

TECHNOLOGY ASSESSMENT DIVISION

TECHNICAL DATA REPORT  
Expanded Edition

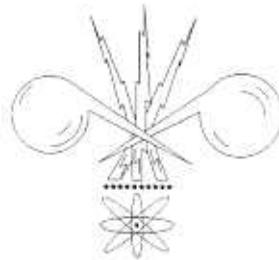
Refinery Capacity & Operating Rates  
October 1990 Survey

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*TECHNOLOGY ASSESSMENT DIVISION*

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## SUMMARY

In October 1990 the Technology Assessment Division conducted its second telephone survey of Louisiana's operating refineries. Currently the respondents report that they are virtually all operating at capacity or have "everything running."

There have been few important capacity changes in Louisiana since our 1989 survey. Shell Oil has a major construction project to replace a cat cracker which was lost in a fire. Startup is still some two years away. There have been some capacity increases in 1990 which the individual refiners describe as debottlenecking. There have also been some minor capacity decreases which have been attributed to decommissioning marginal units. The Department of Energy reports that Louisiana's total operating refinery capacity dropped by 2 percent or 44,300 bbl per calendar day. Only one small (2,800 bbl/day) refinery was removed entirely from the list in this total. It was a single distillation column in a gas plant that was operated once a month on a batch basis. The rest of the decrease has been due to internal changes in existing refineries. In the opposite direction one large refiner said that they had been able to increase their capacity by about 6 percent due to changes in operating philosophy. This did not represent a capital expenditure.

In summary, the state's refinery capacity is essentially unchanged from 1989. There have been some debottlenecking projects and some marginal equipment taken out of Louisiana's pool. The net effect was a small reduction in operating capacity.

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## COMMENTS

The refinery operating rates are from an October 1990 telephone survey. The state has a total operating capacity of 2 million barrels per calendar day. The total daily operating rate, based on a weighted average, was 92.0 percent for Louisiana in 1990. This high operating rate reflects how the larger refineries have more influence over the state average when calculated in this manner.

Looking at some of the operating rates that were significantly different from the average, one finds the following types of comments from the telephone survey. The lowest operating rate reported is for a small lube oil refinery. It is reported to be for sale. Another small refinery was recently sold and has actually almost doubled its operating rate from last year. The third refinery that is running somewhat less than normal reported that they have a unit in the capacity they report to the Department of Energy that they rarely operate. In other words, refinery operating rates in Louisiana are distributed pretty much as one would expect from normally distributed data. This is especially true of the average and larger sized refineries. There are some special situations with a few small refineries. There are some 100 percent operating rates that reflect recent turnarounds, new operating philosophies, and/or favorable feedstocks.

One medium sized refinery was found to be producing a sub-octane blendstock specifically for gasohol. When ethanol is added, it brings the octane of the mixture up to the standard motor fuel range due to its good octane enhancing properties. Another small refiner reports selling gasohol blends at all of its company stations as well as providing it to some independent stations in its New Orleans and south Louisiana marketing area. Bio-Com USA, formerly the Shepherd Oil refinery in the Jennings area, is currently producing fuel ethanol for sales in Louisiana and in other states. There have been several inquiries from independent retailers wanting to know where they might buy gasohol since the Persian Gulf crisis.

In closing, each year the Technology Assessment Division attempts to address the most frequent questions or areas of interest people express about the previous year's report. Currently the greatest interest seems to be in the non-operating refinery list. This year a great deal of effort was put into establishing the actual physical location of every refinery in the state. The names of some refineries have changed several times over the years, especially the inactive refineries. Two new tables of the physical locations of refineries are included in this survey in addition to the last mailing address we have.

The state Mineral Board reports to us that they did a mailing to the thirty-three refineries on our list in 1991 and that only three letters were returned as undeliverable. We have been unable to contact these plants by telephone. However, we were able to locate them physically from Louisiana oil and gas maps which the Department of Natural Resources publishes.

