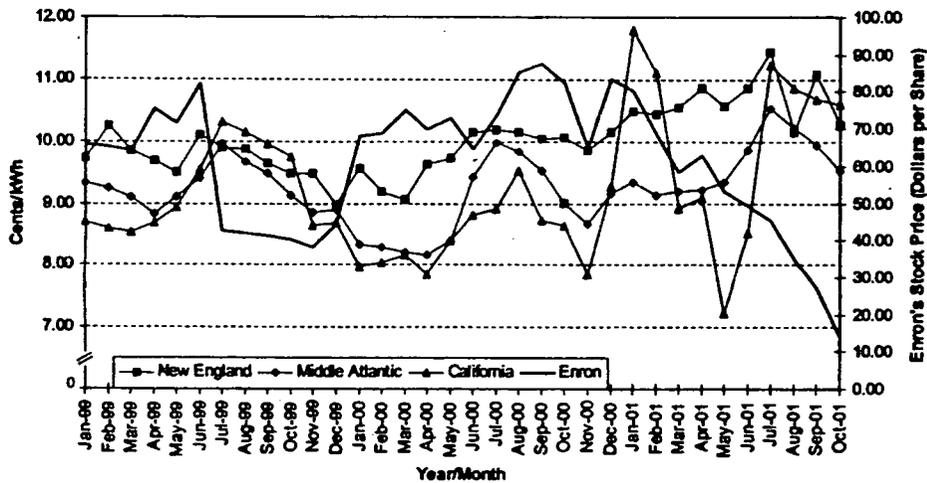


Figure 2. Average Wholesale Electricity Prices and Enron Stock Price, October 1, 2001 through February 8, 2002

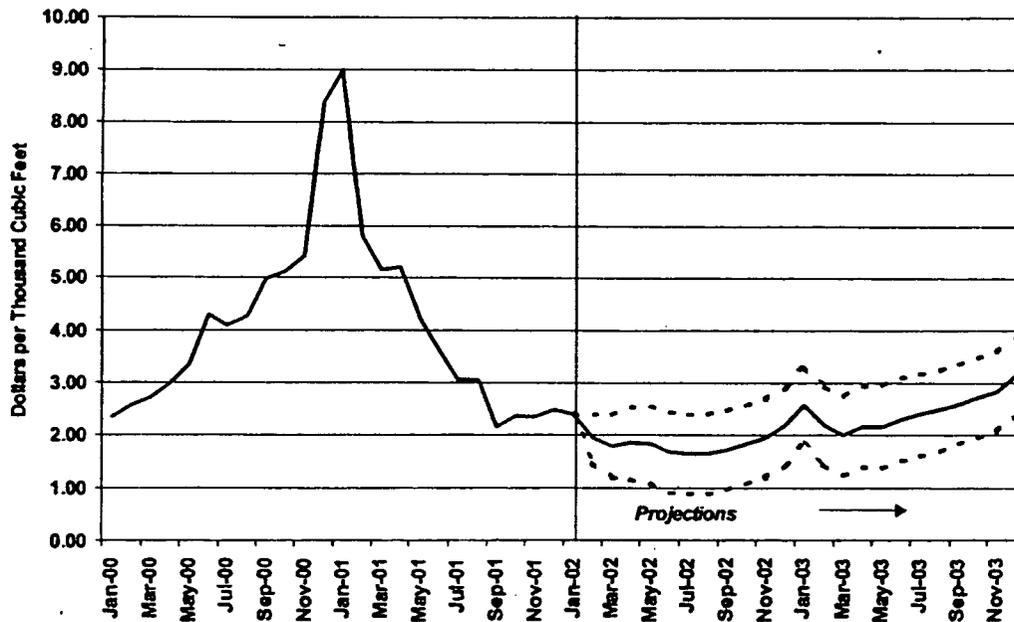


**Figure 3. Electric Utility Retail Average Revenue per Kilowatthour for Selected Regions and Enron's Stock Prices, January 1999 - October 2001**

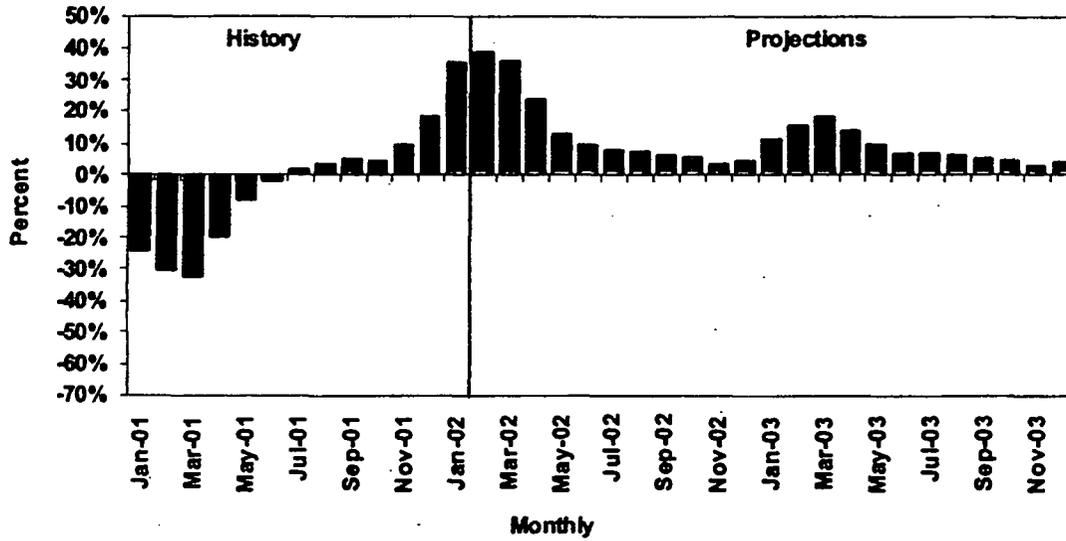


Note: The monthly stock price is the closing price for the last trading day of each month.

**Figure 4. Natural Gas Spot Prices (Base Case and 95% Confidence Interval)**



**Figure 5. Working Gas in Storage  
(Difference from Previous 5-Year Average)**



**Figure 6. Henry Hub Spot Price, Enron Stock Price, and Important Dates**

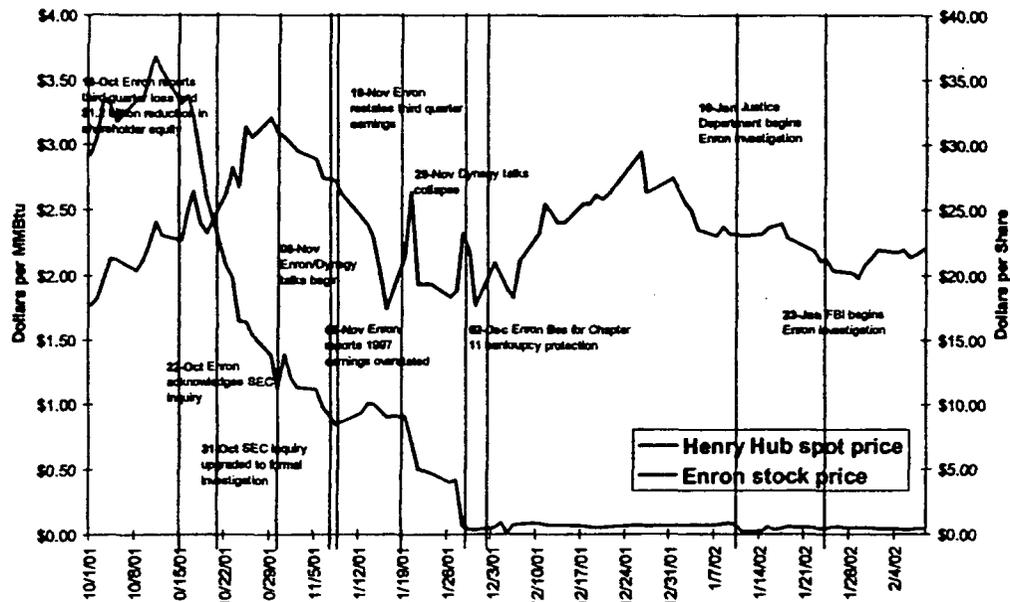


Figure 7. Natural Gas Spot Prices in Recent Years

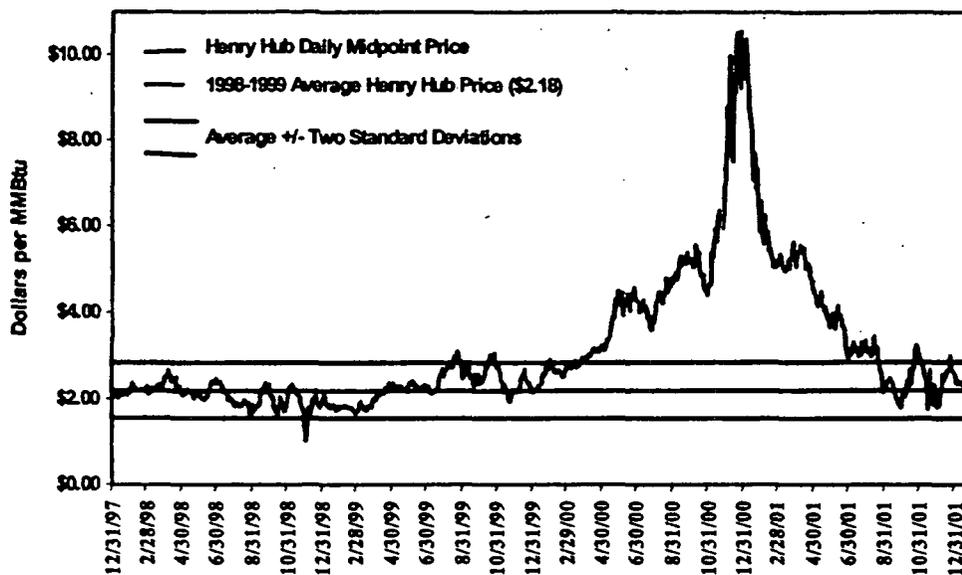
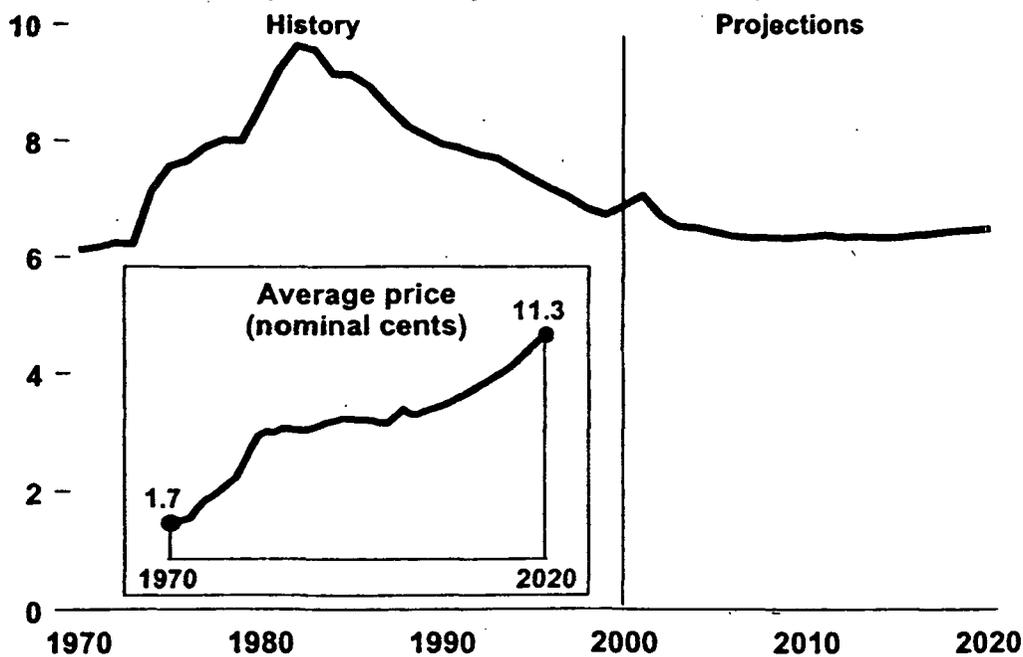
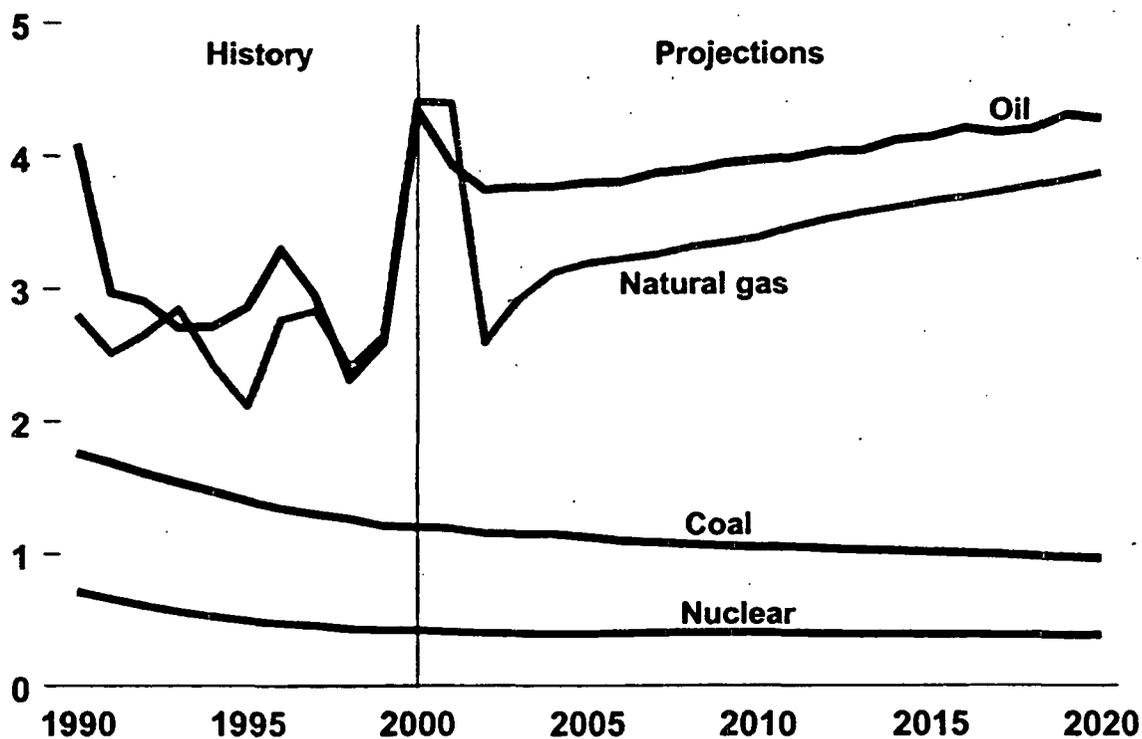


