



# Peralta Community College District Merritt College PV System

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Submitted by:

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Attn: Board of Trustees

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# Table of Contents

<b>Section 1</b>	<b>Executive Summary</b>	1-1
<b>Section 2</b>	<b>Environmental and Economic Benefits Analysis</b>	2-1
<b>Section 3</b>	<b>Renewable Generation</b>	3-1
<b>Section 4</b>	<b>Monitoring &amp; System Maintenance</b>	4-1

## Appendices





## Section 1

# Executive Summary

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Chevron Energy Solutions (CES) is pleased to provide this comprehensive solar PV analysis to the Peralta Community College District (PCCD) staff in support of the District's goals to:

- Demonstrate fiscal responsibility by providing general fund relief through controlling future operating costs;
- Demonstrate environmental stewardship (Board Policy 2.40); and
- Help prepare students for the green economy of the 21st century.





# Overview

In keeping with the vision of PCCD, CES, a general contractor that specializes in design/build, intends to focus on the reduction of district wide energy uses to achieve energy savings while partnering with the district to enhance the educational environment for all students.

- In December 2007, PCCD selected CES as the district's energy partner through a competitive RFQ process. Please see appendix A for RFQ evaluation.
- In May 2008, CES completed a district-wide comprehensive energy analysis based on Board Policy 2.40.
- In May 2008, PCCD authorized the Vice Chancellor of General Services to negotiate solar projects ranging from 1.2MW to 5MW. Please see Appendix B for board meeting minutes.
- In December 2008, CES was asked to install a time-sensitive new hot water central plant at College of Alameda (completed on time and under budget).
- In January 2009, CES donated solar panels for Merritt and Laney Colleges' Solar Lab.
- In March 2009, CES completed an Energy and Sustainability Master Plan for PCCD.
- In June 2009, CES completed the Merritt College Solar Photovoltaic Design.
- In June 2009, CES completed the design for an air-conditioning unit at the district office. Waiting for final signatures to begin work
- In August 2009, in partnership with PCCD, CES wrote 50 percent of the grant that was submitted to the Department of Energy (DOE) for three central plants (Merritt, Laney and College of Alameda).
- Currently CES is in development for the following projects:
  - Laney Tower and Computer Room
  - Installation of an Air Conditioning Unit
  - Field House
  - Installation of a Solar System

## Why Chevron Energy Solutions

CES is strongly committed to the community in which we live and work. We believe sharing our employee's time and expertise so that we can assist Oakland to become a stronger, more vibrant community that improves quality of life.





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CES provides educational tools, campus campaigns and workshops to engage students and staff in sustainable behavior. Through our media relations and public outreach efforts, we are to help PCCD showcase the environmental components of its facilities throughout Alameda County and the surrounding counties. In addition, CES will incorporate learning opportunities which will allow buildings to be used as a teaching tool, such as an educational kiosk. Students, faculty, and staff have the ability to track energy use and production on a daily basis, illustrating the environmental behavioral factors which contribute to resource consumption.

These powerful tools can be utilized both in and out of the classroom to make a statement about PCCD's commitment to environmental protection, community leadership and excellence.

Lastly, will CES be able to answer the most important educational question: Are the comprehensive services that CES is providing good for students? The answer both short and long-term is YES.





Section 2

# **Environmental and Economic Benefits Analysis**

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## 2.1 Environmental Benefits

Chevron Energy Solutions (Chevron ES) honors and commends Peralta CCD for committing to an aggressive goal to eliminate greenhouse gas (GHG) emissions, incorporate sustainability, energy efficiency and conservation measures and to become carbon neutral.

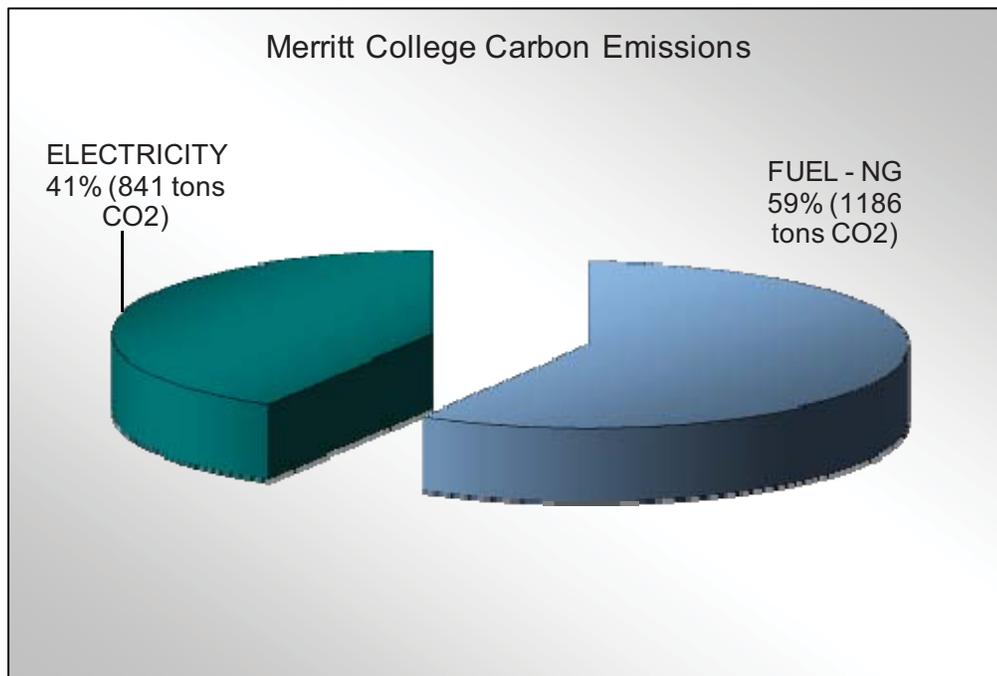
Under the guideline of Board Policy 2.40, Chevron ES investigated the environmental and economic feasibility to reduce the carbon footprint of the Merritt College campus, including reducing the energy usage and production of clean renewable energy.

This section describes Chevron ES's approach toward the goal for Merritt College to become carbon neutral as established by BP 2.40.

### Merritt College Energy Usage Baseline

Chevron ES received three years of electricity and natural gas usage data from the district. The carbon emissions from energy usage were calculated using the information provided. To match the BP 2.40 goals, the year 2007 was selected as the baseline for these calculations. Figure 2-1 illustrates the results.

Figure 2-1: Carbon Emission – Baseline Year 2007



Chevron ES developed a Sustainability and Energy Master Plan based on the district's educational and facilities master plans provided by WLC Architects. The energy usage projected for the next fifteen years under this plan for Merritt is illustrated in table 2-1