LOUISIANA OPERATING REFINERY  
ADDRESS & CONTACT LIST  
Technology Assessment Division  
1990 Survey

REP3

| NAME                             | ADDRESS                            | CITY                       | STATE | ZIP   | AREA CODE | TELEPHONE | DNR CODE | PLANT MANAGER            | CHIEF ENGINEER           |
|----------------------------------|------------------------------------|----------------------------|-------|-------|-----------|-----------|----------|--------------------------|--------------------------|
| B. P. Oil Co.                    | Box 395                            | Belle Chasse<br>(Alliance) | La.   | 70037 | 504       | 656-7711  | STN      | Donald D. Ring           | Dennis L. Neil           |
| Calcasieu Refining Company       | Box 6028                           | Lake Charles               | La.   | 70606 | 318       | 478-2130  | CLC      | Emmett Hayden            | Tom Prudhomme            |
| Calumet Refining Co.             | H-C 62, Box 460                    | Princeton                  | La.   | 70167 | 318       | 949-2421  | CLM      | Jerry Arnold             | Grady Lee                |
| Canal Refining Co.               | Box 8                              | Church Point               | La.   | 70525 | 318       | 684-5421  | CNL      | Percy Carrier            | Arron Hornsby            |
| Citgo Petroleum Corp.            | Box 1562                           | Lake Charles               | La.   | 70601 | 318       | 491-6165  | CTS      | Jerry E. Thompson, V. P. | Bill Bokowski, Gen. Mgr. |
| Claiborne Gasoline Co.           | Box 170                            | Lisbon                     | La.   | 70148 | 318       | 353-6668  | CLB      | Roy Dancy                | Fritz Howes              |
| Conoco Inc./Lake Charles         | Box 37                             | Westlake (Lake Charles)    | La.   | 70669 | 318       | 491-5230  | CNB      | D. R. Unruh              | Lloyd Winger             |
| -4- Dubach Gas Co.               | Rt. 2, Box 1-3EE                   | Dubach                     | La.   | 71235 | 318       | 777-3416  | KRR      | Jack Hall                | Ron Palluliot            |
| Exxon Co. U.S.A.                 | Box 551                            | Baton Rouge                | La.   | 70821 | 504       | 359-7711  | EXX      | Ed Glante                | Keith Baugher            |
| Hill Petroleum Co./Krotz Springs | Box 453                            | Krotz Springs              | La.   | 70750 | 318       | 566-2301  | HLL      | Clint Dyess              | Chuck Evans              |
| Hill Petroleum Co./St. Rose      | Box 630                            | St. Rose                   | La.   | 70087 | 504       | 465-0044  | INT      | Clint Dyess              | Gary Louque              |
| Kerr-McGee Refining Corp.        | Box 97                             | Cotton Valley              | La.   | 71018 | 318       | 832-4236  | CTT      | D.D. Parker              | Gerald Collins           |
| Marathon Petroleum Co.           | Box AC                             | Garyville                  | La.   | 70051 | 504       | 535-2241  | MRT      | George Low               | Jerry Welch              |
| Mobil Oil                        | Box 1005                           | Chalmette                  | La.   | 70044 | 504       | 279-9481  | TNN      | Rick Pisarczyk           | Tom Katanis              |
| Murphy Oil U.S.A. Inc.           | Box 100                            | Meraux                     | La.   | 70075 | 504       | 271-4141  | MRP      | J. T. Cambre             | Earl Smith               |
| Pennzoil Products Co.            | Box 3099                           | Shreveport                 | La.   | 71103 | 318       | 632-4111  | ATL      | George Thoreson          | Bryan Noble              |
| Placid Refining Co.              | 1940 Louisiana Highway #1<br>North | Port Allen                 | La.   | 70767 | 504       | 387-0278  | PLC      | Dale Emanuel             | Keith Passman            |
| Shell Oil Co.                    | Box 10                             | Norco                      | La.   | 70079 | 504       | 465-7111  | SHL      | Fred Foster              | Dick Bosse               |

LOUISIANA OPERATING REFINERY  
ADDRESS & CONTACT LIST  
Technology Assessment Division  
1990 Survey

REP3

| NAME            | ADDRESS | CITY    | STATE | ZIP   | AREA<br>CODE | TELEPHONE | DNR<br>CODE | PLANT<br>MANAGER | CHIEF<br>ENGINEER |
|-----------------|---------|---------|-------|-------|--------------|-----------|-------------|------------------|-------------------|
| Star Enterprise | Bex 37  | Convent | La.   | 70723 | 504          | 562-7681  | TXC         | G. A. Birmingham | Mike Ballanger    |