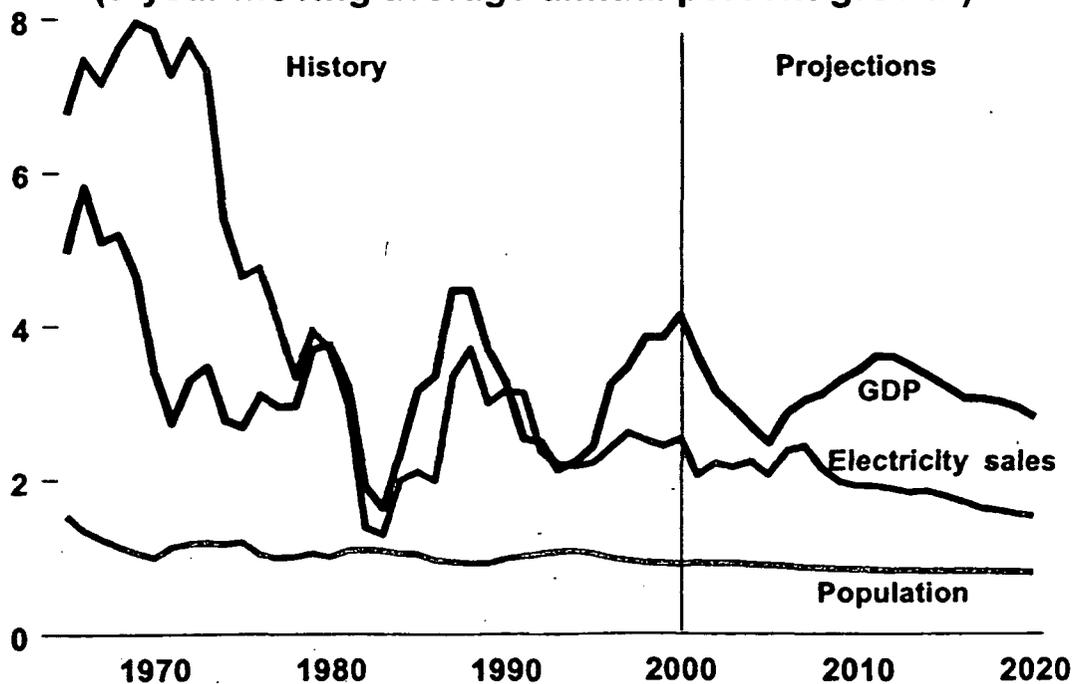
Figure 8. Average U.S. Retail Electricity Prices, 1970-2020 (2000 cents per kilowatthour)



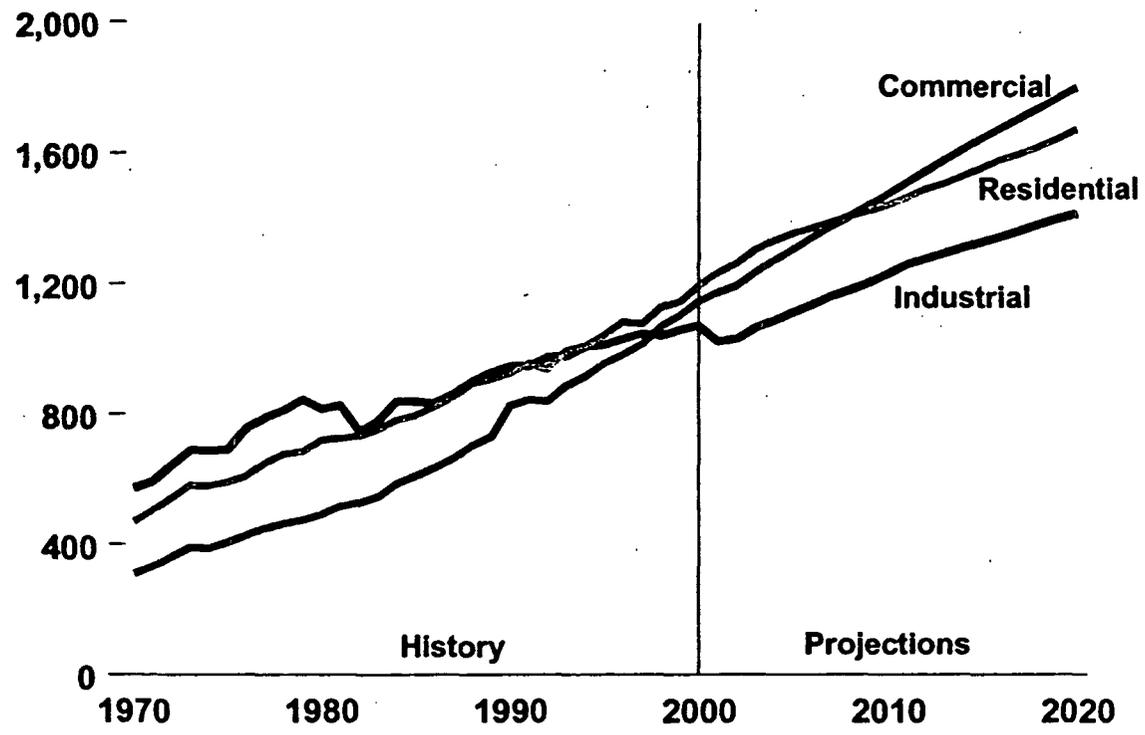
**Figure 9. Fuel Prices to Electricity Generators, 1990-2020  
(2000 dollars per million Btu)**



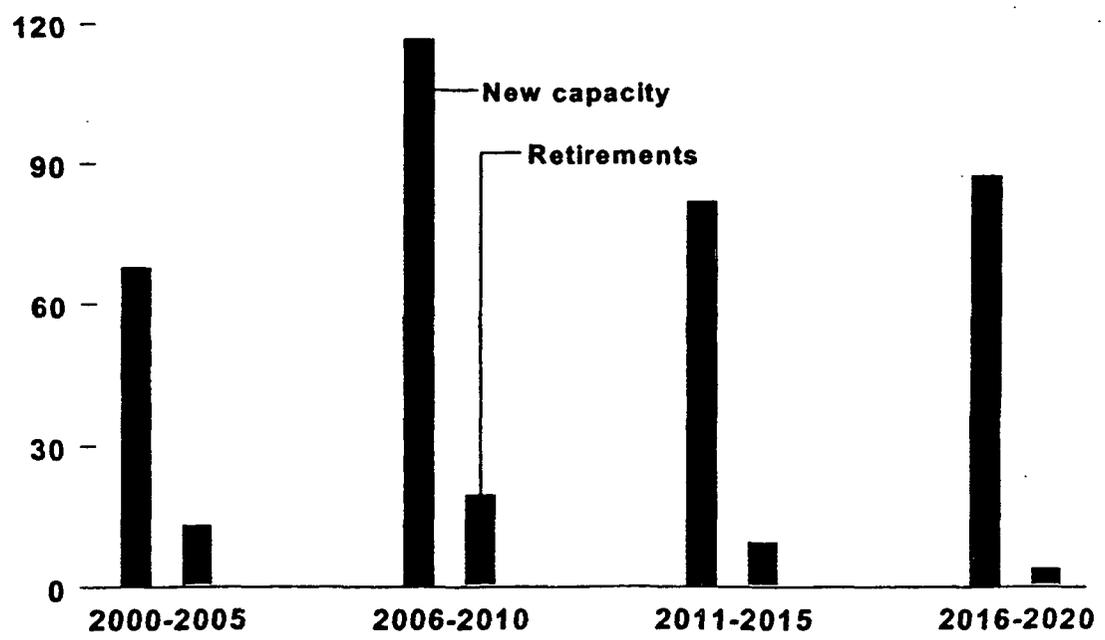
**Figure 10. Population, Gross Domestic Product, and  
Electricity Sales, 1965-2020  
(5-year moving average annual percent growth)**



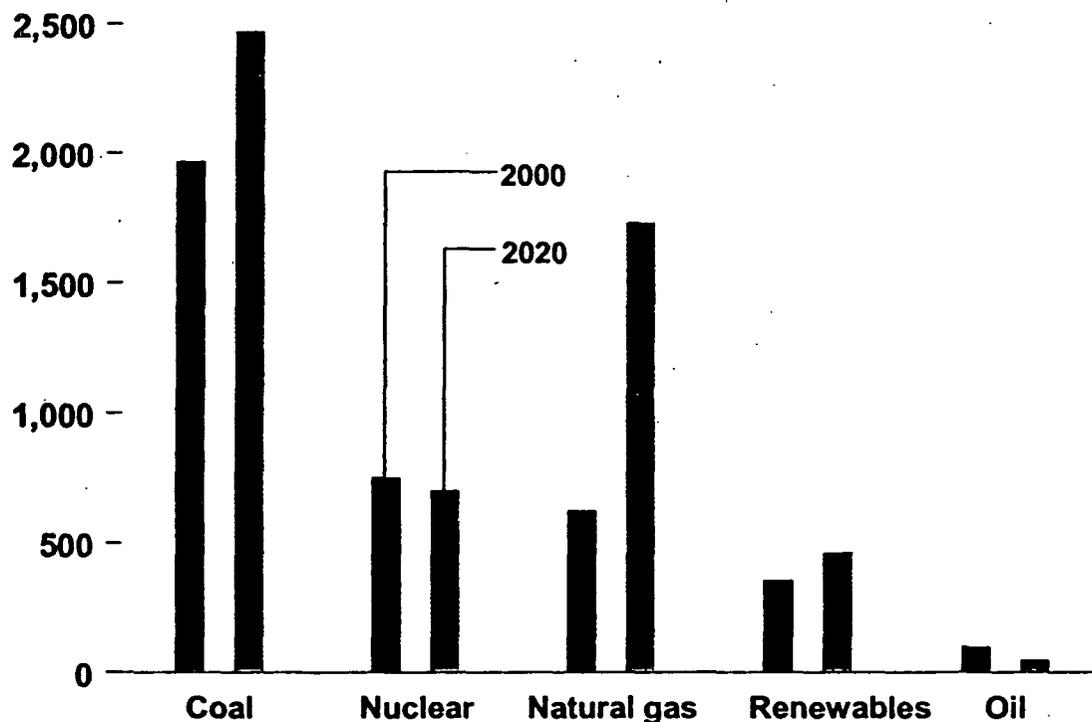
**Figure 11. Annual Electricity Sales by Sector, 1970-2020 (billion kilowatthours)**



