Florida Power
A Progress Energy Company

JAMES A. MCGEE
ASSOCIATE GENERAL COUNSEL

July 26, 2001

Ms. Blanca S. Bayó, Director
Division of Records and Reporting
Florida Public Service Commission
2540 Shumard Oak Boulevard
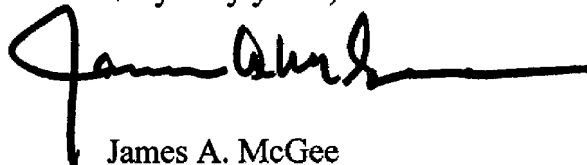Tallahassee, Florida 32399-0850

010000-PU

Re: Load Research Study Results for the period
April, 2000 through March, 2001.

Dear Ms. Bayó:

Pursuant to Rule 25-6.0437(7), F.A.C., enclosed for filing on behalf of Florida Power Corporation are an original and seven copies of the subject Load Research Study Results.

Please acknowledge your receipt of the above filing on the enclosed copy of this letter and return to the undersigned. Also enclosed is a 3.5 inch diskette containing the above-referenced document in Word format. Thank you for your assistance in this matter.

Very truly yours,

James A. McGee

JAM/scc
Enclosure

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FLORIDA POWER CORPORATION

LOAD RESEARCH STUDY RESULTS

APRIL 2000 THROUGH MARCH 2001

Prepared and Submitted Pursuant to Rule 25-6.0437, F.A.C.

July 26, 2001

Florida Power Corporation

LOAD RESEARCH STUDY RESULTS
APRIL 2000 THROUGH MARCH 2001

Submitted Pursuant to Rule 25-6.0437, F.A.C.

July 30, 2001

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STUDY BACKGROUND AND OBJECTIVES

The purpose of this study is to meet the requirements of the Cost-of-Service Load Research Rule, Docket No. 820491-EU, Order No. 13026, adopted as Rule 25-6.0437 on February 23, 1984, by the Florida Public Service Commission.

The rule requires that every rate class which accounts for more than one percent of the utility's annual retail sales be sampled every two years. The load research studies must be designed to provide estimates within plus or minus 10% relative accuracy at the 90% confidence level for the summer and winter peak demands and the average of the twelve monthly coincident peaks. The rule, which applies to the 4 major investor owned utilities in the state, requires a sampling plan to be filed in advance and approved by the FPSC.

REPORTING PERIOD

The data summarized in this report covers the period from April 1, 2000 through March 31, 2001. The new sample points were selected during the fall of 1999 and recording meters were installed in 2000. Formal data collection began at that point and continued through March 31, 2001.

SAMPLING PLAN

The load research data summarized in this report is based on the Load Research Sampling Plan that was filed before the Florida Public Service Commission on December 17, 1999 and was later approved by the FPSC on April 12, 2000.

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RESIDENTIAL CLASS SAMPLE

As described in the Load Research Sample Plan dated December 17, 1999, the residential sample was retained from the previous study. At the time of sample selection in 1997, the residential class consisted of over 1,155,000 customers. Over 518,000 were on the load management rate at that time. By April 2000 when data collection officially began, FPC had over 1,250,000 residential customers and the number on load management had declined to 475,000.

Due to the large number of residences on load management, independent and equal sized samples were drawn for both the load management residential rate and the standard residential rate. Past experience indicated that a residential sample of 350 would be more than enough to exceed the target accuracy goal. Combined ratio estimation was used for expansion to the class level.

The residential load management and non-load management samples were stratified by housing type:

1) single family detached,

2) multi-family (apartments, townhouses, condos etc)

3) mobile/manufactured homes.

The following table shows the stratum design for the residential class sample.

Stratum	Load Management	Non – Load Management
Single Family Detached	85	85
Multi-Family (Apartments)	45	45
Mobile / Manufactured Home	45	45
Total	175	175

Table 1 - *Residential Sample Design*

GENERAL SERVICE NON-DEMAND CLASS SAMPLE

As described in the Load Research Sample Plan dated December 17, 1999, the general service class sample was retained from the previous study. Over time, the active sample had declined in size so the general service class was augmented to bring the sample size back to design criteria. At the time of sample selection in 1997, the general service class consisted of over 92,000 customers. By April 2000 when data collection officially began, FPC had over 112,000 general service customers.