LOUISIANA OPERATING REFINERY LOCATIONS

| NAME                   | LOCATION  |
|------------------------|---|
| B. P. Oil Co.          | Belle Chase,<br>12 mi. south on Hwy 23                              |
| Calcasieu Refining Co. | Lake Charles,<br>west end of Tank Farm Road                         |
| Calumet Refining Co.   | Princeton,<br>Hwy. 157 North  |
| Canal Refining Co.     | Church Point,<br>2 mi. north on Hwy. 178                            |
| Citgo Petroleum Corp.  | Lake Charles, Exit I-10 Bridge on Industries<br>Hwy. 108 West, 2mi. |
| Claiborne Gasoline Co. | Lisbon,<br>3 mi. east on Hwy. 2                                     |
| Conoco Inc.            | Lake Charles, Exit I-10 Bridge,<br>go to end of Old Spanish Trail   |
| Dubach Gas Co.         | Dubach,<br>Hwy. 167 South, 1/4 mi.                                  |
| Exxon Co. U.S.A.       | Baton Rouge,<br>4045 Scenic Hwy.                                    |

| NAME                             | LOCATION  |
|----------------------------------|---|
| Hill Petroleum Co./Krotz Springs | Krotz Springs,<br>Hwy. 105 South, in town                         |
| Hill Petroleum Co./St. Rose      | St. Rose,<br>27009 River Road                                     |
| Kerr-McGee Refining Corp.        | Cotton Valley,<br>Hwy. 7 South, at city limits                    |
| Marathon Petroleum Co.           | Between Garryville and Reserve,<br>Hwy. 61, 2 mi. from Garryville |
| Mobil Oil                        | Chalmette,<br>500 W. St. Benard Hwy.                              |
| Murphy Oil U.S.A. Inc.           | Meraux,<br>2500 St. Bernard Hwy.                                  |
| Penzoil Products Co.             | Shreveport,<br>3333 Midway Ave.                                   |
| Placid Refining Co.              | Port Allen,<br>1940 Hwy. 1 North                                  |
| Shell Oil Co.                    | Norco,<br>River Road in Norco                                     |
| Star Enterprise                  | Convent,<br>Route 44 at foot of Sunshine Bridge                   |

LOUISIANA OPERATING REFINERIES  
 CRUDE CAPACITY (barrels/calendar day) AND PRODUCT SLATE(%)  
 1990 Technology Assessment Division Survey