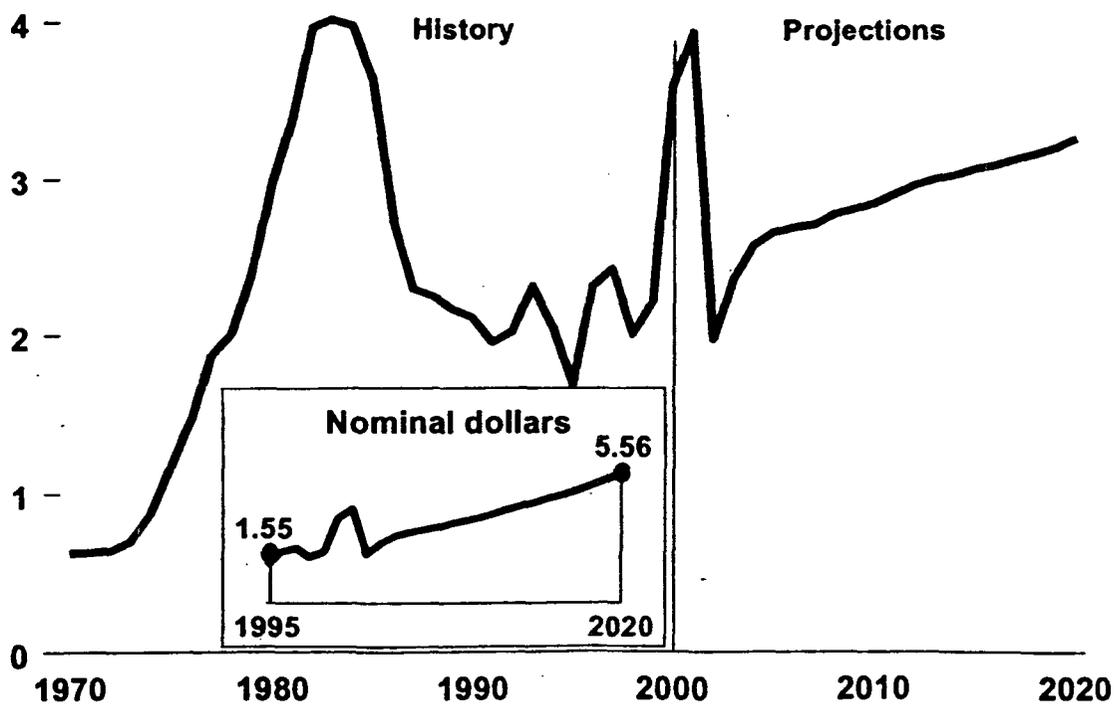
**Figure 12. Projected New Generating Capacity and Retirements, 2000-2020 (gigawatts)**



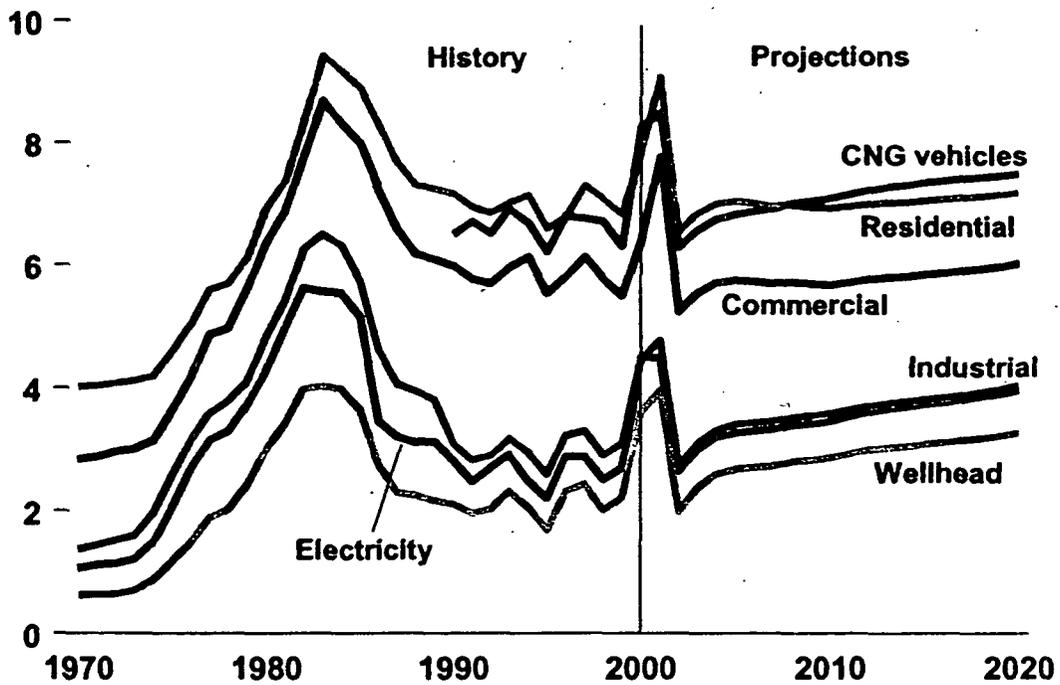
**Figure 13. Projected Electricity Generation by Fuel, 2000 and 2020 (billion kilowatthours)**



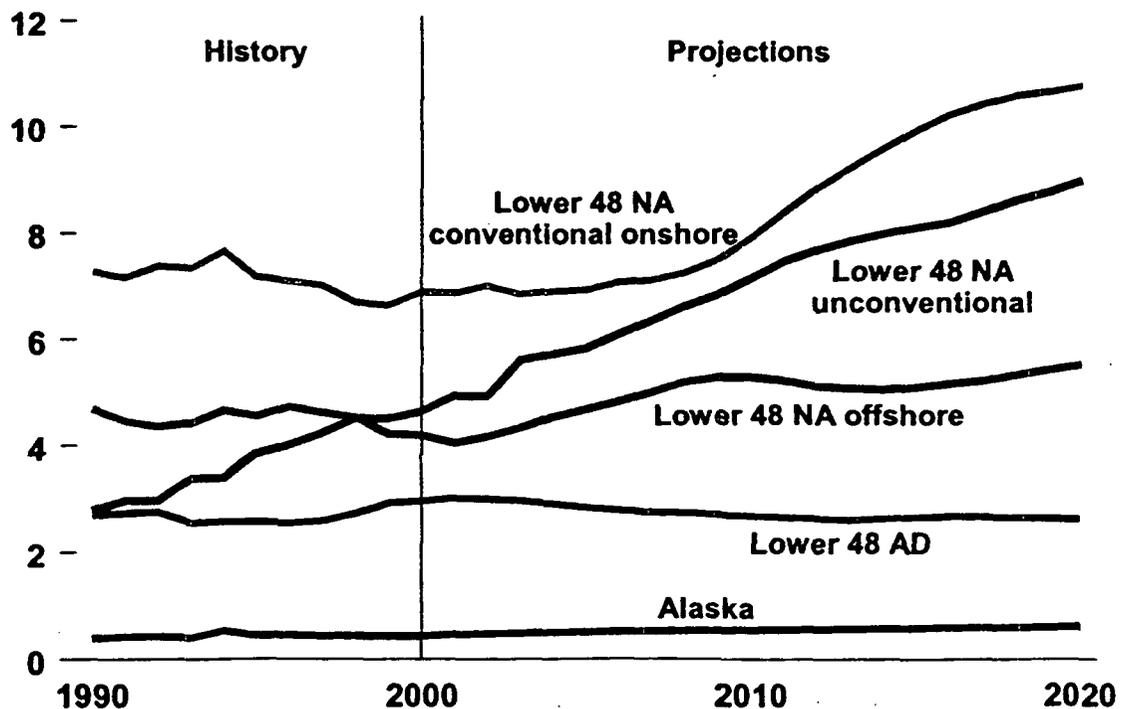
**Figure 14. Lower 48 Natural Gas Wellhead Prices, 1970-2020 (2000 dollars per thousand cubic feet)**



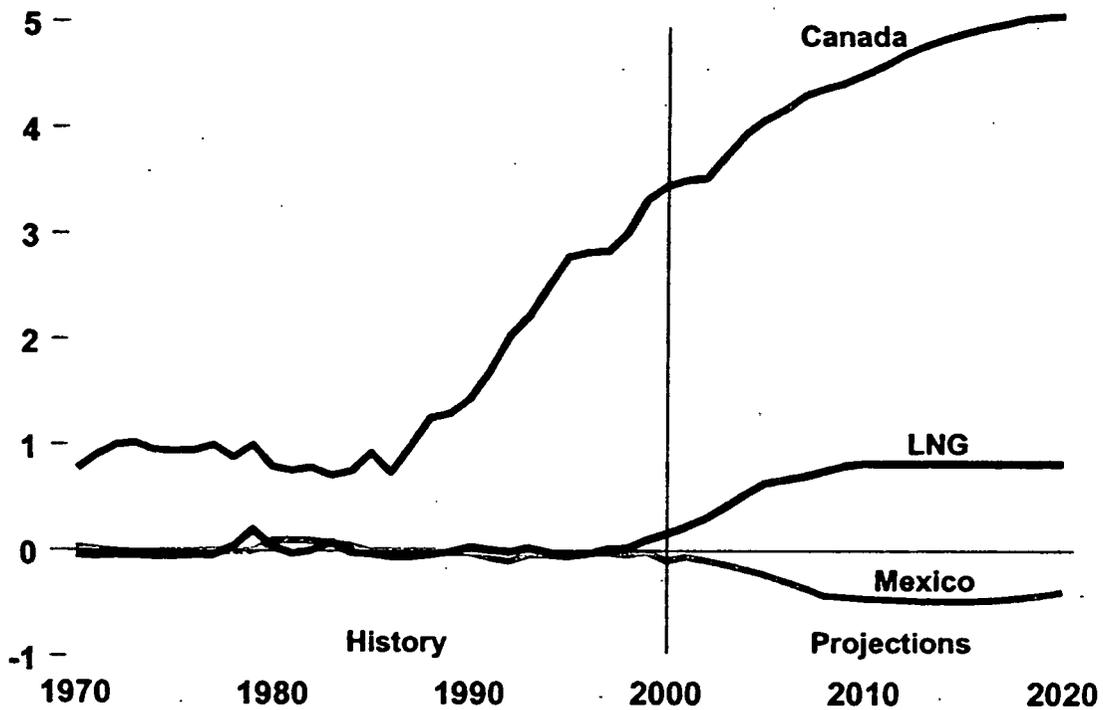
**Figure 15. Natural Gas End-use Prices by Sector, 1970-2020  
(2000 dollars per thousand cubic feet)**