Table 2-1: Utility Data – Merritt College

Total Electricity Usage				CO <sub>2</sub> Emissions from Electricity		Total Natural Gas Usage				CO <sub>2</sub> Emissions from Natural Gas		TOTAL CO <sub>2</sub> emissions in metric tons
Project Year	Yr	Energy Usage kWh/yr	Actual Year	CO <sub>2</sub> emission factor gr/kWh	Indirect CO <sub>2</sub> emissions in metric tons	Project Year	Yr	Energy Usage therms/yr	Actual Year	CO <sub>2</sub> emission factor Kg/therm	Indirect CO <sub>2</sub> emissions in metric tons	
	1	3,966,527	2005	246.10	976		1	0	2005	6.10	0	976
	2	3,302,569	2006	246.10	813		2	0	2006	6.10	0	813
<b>Baseline</b>	<b>→ 3</b>	<b>3,418,643</b>	<b>2007</b>	<b>246.10</b>	<b>841</b>	<b>Baseline</b>	<b>→ 3</b>	<b>194,456</b>	<b>2007</b>	<b>6.10</b>	<b>1,186</b>	<b>2,028</b>
1	4	3,538,797	2008	246.10	871	1	4	198,345	2008	6.10	1,210	2,081
2	5	3,663,173	2009	246.10	902	2	5	202,312	2009	6.10	1,234	2,136
3	6	3,791,921	2010	246.10	933	3	6	206,358	2010	6.10	1,259	2,192
4	7	3,925,194	2011	246.10	966	4	7	210,485	2011	6.10	1,284	2,250
5	8	4,063,151	2012	246.10	1,000	5	8	214,695	2012	6.10	1,310	2,310
6	9	4,205,957	2013	246.10	1,035	6	9	218,989	2013	6.10	1,336	2,371
7	10	4,353,782	2014	246.10	1,071	7	10	223,369	2014	6.10	1,363	2,434
8	11	4,506,803	2015	246.10	1,109	8	11	227,836	2015	6.10	1,390	2,499
9	12	4,665,202	2016	246.10	1,148	9	12	232,393	2016	6.10	1,418	2,566
10	13	4,829,167	2017	246.10	1,188	10	13	237,041	2017	6.10	1,446	2,634
11	14	4,998,896	2018	246.10	1,230	11	14	241,782	2018	6.10	1,475	2,705
12	15	5,174,590	2019	246.10	1,273	12	15	246,617	2019	6.10	1,504	2,778
13	16	5,356,459	2020	246.10	1,318	13	16	251,550	2020	6.10	1,534	2,853
14	17	5,544,721	2021	246.10	1,365	14	17	256,581	2021	6.10	1,565	2,930
15	18	5,739,599	2022	246.10	1,413	15	18	261,712	2022	6.10	1,596	3,009

Electric: 0.524 lbs CO<sub>2</sub> per kWh

Natural Gas: 13.446 lbs CO<sub>2</sub> per therm

## Carbon Emissions Reduction – Merritt College PV System

The first step toward carbon neutrality recommended by Chevron ES is the installation of a solar PV system at the Merritt College. Two sites were selected by Chevron ES engineers and approved by the district and the Merritt campus; Parking Lot “C” and the hillside area behind the football field. These sites were selected due to their accessibility to the campus’s electrical distribution system and their sun exposure. Chevron ES recommends a 1.2 MW PV system for both locations based in large due to economics of such a project. A 1.2 MW system will maximize the California Solar Initiative (CSI) incentives, provide 45% of the electricity needed by the campus or 1,535,202 kWh/yr, and generate \$214,928 in annual revenues. Monthly generation by the Merritt systems is illustrated on table 2-2 and figure 2-2 (production calculated by PVSYST), the resulting carbon emissions is indicated below.

**Total reduction on carbon emissions = 378 tons of CO<sub>2</sub>.**

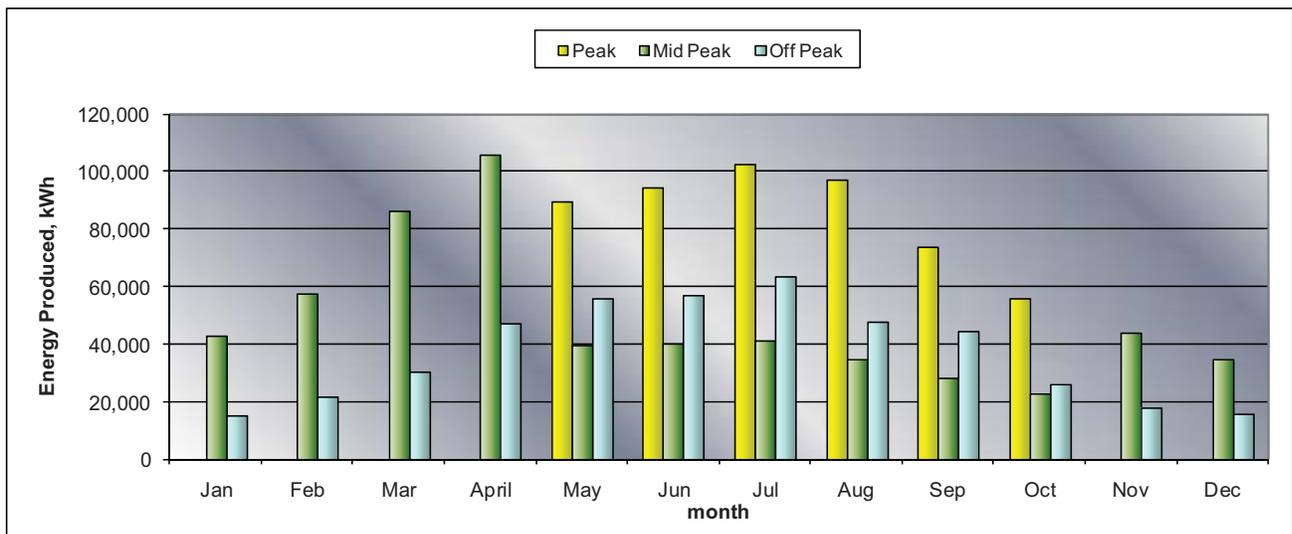
Table 2-2: Merritt College Solar PV - Energy Produced





MERRITT SOLAR PV SYSTEM									
Month	No. Days	Demand (kW)				Energy Production (kWh)			
		Peak	Mid Peak	OFF Peak	Max. Demand	Peak	Mid Peak	OFF Peak	Total Energy Produced
Jan	31	0	524	473	524	0	43,082	15,394	58,475
Feb	28	0	665	680	680	0	57,361	21,512	78,873
Mar	31	0	783	758	783	0	86,278	30,545	116,823
April	30	0	886	864	886	0	105,907	47,000	152,907
May	31	926	803	934	934	89,677	39,390	56,064	185,131
Jun	30	907	794	897	907	94,460	40,010	57,228	191,697
Jul	31	904	780	893	904	102,626	41,423	63,529	207,578
Aug	31	876	741	856	876	97,074	34,497	47,703	179,275
Sep	30	814	683	812	814	74,087	28,005	44,290	146,382
Oct	31	682	579	645	682	56,046	22,755	26,069	104,870
Nov	30	0	560	496	560	0	44,154	18,187	62,340
Dec	31	0	487	466	487	0	34,936	15,914	50,850
<b>TOTALS</b>	<b>365</b>	<b>926</b>	<b>886</b>	<b>934</b>	<b>934</b>	<b>513,970</b>	<b>577,799</b>	<b>443,434</b>	<b>1,535,202</b>

Figure 2-2: Energy Produced by Merritt PV system





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## 2.2 Economic Benefits Analysis

Chevron ES determined the economic benefits of the Merritt PV system by following the procurement requirements established by the Peralta CCD RFQ No. 07-08/19. Installation costs were developed using three bids provided by selected vendors for labor only; Chevron ES procures the PV panels and inverters through different bidding process. Chevron ES's process includes,

- Reviewed and evaluated existing documentation, including electrical and site drawings, and utility bills.
- Determined the feasibility and design parameters of the solar system.
- Review of potential location for the PV systems
- Evaluate different PV systems including fix tilt and tracking system
- Detailed engineering design of the selected PV system (Fix tilt)
- Managed a competitive procurement in selecting material vendors and subcontractors to perform the installation.
- Computed energy and demand savings of solar.
- Conducted financial analyses under different ownership models for potential energy system repairs.
- Prepared this technical report, and submitted it to PCCD staff.