| NAME                             | OPERATING CAPACITY* | OPER RATE % | GASOLINE |           |      |      | OTHER FUELS |           |          | MISCELLANEOUS |       |       | OTHER PRODUCTS  |                 |                |
|----------------------------------|---------------------|-------------|----------|-----------|------|------|-------------|-----------|----------|---------------|-------|-------|-----------------|-----------------|----------------|
|                                  |                     |             | REG      | MID GRADE | PREM | LEAD | DIESEL      | JET/ KERO | FUEL OIL | LPG's         | NAPTH | RESID | PRODUCT 1       | PRODUCT 2       | PRODUCT 3      |
| B. P. Oil Co.                    | 214,000             | 88.0        | 28.3     | 8.6       | 10.8 | 0.0  | 30.7        | 11.9      | 0.0      | 1.6           | 0.0   | 1.6   | 2.8             | 1.8             | 1.9            |
| Calcasieu Refining Company       | 13,500              | 89.0        | 0.0      | 0.0       | 0.0  | 0.0  | 25.0        | 26.0      | 9.0      | 4.0           | 36.0  | 0.0   | Benzene/Xylene  | Carb. Blk. Feed | Intermediates  |
| Calumet Refining Co.             | 4,200               | 60.0        | 0.0      | 0.0       | 0.0  | 0.0  | 3.0         | 0.0       | 0.0      | 0.0           | 0.0   | 22.0  | 75.0            | 0.0             | 0.0            |
| Canal Refining Co.               | 10,000              | 80.0        | 21.0     | 0.0       | 0.0  | 10.0 | 48.0        | 0.0       | 0.0      | 0.0           | 0.0   | 21.0  | Lube Oil        | 0.0             | 0.0            |
| Citgo Petroleum Corp.**          | 282,000             | 94.0        | 24.4     | 7.7       | 14.6 | 0.0  | 14.2        | 1.1       | 16.2     | 3.1           | 0.0   | 10.1  | 8.5             | 0.0             | 0.0            |
| Clalborne Gasoline Co.           | 7,500               | 90.0        | 25.0     | 0.0       | 0.0  | 0.0  | 0.0         | 15.0      | 25.0     | 0.0           | 0.0   | 0.0   | 35.0            | 0.0             | 0.0            |
| Conoco Inc./Lake Charles         | 156,500             | 100.0       | 19.2     | 2.2       | 5.7  | 0.0  | 34.3        | 7.8       | 0.0      | 2.3           | 0.0   | 17.9  | 9.1             | 1.5             | 0.0            |
| Dubach Gas Co.                   | 10,000              | 70.0        | 0.0      | 0.0       | 0.0  | 0.0  | 0.0         | 22.0      | 0.0      | 0.0           | 42.0  | 0.0   | 16.0            | 20.0            | 0.0            |
| Exxon Co. U.S.A.                 | 421,000             | 90.0        | 21.0     | 7.0       | 13.0 | 0.0  | 15.0        | 14.0      | 0.0      | 2.0           | 0.0   | 5.0   | 2.0             | 13.0            | 8.0            |
| Hill Petroleum Co./Krotz Springs | 57,500              | 97.0        | 0.0      | 0.0       | 0.0  | 0.0  | 15.0        | 17.0      | 0.0      | 2.0           | 21.0  | 18.0  | Lube Oil        | Exxon Chemical  | Internal Fuels |
| Hill Petroleum Co./St. Rose      | 40,000              | 98.0        | 0.0      | 0.0       | 0.0  | 0.0  | 8.0         | 9.0       | 36.0     | 0.0           | 13.0  | 0.0   | 4.0             | 23.0            | 0.0            |
| Kerr-McGee Refining Corp.        | 7,800               | 85.0        | 0.0      | 0.0       | 0.0  | 0.0  | 0.0         | 0.0       | 0.0      | 0.0           | 33.0  | 0.0   | Lt. St. Run Gas | Hv. Vac Gas Oil | 0.0            |
| Marathon Petroleum Co.           | 255,000             | 88.0        | 43.3     | 3.9       | 7.2  | 0.0  | 0.0         | 3.8       | 27.5     | 2.8           | 0.0   | 11.1  | 14.0            | 21.0            | 0.0            |
| Mobil Oil**                      | 160,000             | 91.2        | 25.0     | 6.9       | 13.8 | 1.6  | 23.1        | 10.6      | 0.0      | 0.0           | 0.0   | 5.2   | 33.0            | 33.0            | 0.0            |
| Murphy Oil U.S.A. Inc.           | 76,000              | 92.0        | 36.0     | 0.0       | 14.0 | 0.0  | 24.0        | 17.0      | 8.0      | 1.0           | 0.0   | 0.0   | Bright Stock    | 33.0            | 0.0            |
| Pennzoil Products Co.            | 46,200              | 74.0        | 8.0      | 2.0       | 2.0  | 0.0  | 0.0         | 19.0      | 22.0     | 0.0           | 0.0   | 9.0   | 0.0             | 0.0             | 0.0            |
| Placid Refining Co.              | 47,000              | 94.0        | 24.2     | 4.4       | 11.0 | 0.0  | 29.5        | 12.5      | 5.5      | 4.5           | 0.0   | 0.0   | 0.0             | 0.0             | 0.0            |
| Shell Oil Co.                    | 215,000             | 90.0        | 23.0     | 7.0       | 16.0 | 0.0  | 0.0         | 17.0      | 5.0      | 0.0           | 0.0   | 0.0   | 23.0            | 8.0             | 3.0            |
| Star Enterprise                  | 225,000             | 100.0       | 36.0     | 3.0       | 1.0  | 0.0  | 20.0        | 14.0      | 16.0     | 3.0           | 0.0   | 0.0   | Lubes/Motor Oil | Cat Feed        | Waxes          |
| STATE AVERAGE                    |                     | 92.0        | 25.6     | 5.2       | 9.8  | 0.2  | 16.1        | 10.7      | 8.9      | 1.9           | 1.3   | 6.0   | 4.4             | 0.0             | 0.0            |

\* May differ slightly from January 1, 1990 U. S. Department of Energy Refinery Report

\*\* Recomputed from percent of input to percent of output.