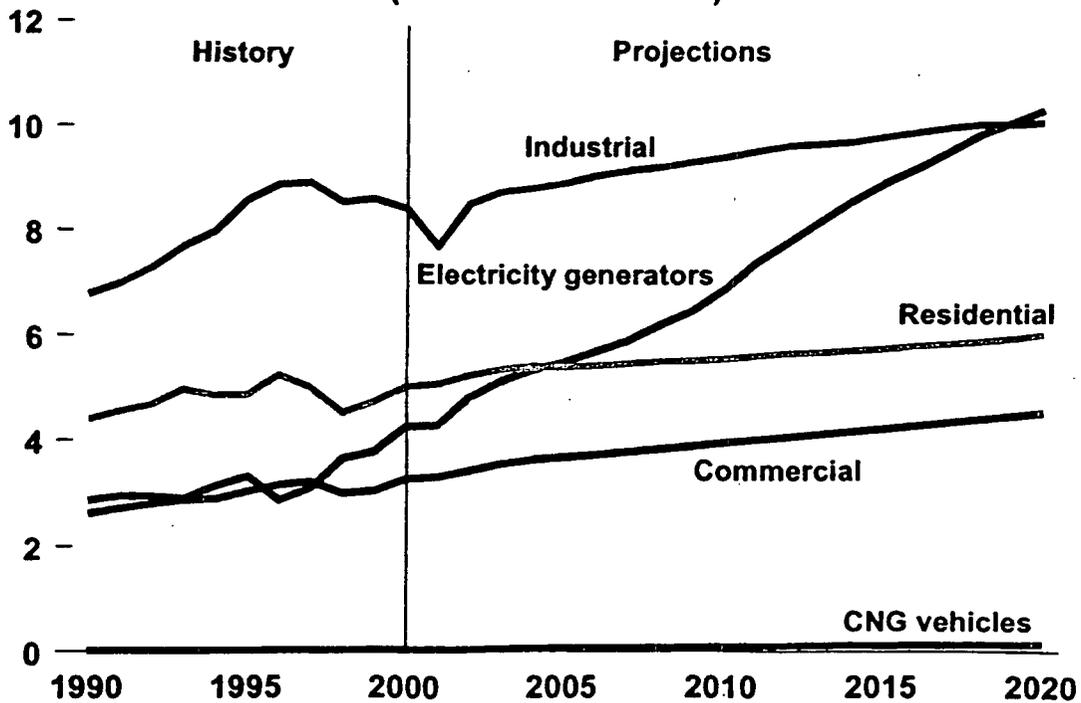
**Figure 16. Natural Gas Production by Source, 1990-2020  
(trillion cubic feet)**



**Figure 17. Net U.S. Imports of Natural Gas, 1970-2020  
(trillion cubic feet)**



**Figure 18. Natural Gas Consumption by Sector, 1990-2020  
(trillion cubic feet)**





**Department of Energy**  
Washington, DC 20585

July 23, 1999

**MEMORANDUM FOR:** KENNETH VAGTS  
DIRECTOR  
OFFICE OF OIL AND GAS

**FROM:** DOROTHY PRITCHETT  
OFFICE OF RESOURCE MANAGEMENT

**SUBJECT:** FOIA REQUEST NUMBER 9904270001

*Dorothy Pritchett*

We have been asked by the Freedom of Information and Privacy Group, Office of the Executive Secretariat, to provide information concerning a request by Michael O'N. Barron, for copies of FEA/DOE forms used by Amoco to file the Refiner's Monthly cost Allocation Reports from November 1973 through January 1981. Mr. Barron, who has requested these documents under the Freedom of Information Act (FOIA), should be informed that he will be charged fees for the processing of this request and will be notified in advance regarding a specific amount. In handling this request, please note the "Reminder of Procedures for Handling FOIA Requests" that is on the reverse side of the incoming memorandum, Attachment A. A response to this request is due 10 business days from today's date, July 23, 1999.

If records are being denied, in part or in whole, the Office of the General Counsel must be consulted before a response is transmitted to the requester (please refer to Attachment B, Withholding Under Exemption 4, Contractual Information, and to DOE Order 1700.1, Chapter II 2). If you have any questions regarding the processing of this request, please contact me at 586-1110.

**Attachments**

cc:  
Brenda Washington  
FOIA/Privacy Act Division  
Office of the Executive Secretariat

# memorandum

DATE: May 4, 1999

REPLY TO  
ATTN OF:

Brenda A. Washington, MA-7

SUBJECT:

Freedom of Information Act Request 9904270001

TO:

Dorothy Pritchett, Energy Information Administration, EI-22

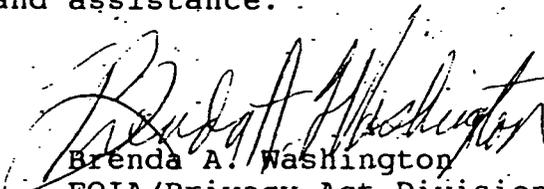
The enclosed Freedom of Information Act (FOIA) request number: 9904270001 is being sent to you for action as responsive records appear to be within your organization. If your organization does not have jurisdiction over the responsive records, please inform me to whom you are forwarding the request.

If other divisions, offices or field organizations also have relevant records, you are responsible for requesting their participation and for coordinating the response. It is important that an appropriate response be forwarded to the requester within 20 working days as failure to respond can be deemed a denial.

**PLEASE ENSURE THAT THE DOCUMENTS YOU LOCATE ARE SPECIFICALLY RESPONSIVE TO THIS REQUEST, PARTICULARLY IF THEY ARE CLASSIFIED.**

On the reverse side of this memo, a "Reminder of Procedures for Handling FOIA Requests" should assist your staff. If you have any questions, please contact me on (202) 586-6039.

Thank you for your cooperation and assistance.

  
Brenda A. Washington  
FOIA/Privacy Act Division

Enclosure

A.

MICHAEL O'N. BARRON  
ATTORNEY AT LAW  
12417 CONWAY ROAD  
ST. LOUIS, MISSOURI 63141

April 21, 1999

APR 27 1999 <sup>d/</sup>

COMMERCIAL SEARCH, REVIEW & REPRODUCTION

Ms. GayLa D. Sessoms  
Director, FOI and Privacy Groups  
HR-73  
Office of Hearings and Appeals  
Department of Energy  
Forrestal Building  
1000 Independence Ave., S.W.  
Washington, D.C. 20585

Re: Freedom of Information  
Enron Corporation/Amoco Corporation  
Case No. RR340-2

Dear Ms. Sessoms:

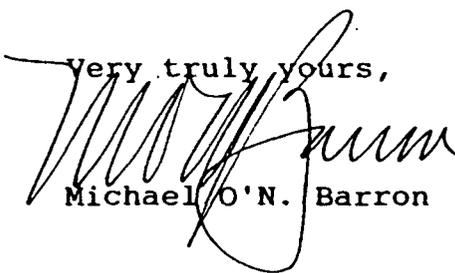
On behalf of Amoco Corporation, an applicant in the Enron Corporation refund procedure, I am making this request for documents previously filed by Amoco in compliance with DOE price regulations.

I request that you copy and furnish copies of the FEA/DOE forms which Amoco used to file its "Refiner's Monthly Cost Allocation Reports" which it filed in the months between November 1973 and January 1981. These forms may have had different numbers through the years but it is my understanding that the last form number was FEO-96. These forms were three or four page documents and I would appreciate your copying all of the pages for each monthly report.

Please be advised that we will pay whatever charges result from our request for documents.

If you have any questions about this request or need any clarification of the information requested, please call me immediately.

Very truly yours,

  
Michael O'N. Barron

MONB:mk

cc: Warren Gray  
Department of Energy  
Brenda Melzer  
Amoco Corporation

1999 APR 27 A 11:19  
DEPT. OF ENERGY  
FOIA

RECEIVED

Brenda

May 4, 1999

Mr. Michael O'N. Barron  
12417 Conway Road  
St. Louis, MO 63141

Re: FOIA Number 9904270001

Dear Mr. Barron:

This is in further response to the request that you made to the Department of Energy (DOE) under the Freedom of Information Act (FOIA), 5 U.S.C. 552. You asked for copies of FEA/DOE forms used by Amoco to file the Refiner's Monthly Cost Allocation Reports from November 1973 through January 1981.

The case number listed on your letter has been confirmed as being one of the Office of Hearings and Appeals oil overcharge numbers. The forms, however, that you are requesting are not in that case file. They were filed with the DOE Energy Information Administration (EIA). Your request, therefore, has been assigned to the EIA. That office will search its files for responsive documents and will provide you with a direct response.

In your letter, you agreed to pay charges associated with the processing of your request. For purposes of assessing fees, you have been categorized under the Department's regulation implementing the FOIA at Title 10, Code of Federal Regulations, Section 1004.9(b)(1), as a "commercial use" requester. In this category, you will be charged search, review, and duplication costs associated with the request. The EIA will notify you of the exact amount incurred for processing your request.

The above referenced number has been assigned to your request and you should refer to it in any correspondence to this office concerning this matter. If you have any questions about your request, please contact Ms. Dorothy Pritchett, EI-22, at the Energy Information Administration, U.S. Department of Energy, 1000 Independence Avenue, SW, Washington, DC 20585, or call her on (202) 586-1110.

I appreciate the opportunity to assist you, and thank you for your interest in the Department.

Sincerely,

Abel Lopez, Director  
FOIA/Privacy Act Division  
Office of The Executive Secretariat

cc: Official File Copy  
Action Officer - Dorothy Pritchett, EI-22

MA-73:baw:6-6039:5/4/99

Michael O'N. Barron  
12417 Conway Road  
St. Louis, Missouri 63141

Dear Mr. Barron:

We regret to inform you that we cannot provide you with copies of the EIA-14, "Refiner's Monthly Cost Allocation Report" or predecessor forms filed by Amoco Corporation between November 1973 and January 1981, that you requested in your Freedom of Information Request, Enron Corporation/Amoco Corporation Case No. RR340-2 dated April 21, 1999. These survey forms have been destroyed as prescribed by the Energy Information Administration (EIA) Records Schedules, EIA 1, 37. Under this schedule, survey forms are to be destroyed when 3 years old.

May 4, 1999.

Mr. Michael O'N. Barron  
12417 Conway Road  
St. Louis, MO 63141

Re: FOIA Number 9904270001

Dear Mr. Barron:

This is in further response to the request that you made to the Department of Energy (DOE) under the Freedom of Information Act (FOIA), 5 U.S.C. 552. You asked for copies of FEA/DOE forms used by Amoco to file the Refiner's Monthly Cost Allocation Reports from November 1973 through January 1981.

The case number listed on your letter has been confirmed as being one of the Office of Hearings and Appeals oil overcharge numbers. The forms, however, that you are requesting are not in that case file. They were filed with the DOE Energy Information Administration (EIA). Your request, therefore, has been assigned to the EIA. That office will search its files for responsive documents and will provide you with a direct response.

In your letter, you agreed to pay charges associated with the processing of your request. For purposes of assessing fees, you have been categorized under the Department's regulation implementing the FOIA at Title 10, Code of Federal Regulations, Section 1004.9(b)(1), as a "commercial use" requester. In this category, you will be charged search, review, and duplication costs associated with the request. The EIA will notify you of the exact amount incurred for processing your request.

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Sincerely,

Abel Lopez, Director  
FOIA/Privacy Act Division  
Office of The Executive Secretariat

cc: Official File Copy  
Action Officer - Dorothy Pritchett, EI-22

MA-73:baw:6-6039:5/4/99



Department of Energy  
Washington, DC 20585

June 4, 1993

MEMORANDUM FOR VERA T. ROBINSON, AD-623  
HEADQUARTERS RECORDS MANAGEMENT BRANCH  
OFFICE OF ADMINISTRATIVE SERVICES

SUBJECT: Transfer of Records

The Economic Regulatory Administration and the Energy Information Agency hereby jointly concur that the attached list of documents currently being held in the Washington Records Holding Center are to be officially transferred from EIA to ERA.

A handwritten signature in cursive script that reads "Robert A. Perrygo".

Robert A. Perrygo, RG-12  
Management Systems Division  
Economic Regulatory Administration

A handwritten signature in cursive script that reads "Linda Fletcher-Oliver".