Two dimensional stratification and combined ratio expansion were used for this rate class sample. The technique involved stratification using the winter peak month (January, 1997) and the summer peak month (July, 1997) billed kWh. The Dalenius-Hodges cumulative square root "uf" technique was applied to the class billed energy for the peak month to establish stratum boundaries.

Table 2 shows the stratum design for the General Service class sample.

Stratum	General Service
1 - January, 97 billing energy less than 1,401 kwh and July, 97 billing energy less than 2,001 kwh	175
2 - January, 97 billing energy more than 1,400 kwh and July, 97 billing energy less than 2,001 kwh	30
3 - January, 97 billing energy less than 1,401 kwh and July, 97 billing energy more than 2,000 kwh	30
4 - January, 97 billing energy more than 1,400 kwh and July, 97 billing energy more than 2,000 kwh	350
5 - Census Stratum consisting of the 42 largest customers	42
Total	627

Table 2 - *General Service Sample Design*

GENERAL SERVICE DEMAND CLASS

Two dimensional stratification and combined ratio expansion were used for this rate class sample. The technique involved stratification using the summer peak month (June, 1999) billed kW and the revenue class data. The Dalenius-Hodges cumulative square root "uf" technique was applied to the class billed demand for the peak month to establish stratum (or cell) boundaries. All customers in

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over 1000 kW did not require sampling because each customer in this stratum is metered with a survey meter for billing purposes. Table 3 outlines stratum design for the General Service Demand class sample.

Stratum	General Service Demand
1 – Commercial revenue class customers with a June 99 billing demand less than 201 kW	15
2 – Non-Commercial revenue class customers with a June 99 billing demand less than 201 kW	15
3 – Commercial revenue class customers with a June 99 billing demand between 200 kW and 1,000 kW	15
4 – Non-Commercial revenue class customers with a June 99 billing demand between 200 kW and 1,000 kW	15
5 – All customers having a June 99 billing demand of 1,000 kW and higher	491
Total	551

Table 3 - *General Service Demand Sample Design*

INTERRUPTIBLE CLASS

The Interruptible Class did not require sampling because each customer in this class is metered with a survey meter for billing purposes. At the beginning of data collection in April 2000, there were 131 customers in the Interruptible Class.

METERING OF SAMPLE MEMBERS

The sample customer's conventional kilowatt-hour meter was replaced with a solid-state survey recording meter to monitor electricity demand usage and record it every 15 minutes. The data from these survey meters were translated and validated to accuracy in the MV-90 software package. Load data was analyzed on a calendar month basis to derive the data contained in this report.

SELECTION OF REPLACEMENTS

During the course of the study, a small number of sample points had to be replaced for various reasons. To minimize the amount of replacement necessary, Florida Power's policy is not to request permission from the customer before survey meters are installed. The selection of replacements was handled differently depending on the rate class.

Replacements for the Residential class were picked from a list of randomly selected alternates that was generated at the same time the original sample was drawn. When a replacement was needed, it was selected as the first available alternate on the list from within the same stratum and district as the original sample.

Replacements for the General Service classes were taken from lists of all unselected commercial accounts that were generated for each rate class at the same time the original sample was drawn. The replacement selected was the first account from the appropriate rate class within the same stratum and district as the account being replaced.

STATISTICAL ACCURACY ACHIEVED

Tables 4 through 7 contain the estimated class demands for the coincident and non-coincident peaks for the Residential, General Service, General Service Demand, and Interruptible rate classes. Also included are the 90% confidence intervals around the monthly peak demands and their relative accuracy in percentage. The twelve coincident peak averages for all rate classes, their 90% confidence intervals, and their relative accuracy are computed for the twelve month period ending March, 2001. The statistics shown in tables 4-7 were obtained using MV90's Load Research software package.

The winter peak hour occurred at hour ending 0800 on Friday, January 5, 2001 and the summer peak hour occurred at hour ending 1800 on Tuesday, August 8, 2000. The target level of statistical accuracy of plus or minus 10% error at the 90% confidence level for the system summer peak was met for all rate classes. The system winter peak accuracy was met for the General Service Demand and Residential rate classes. The average of the twelve monthly coincident peaks accuracy was met for all rate classes.