As required by the district, Chevron ES provided the pricing breakdown indicated on table 2-2. This is a firm quote with Chevron ES's pricing and no-change orders guarantee included.





Table 2-2: Estimated Solar PV System Cost

<b>MERRITT COLLEGE SOLAR PV SYSTEM - 1.2 MW</b>						
PROJECT TASK	SUB COST (M&L COST)	ENGINEERING TRADES	GENERAL CONDITIONS (4%)	OVERHEAD (6%)	PROFIT (5%)	SUBTOTALS
PV PANELS and INVERTERS, MATERIALS ONLY	\$3,735,736	\$291,847	\$224,144	\$224,144	\$186,787	\$4,662,658
ELECTRICAL EQUIPMENT, MATERIAL AND LABOR. PANEL INSTALLATION	\$1,919,714	\$213,237	\$115,183	\$115,183	\$95,986	\$2,459,302
METAL STRUCTURES, MATERIAL AND LABOR	\$609,944	\$75,711	\$36,597	\$36,597	\$30,497	\$789,346
METERING EQUIPMENT, MATERIAL AND LABOR	\$86,166	\$20,714	\$5,170	\$5,170	\$4,308	\$121,528
DSA PERMITS, FENCING, OTHER MISC	\$98,175	\$19,030	\$5,891	\$5,891	\$4,909	\$133,895
LIGHTING & SECURITY PKG LOT "C"	\$175,000	\$30,042	\$10,500	\$10,500	\$8,750	\$234,792
<b>TOTAL PROJECT</b>	<b>\$6,624,735</b>	<b>\$650,580</b>	<b>\$397,484</b>	<b>\$397,484</b>	<b>\$331,237</b>	<b>\$8,401,520</b>

**ENGINEERING TRADES:**

1. COMMISSIONING AGENT
2. STRUCTURAL ENGINEERING
3. ELECTRICAL ENGINEERING
4. SOILS ENGINEERING
5. CIVIL ENGINEERING
6. ENGINEERING CONTINGENCY
7. PERFORMANCE BONDS
8. MANAGEMENT OF DIFFERENT TRADES
9. SUBMITTAL REVIEW
10. ETC.

**GENERAL CONDITION:**

1. SITE SECURITY
2. SITE TEMPORARY ELECTRICAL POWER
3. ON SITE CONSTRUCTION MANAGEMENT
4. FOREMAN: QUALITY CONTROL/QUALITY ASSURANCE
5. FOREMAN: PROJECT SAFETY
6. PROJECT DEVELOPMENT
7. COORDINATION WITH OTHER TRADES/CLIENT
8. TEMPORARY IT (PHONE LINES, FAXES, ETC.)
9. SAFETY TRAINING (STUDENTS APRENTICE)
10. DSA INPECTIONS MANAGEMENT

**OVERHEAD:**

**1. FRINGE RATE:**

- a) State Unemployment Insurance
- b) State Disability Insurance
- c) 401k Match
- d) Medical Dental Insurance
- e) Holiday/Vacation time
- f) Sick/Bereavement/Family emergency time
- g) Social Security taxes
- h) Life Insurance

**2.0 MISCELLANEOUS RATE:**

- a) Rent
- b) Utilities
- c) Taxes
- d) Cafeteria services

**3.0 GENERAL & ADMINISTRATIVE RATES:**

- a) Management
- b) Accounting
- c) IT
- d) Human Resources
- e) Marketing
- f) Corporate Allocations





A financial proforma was created to illustrate the economic benefits over the useful life of the PV system. The analysis illustrated on table 2-3 is based on the following assumption:

- Total Estimated Cost = \$8,401,520
- Total Annual Cost Avoidance = \$214,928 (1<sup>st</sup> year)
- Current cost of electricity = \$0.14/kWH
- Annual Usage Escalation = 1.5%
- Utility Cost Increase Rate = 4%
- Solar Panel Degradation Factor = 0.7%/year
- CSI Incentive Rate = \$0.26/kWH/yr
- REC Value = \$0.015/kWH
- Maintenance Cost = \$0.010/kWh/yr
- Maintenance Cost Escalation = 1.5%
- Cost of Electricity after PV = \$0.12/kWH
- Solar PV System size = 1200 kWdc (1.2 MWdc)
- Adjusted Annual PV Production = 1,528,910 kWh/yr (Assuming production will start on 2010)
- Net Present Value % = 5%
- Baseline Year = 2009
- 1<sup>st</sup> Year of Full Production = 2010
- Source of Funding = Measure A Bonds
- Useful life of PV Panels = 25 years (Manufacturer's warranty)
- Useful Life of Inverter = 20 years (Manufacturer's warranty)
- Cost of PV System = Valid for 30 days





Table 2-3: Solar PV System – Proforma

SUMMARY			TOTAL COST OVER 25 YRS	
SCENARIO	Business As Usual	Solar Program	\$26,732,917	\$12,885,082
Total Net Savings over 25 years		Net Present Value Savings at 5.0%	\$13,847,834	\$7,518,151
Simple Payback, yrs		19 yrs		
Electricity Cost Reduction (%)		51.80%		