Note: The operating rates are the result of an October 1990 telephone survey. They are year to date rates and may differ from operating rates reported elsewhere.

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Capacity of Operable Petroleum Refineries as of January 1, 1990  
(Barrels per Stream Day, Except Where Noted)

| State/Refiner/Location                               | Atmospheric Crude Oil Distillation Capacity |         |                        |         | Downstream Charge Capacity |   |                    |          |  | Production Capacity     |   |                             |           |         |           |   |            |            |                  |                           |                         |
|--|---|---------|------------------------|---------|----------------------------|---|--------------------|----------|--|-------------------------|---|-----------------------------|-----------|---------|-----------|---|------------|------------|------------------|---------------------------|-------------------------|
|  | Barrels per Calendar Day                    |         | Barrels per Stream Day |         | Vacuum Distillation        | Thermal Cracking                              | Catalytic Cracking |          | Catalytic Reforming                          | Catalytic Hydrocracking | Catalytic Hydro-treating  | Fuels Solvent Desasphalting | Alkylates | Asphalt | Aromatics | Isomers                                     |            | Lubricants | Hydrogen (MMcfd) | Marketable Petroleum Coke | Sulfur (short tons/day) |
|  | Operating                                   | Idle    | Operating              | Idle    |                            |   | Fresh              | Recycled |  |                         |   |                             |           |         |           | Isomers                                     | Lubricants |            |                  |                           |                         |
| <b>Louisiana</b>                                     | 2,241,847                                   | 348,500 | 2,367,400              | 418,500 | 1,152,200                  | 562,700                                       | 891,600            | 11,500   | 536,150                                      | 157,000                 | 1,215,875   | 35,500                      | 193,900   | 67,410  | 23,000    | 82,120                                      | 17,590     | 222        | 75,500           | 3,128                     |                         |
| American International Refinery Inc.<br>Lake Charles | C   | 27,000  | 0                      | 30,000  | 0                          | 0   | 0                  | 0        | <sup>1</sup> 10,800                          | 0                       | <sup>2</sup> 10,800   | 0                           | 0         | 0       | 0         | 0   | 0          | 0          | 0                | 0                         | 0                       |
| BP Oil Corp.<br>Belle Chasse                         | 2,336 <sup>3</sup>                          | 0       | 218,000                | 0       | 68,000                     | <sup>4</sup> 18,000                           | 69,000             | 2,000    | <sup>5</sup> 36,000                          | 0                       | <sup>6</sup> 42,000<br><sup>7</sup> 22,000<br><sup>8</sup> 32,000     | 0                           | 28,000    | 0       | 9,000     | 0   | 0          | 40         | 3,000            | 45                        |                         |
| Casasau Refining Co.<br>Lake Charles                 | 13,500                                      | 0       | 14,000                 | 0       | 0                          | 0   | 0                  | 0        | 0  | 0                       | 0   | 0                           | 0         | 0       | 0         | 0   | 0          | 0          | 0                | 0                         |                         |
| Catmer Refining Co.<br>Pinebluff                     | 4,707                                       | 0       | 4,400                  | 0       | 4,400                      | 0   | 0                  | 0        | 0  | 0                       | <sup>9</sup> 4,400  | 0                           | 0         | 910     | 0         | 0   | 3,450      | 0          | 0                | 0                         |                         |