TABLE 4

FLORIDA POWER CORPORATION
LOAD RESEARCH DATA
TWELVE MONTHS ENDING MARCH 2001

RESIDENTIAL (RS) CLASS

Month	KWH Sales	Class Coincident Peak					Coincident with System Peak				
		Estimated Peak (MW)	90% Confidence Interval (MW)	Relative Accuracy (%)	Date	Time	Estimated Peak (MW)	90% Confidence Interval (MW)	Relative Accuracy (%)	Date	Time
Apr-00	1,102,183,875	2,809.4	235.1	8.37	04/24/00	21:00	2,568.4	216.0	8.41	04/03/00	18:00
May-00	1,235,979,693	3,756.6	269.0	7.16	05/26/00	18:00	3,618.9	268.5	7.42	05/26/00	17:00
Jun-00	1,721,037,898	4,197.9	191.0	4.55	06/04/00	17:00	3,809.4	177.1	4.65	06/05/00	17:00
Jul-00	1,830,665,145	3,992.2	185.6	4.65	07/11/00	18:00	3,956.6	183.6	4.64	07/12/00	18:00
Aug-00	1,762,809,539	4,119.4	222.4	5.4	08/19/00	18:00	4,073.6	230.2	5.65	08/08/00	18:00
Sep-00	1,867,507,772	4,070.9	195.8	4.81	9/4/00	17:00	4,019.8	173.3	4.31	09/14/00	18:00
Oct-00	1,454,418,941	3,490.8	215.0	6.16	10/06/00	18:00	3,430.4	192.1	5.60	10/05/00	18:00
Nov-00	1,115,977,064	4,600.8	405.8	8.82	11/22/00	08:00	4,600.8	405.8	8.82	11/22/00	08:00
Dec-00	1,272,185,113	4,840.4	401.3	8.29	12/31/00	09:00	4,600.4	369.0	8.02	12/31/00	08:00
Jan-01	1,962,581,682	5,425.6	353.2	6.51	01/05/01	09:00	5,302.8	333.5	6.29	01/05/01	08:00
Feb-01	1,366,489,230	4,084.1	368.8	9.03	02/06/01	08:00	4,084.1	368.8	9.03	02/06/01	08:00
Mar-01	1,073,665,722	3,147.8	378.1	12.01	03/08/01	07:00	3,030.5	288.2	9.51	03/08/01	08:00

TWELVE COINCIDENT PEAK STATISTICS:
Twelve Months Ending March 2001

		Estimated Peak (MW)	90% Confidence Interval (MW)	Relative Accuracy (%)
		3,924.6	125.6	3.20%

TABLE 5

FLORIDA POWER CORPORATION
LOAD RESEARCH DATA
TWELVE MONTHS ENDING MARCH 2001

GENERAL SERVICE (GS) CLASS

Month	KWH Sales	Class Coincident Peak					Coincident with System Peak				
		Estimated Peak (MW)	90% Confidence Interval (MW)	Relative Accuracy (%)	Date	Time	Estimated Peak (MW)	90% Confidence Interval (MW)	Relative Accuracy (%)	Date	Time
Apr-00	95,505,912	260.5	37.8	14.52	04/20/00	16:00	176.0	18.4	10.48	04/03/00	18:00
May-00	89,795,940	255.1	27.1	10.64	05/24/00	16:00	212.2	23.6	11.12	05/26/00	17:00
Jun-00	111,725,223	271.1	30.7	11.31	06/07/00	16:00	223.4	20.6	9.21	06/05/00	17:00
Jul-00	120,302,749	291.4	23.8	8.17	07/12/00	16:00	223.1	19.5	8.75	07/12/00	18:00
Aug-00	107,391,387	273.2	33.6	12.29	08/23/00	15:00	196.2	17.3	8.84	08/08/00	18:00
Sep-00	119,659,982	296.8	37.3	12.58	09/26/00	15:00	220.9	20.4	9.22	09/14/00	18:00
Oct-00	95,448,285	248.5	25.7	10.36	10/06/00	14:00	194.3	20.8	10.73	10/05/00	18:00
Nov-00	93,863,476	261.9	27.6	10.52	11/08/00	15:00	151.3	25.5	16.87	11/22/00	08:00
Dec-00	87,220,973	292.7	39.3	13.43	12/20/00	11:00	193.0	46.6	24.15	12/31/00	08:00
Jan-01	113,578,907	331.8	42.1	12.68	01/05/00	10:00	264.9	45.5	17.16	01/05/01	08:00
Feb-01	90,012,099	258.4	29.8	11.55	02/27/00	15:00	169.7	26.4	15.58	02/06/01	08:00
Mar-01	84,881,942	225.3	23.5	10.45	03/15/00	14:00	125.6	23.8	18.98	03/08/01	08:00