MERRITT COLLEGE SOLAR PV SYSTEM FINANCIAL PROFORMA												
BUSINESS AS USUAL (BAU)		SOLAR PROGRAM				Solar PV System Benefits		Total Solar Program Cost	Solar Program Cost Savings	Accumulative Cost Savings		
Yr#	Year	Cost to PCCD	Cost Components			Total Solar Component Costs	CSI Incentive Payment	Renewable Energy Credits	Total Solar Component Benefits	Total Solar Program Cost	Solar Program Cost Savings	Accumulative Cost Savings
			Residual Electrical Cost	Annual Operation & Maintenance Costs	Annual Operation & Maintenance Costs							
1	2008	\$482,105			\$0					\$0	0	0
2	2009	\$508,910	\$240,622	\$15,289	\$255,912	394,893	22,934	\$417,827	(\$161,915)	\$670,825	\$670,825	\$670,825
3	2010	\$537,205	\$258,123	\$15,518	\$273,641	392,287	22,782	415,069	(\$141,428)	\$678,633	\$678,633	\$1,349,458
4	2011	\$567,074	\$276,732	\$15,751	\$292,483	389,698	22,632	412,330	(\$119,846)	\$686,920	\$686,920	\$2,036,379
5	2012	\$598,603	\$296,518	\$15,987	\$312,505	387,126	22,483	409,608	(\$97,103)	\$695,706	\$695,706	\$2,732,085
6	2013	\$631,886	\$317,549	\$16,227	\$333,776	384,571	22,334	406,905	(\$73,129)	\$705,014	\$705,014	\$3,437,099
7	2014	\$667,019	\$339,900	\$16,471	\$356,371		22,187	22,187	\$334,184	\$332,835	\$332,835	\$3,769,934
8	2015	\$704,105	\$363,650	\$16,718	\$380,367		22,040	22,040	\$358,327	\$345,778	\$345,778	\$4,115,712
9	2016	\$743,253	\$388,880	\$16,969	\$405,849		21,895	21,895	\$383,954	\$359,299	\$359,299	\$4,475,011
10	2017	\$784,578	\$415,680	\$17,223	\$432,903		21,750	21,750	\$411,153	\$373,425	\$373,425	\$4,848,436
11	2018	\$828,200	\$444,141	\$17,481	\$461,623		21,607	21,607	\$440,016	\$388,185	\$388,185	\$5,236,620
12	2019	\$874,248	\$474,362	\$17,744	\$492,106		21,464	21,464	\$470,642	\$403,607	\$403,607	\$5,640,227
13	2020	\$922,856	\$506,447	\$18,010	\$524,456		21,323	21,323	\$503,134	\$419,723	\$419,723	\$6,059,950
14	2021	\$974,167	\$540,504	\$18,280	\$558,784		21,182	21,182	\$537,602	\$436,565	\$436,565	\$6,496,515
15	2022	\$1,028,331	\$576,651	\$18,554	\$595,205		21,042	21,042	\$574,163	\$454,168	\$454,168	\$6,950,683
16	2023	\$1,085,506	\$615,009	\$18,832	\$633,841		20,903	20,903	\$612,938	\$472,568	\$472,568	\$7,423,251
17	2024	\$1,145,860	\$655,708	\$19,115	\$674,823		20,765	20,765	\$654,058	\$491,802	\$491,802	\$7,915,053
18	2025	\$1,209,570	\$698,887	\$19,402	\$718,288		20,628	20,628	\$697,660	\$511,910	\$511,910	\$8,426,964
19	2026	\$1,276,822	\$744,688	\$19,693	\$764,381		20,492	20,492	\$743,889	\$532,934	\$532,934	\$8,959,897
20	2027	\$1,347,814	\$793,266	\$19,988	\$813,254		20,357	20,357	\$792,897	\$554,916	\$554,916	\$9,514,814
21	2028	\$1,422,752	\$844,783	\$20,288	\$865,071		20,222	20,222	\$844,848	\$577,904	\$577,904	\$10,092,717
22	2029	\$1,501,857	\$899,409	\$20,592	\$920,002		20,089	20,089	\$899,913	\$601,944	\$601,944	\$10,694,662
23	2030	\$1,585,360	\$957,327	\$20,901	\$978,228		19,956	19,956	\$958,272	\$627,089	\$627,089	\$11,321,750
24	2031	\$1,673,506	\$1,018,727	\$21,215	\$1,039,942		19,825	19,825	\$1,020,117	\$653,389	\$653,389	\$11,975,140
25	2032	\$1,766,553	\$1,083,812	\$21,533	\$1,105,344		19,694	19,694	\$1,085,651	\$680,903	\$680,903	\$12,656,042
26	2033	\$1,864,774	\$1,152,795	\$21,856	\$1,174,650		19,564	19,564	\$1,155,087	\$709,687	\$709,687	\$13,365,729
<b>TOTALS</b>		<b>\$26,732,917</b>	<b>\$14,904,168</b>	<b>\$459,637</b>	<b>\$15,363,805</b>	<b>\$1,948,573</b>	<b>\$530,149</b>	<b>\$2,478,723</b>	<b>\$12,885,082</b>	<b>\$13,365,729</b>	<b>\$13,365,729</b>	
<b>NPV</b>		<b>\$12,925,046</b>	<b>\$7,149,373</b>	<b>\$249,663</b>	<b>\$7,399,036</b>	<b>\$1,688,350</b>	<b>\$303,790</b>	<b>\$1,992,140</b>	<b>\$5,406,896</b>	<b>\$7,518,151</b>	<b>\$7,518,151</b>	





## Section 3

# Renewable Generation: Merritt College Solar PV System

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This section includes of following:

**Solar Resource:** This division explains how solar resources can be quantified and analyzed to evaluate the benefit of a solar system at the Merritt College location.

**Savings Calculation:** This division explains how savings are calculated for the solar Photovoltaic system proposed for Merritt College

**Proposed PV system:** A detailed description of the solar photovoltaic system is included in this section.

**Scope of Work:** This division describes the proposed scope developed by Chevron ES for this project, aerial pictures and layouts of the system are included.





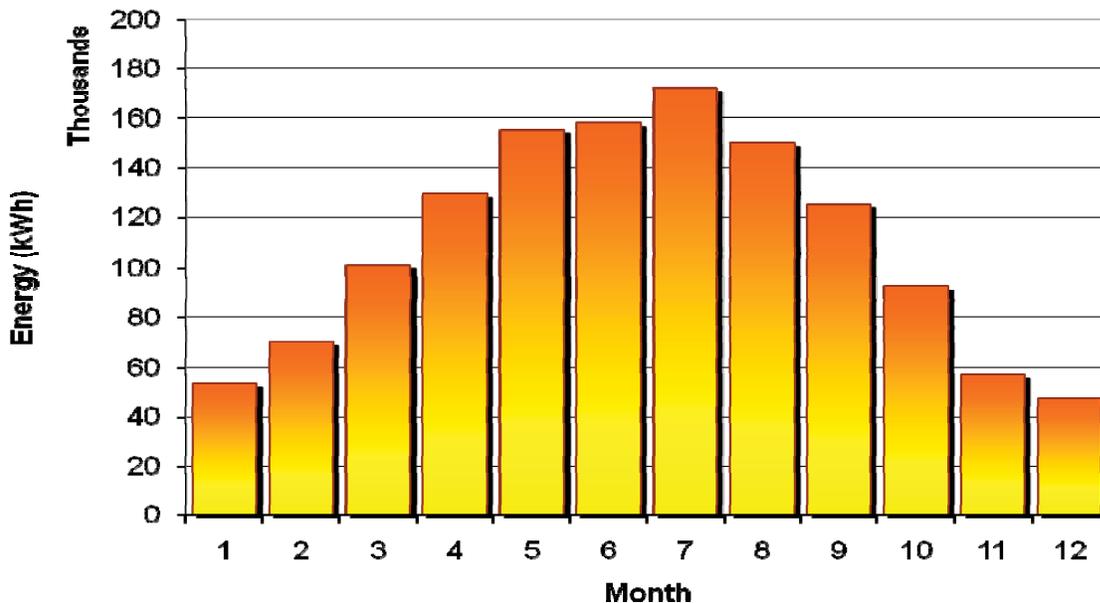
## 3.1 Solar Resources

Peralta Community College District is situated in an excellent geographic location to take advantage of the energy provided by the sun. At the same time, California is currently the State that best combines good solar insolation and economic incentives.

### Insolation data

Using weather data collected between 1960 and 1990, the University of Geneva has put together a model (PVSYST) able to predict the amount of solar energy received in a year in any location in around the world. PVSYST uses historical irradiance data to determine the power density of the sunlight incident on a PV array at a certain location. Irradiance is measured in watts per square meter. The earth receives 1367 W/m<sup>2</sup> from the sun, but the atmosphere limits the amount of irradiance available at the earth's surface to 1000 W/m<sup>2</sup>. Chevron ES uses this model to estimate energy generation by the solar PV system.