Linda Fletcher-Oliver, EI-22  
Planning & Financial Management Division  
Energy Information Administration

Attachment

6/4/93

Attachment

EIA RECORDS TO BE TRANSFERRED TO ERA

Job#	Boxes	Description/Form	Dates	Loc#
7933	15	FEA-P110-M-1 (EIA-14)	1976-78	5370
8178	12	FEO-96 (EIA-14)	1973-76	1148
8217	1	FEA-P110-M-1 (EIA-14)	1976-78	1446
8954	2	FEA-P110-M-1 (EIA-14)	1976-80	731
8952	1	ERA-51	1981	727
	31			

**Jenkins, Elizabeth**

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**From:** Campbell, Elizabeth  
**Sent:** Friday, June 14, 2002 2:41 PM  
**To:** Jenkins, Elizabeth  
**Subject:** More on Enron FOIA

For the record, and following conversation with Ken, he suggested that NGD contribute the following. We confirmed the exemption in call to Larry Klur.

The Natural Gas Division has sent a number of letters and had a number of email and phone communications with Enron affiliates related to the Energy Information natural gas data collection programs. The subjects of these communications included notifications of reporting requirements and the details of specific data reports. These data reports and communications are exempted from FOIA requests under the Section B4 exemption for trade secrets and commercial or financial information of a sensitive nature.

## Natof, Margaret

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**From:** Natof, Margaret  
**Sent:** Thursday, June 06, 2002 2:00 PM  
**To:** 'Rosenberg, David E.'  
**Subject:** RE: LNG Imports

Monthly import figures are available in a quarterly report from DOE's Office of Fossil Energy. Contact Yvonne Caudillo at 202-586-4587.

We are also having to log all contacts with Enron and its affiliates. The lawyers haven't bothered us yet.

Yes, Diane has been retired for several years now. I'm looking forward to retirement 03/03/03.

I hope your daughter isn't too disappointed with not being an intern this summer. Maybe next year? The job gives kids a lot of exposure to the workings of Congress and they meet the political leaders.

We have summer internships here at DOE. My interns (two of them) get to work with the EIA-176 and get to see the basement of the Forrestal building. It doesn't compare to working on the Hill.

Let me know if you need further information on LNG.

Margaret

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

**From:** Rosenberg, David E. [mailto:David.Rosenberg@ENRON.com]  
**Sent:** Thursday, June 06, 2002 11:26 AM  
**To:** margaret.natof@eia.doe.gov  
**Subject:** LNG Imports

Are the LNG imports by port of entry published anywhere on a monthly basis? I know the annual figures are available.

How are things. Interesting here. A week ago I had to send one of the multitude of attorneys working on data requests from various parties a description of all contacts since 1992 with, amongst other entities, the DOE. That was fun, reconstructing my GRC and NPC activities after all these years.

(b) (6)

(b) (6)

I suppose the "silly season" as Diane Lique referred to it is keeping you entertained. I don't think I have ever seen so much political posturing and pontificating as we have seen this year.

Also, my memory is telling me that Diane has retired. Is that so or is it playing tricks on me?

**Natof, Margaret**

---

**From:** Natof, Margaret  
**Sent:** Monday, May 20, 2002 10:30 AM  
**To:** 'Rosenberg, David E.'  
**Subject:** RE: Undeliverable: Looking for Advice

Hi Dave,  
Yes, there is a lot of LNG information available by individual terminals. The August issue of the Natural Gas Monthly contains a feature article summing up annual activity by points of entry (terminals). You can check the website at [www.eia.doe.gov](http://www.eia.doe.gov), select natural gas, then publications. The most recent information available in the monthly is for 2000. If you need more current information, check with Yvonne Caudillo in the Office of Fossil Energy (202) 586-4587 - Sorry I don't know her e-mail address. Good to hear from you. Let us know if you need further information.  
Margaret  
Energy Information Administration  
202-586-6303

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

**From:** Rosenberg, David E. [mailto:David.Rosenberg@ENRON.com]  
**Sent:** Friday, May 17, 2002 1:55 PM  
**To:** margaret.natof@eia.doe.gov  
**Subject:** FW: Undeliverable: Looking for Advice

First try did not.

Margo (assuming this reaches you)

I was wondering if somewhere on your website there were figures for imports at the individual LNG terminals. The only thing I could find was the US totals from the various exporting countries.

Yes, I'm still here and kicking. I had thought I might be out to DC this summer since my daughter was shooting for internship with the State Dept. or a variety of Senators. Unfortunately she had two sets of applications in a row end up in a batch of Anthrax and by the time she sent the last applications in, she was too late. So it is summer at home.

Hope all is well with you.

\*\*\*\*\*  
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\*\*\*\*\*

Hope to see you again one of these days. Maybe my daughter will have better luck next summer.

\*\*\*\*\*

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\*\*\*\*\*

## **Natural Gas Division Meets with Members of Enron's Gas Fundamentals Research Group**

Natural Gas Division staff met with representatives of Enron Corporation's Gas Fundamentals Group to clarify issues related to the meaning and meaningfulness of natural gas production and consumption statistics published in the *Natural Gas Monthly*. The discussions in the meeting covered the characteristics of the data collection forms and the resulting data from EIA surveys, as well as the use of various secondary data sources to augment those from the Energy Information Administration. With increased natural gas prices and price volatility over the past two years, marketing and trading recommendations made by this group correspondingly have increased in importance within the company. Research activities within the Gas Fundamentals Group are currently supported by a staff of 35, approximately half of whom are IT support, with the remainder carrying out analyses of secondary data. The meeting confirmed that they had a good understanding of EIA's natural gas data and they were using the information appropriately in their models and analyses. Such outreach activity is an important part of EIA's continued efforts to maintain ongoing lines of communication with the energy industries and the general public.

**Media Interest:** None

**Program Contact:** Roy Kass, EI-44, (202)586-4790

*Describing meeting 6-11-01*

**Campbell, Elizabeth**

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**To:** Jenkins, Elizabeth  
**Subject:** FW: Meetings in D.C. with EIA

The attached email is a note sent by Enron employee following meeting on June 11 with Enron employees cc'ed in this note.

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

From: Burk, Bart [mailto:Bart.Burk@ENRON.com]  
Sent: Wednesday, June 13, 2001 10:33 AM  
To: elizabeth.campbell@eia.doe.gov; robert.schnapp@eia.doe.gov  
Cc: Gaskill, Chris; Agarwalla, Dipak  
Subject: Meetings in D.C. with EIA

Thank you, again, for meeting with us this past Monday and Tuesday. It proved to be a beneficial experience as we now have a better understanding of your data collection process and reporting procedures. Please feel free to give us a call at any time with questions you might have about our perspectives on the natural gas and electrical power sectors. We look forward to our communications with you in the future.

Sincerely,

Bart R. Burk, Jr.  
Enron Corporation  
Gas Fundamentals Research  
Phone: (713) 345-3635

## **Pritchett, Dorothy**

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**From:** Tobin, James  
**Sent:** Wednesday, June 12, 2002 11:41 AM  
**To:** Pritchett, Dorothy  
**Subject:** ENRON Communications

As I mentioned in my phone message, since Jan 2001 I have provided certain employees of ENRON Corp with various data files that I maintain and make available to the public. The method I use is e-mail. However, I can't find any of them in my e-mail archives, probably because I delete old e-mails that are large volume items (the attachments). I do keep a notebook with a line item entry for each e-mail I send that includes a database. If you want a copy of the pertinent pages let me know and I will ground-mail them to you or drop down to my office (Bh32) to pick them up. Since these notebook line items are cryptic and handwritten, I have produced the list below. It, and the notebook pages, will have to surface.

Date Sent	To whom:	Phone # if recorded	Files sent
1-19-2001 Storage Projects	Chris Gaskill	None	Proposed Underground
3-19-2001 Pipeline Expansion Projects	Keith Fraley	None	Proposed Natural Gas
5-22-2001 natural gas to endusers (EIA176 data)	Javier Espinoza	713-853-4296	Annual Deliveries of
7- 6-2001 Pipeline Expansion Projects	Keith Fraley	None	Proposed Natural Gas
7-10-2001 Compressor Station data	Vivek Shah	713-345-2888	Natural Gas Pipeline
7-20-2001 Pipeline Expansion Projects	Gina Taylor	713-853-7681	Proposed Natural Gas
10-15-2001 Pipeline Expansion Projects	Lindsay Culotta	None	Proposed Natural Gas

— End of list —

James Tobin  
Natural Gas Industry Analyst  
202-586-4835

12F

Date	Name	Time	Company/Project	Notes
1-12-2000	Phyllis Martin	10m	O.I.R.F. Medical Project	
1-16-2001	Emily Grothe	20m	NRG Inc. National Renewables	
1-17-2001	M. Johnson	10m	Bas FRR. O.P.S. Capacity	
1-19-2001	Chas Coakill	75m	Enron Corp. Pipeline	
1-19-2001	Mark Wall	10m	John Deere Corp. Construction	
1-23-2001	Curt Handaway	20m	SW Bell. Net E.I.C. 15	
1-24-2001	Warr Schur	30m	Harvard U. Pilot Cogeneration	
1-25-2001	Daniel Greenstadt	10m	Thomas Areas EX 80m	
1-25-2001	L Cabell	30m	Chicago Tribune FL Storage Sks	
1-26-2001	BMV	120m	E.I.A. Pipeline	
1-26-2001	Richard Hopf	20m	E-mail 713-426-5740 Capacity	
1-26-2001	Geoff Hicks	10m	EH Paso Energy 713-523-9499 Construction	
1-30-2001	Roy Johnson	10m	SW. Bell Inc 713-627-4721 Capacity	
1-30-2001	Richard Van Hooser	10m	Duke Energy Corp E-mail Capacity	
1-31-2001	Sarah Swell	10m	DTE Energy Resources +44 1252 718-949 Article	
2-2-2001	James Little	15m	Palladium Hubs Ltd for storage 508-653-9890 Construction	
2-2-2001	Roland Scott	15m	Dsg Group Inc 713-496-3516 Compressors	
2-2-2001	Kenneth Yeasting	15m	Constal Corp. (San Diego) Capacity	
2-2-2001	Rick Stauffer	10m	Ft Energy Construction	
2-5-2001	Christine Coleman	10m	Exchange, m.u.com. Construction Capacity	
2-6-2001	Daniel Bruxvoort	10m	Duke Energy. Com	
2-6-2001	John Hebert	10m	Consultant Construction 713-961-1900	
2-6-2001	Anna Thompson	10m	Lukens Group Capacity	
2-8-2001	Carston Buford	10m	Ames Electric Capacity	
2-8-2001	Edward Butler	10m	202-219-7100 Pipelines	
2-8-2001	Edward Butler	10m	FECC 609-777-7777	
2-9-2001	J. Lopez	10m	616-745-6223 Construction	
2-9-2001	Harold Powell	10m	Excellent-Pecka Cap. 26	

RF

2-12-01	William F. ...	212-357-7500	...
2-13-01	...	...	...
2-14-01	...	...	...
2-15-01	...	...	...
2-16-01	...	...	...
2-17-01	...	...	...
2-18-01	...	...	...
2-19-01	...	...	...
2-20-01	Judith ...	APCC, CO. 816-527-1635	Construction
2-21-01	Joe Phalen	10m	Construction
2-21-01	Philip ...	10m	Construction
2-21-01	Linda ...	10m	Cambridge Energy Hubs
2-21-01	Paul ...	10m	Cambridge Energy Hubs
2-22-01	Les Deman	...	Construction
2-26-01	Geoff Hicks	...	Capacity
2-28-01	Mike Anderson	...	Proposed ... Storage
3-6-01	Utku Gulmederi	...	Slides
<del>3-8-01</del>	<del>Ray Tate Jr</del>	<del>...</del>	<del>...</del>
3-7-01	Bernard Kramer	...	Capacity
3-8-01	Marilyn Miller	...	...
3-12-01	Joe Komara	...	US Pipeline
3-13-01	Charles Huyck	...	SC Pipelines
3-14-01	Heather Blendell	...	UR's on info
3-16-01	CARINA SWITALA	...	LNG Data
3-16-01	Hannah Rohlf's	...	Capacity
3-16-01	Tammy Weber	...	Pipeline projects
3-16-01	Ralph Blawie	...	Affiliates
3-16-01	Hockeygirl	...	Person reports
3-19-01	Gulmederi Utku	...	Capacity
3-19-01	Keith Frakey	...	Construction
3-20-01	Tracey W McMillan	...	Capacity