TWELVE COINCIDENT PEAK STATISTICS:
Twelve Months Ending March 2001   195.9   15.2   7.74%

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TABLE 6

FLORIDA POWER CORPORATION
LOAD RESEARCH DATA
TWELVE MONTHS ENDING MARCH 2001

GENERAL SERVICE DEMAND (GSD) CLASS

| Month | KWH Sales | Class Coincident Peak | | | | | Coincident with System Peak | | | | |
		Estimated Peak (MW)	90% Confidence Interval (MW)	Relative Accuracy (%)	Date	Time	Estimated Peak (MW)	90% Confidence Interval (MW)	Relative Accuracy (%)	Date	Time
Apr-00	1,071,255,791	2,057.3	51.8	2.52	04/03/00	15:00	1,921.7	43.4	2.26	04/03/00	18:00
May-00	1,108,853,628	2,255.6	57.5	2.55	05/25/00	15:00	2,097.4	50.3	2.40	05/26/00	17:00
Jun-00	1,271,668,641	2,386.5	48.2	2.02	06/06/00	15:00	2,282.5	45.9	2.01	06/05/00	17:00
Jul-00	1,312,234,711	2,400.2	59.8	2.49	07/20/00	15:00	2,194.0	42.6	1.94	07/12/00	18:00
Aug-00	1,265,953,845	2,343.5	53.9	2.3	08/08/00	15:00	2,170.3	41.7	1.92	08/08/00	18:00
Sep-00	1,341,733,779	2,385.0	57.7	2.42	09/26/00	15:00	2,180.0	39.7	1.82	09/14/00	18:00
Oct-00	1,191,514,553	2,330.9	56.6	2.43	10/05/00	15:00	2,170.1	45.6	2.10	10/05/00	18:00
Nov-00	1,085,259,775	2,173.6	56.3	2.59	11/08/00	15:00	1,543.9	65.8	4.26	11/22/00	08:00
Dec-00	984,968,492	1,955.8	53.2	2.72	12/14/00	14:00	1,376.3	72.4	5.26	12/31/00	08:00
Jan-01	1,054,496,489	1,934.1	61.7	3.19	01/10/01	10:00	1,776.2	65.2	3.67	01/05/01	08:00
Feb-01	959,019,546	2,071.9	67.1	3.24	02/27/01	15:00	1,585.7	54.1	3.41	02/06/01	08:00
Mar-01	1,021,371,868	2,144.2	59.4	2.77	03/01/01	15:00	1,533.9	52.9	3.45	03/08/01	08:00