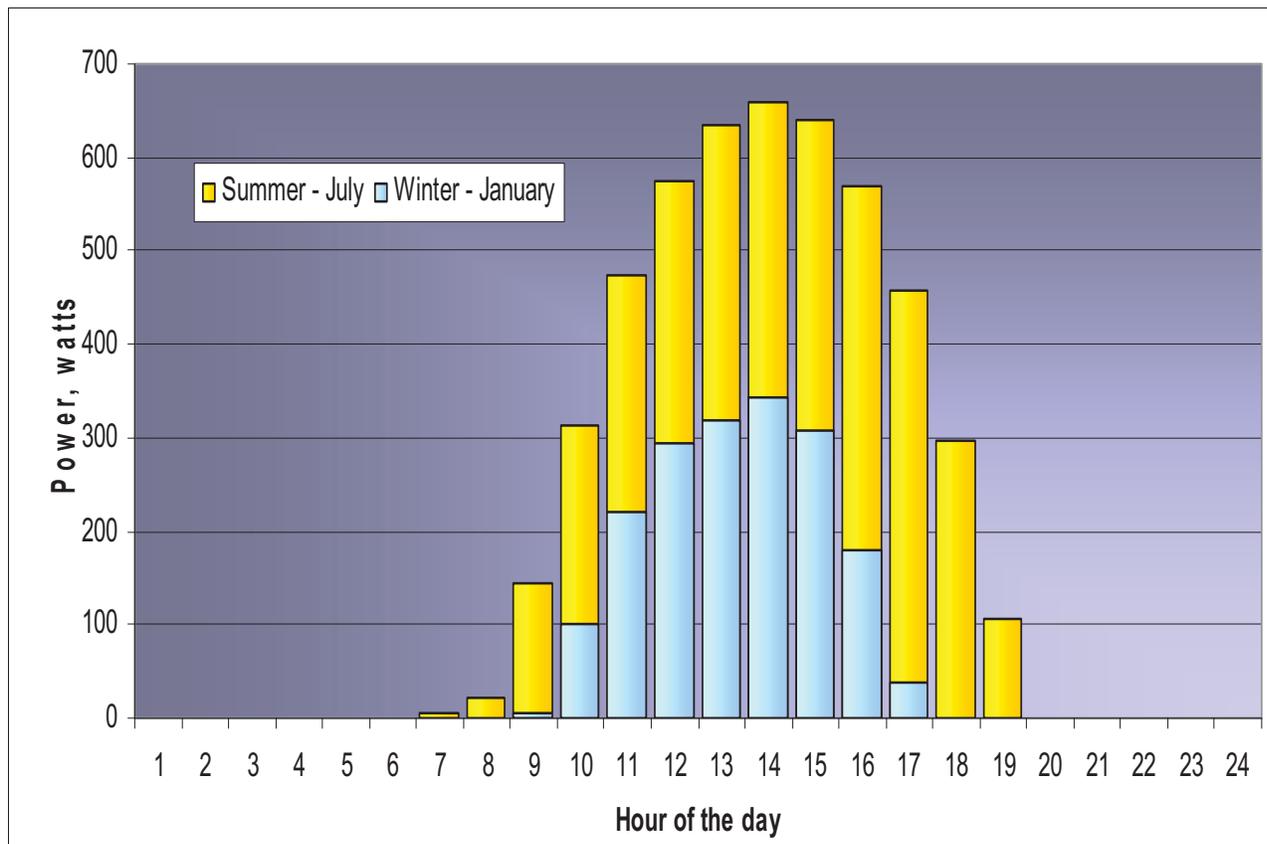
**Figure 3-1** illustrates how much solar energy is produced throughout the year per unit of capacity installed. **Figure 3-2** shows, on average, how the solar energy produced varies during the day for January and July.



**Figure 3-1: Energy produced by 1 kW of south facing photovoltaic panels tilted at 5 degrees over a year with Typical Meteorological Conditions<sup>1</sup>.**

<sup>1</sup> Typical Meteorological Year (TMY) : Composite year of hourly data created using whole months of data from selected years, while minimizing standard deviation from the composite of any given year. This allows for the creation of average, but realistic, hour-by-hour data.





**Figure 3-2: Power output of 1kW of south facing photovoltaic panels tilted at 5 degrees, average over the month of July in yellow, over the month of January in blue**

A photovoltaic array generates the most electrical energy in the summer when electrical costs are the highest, maximizing the value of the array

### Impact analysis for Merritt College

An hour-by-hour output was generated for the solar systems at Merritt College to calculate the new usage parameters of the college. The complete model recreates a whole year of consumption, solar production and billing.

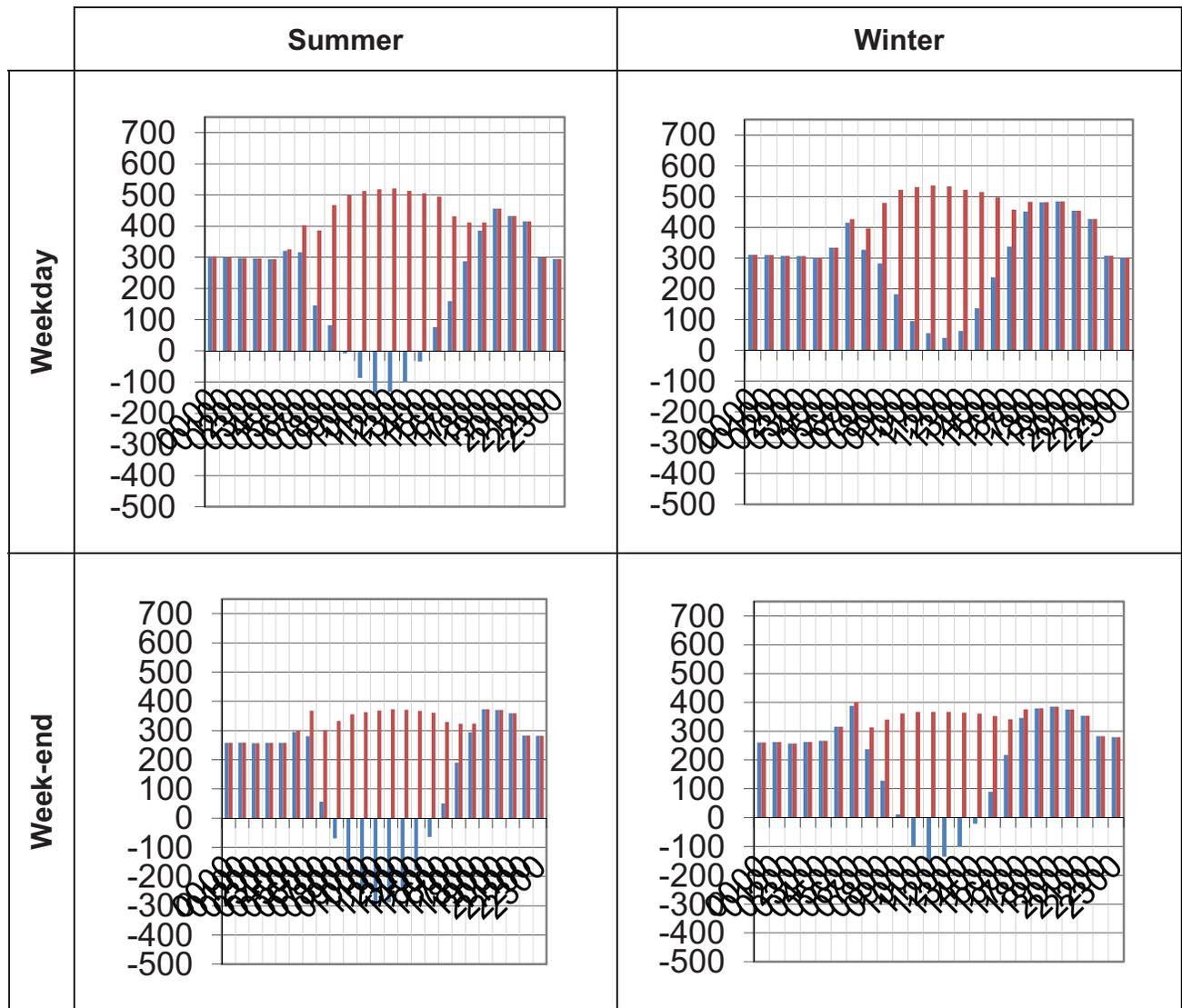
Figure 3-3 illustrates the results for average week days and week-end days for the two seasons, not only showing the variability of both consumption and production, but also demonstrating how solar matches the demand of the college by providing power in the middle of the day.

The hourly electrical demand data used was provided by PG&E.