13A

4-27-01	Phil Porter	Porter180@AOL.com Aulburn Univ.	Compress PP MAP
4-27-01	Holly Ransom	678-574-3375 MIRANT Americas Energy	US&LNG&I
4-27-01	Kelly Hutchinson	Chase Manhattan	US. Pipelines map
4-27-01	John Herbert	703-532-4544 Consultant	US Storage Table & Figures
4-30-01	Warren Benves	561-625-7608 Florida Power & Light	PPT of P Flows & Other
4-30-01	Catherine DeCamp	918-574-9444 Williams Energy Serv.	Hydrates Figures
5-3-01	Bill Bokram	517-241-6116 Michigan PWE	Capacity
5-4-01	Lynn Cook	lcook@Forbes.com Forbes Mag	Construction
5-4-01	Chris Peterson	703-818-9100 Pace Global	Capacity
5-4-01	Bill Wood	bwood@Energy.State.ca.us Cal. Fernia PWE	Capacity
5-8-01	Shipa Shah	ss@levitan.com Levitan & Assoc	LDC Table
5-9-01	John Duda	John DUDA NELL.DOE.GOV	Construction
5-9-01	Mark Tjernensen	858-336-4676 Predict Power	Gas Daily Pricing Points
5-10-01	P Porter	Porter180@AOL.com	Compressors
5-11-01	Aaron Studwell	CMS Energy ms&t	Capacity Construction
5-11-01	Kimberly Staples	202-293-1869 Van Ness Feldman PC	Capacity Pricing Map of Calif
5-11-01	Christopher Freitas	DOE-FE	Capacity
5-14-01	Chris Ekright	Williams Companies	Capacity Figure
5-15-01	Holly Ransom	678-574-3375 MIRANT Americas	of Cap. Util
5-16-01	Kenneth Chew	Purintonetz	Compressors Capacity
5-16-01	Alex Canizares	Bloom berg, niet	Construct
5-16-01	Douglas Bohi	202-462-3830 Charles River Assoc	Capacity
5-16-01	Xianping Jiang	Reliant, Com	Construct
5-22-01	Javier Espinoza	713-853-4296 EMRON Corp	176 Data BIB99
5-22-01	Moussa Rashid	eca inc	Capacity
5-22-01	Sharon Gane	617-960-7290 AES New Energy	Construct
5-22-01	Lynn Wilson	203-961-5777 GE Capital	Storage Planning

(BI)

5-23-01	Les Demar	713-230-3429 Coral Energy Inc	CONSTRUC
5-23-01	Rocco Canonica	703-318-8848 Intelligence Press	CONSTRUC CALIFOR
5-25-01	Anthony Z lahtic	416-753-7328 Vector Pipeline	CORRIDOR FIGURES
5-25-01	Fabio Nehme	703-727-8784 Pace Global	PIPELINE AFFILIATES
6-5-01	MIKE Marelli	213-486-4810 PA Consulting (CA)	Capacity
6-8-01	Robert Welch	TRU Petro tech	Refineries
6-8-01	Jeni Putalavag	713-751-4963 McKinsey & Co	CONSTRUC
6-8-01	Lawrence Ho	Bain, Com	CONSTRUC
6-18-01	Terry Bumpers	terry@ecel.org	CONSTRUC
6-18-01	Talukdar Piyali	617-494-2989 DTS-US-USDOT/Nedpe	CONSTRUC
6-18-01	Anders Lofgren	404-877-5796 Boston Consulting Group	Hubs
6-20-01	Matt Beeson	16100.com	Articles
6-22-01	Sharon Gane	617-960-7290 AES NEW ENERGY	CONSTRUC AFFILIATE
6-22-01	Wimny So	AD Little Inc	Capacity
6-22-01	Cathy Cash	713-420-5722 El Paso Energy	CONSTRUC
6-22-01	Eva Wang	londe@on.com	CONSTRUC
6-25-01	G. Keen	mobile Gas	Storage
6-26-01	Jolyn Newton	615-232-6409 TVA	MAP OF NE PIPES
6-27-01	Patrick Kim	Newcrest 416-983 FD Securities 9717	CONSTRUC
6-29-01	Lynn Wilson	203-964-5777 GE Capital	PIPELINE AFFILIATES
7-2-01	Clay Albers	UNIV of TEXAS	Capacity
7-3-01	Chris Peterson	703-818-9100 CC PACE	CONSTRUC
7-6-01	Stephanie Linbow Ka	TransAlta (Canada)	Capacity
7-6-01	K. Franley	ENRON	CONSTRUC
7-9-01	Ann Whitfield	NEEC e-mail	Flow maps
7-10-01	Bruce Bernard	281-679-7398 Bernard Consulting	Capacity
7-10-01	Vivek Shah	713-345-2888 ENRON	Compressor

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7-12-01	Michijo Ito	JAPAN GAS ASSOC	Capacity
7-12-01	Emmanuel A. Madie	General Electric NGE, GE, COM	Capacity & Affiliates
7-12-01	L. GARRELL	Calpine Corp	Basins PPT
7-16-01	Vanessa Piggott	Advantia technologies LTD	Affiliates
7-16-01	Jo-Ann Chen	917-522-1606 ERisk Corp	Capacity
7-16-01	Tom Woods	Ziff Energy	Salt Storage Summary
7-17-01	Joe Bennetche	OIAE	Pipeline Capacity Summary
7-17-01	J. Dengan	763-750-5146 Washington Gas	Projects Construction
7-17-01	Greg Mcelwee	212-325-5975 Credit Suisse First Boston	Capacity
7-18-01	Mike Marelli	PA 263-486-4810 PA Consulting	Proposed Storage
7-18-01	Joe CARAMONICA	FERC	Western US PPT map
7-18-01	Sharon Gane	617-960-7290 AES New Energy	Construction
7-18-01	Vickie Mantain	Excidian LLC	Pipeline Affiliates
7-20-01	Patrick Hayes	417-869-8588 BKD FINANCIAL LLC	Construction
7-20-01	Gina Taylor	713-853-7681 ENRON	Construction
7-27-01	Veronica Trastarza	NERA	Construction
7-30-01	Geetha Sunkara moorthy	Business News 703-246-5714	Construction Capacity
7-30-01	Kobie Crowder	617-494-3156 US DOT Volpe	Construction Capacity
7-31-01	Serenity Blumer	Univ of Calgary	Compressor Capacity
8-3-01	Warren Benves	Excidian Power	Pipeline map US PPT
8-3-01	Katherine Thornton	NERA	Basins map
8-6-01	Tim Maxfield	903-849-2747	Construction
8-6-01	Lou Demouy	EIA	PPT MAPS for Mexico Report
8-7-01	Joe Bennetche/Choeta Phang	OIAE	Storage Capacity
8-9-01	S Watts	McGuire/Woods	AGA Storage
8-9-01	Karissa Finley	Student	Construction
8-10-01	Natas Vetma	Self	Compressors

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9-7-01	G. Azdvar	gazzdar@earthlink.net	Portland, OR	Pipeline map
9-10-01	Union Hulman	403-233-1544	B.P. Gas & Power Canada	Capacity
9-12-01	Todd Hargett	713-623-5415	Diverse Inc	Hubs
9-12-01	Peter Oetiker	507-288-3414	Yaggy Colby Assoc	Kansas PLS
9-24-01	Dan Klatt	202-953-6505	OnPine Landings	Construction
9-24-01	Nicholas Warren	202-412-2377	Fed Reserve Bd of Gov	Construction Capacity
9-24-01	Cliff Hurd		Anderson Consulting	Construction Capacity
9-24-01	Anthony Even		Lone Star Geotech	Construction
9-25-01	Mark Fatta		Bloomberg News	Construction
9-26-01	Chris DeMuth		SWDLAW.COM	Capacity
9-26-01	Michael Doniger		Milton Partners, LLC	Construction Capacity
9-28-01	Michael Marrell		PA Consulting Group	Capacity
9-30-01	Samuel Kleiner		Citigroup Asset Mgmt	Capacity
10-2-01	Robert Lee		Chokias River Assoc	Capacity
10-3-01	Brian Harrington		FERC	Capacity
10-3-01	Beverly Rosenburg		ONEOK.COM	Capacity
10-4-01	Jacquie Mitchell		Smithell, C	Capacity
10-5-01	Stephanie Labowka		Trans Alia, LLC	Capacity
10-5-01	Jean-Luc Diedzic		J.P. Morgan, LLC	Capacity
10-5-01	Misa Ann Laws		Fetto Works	Hubs
10-9-01	Arthur Rosen		Bofa Securities, LLC	Pipe Affili
10-10-01	Jack Katz		Medernett, W. & Emery	Capacity
10-12-01	Bar <sup>th</sup> DeArmon		Pro nche Corp	Capacity
10-15-01	Seb Ersk		Exkens Group	Capacity
10-15-01	Lindsay Culotta		ENRON, COM	Capacity
10-15-01	Ken Yeastwig			Capacity
10-15-01	Paul Cantano			Capacity

FREEDOM OF INFORMATION ACT REQUEST  
CERTIFICATION

TO: Dorothy Pritchett, EI-22

THE ATTACHED REQUEST HAS BEEN REFERRED TO YOUR OFFICE FOR ACTION.  
PLEASE COMPLETE THIS FORM AND RETURN IT ALONG WITH ANY RESPONSIVE  
DOCUMENTS TO: Brenda A. Washington, MA-73 DIRECT QUESTIONS TO  
ME ON 6-6039.

REQUESTS # 9904270001 DATE 8/20/99

A THOROUGH SEARCH HAS BEEN CONDUCTED FOR RECORDS/INFORMATION  
RESPONSIVE TO THIS REQUEST.

SEARCH TIME/HOURLY RATE

REVIEW TIME/HOURLY RATE

Please check/complete where appropriate:

\_\_\_\_\_ The documents transmitted herewith  
contain no classified or unclassified information on technologies  
supporting nuclear weapons design and production, etc.

\_\_\_\_\_ The documents transmitted herewith were  
found to contain classified or unclassified information on  
technologies supporting nuclear weapons design and production,  
etc., and have been referred for review (memo attached).

✓ \_\_\_\_\_ We have been unable to locate any documents  
responsive to this request.

\_\_\_\_\_ pages of documents have been identified.  
(number)

It is recommended that the documents transmitted herewith be:

\_\_\_\_\_ released in their entirety

\_\_\_\_\_ partially withheld for the reasons stated in  
the attachment

\_\_\_\_\_ withheld in their entirety for the reasons stated in  
the attachment

I CERTIFY BY SIGNATURE THAT ALL RESPONSIVE MATERIAL HAS BEEN  
BROUGHT TO THE ATTENTION OF THE FOIA/PRIVACY ACT OFFICE.