TWELVE COINCIDENT PEAK STATISTICS:
Twelve Months Ending March 2001

| | | | | | | | 1,902.7 | 31.6 | 1.66% | | |

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TABLE 7

FLORIDA POWER CORPORATION
LOAD RESEARCH DATA
TWELVE MONTHS ENDING MARCH 2001

INTERRUPTIBLE (IS) CLASS

| Month | KWH Sales | Class Coincident Peak | | | | | Coincident with System Peak | | | | |
		Estimated Peak (MW)	90% Confidence Interval (MW)	Relative Accuracy (%)	Date	Time	Estimated Peak (MW)	90% Confidence Interval (MW)	Relative Accuracy (%)	Date	Time
Apr-00	218,604,571	383.7	N/A	N/A	04/20/00	08:00	307.3	N/A	N/A	04/03/00	18:00
May-00	189,062,246	332.6	N/A	N/A	05/11/00	11:00	265.2	N/A	N/A	05/26/00	17:00
Jun-00	218,353,483	356.1	N/A	N/A	06/07/00	08:00	303.3	N/A	N/A	06/05/00	17:00
Jul-00	188,201,535	340.9	N/A	N/A	07/21/00	11:00	229.2	N/A	N/A	07/12/00	18:00
Aug-00	173,362,448	301.9	N/A	N/A	08/17/00	08:00	245.8	N/A	N/A	08/08/00	18:00
Sep-00	202,177,056	349.8	N/A	N/A	09/01/00	10:00	285.9	N/A	N/A	09/14/00	18:00
Oct-00	184,436,186	327.9	N/A	N/A	10/03/00	11:00	234.1	N/A	N/A	10/05/00	18:00
Nov-00	201,290,571	347.0	N/A	N/A	11/30/00	20:00	315.7	N/A	N/A	11/22/00	08:00
Dec-00	187,259,464	326.8	N/A	N/A	12/08/00	16:00	204.4	N/A	N/A	12/31/00	08:00
Jan-01	183,864,067	304.5	N/A	N/A	01/30/01	14:00	61.7	N/A	N/A	01/05/01	08:00
Feb-01	182,623,990	324.0	N/A	N/A	02/15/01	15:00	290.0	N/A	N/A	02/06/01	08:00
Mar-01	180,653,919	308.5	N/A	N/A	03/15/01	21:00	294.7	N/A	N/A	03/08/01	08:00

TWELVE COINCIDENT PEAK STATISTICS:
Twelve Months Ending March 2001 253.1 N/A N/A

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RESIDENTIAL CLASS HOURLY LOAD DATA