**Figure 3-3: Merritt College Load analysis: Blue = business-as-usual average load; Red = residual load after the solar system is installed.**





## 3.2 Savings Calculations

### Calculation Methodology

Chevron ES ensures the accuracy of the solar PV savings calculations by using an hourly simulation computer engine, this program developed by Chevron ES engineering team uses both PVWatts and PVSYST to estimate energy production, for the Merritt PV system we use PVSYST for all calculation. An example of how Chevron ES engine works is described below.

Consider a PV system that generates 100 kW between 3:00 PM and 4:00 PM on July 27th. For a customer purchasing power under the E-19P tariff rate similar to Merritt's, one kilowatt hour costs \$0.15645, or the summer-peak rate. The 100 kW generated by the PV system is 100 kW less that the customer must purchase from PG&E. At \$0.15645/kWh, the customer has saved \$15.645 for the hour under consideration. If the solar PV produces 200 kW between 3:00 PM and 4:00 PM on July 27th and only 100kW is used, the 100 kW additional power is net-metered, pay the customer \$15.645 for the hour and PG&E will store the energy as a credit to be used at another time when the electricity consumption is greater that the PV production, e.g., at night or off-peak rates. The savings calculation engine performs this calculation for all 8760 hours of the year, at any PG&E tariff rate, summing the energy generated and dollars saved. A similar process calculates the business as usual electrical cost and the residual electrical cost. The business as usual cost is the utility bill before the PV system is installed. The residual cost is the cost of the power that the facility uses that is not supplied by the PV system.

When using current utility rates, this method provides conservative first year savings numbers, given that utility costs are on the rise, an escalation factor is applied to determined anticipated savings based on future rates. To illustrate the impact of the PV system over its expected 25 year lifespan, the calculation engine escalates the energy costs each year, based on PG&Es rate increases over the last ten years.

E19 Electrical Rates – PG&E

Season	Time-of-Use Period	Demand Charge (per kW)			Time-of-Use Period	Total Energy Charge (per kWh)		
		Secondary	Primary	Transmission		Secondary	Primary	Transmission
Summer	Max. Peak	\$13.51	\$12.29	\$9.90	Peak	\$0.15592	\$0.15645	\$0.11575
	Part Peak	\$3.07	\$2.79	\$2.24	Part Peak	\$0.10595	\$0.10446	\$0.09192
	Maximum	\$7.70	\$6.66	\$4.68	Off Peak	\$0.08545	\$0.08193	\$0.07767
Winter	Part Peak	\$1.04	\$0.78	\$0.00	Part Peak	\$0.09387	\$0.08921	\$0.08327
	Maximum	\$7.70	\$6.66	\$4.68	Off Peak	\$0.08228	\$0.07776	\$0.07343





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**Summer Season (May-October):**

Peak Hours: 12:00 noon to 6:00 pm, Monday-Friday (except holidays)  
Partial-Peak Hours: 8:30 am to 12:00 noon AND 6:00 pm to 9:30 pm, Monday-Friday (except holidays)

Off-Peak Hours: 9:30 pm to 8:30 am, Monday-Friday; All day Saturday, Sunday and holidays

**Winter Season (November-April):**

Partial-Peak Hours: 8:30 am to 9:30 pm, Monday-Friday (except holidays)  
Off-Peak Hours: 9:30 pm to 8:30 am, Monday-Friday (except holidays); All day Saturday, Sunday and holidays

## **Derating factors and Assumptions used to calculate output**

The following terms and units are used in the model utilized to determine energy generated and the capacity of a photovoltaic system:

- The DC STC (Standard Test Conditions) rating is what is commonly used for pricing since it is the nameplate rating of the modules. The STC are used to find out what is the capacity of a given module during the manufacturing process.
- The DC CEC rating is the output taken into account for incentives in California. It is somewhat lower than the STC one because it uses more realistic climatic conditions, equipment ratings from a world recognized independent verification of performance entity known as Photon Magazine.
- The AC rating is the rating of the system at the interconnection point and it includes the influence of all components of the system through the use of derating factors:
  - o PV module nameplate DC rating: 5% error
  - o Inverter and Transformer: 8% losses
  - o Mismatch: 3% losses
  - o Diodes and connections: 0.05% losses
  - o DC wiring: 2% losses
  - o AC wiring: 1% losses
  - o Soiling: 5% losses
  - o System availability: 2% off-line

Overall, the conversion losses amount to roughly 77% and the AC rating of a system is roughly 0.77 times the STC rating. Adding time considerations, one should note that the output of the system declines yearly by about 0.7%, which is included in our calculations.

The performance specification for each of the solar PV components proposed for the Merritt College system is illustrated in the following graphs. For more information please see performance sheets on appendix C. Hourly data used to determine energy production is included in appendix F.