| Canal Refining Co.<br>Church Point                   | 8,900                                       | 0       | 8,800                  | 0       | 0                          | 0   | 0                  | 0        | <sup>10</sup> 1,900                          | 0                       | 0   | 0                           | 0         | 0       | 0         | 0   | 0          | 0          | 0                | 0                         |                         |
| Cargo Petroleum Corp.<br>Lake Charles                | 282,800                                     | 0       | 320,000                | 0       | 75,000                     | <sup>11</sup> 88,000                          | 160,000            | 0        | <sup>12</sup> 86,000<br><sup>13</sup> 20,000 | 45,000                  | <sup>14</sup> 105,000<br><sup>15</sup> 28,000<br><sup>16</sup> 25,000 | 0                           | 23,000    | 0       | 4,000     | <sup>17</sup> 22,400                        | 9,100      | 0          | 15,000           | 405                       |                         |
| Claborne Gasoline Co.<br>Lafayette                   | 7,500                                       | 0       | 7,700                  | 0       | 0                          | 0   | 0                  | 0        | <sup>18</sup> 2,000                          | 0                       | 0   | 0                           | 0         | 0       | 0         | <sup>19</sup> 2,000                         | 0          | 0          | 0                | 0                         |                         |
| Conoco Inc.<br>Westlake                              | 159,000                                     | 0       | 167,000                | 0       | 63,000                     | <sup>20</sup> 60,000<br><sup>21</sup> 12,000  | 42,500             | 0        | <sup>22</sup> 12,000<br><sup>23</sup> 16,000 | 0                       | <sup>24</sup> 32,000<br><sup>25</sup> 109,500<br><sup>26</sup> 13,000 | 0                           | 7,500     | 0       | 0         | 0   | 0          | 0          | 18,250           | 290                       |                         |
| Dubach Gas Co.<br>(Formerly Endicott Inc.)<br>Dubach | 10,300                                      | 0       | 11,000                 | 0       | 0                          | 0   | 0                  | 0        | 0  | 0                       | <sup>27</sup> 1,675   | 0                           | 0         | 0       | 0         | <sup>28</sup> 100<br><sup>29</sup> 120      | 0          | 1          | 0                | 0                         |                         |
| Exxon Co. U.S.A.<br>Baton Rouge                      | 421,300                                     | 0       | 438,000                | 0       | 205,000                    | <sup>30</sup> 90,000                          | 188,000            | 0        | <sup>31</sup> 60,000<br><sup>32</sup> 30,000 | 24,000                  | <sup>33</sup> 47,500<br><sup>34</sup> 55,000<br><sup>35</sup> 19,000  | 0                           | 33,200    | 28,900  | 0         | <sup>36</sup> 2,500                         | 16,500     | 18         | 24,900           | 661                       |                         |
| Hill Petroleum Co.<br>Krook Springs<br>St. Rose      | 57,500<br>34,200                            | 0<br>0  | 60,000<br>35,000       | 0<br>0  | 24,000<br>18,000           | 0<br>0  | 28,000<br>0        | 0<br>0   | <sup>37</sup> 10,400<br><sup>38</sup> 0      | 0<br>0                  | <sup>39</sup> 13,000<br><sup>40</sup> 0                               | 0<br>0                      | 0<br>0    | 0<br>0  | 0<br>0    | <sup>41</sup> 1,500<br><sup>42</sup> 0      | 0<br>0     | 0<br>0     | 0<br>0           | 10<br>0                   |                         |
| Kahn-McGee Refining Corp.<br>Cotton Valley           | 7,800                                       | 0       | 8,500                  | 0       | 0                          | 0   | 0                  | 0        | 0  | 0                       | 0   | 0                           | 0         | 0       | 0         | 0   | 0          | 0          | 0                | 0                         |                         |
| Marathon Petroleum Co.<br>Garyville                  | 255,000                                     | 0       | 262,000                | 0       | 125,000                    | 0   | 90,000             | 0        | <sup>43</sup> 50,000                         | 0                       | <sup>44</sup> 11,000<br><sup>45</sup> 50,000<br><sup>46</sup> 40,000  | 30,000                      | 27,000    | 25,000  | 0         | <sup>47</sup> 7,000<br><sup>48</sup> 9,000  | 0          | 0          | 0                | 0                         | 564                     |