The following pages contain the hourly residential class load data required under Sections (7) and (8) of Rule 25-6.0437. This hourly data covers the 8,760 hours in the twelve month period of April, 2000 through March, 2001. The format of the data is the standard "EEI" format normally used in the electric utility industry.

```
.040100      1117  954  888  850  854  943 1097 1396 1689 1902 2100 2215
 040100      2202 2384 2557 2520 2497 2596 2393 2498 2438 2153 1733 1485
 040200      1178 1048    0 1032  916  979 1034 1120 1418 1564 1637 1990
 040200      2087 2300 2384 2527 2577 2649 2688 2549 2728 2478 2031 1527
 040300      1158  984  912  860  866 1042 1436 1580 1387 1323 1272 1422
 040300      1530 1592 1792 1979 2160 2568 2539 2420 2679 2421 1959 1560
 040400      1321 1081 1008  960  962 1268 1487 1595 1443 1237 1424 1489
 040400      1549 1518 1460 1354 1594 1692 1816 1882 1820 1723 1463 1052
 040500       906  829  825  772  865 1095 1504 1689 1339 1487 1318 1247
 040500      1272 1149 1158 1197 1330 1593 1634 1797 2013 1666 1464 1213
 040600       982  886  896  936  995 1450 1857 2118 1620 1448 1423 1207
 040600      1248 1117 1176 1271 1500 1566 1794 1827 1869 1799 1475 1142
 040700       920  880  792  787  899 1065 1539 1645 1383 1352 1321 1198
 040700      1260 1240 1388 1423 1602 1603 1650 1743 1889 1900 1597 1198
 040800       937  865  815  764  802  863 1082 1203 1472 1580 1558 1546
 040800      1637 1793 1837 1848 1869 1888 2062 1860 1952 1812 1597 1134
 040900       953  830  787  806  875  953 1229 1609 1988 1960 1995 2033
 040900      1755 1643 1634 1591 1508 1456 1631 1911 2014 1832 1604 1246
 041000      1142 1086 1076 1105 1079 1420 1974 2366 1968 1677 1371 1288
 041000      1228 1175 1157 1322 1387 1477 1765 1864 1859 1723 1429  967
 041100       932  769  734  704  755 1058 1449 1748 1407 1200 1206 1217
 041100      1266 1322 1311 1397 1609 1816 2054 2052 1907 1698 1530 1150
 041200       956  854  787  739  765  977 1415 1516 1244 1242 1284 1290
 041200      1322 1459 1602 1799 1811 1995 2166 2096 2035 1900 1731 1345
 041300      1086  986  898  816  834 1015 1455 1782 1541 1440 1432 1673
 041300      1746 1855 1899 1890 1984 2166 2192 2161 2313 2054 1761 1435
 041400      1220 1013  971  913  866  990 1414 1734 1408 1373 1259 1279
 041400      1395 1303 1270 1262 1617 1736 1855 1830 1615 1534 1443 1198
 041500      1031  879  824  806  880  872  939 1282 1678 1857 1998 1858
 041500      1825 1947 1874 2140 2263 2292 2265 1932 1846 1930 1623 1425
 041600      1106 1034  924  905  862  817  943 1270 1361 1646 1735 2008
 041600      2221 2523 2578 2541 2746 2751 2701 2440 2302 2232 1877 1543
 041700      1297 1047  919  888  848  948 1307 1450 1324 1476 1449 1684
 041700      1641 1856 1987 2102 2319 2474 2556 2408 2422 2153 1837 1347
 041800      1141 1008  899  941  953 1088 1399 1504 1279 1428 1430 1649
 041800      1585 1561 1602 1872 1957 2173 2164 2102 2231 2030 1663 1451
 041900      1052  986  893  856  875 1068 1281 1377 1251 1250 1387 1408
 041900      1573 1538 1724 1882 2175 2299 2487 2303 2142 1880 1636 1277
 042000      1086  919  889  830  801  994 1359 1435 1261 1324 1385 1468
 042000      1607 1676 1803 1881 2307 2464 2705 2375 2351 2231 1857 1531
 042100      1263 1150 1006  863  849  997 1253 1251 1359 1342 1503 1913
 042100      1954 2037 2012 2187 2540 2349 2446 2303 2034 2077 1740 1568
 042200      1431 1176 1047  990  890  881  969 1244 1451 1746 1919 1982
 042200      1848 1727 1816 1970 1984 1926 1877 1822 1914 1855 1619 1282
 042300      1102  895  810  812  807  872  991 1265 1626 1530 1646 1694
 042300      1753 2003 1961 1987 2297 2339 2323 2260 2219 2003 1806 1379
 042400      1081  973  902  854  822  964 1298 1474 1166 1260 1417 1632
 042400      1715 1893 2043 2152 2314 2363 2602 2541 2809 2534 2164 1776
 042500      1536 1403 1269 1181 1229 1346 1768 1902 1451 1520 1706 1873
 042500      1875 1970 1973 2110 2156 2256 2463 2237 2351 2056 1717 1284
 042600      1125  963  797  854  867  996 1296 1549 1198 1432 1309 1233
 042600      1172 1358 1470 1664 1912 2019 2019 2023 2234 2020 1736 1259
 042700       992  848  796  712  821 1126 1409 1458 1341 1216 1352 1492
 042700      1540 1464 1698 1791 2059 2161 2251 2178 2414 2036 1840 1399
 042800      1028  937  811  758  823  991 1302 1529 1452 1334 1468 1448
 042800      1554 1670 1792 1913 2131 2108 2172 2269 2279 2051 1671 1351
 042900      1171  991  932  902  850  954 1055 1159 1489 1737 1882 1899
 042900      2016 1981 2260 2382 2440 2404 2337 2258 2304 2134 1666 1406
 043000      1192 1020  953  895  851  809  923 1103 1346 1544 1645 1705
 043000      1907 2037 2090 2257 2518 2478 2404 2292 2395 2317 1983 1494
 050100      1088  914  844  746  778  947 1147 1327 1210 1253 1415 1417
```

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050100	1548	1544	1723	1943	2080	2065	2200	2097	2130	1954	1697	1316
050200	1144	954	847	782	765	938	1281	1294	1099	1265	1336	1361
050200	1550	1647	1627	1923	2189	2321	2288	2190	2100	2084	1676	1345
050300	1075	894	825	736	730	959	1194	1145	1172	1085	1351	1393
050300	1523	1662	1895	2082	2276	2365	2425	2266	2202	2076	1783	1410
050400	1203	1026	925	790	823	999	1264	1366	1287	1325	1335	1413
050400	1515	1692	1869	2169	2297	2443	2443	2328	2277	2209	1947	1467
050500	1286	1042	935	858	838	1058	1270	1324	1188	1246	1384	1435
050500	1582	1799	1997	2145	2320	2416	2480	2274	2263	2091	1765	1473
050600	1279	1100	1041	947	913	957	972	1186	1434	1526	1674	1843
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