Kenneth A. Vagts 8/25/99  
SIGNATURE/TITLE (DATE)

Director, Office of Oil and Gas, Energy Information Administration

ATTACHMENT



	EIA 817 (FORMERLY EIA 170): MONTHLY TANKER AND BARGE	1983		
11	EIA 813 (FORMERLY EIA 90): MONTHLY CRUDE OIL REPORT	1983		
12	FE0 1001: REFINERY/IMPORTER MONTHLY SUMMARY REPORT	1973 - 1975		
13	FEA 103B: MERCHANT STORAGE OPERATORS MONTHLY REPORT	1976 - 1978		
16	EIA 811 (FORMERLY EIA 88): MONTHLY BULK TERMINAL REPORT	1983 - 1984		
17	EIA 8: RETAIL MOTOR FUELS SERVICE STATION SURVEY	1977 - 1978		
18	FEA 301-S-O: OIL AND GAS RESERVES STUDY SURVEYS	1975		
19	WEEKLY TERMINAL SUPPLY/DEMAND REPORTS	1977		
20	FEA P323-M-O: CRUDE OIL STOCKS	1976 - 1978		
21	FEA P113-M-O: REPORT OF OIL IMPORTS INTO THE U.S. AND	1977 - 1978		
22	EIA 402: FUEL OIL IDENTIFICATION SURVEY	1978		
23	FEA P133-M-O: SHIPMENTS OF REFINED PETROLEUM PRODUCTS FROM PUERTO RICO TO THE U.S.	1978 - 1979		
24	FEA P322-M-O: PIPELINE PRODUCT REPORT	1976 - 1978		
25	CLC 90: PETROLEUM INDUSTRY MONTHLY REPORT	1973 - 1975		
26	FEA 1000: PRIME SUPPLIER'S MONTHLY REPORT	1975 - 1977		
27	EIA 9: (SUPERSEDES FEA-P112-M-1) HEATING OIL SUPPLY/PRICE	1976 - 1980		
28	EIA 25 (SUPERSEDES FEA 1000): PRIME SUPPLIERS MONTHLY	1977 - 1981		
29	EIA 169: PRIME SUPPLIERS' THREE MONTH PROJECTION OF	1979 - 1981		
30	FEA 1005-IM: WEEKLY IMPORTS REPORT	1975 - 1977		
31	EIA 132: RETAIL MOTOR GASOLINE SALES SURVEY	1979		
32	FEA P321-M-O: BULK TERMINAL STOCKS OF FINISHED	1979		
33	FE0 1001: REFINERY/IMPORTER MONTHLY SUMMARY REPORT	1973		
34	FEA 103B: MERCHANT STORAGE OPERATORS MONTHLY REPORT	1977 - 1978		
	EIA 8: RETAIL MOTOR FUELS SERVICE STATION SURVEY	1977 - 1978		

36	FEA 301-S-O: OIL AND GAS RESERVES STUDY SURVEYS	1975		
37	WEEKLY TERMINAL SUPPLY/DEMAND REPORT	1977		
38	EIA 402: FUEL OIL IDENTIFICATION SURVEY	1978		
39	FEO 1000: REFINERY/IMPORTER MONTHLY REPORT ON			
	ALLOCATED SUBSTANCES BY STATE/PRIME SUPPLIER'S	1974		
40	EIA 148: RETAIL MOTOR GASOLINE COST AND REVENUE			
41	EIA 137: RETAIL MOTOR GASOLINE SALES SURVEY	1978		
42	EIA 802 (FORMERLY EIA 163): WEEKLY PRODUCT PIPELINE			
43	EIA 14: REFINERS' MONTHLY COST ALLOCATION REPORT	1978 - 1983		
44	FEA P302-M-1: PETROLEUM INDUSTRY MONTHLY REPORT FOR PRODUCT PRICES	1975 - 1980		
45	EIA 9A (SUPERSEDES EIA 9): NUMBER 2 DISTILLATE PRICE MONITORING REPORT SCHEDULE A	1980 - 1982		
46	EIA 148: RETAIL MOTOR GASOLINE COST AND REVENUE	1975		
47	EIA 137: RETAIL MOTOR GASOLINE SALES SURVEY			
48	EIA 802 (FORMERLY EIA 163): WEEKLY PRODUCT PIPELINE	1984		

	EIA 14: REFINERS' MONTHLY COST ALLOCATION REPORT	1978 - 1983		
50	FEA P302-M-1: PETROLEUM INDUSTRY MONTHLY REPORT FOR PRODUCT PRICES	1975 - 1980		
51	EIA 9A (SUPERSEDES EIA 9): NUMBER 2 DISTILLATE PRICE MONITORING REPORT SCHEDULE A	1980 - 1982		
File Administrator Signature: <i>Sandra R. Wilkins</i>		Division/Office <i>EIA/NEIC</i>	Date: <i>10/22/98</i>	
Authorization Signature: <i>Robert W. Mull</i>		Division/Office <i>Petroleum Div./00&amp;G</i>	Date: <i>11/3/98</i>	
Authorizing Title: <i>Team Leader, Sunny Management Team</i>		Phone: (202) 586-2991		

Freedom of Information Act Request  
Certification

To: Dorothy Pritchett

Request # F2001-00630

Date: June 7, 2002

The attached request has been referred to your office, for action. Please complete this form and return it along with any responsive documents to *A. J. [unclear]*. Direct any questions to me on 6-5261

Please check/complete where appropriate:

- The documents transmitted herewith contain no classified or unclassified information on technologies supporting nuclear weapons design and production, etc.
- The documents transmitted herewith were found to contain classified or unclassified information on technologies supporting nuclear weapons design and production, etc., and have been referred for review (memo attached).
- We have been unable to locate any documents responsive to this request.
- Pages (Number) of documents have been identified.

It is recommended that the documents transmitted herewith be:

- Released in their entirety
- Partially withheld for the reasons stated in the attachment
- Withheld in their entirety for the reasons stated in the attachment

A thorough search has been conducted for records/information responsive to this request. Also, please fill in the following:

Search Time/Hourly Rate: \_\_\_\_\_

Review time/hourly rate: \_\_\_\_\_

I certify by signature that all responsive material has been brought to the attention of the FOIA/Privacy act office.

Stephen Durbin  
Authorizing Official Print Name

[Signature]  
Signature

Director, ORM  
Title

June 17, 2002  
Date

**Please Note: When releasing or denying information this form can only be signed by the designated Authorizing/Denying Officials.**

*duplants*  
(314) 878-3790  
FAX (314) 878-7386

MICHAEL O'N. BARRON  
ATTORNEY AT LAW  
12417 CONWAY ROAD  
ST. LOUIS, MISSOURI 63141

April 21, 1999

APR 27 1999 *d/*

COMMERCIAL SEARCH, REVIEW & REPRODUCTION

Ms. GayLa D. Sessoms  
Director, FOI and Privacy Groups  
HR-73  
Office of Hearings and Appeals  
Department of Energy  
Forrestal Building  
1000 Independence Ave., S.W.  
Washington, D.C. 20585

Re: Freedom of Information  
Enron Corporation/Amoco Corporation  
Case No. RR340-2

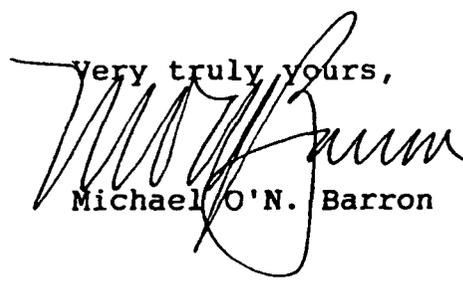
Dear Ms. Sessoms:

On behalf of Amoco Corporation, an applicant in the Enron Corporation refund procedure, I am making this request for documents previously filed by Amoco in compliance with DOE price regulations.

I request that you copy and furnish copies of the FEA/DOE forms which Amoco used to file its "Refiner's Monthly Cost Allocation Reports" which it filed in the months between November 1973 and January 1981. These forms may have had different numbers through the years but it is my understanding that the last form number was FEO-96. These forms were three or four page documents and I would appreciate your copying all of the pages for each monthly report.

Please be advised that we will pay whatever charges result from our request for documents.

If you have any questions about this request or need any clarification of the information requested, please call me immediately.

Very truly yours,  
  
Michael O'N. Barron

MONB:mk

cc: Warren Gray  
Department of Energy  
Brenda Melzer  
Amoco Corporation

1999 APR 27 A 11:19  
DEPT. OF ENERGY  
FOIA

RECEIVED

*Brenda*

Freedom of Information Act Request  
Certification

To: Dorothy Pritchett

Request # F2001-00630

Date: June 7, 2002

The attached request has been referred to your office, for action. Please complete this form and return it along with any responsive documents to *A. J. [unclear]*. Direct any questions to me on 6-5141

Please check/complete where appropriate:

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Search Time/Hourly Rate: \_\_\_\_\_

Review time/hourly rate: \_\_\_\_\_

I certify by signature that all responsive material has been brought to the attention of the FOIA/Privacy act office.

Lawrence R. Klur  
Authorizing Official Print Name

[Signature]  
Signature

Legislative Assistant, EIA, 6/13/02  
Title Date

Please Note: When releasing or denying information this form can only be signed by the designated Authorizing/Denying Officials.

THIS IS PERTINENT ONLY  
FOR THE ADMINISTRATOR'S OFFICE,  
EIA.

Freedom of Information Act Request  
Certification

To: Dorothy Pritchett

Request # F2001-00630

Date: June 7, 2002

The attached request has been referred to your office, for action. Please complete this form and return it along with any responsive documents to *A. J. Kirkendall*. Direct any questions to me on 6-5741

Please check/complete where appropriate:

- The documents transmitted herewith contain no classified or unclassified information on technologies supporting nuclear weapons design and production, etc.
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Search Time/Hourly Rate: \_\_\_\_\_

Review time/hourly rate: \_\_\_\_\_

I certify by signature that all responsive material has been brought to the attention of the FOIA/Privacy act office.

NANCY J KIRKENDALL  
Authorizing Official Print Name

*Nancy J Kirkendall*  
Signature

Director, SMG  
Title

6/11/02  
Date

Please Note: When releasing or denying information this form can only be signed by the designated Authorizing/Denying Officials.

Freedom of Information Act Request  
Certification

To: Dorothy Pritchett

Request # F2001-00630

Date: June 7, 2002

The attached request has been referred to your office, for action. Please complete this form and return it along with any responsive documents to *A. J. [Signature]*. Direct any questions to me on 6-5761

Please check/complete where appropriate:

- The documents transmitted herewith contain no classified or unclassified information on technologies supporting nuclear weapons design and production, etc.
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Search Time/Hourly Rate: \_\_\_\_\_

Review time/hourly rate: \_\_\_\_\_

I certify by signature that all responsive material has been brought to the attention of the FOIA/Privacy act office.

William R. Underwood  
Authorizing Official Print Name

*W. R. Underwood*  
Signature

CIO, Office of Information  
Technology, EIA

June 11, 2002

Title

Date

Please Note: When releasing or denying information this form can only be signed by the designated Authorizing/Denying Officials.

Freedom of Information Act Request  
Certification

To: Dorothy Pritchett

Request # F2001-00630

Date: June 7, 2002

The attached request has been referred to your office, for action. Please complete this form and return it along with any responsive documents to *A. J. [unclear]*. Direct any questions to me on 6-5741

Please check/complete where appropriate:

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Search Time/Hourly Rate: \_\_\_\_\_

Review time/hourly rate: \_\_\_\_\_

I certify by signature that all responsive material has been brought to the attention of the FOIA/Privacy act office.

mark Rodelokov  
Authorizing Official Print Name

[Signature]  
Signature

Dir. EMCID  
Title

6/12/02  
Date

Please Note: When releasing or denying information this form can only be signed by the designated Authorizing/Denying Officials.

Freedom of Information Act Request  
Certification

To: Dorothy Pritchett

Request # F2001-00630

Date: June 7, 2002

The attached request has been referred to your office, for action. Please complete this form and return it along with any responsive documents to *S. Jeter*. Direct any questions to me on 6-5761

Please check/complete where appropriate:

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- 7 Pages (Number) of documents have been identified.

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A thorough search has been conducted for records/information responsive to this request. Also, please fill in the following:

Search Time/Hourly Rate: 2 hours @ \$45/hr

Review time/hourly rate: 1 hour @ \$68/hr

I certify by signature that all responsive material has been brought to the attention of the FOIA/Privacy act office.

Kenneth A. Vagts  
Authorizing Official Print Name

Elizabeth Conghe acting for K.A. Vagts  
Signature

Director, Office of Air and Gas  
EIA  
Title

6-17-02  
Date

Please Note: When releasing or denying information this form can only be signed by the designated Authorizing/Denying Officials.

Freedom of Information Act Request  
Certification

To: Dorothy Pritchett

Request # F2001-00630

Date: June 7, 2002

The attached request has been referred to your office, for action. Please complete this form and return it along with any responsive documents to A. Jeter. Direct any questions to me on 6-5761

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A thorough search has been conducted for records/information responsive to this request. Also, please fill in the following:

Search Time/Hourly Rate: GS-13 employee

Review time/hourly rate: 2 hours

I certify by signature that all responsive material has been brought to the attention of the FOIA/Privacy act office.