| Mobil Oil Corp.<br>Chalmette                         | 160,000                                     | 0       | 175,000                | 0       | 92,500                     | <sup>49</sup> 33,000                          | 55,000             | 0        | <sup>50</sup> 19,000<br><sup>51</sup> 28,000 | 18,000                  | <sup>52</sup> 43,000<br><sup>53</sup> 45,000<br><sup>54</sup> 24,000  | 0                           | 19,000    | 0       | 7,000     | 0   | 0          | 24         | 7,750            | 200                       |                         |
| Murphy Oil U.S.A. Inc.<br>Morus                      | 75,000                                      | 12,000  | 80,000                 | 12,500  | 40,000                     | 0   | 35,200             | 2,500    | <sup>55</sup> 23,000                         | 0                       | <sup>56</sup> 29,000<br><sup>57</sup> 15,000                          | 0                           | 8,700     | 12,000  | 0         | 0   | 0          | 0          | 0                | 0                         | 34                      |
| Pennzoil Products Co.<br>Shreveport                  | 46,200                                      | 0       | 50,000                 | 0       | 24,200                     | 0   | 0                  | 0        | <sup>58</sup> 10,000                         | 0                       | <sup>59</sup> 8,900<br><sup>60</sup> 10,000<br><sup>61</sup> 1,200    | 0                           | 0         | 500     | 0         | 0   | 8,500      | 6          | 0                | 13                        |                         |
| Paoli Refining Co.<br>Port Allen                     | 46,000                                      | 0       | 47,000                 | 0       | 20,000                     | 0   | 19,000             | 2,000    | <sup>62</sup> 10,000                         | 0                       | <sup>63</sup> 11,000  | 5,000                       | 4,000     | 0       | 0         | 0   | 0          | 0          | 0                | 8                         |                         |
| Sabine Resources Group*<br>Stonewall                 | 0   | 10,000  | 0                      | 16,000  | 0                          | 0   | 0                  | 0        | 0  | 0                       | 0   | 0                           | 0         | 0       | 0         | 0   | 0          | 0          | 0                | 0                         |                         |
| Shell Oil Co.<br>Norco                               | 215,000                                     | 0       | 220,000                | 0       | 78,000                     | <sup>64</sup> 21,000<br><sup>65</sup> 106,700 | 0                  | 0        | <sup>66</sup> 38,000<br><sup>67</sup> 18,000 | 35,000                  | <sup>68</sup> 70,000<br><sup>69</sup> 29,000<br><sup>70</sup> 28,000  | 0                           | 15,000    | 0       | 0         | 0   | 0          | 70         | 5,000            | 111                       |                         |
| Star Enterprise<br>Convent                           | 225,000                                     | 0       | 240,000                | 0       | 75,000                     | <sup>71</sup> 12,000                          | 85,000             | 5,000    | <sup>72</sup> 40,000                         | 35,000                  | <sup>73</sup> 40,000<br><sup>74</sup> 37,000<br><sup>75</sup> 65,000  | 0                           | 14,500    | 0       | 0         | <sup>76</sup> 12,500                        | 0          | 69         | 0                | 728                       |                         |
| Trans-America Refining Co.*<br>Norco                 | 0   | 300,000 | 0                      | 350,000 | 240,000                    | <sup>77</sup> 140,000                         | 110,000            | 0        | <sup>78</sup> 15,000                         | 0                       | <sup>79</sup> 15,000<br><sup>80</sup> 25,000                          | 0                           | 14,000    | 0       | 3,000     | <sup>81</sup> 5,000<br><sup>82</sup> 20,000 | 0          | 0          | 0                | 140                       |                         |