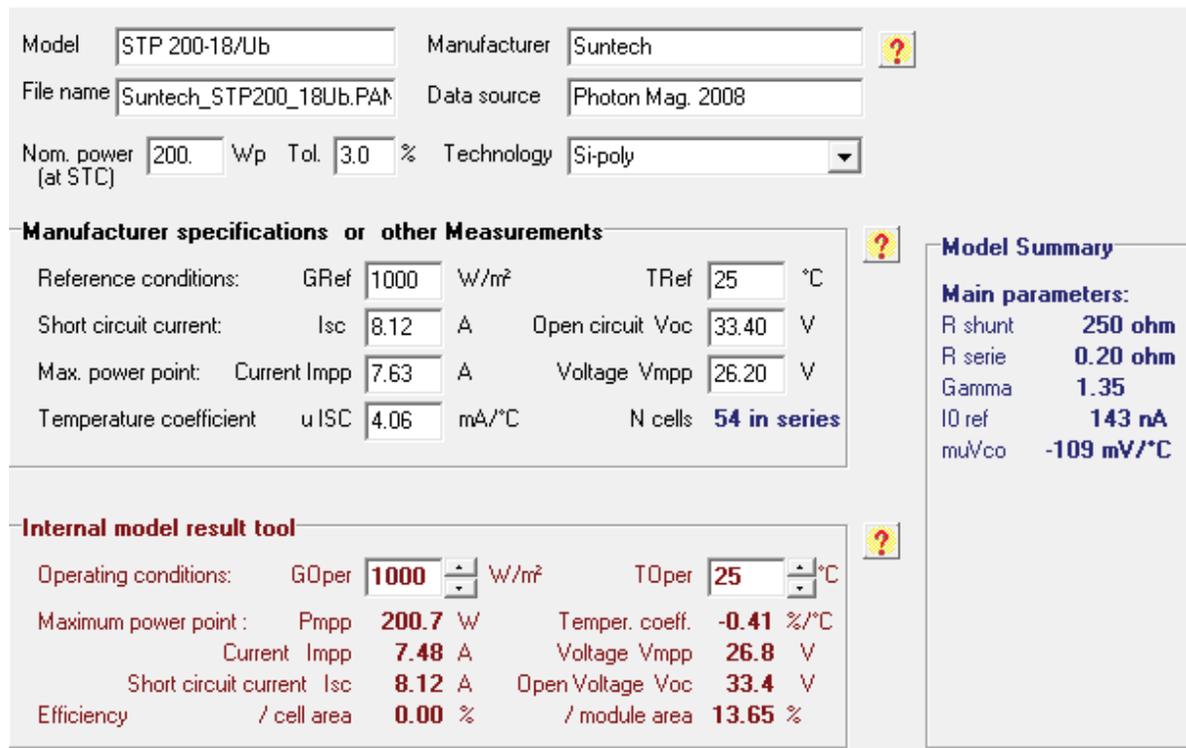


Figure 3-4: PV Module Basic Data

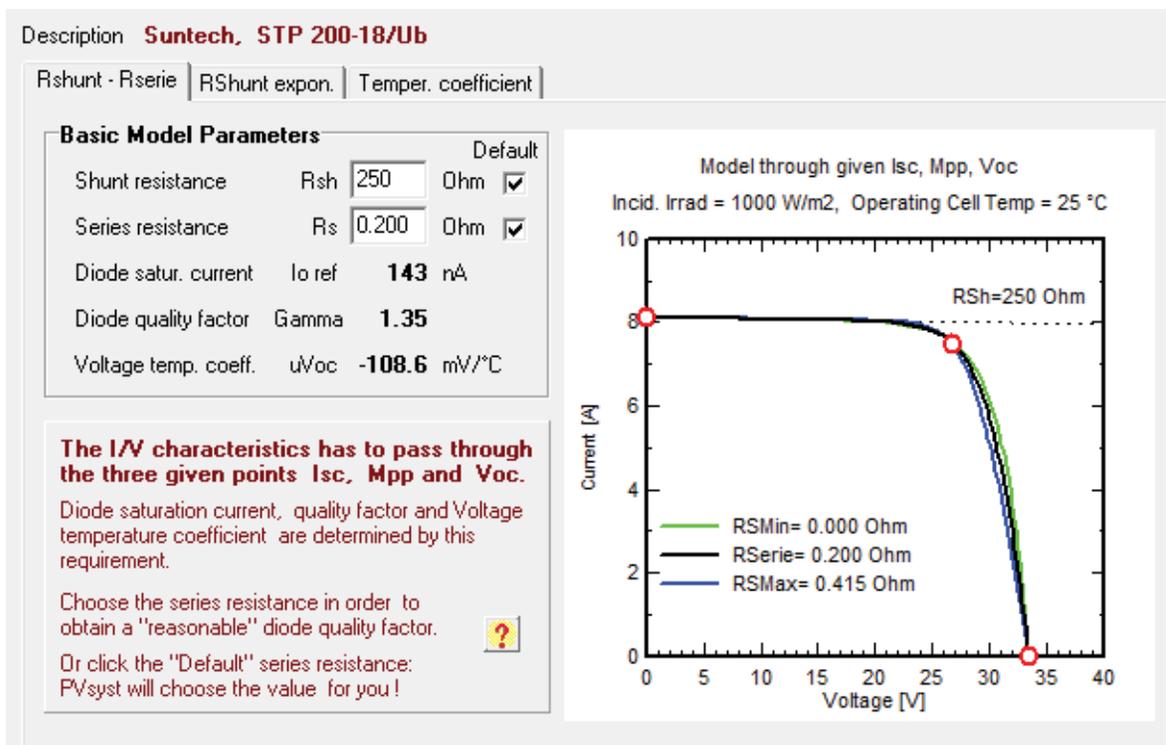


Figure 3-5: PV Module Model Parameters

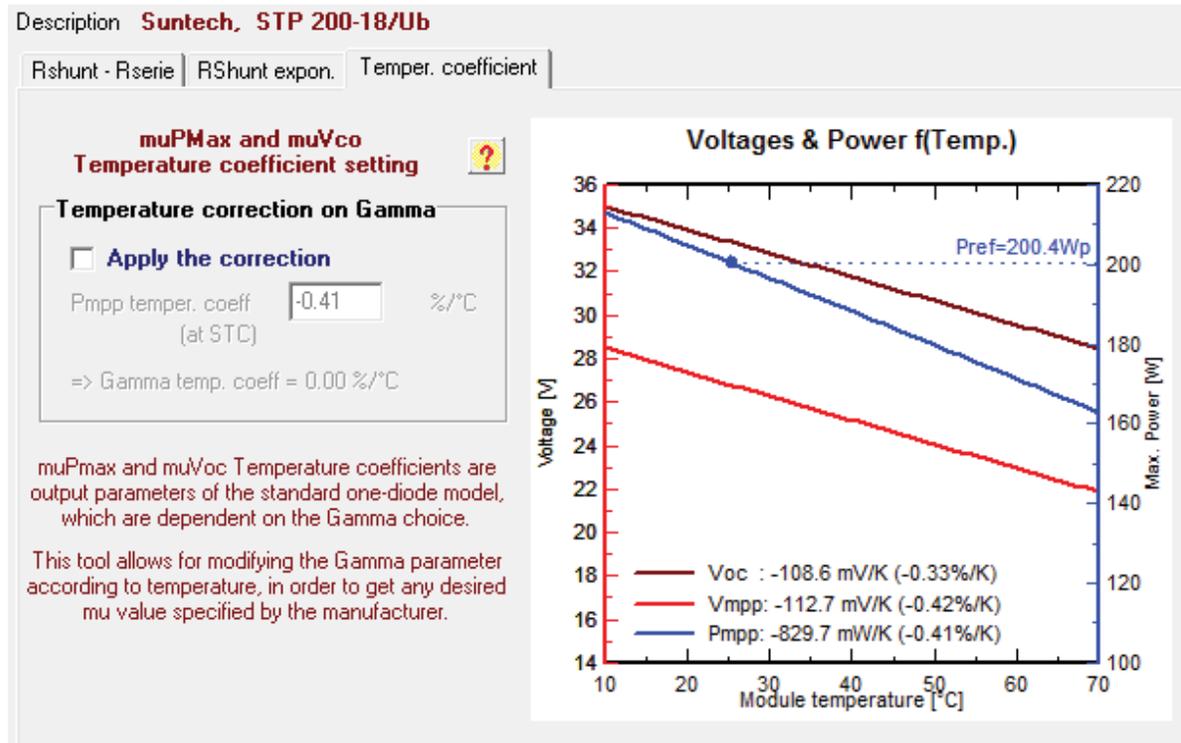


Figure 3-6: PV Module Temperature Coefficient

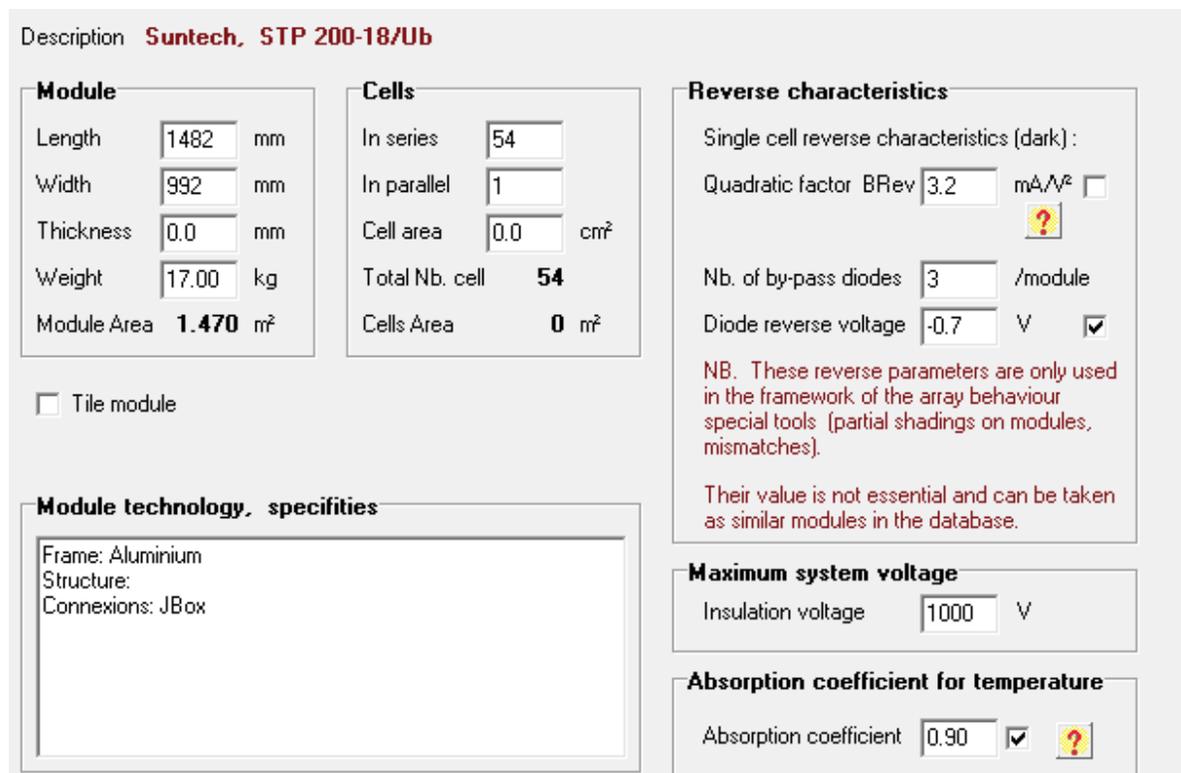


Figure 3-7: PV Module Sizes and Technology





A sample result from the modeling of the Merritt PV is illustrated on Figure 3-8.

PVSYST V4.37		30/09/09	Page 1/3
<b>Grid-Connected System: Simulation parameters</b>			
<b>Project :</b>	<b>Merritt College</b>		
<b>Geographical Site</b>	<b>Oakland</b>	<b>Country</b>	<b>USA</b>
<b>Situation</b>	<b>Latitude</b> 37.7°N	<b>Longitude</b>	<b>122.2°W</b>
<b>Time defined as</b>	<b>Legal Time</b> Time zone UT+8	<b>Altitude</b>	<b>1 m</b>
	<b>Albedo</b>	<b>0.20</b>	
<b>Meteo data :</b>	<b>Oakland , synthetic hourly data</b>		
<b>Simulation variant :</b>	<b>Hillside Inverter 1</b>		
	<b>Simulation date</b>	<b>30/09/09 18h07</b>	
<b>Simulation parameters</b>			
<b>Heterogeneous field, double orientation</b>			
	<b>Array#1 tilt</b> 5°	<b>Proportion of array #1</b>	<b>27 %</b>
	<b>Array#2 tilt</b> 5°	<b>Array#1 azimuth</b>	<b>-25°</b>
		<b>Array#2 azimuth</b>	<b>15°</b>
<b>Horizon</b>	<b>Free Horizon</b>		
<b>Near Shadings</b>	<b>No Shadings</b>		
<b>PV Array Characteristics</b>			
<b>PV module</b>	<b>Si-poly</b>	<b>Model</b>	<b>STP 200-18/Ub</b>
		<b>Manufacturer</b>	<b>Suntech</b>
<b>Number of PV modules</b>	<b>In series</b>	<b>16 modules</b>	<b>In parallel</b> 131 strings
<b>Total number of PV modules</b>	<b>Nb. modules</b>	<b>2096</b>	<b>Unit Nom. Power</b> 200 Wp
<b>Array global power</b>	<b>Nominal (STC)</b>	<b>419 kWp</b>	<b>At operating cond.</b> 377 kWp (50°C)
<b>Array operating characteristics (50°C)</b>	<b>U mpp</b>	<b>385 V</b>	<b>I mpp</b> 979 A
<b>Total area</b>	<b>Module area</b>	<b>3081 m²</b>	
<b>PV Array loss factors</b>			
<b>Heat Loss Factor</b>	<b>ko (const)</b>	<b>29.0 W/m²K</b>	<b>kv (wind)</b> 0.0 W/m²K / m/s
<b>=&gt; Nominal Oper. Coll. Temp. (800 W/m², Tamb=20°C, wind 1 m/s)</b>			<b>NOCT</b> 45 °C
<b>Wiring Ohmic Loss</b>	<b>Global array res.</b>	<b>12.9 mOhm</b>	<b>Loss Fraction</b> 3.0 % at STC
<b>Series Diode Loss</b>	<b>Voltage Drop</b>	<b>0.7 V</b>	<b>Loss Fraction</b> 0.2 % at STC
<b>Array Soiling Losses</b>			<b>Loss Fraction</b> 5.0 %
<b>Module Quality Loss</b>			<b>Loss Fraction</b> 3.0 %
<b>Module Mismatch Losses</b>			<b>Loss Fraction</b> 2.0 % at MPP
<b>Incidence effect, ASHRAE parametrization</b>	<b>IAM = 1-bo (1/cos i - 1)</b>	<b>bo Parameter</b>	<b>0.05</b>
<b>System Parameter</b>	<b>System type</b>	<b>Grid-Connected System</b>	
<b>Inverter</b>	<b>Model</b>	<b>PowerGate Plus PVS-375</b>	
	<b>Manufacturer</b>	<b>Satcon</b>	