John Weiner  
Authorizing Official Print Name

[Signature]  
Signature

Director, NEIC  
Title

June 17, 2002  
Date

**Please Note: When releasing or denying information this form can only be signed by the designated Authorizing/Denying Officials.**

Freedom of Information Act Request  
Certification

To: Dorothy Pritchett

Request # F2001-00630

Date: June 7, 2002

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Review time/hourly rate: \_\_\_\_\_

I certify by signature that all responsive material has been brought to the attention of the FOIA/Privacy act office.

Stephen Durbin  
Authorizing Official Print Name

[Signature]  
Signature

Director, ORM  
Title

June 17, 2002  
Date

**Please Note: When releasing or denying information this form can only be signed by the designated Authorizing/Denying Officials.**

Freedom of Information Act Request  
Certification

To: Dorothy Pritchett

Request # F2001-00630

Date: June 7, 2002

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I certify by signature that all responsive material has been brought to the attention of the FOIA/Privacy act office.

Lawrence R. Klur  
Authorizing Official Print Name

[Signature]  
Signature

Legislative Assistant, EIA 6/13/02  
Title Date

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FOR THE ADMINISTRATOR'S OFFICE,  
EIA.

Freedom of Information Act Request  
Certification

To: Dorothy Pritchett

Request # F2001-00630

Date: June 7, 2002

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Search Time/Hourly Rate: \_\_\_\_\_

Review time/hourly rate: \_\_\_\_\_

I certify by signature that all responsive material has been brought to the attention of the FOIA/Privacy act office.

NANCY J KIRKENDALL  
Authorizing Official Print Name

*Nancy J Kirkendall*  
Signature

Director, SMG  
Title

6/11/02  
Date

Please Note: When releasing or denying information this form can only be signed by the designated Authorizing/Denying Officials.

Freedom of Information Act Request  
Certification

To: Dorothy Pritchett

Request # F2001-00630

Date: June 7, 2002

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William R. Underwood  
Authorizing Official Print Name

*W. R. Underwood*  
Signature

CIO, Office of Information  
Technology, EIA

June 11, 2002

Title

Date

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Freedom of Information Act Request  
Certification

To: Dorothy Pritchett

Request # F2001-00630

Date: June 7, 2002

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I certify by signature that all responsive material has been brought to the attention of the FOIA/Privacy act office.

mark Rodek  
Authorizing Official Print Name

[Signature]  
Signature

Dir. EMCIA  
Title

6/12/02  
Date

Please Note: When releasing or denying information this form can only be signed by the designated Authorizing/Denying Officials.

Freedom of Information Act Request  
Certification

To: Dorothy Pritchett

Request # F2001-00630

Date: June 7, 2002

The attached request has been referred to your office, for action. Please complete this form and return it along with any responsive documents to *J. Lee*. Direct any questions to me on 6-5761

Please check/complete where appropriate:

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Search Time/Hourly Rate: 2 hours @ \$45/hr

Review time/hourly rate: 1 hour @ \$68/hr

I certify by signature that all responsive material has been brought to the attention of the FOIA/Privacy act office.

Kenneth A. Vaats  
Authorizing Official Print Name

Elizabeth Congdon acting for K.A. Vaats  
Signature

Director, Office of Alan Gus  
EIA  
Title

6-17-02  
Date

**Please Note: When releasing or denying information this form can only be signed by the designated Authorizing/Denying Officials.**

Freedom of Information Act Request  
Certification

To: Dorothy Pritchett

Request # F2001-00630

Date: June 7, 2002

The attached request has been referred to your office, for action. Please complete this form and return it along with any responsive documents to *A. J. [unclear]*. Direct any questions to me on 6-576-1

Please check/complete where appropriate:

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Search Time/Hourly Rate: GS-13 employee

Review time/hourly rate: 2 hours

I certify by signature that all responsive material has been brought to the attention of the FOIA/Privacy act office.

John Weiner  
Authorizing Official Print Name

[Signature]  
Signature

Director, NEIC  
Title

June 17, 2002  
Date

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Freedom of Information Act Request  
Certification

To: Dorothy Pritchett

Request # F2001-00630

Date: June 7, 2002

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Stephen Durbin  
Authorizing Official Print Name

[Signature]  
Signature

Director, ORM  
Title

June 17, 2002  
Date

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Freedom of Information Act Request  
Certification

To: Dorothy Pritchett

Request # F2001-00630

Date: June 7, 2002

The attached request has been referred to your office, for action. Please complete this form and return it along with any responsive documents to *A. J. [unclear]*. Direct any questions to me on 6-5141

Please check/complete where appropriate:

- The documents transmitted herewith contain no classified or unclassified information on technologies supporting nuclear weapons design and production, etc.
- The documents transmitted herewith were found to contain classified or unclassified information on technologies supporting nuclear weapons design and production, etc., and have been referred for review (memo attached).
- We have been unable to locate any documents responsive to this request.
- Pages (Number) of documents have been identified.

It is recommended that the documents transmitted herewith be:

- Released in their entirety
- Partially withheld for the reasons stated in the attachment
- Withheld in their entirety for the reasons stated in the attachment

A thorough search has been conducted for records/information responsive to this request. Also, please fill in the following:

Search Time/Hourly Rate: \_\_\_\_\_

Review time/hourly rate: \_\_\_\_\_

I certify by signature that all responsive material has been brought to the attention of the FOIA/Privacy act office.

Lawrence R. Klur  
Authorizing Official Print Name

[Signature]  
Signature

Legislative Assistant, EIA  
Title

6/13/02  
Date

Please Note: When releasing or denying information this form can only be signed by the designated Authorizing/Denying Officials.

THIS IS PERTINENT ONLY  
FOR THE ADMINISTRATOR'S OFFICE,  
EIA.

Freedom of Information Act Request  
Certification

To: Dorothy Pritchett

Request # F2001-00630

Date: June 7, 2002

The attached request has been referred to your office, for action. Please complete this form and return it along with any responsive documents to *A. J. [unclear]*. Direct any questions to me on 6-5161

Please check/complete where appropriate:

The documents transmitted herewith contain no classified or unclassified information on technologies supporting nuclear weapons design and production, etc.

The documents transmitted herewith were found to contain classified or unclassified information on technologies supporting nuclear weapons design and production, etc., and have been referred for review (memo attached).

We have been unable to locate any documents responsive to this request.

Pages (Number) of documents have been identified.

It is recommended that the documents transmitted herewith be:

Released in their entirety

Partially withheld for the reasons stated in the attachment

Withheld in their entirety for the reasons stated in the attachment

A thorough search has been conducted for records/information responsive to this request. Also, please fill in the following:

Search Time/Hourly Rate: \_\_\_\_\_

Review time/hourly rate: \_\_\_\_\_

I certify by signature that all responsive material has been brought to the attention of the FOIA/Privacy act office.

NANCY J KIRKENDALL  
Authorizing Official Print Name

Nancy J Kirkendall  
Signature

Director, SMG  
Title

6/11/02  
Date

Please Note: When releasing or denying information this form can only be signed by the designated Authorizing/Denying Officials.

Freedom of Information Act Request  
Certification

To: Dorothy Pritchett

Request # F2001-00630

Date: June 7, 2002

The attached request has been referred to your office, for action. Please complete this form and return it along with any responsive documents to *A. J. [unclear]*. Direct any questions to me on 6-5761

Please check/complete where appropriate:

- The documents transmitted herewith contain no classified or unclassified information on technologies supporting nuclear weapons design and production, etc.
- The documents transmitted herewith were found to contain classified or unclassified information on technologies supporting nuclear weapons design and production, etc., and have been referred for review (memo attached).
- We have been unable to locate any documents responsive to this request.
- Pages (Number) of documents have been identified.

It is recommended that the documents transmitted herewith be:

- Released in their entirety
- Partially withheld for the reasons stated in the attachment
- Withheld in their entirety for the reasons stated in the attachment

A thorough search has been conducted for records/information responsive to this request. Also, please fill in the following:

Search Time/Hourly Rate: \_\_\_\_\_

Review time/hourly rate: \_\_\_\_\_

I certify by signature that all responsive material has been brought to the attention of the FOIA/Privacy act office.

William R. Underwood  
Authorizing Official Print Name

*W. R. Underwood*  
Signature

CIO, Office of Information  
Technology, EIA  
Title

June 11, 2002  
Date

Please Note: When releasing or denying information this form can only be signed by the designated Authorizing/Denying Officials.

Freedom of Information Act Request  
Certification

To: Dorothy Pritchett

Request # F2001-00630

Date: June 7, 2002

The attached request has been referred to your office, for action. Please complete this form and return it along with any responsive documents to AP. Direct any questions to me on 6-5161

Please check/complete where appropriate:

The documents transmitted herewith contain no classified or unclassified information on technologies supporting nuclear weapons design and production, etc.

The documents transmitted herewith were found to contain classified or unclassified information on technologies supporting nuclear weapons design and production, etc., and have been referred for review (memo attached).

We have been unable to locate any documents responsive to this request.

Pages (Number) of documents have been identified.

It is recommended that the documents transmitted herewith be:

Released in their entirety

Partially withheld for the reasons stated in the attachment

Withheld in their entirety for the reasons stated in the attachment

A thorough search has been conducted for records/information responsive to this request. Also, please fill in the following:

Search Time/Hourly Rate:                     

Review time/hourly rate:                     

I certify by signature that all responsive material has been brought to the attention of the FOIA/Privacy act office.

mark Rodekohl  
Authorizing Official Print Name

[Signature]  
Signature

Dir. EMCIA  
Title

6/12/02  
Date

Please Note: When releasing or denying information this form can only be signed by the designated Authorizing/Denying Officials.

Freedom of Information Act Request  
Certification

To: Dorothy Pritchett

Request # F2001-00630

Date: June 7, 2002

The attached request has been referred to your office, for action. Please complete this form and return it along with any responsive documents to *S. J. [unclear]*. Direct any questions to me on 6-576-1

Please check/complete where appropriate:

- The documents transmitted herewith contain no classified or unclassified information on technologies supporting nuclear weapons design and production, etc.
- The documents transmitted herewith were found to contain classified or unclassified information on technologies supporting nuclear weapons design and production, etc., and have been referred for review (memo attached).
- We have been unable to locate any documents responsive to this request.
- 7 Pages (Number) of documents have been identified.

It is recommended that the documents transmitted herewith be:

- Released in their entirety
- Partially withheld for the reasons stated in the attachment
- Withheld in their entirety for the reasons stated in the attachment

A thorough search has been conducted for records/information responsive to this request. Also, please fill in the following:

Search Time/Hourly Rate: 2 hours @ \$45/hr  
Review time/hourly rate: 1 hour @ \$68/hr

I certify by signature that all responsive material has been brought to the attention of the FOIA/Privacy act office.

Kenneth A. Vogts  
Authorizing Official Print Name

Elizabeth Conger acting for K. A. Vogts  
Signature

Director, Office of Alan Gus  
EIA  
Title

6-17-02  
Date

Please Note: When releasing or denying information this form can only be signed by the designated Authorizing/Denying Officials.

Freedom of Information Act Request  
Certification

To: Dorothy Pritchett

Request # F2001-00630

Date: June 7, 2002

The attached request has been referred to your office, for action. Please complete this form and return it along with any responsive documents to *A. Weiner*. Direct any questions to me on 6-5761

Please check/complete where appropriate:

- The documents transmitted herewith contain no classified or unclassified information on technologies supporting nuclear weapons design and production, etc.
- The documents transmitted herewith were found to contain classified or unclassified information on technologies supporting nuclear weapons design and production, etc., and have been referred for review (memo attached).
- We have been unable to locate any documents responsive to this request.
- Pages (Number) of documents have been identified.

It is recommended that the documents transmitted herewith be:

- Released in their entirety
- Partially withheld for the reasons stated in the attachment
- Withheld in their entirety for the reasons stated in the attachment

A thorough search has been conducted for records/information responsive to this request. Also, please fill in the following:

Search Time/Hourly Rate: GS-13 employee

Review time/hourly rate: 2 hours

I certify by signature that all responsive material has been brought to the attention of the FOIA/Privacy act office.

John Weiner  
Authorizing Official Print Name

*John Weiner*  
Signature

Director, NEIC  
Title

June 17, 2002  
Date

**Please Note: When releasing or denying information this form can only be signed by the designated Authorizing/Denying Officials.**