<sup>1</sup> Delayed Coking      <sup>2</sup> Low Pressure      <sup>3</sup> Heavy Gas Oil      <sup>4</sup> High Ref. Feeds      <sup>5</sup> Distillate      <sup>6</sup> High Pressure  
<sup>7</sup> C<sub>4</sub> and C<sub>5</sub>      <sup>8</sup> Other Residual      <sup>9</sup> Fuel Coking      <sup>10</sup> Viscerating      <sup>11</sup> Other Gas Oil

E - Estimates    MMcfd = Million cubic feet per day  
\* Reported no inputs during 1989  
Source: Energy Information Administration, Form EIA-800, "Annual Refinery Report"

LOUISIANA NON - OPERATING REFINERY  
ADDRESS & CONTACT LIST  
Technology Assessment Division  
1990 Survey

REP2

| NAME                            | ADDRESS                      | CITY         | STATE | ZIP   | AREA<br>CODE | TELEPHONE  | DNR<br>CODE | PLANT<br>MANAGER         | CHIEF<br>ENGINEER |
|---------------------------------|------------------------------|--------------|-------|-------|--------------|------------|-------------|--------------------------|-------------------|
| American International Refining | P. O. Drawer 16866           | Lake Charles | La.   | 70616 | 318          | 439-4066   | LKC         | J.P. Chamberlain, V. P.  | Gary Wells        |
| Bayou State Oil Corp.           | Box 2147                     | Shreveport   | La.   | 71166 | 318          | 222-0737   | BYS         | T. C. Graves (Part Time) | None              |
| Bio-Com USA, Ltd.               | Box 389                      | Jennings     | La.   | 70546 | 318          | 824-4180   | SHP         | Rudy Folgeman            | Lewis Shueman     |
| CAS Refining                    | Box 1426                     | Jennings     | La.   | 70546 | 318          | 824-7230   | SLP         | Raleigh Boudreau         | Dennis Gracey     |
| Cameron Resources               | 2800 N. Loop West, Suite 416 | Houston      | Tx.   | 77092 | 713          | 682-1551   | MLL         | Danny R. Edwards         | None              |
| Clark Oil & Refining            | Box T                        | Garyville    | La.   | 70051 | 504          | 535-6256   | MTR         | Claude Phelps            | Daryl Russo       |
| Crystal Ref.                    | P. O. Drawer 90              | Egan         | La.   | 70530 | 504          | 866-0163   | LOR         | R. P. Chatelain, Pres.   | None              |
| Evangeline Refining Co.         | Box 1277                     | Jennings     | La.   | 70546 | 318          | no listing | EVN         | J. B. McBurney           | None              |
| Gulf South Processing           | Box 1426                     | Jennings     | La.   | 70546 | 318          | 824-4707   | TSR         | M. L. Roberts            | None              |
| Ida Gasoline                    | 7558 Belcher-Oil City Road   | Belcher      | La.   | 71004 | 318          | 995-7167   | IDG         | Pete Skamangas           | Gary Northen      |
| Laidlaw Environmental Systems   | Box 283                      | Crowley      | La.   | 70526 | 318          | 783-2624   | HNS         | Rick Davenport           | Leonard Dupis     |
| Sabine Gas Operators            | 2285 Benton Road             | Bossier City | La.   | 71166 | 318          | 747-7774   | PRT         | Bob Simmons              | Steve Wooley      |
| Texas NAPCO                     | Box 156                      | St. James    | La.   | 70086 | 504          | no listing | TXS         | R. A. Ordoyne            | None              |
| TransAmerican Refining          | 257 Prospect Av.             | Norco        | La.   | 70079 | 504          | 764-8611   | GHR         | Gary Karr                | Jim Shoriak       |

LOUISIANA NON-OPERATING REFINERY LOCATIONS

| NAME  | LOCATION   |
|---|--|
| American International Refining                   | Lake Charles,<br>4646 Hwy. 3059  |
| Bayou State Oil Corp.                             | Hosston,<br>Hwy. 71 North, junction Hwy. 2                                     |
| Bio-Com USA, Ltd.<br>(Converted to gasohol plant) | Jennings,<br>Hwy. 90 East, 4 mi.   |
| CAS Refining                                      | Jennings,<br>Hwy. 90 East, 1 mi.   |
| Cameron Resources                                 | Cameron Parish<br>Hwy. 26 South at Intracoastal Waterway                       |
| Clark Oil & Refining                              | Mount Airy, (Exit Gramercy to La. 20)<br>Hwy. 44 S, 2mi. S. of La. 20 junction |
| Crystal Refining                                  | Mermentau,<br>Hwy. 90 East   |

| NAME   | LOCATION   |
|--|--|
| Evangeline Refining Co.                      | Evangeline,<br>Hwy 97 North                                      |
| Gulf South Processing                        | Jennings, Hwy. 90 East<br>Jeff. Davis Parish, Sec. 12, T10S, R2W |
| Ida Gasoline                                 | Belcher, in town<br>7558 Belcher-Oil City Road                   |
| Laidlaw Environmental Systems                | Crowley, I-10 exit to<br>La. 1111 N. to La. 1112 (left) 3/4 mi.  |
| Sabine Gas Operators<br>(was Port Petroleum) | Stonewall,<br>Hwy. 171, 1/4 mi. south                            |
| Texas NAPCO                                  | St. James,<br>Hwy. 18  |
| TransAmerican Refining                       | Norco,<br>257 Prospect Ave.                                      |