<b>Inverter Characteristics</b>	<b>Operating Voltage</b>	<b>305-600 V</b>	<b>Unit Nom. Power</b> 375 kW AC
<b>Repartition on fields</b>	<b>Field #1</b>	<b>35 strings on the mixed inverter</b>	
	<b>Field #2</b>	<b>96 strings on the mixed inverter</b>	
<b>User's needs :</b>	<b>Unlimited load (grid)</b>		

**Figure 3-8: PVSYST Modeling Sample Results**





## 3.3 Merritt College Solar PV System

Chevron ES recommends installing a ground-mounted and a parking canopy solar photovoltaic (PV) systems at the Merritt College campus. This will offset 45% approximately of the College's electric demand with clean, renewable onsite-generation. PV systems produce the most electricity during peak hours of the day when electric rates are the highest. By installing PV at the Merritt campus, the Peralta Community College District will reduce its energy bills by displacing power purchased at peak rates. The solar power system will enable the District to hedge against increasing electricity rates. PG&E rates have historically increased at 6% a year on an average basis and are projected to escalate between 6%–8% annually in the future.

### Solar Benefits:

- *Environmental stewardship*
- *Positive public recognition*
- *Diversify the District's energy portfolio*
- *Hedge against increasing electric rates*
- *Generate General Fund savings*
- *On-site learning laboratory for renewable energy*
- *Clean and renewable energy produced = 1,529,526 kWh/yr*
- *% Of total energy use generated by PV = 45%*
- *GHG Emissions eliminated = 374 tons CO<sub>2</sub>/yr*
- *General Fund savings, 1st year = \$214,134*
- *Estimated Utility Incentives = \$1,947,015 (Paid over five years)*

### Proposed PV System

The Merritt PV system will include a ground-mounted PV array located on the hillside by the football field at the Merritt College campus. The PV system will be approximately 838 kWdc in size. Chevron ES also recommends installing a parking shade structure at Merritt College parking lot "C" of approximately 362 kWdc. The total size of the PV systems will be approximately 1.2 MW in size and will provide approximately 45% of the total energy usage by the college. Figure 3-9 illustrates the location of both PV systems. Figure 3-10 includes the proposed layout to avoid blocking the site view of the bay, as requested by the district. Figures 3-11, and 3-12 are computer rendering images of both solar PV system proposed for Merritt College.





Figure 3-9: Ground Mount and Parking Canopy Photovoltaic System



**Project Description:**  
**Proposed System Size: 1.2 MW PV**  
**Potential Offset:**  
45% reduction in Merritt's Annual Utility Bill



Figure 3-10: Solar PV System Proposed Layout

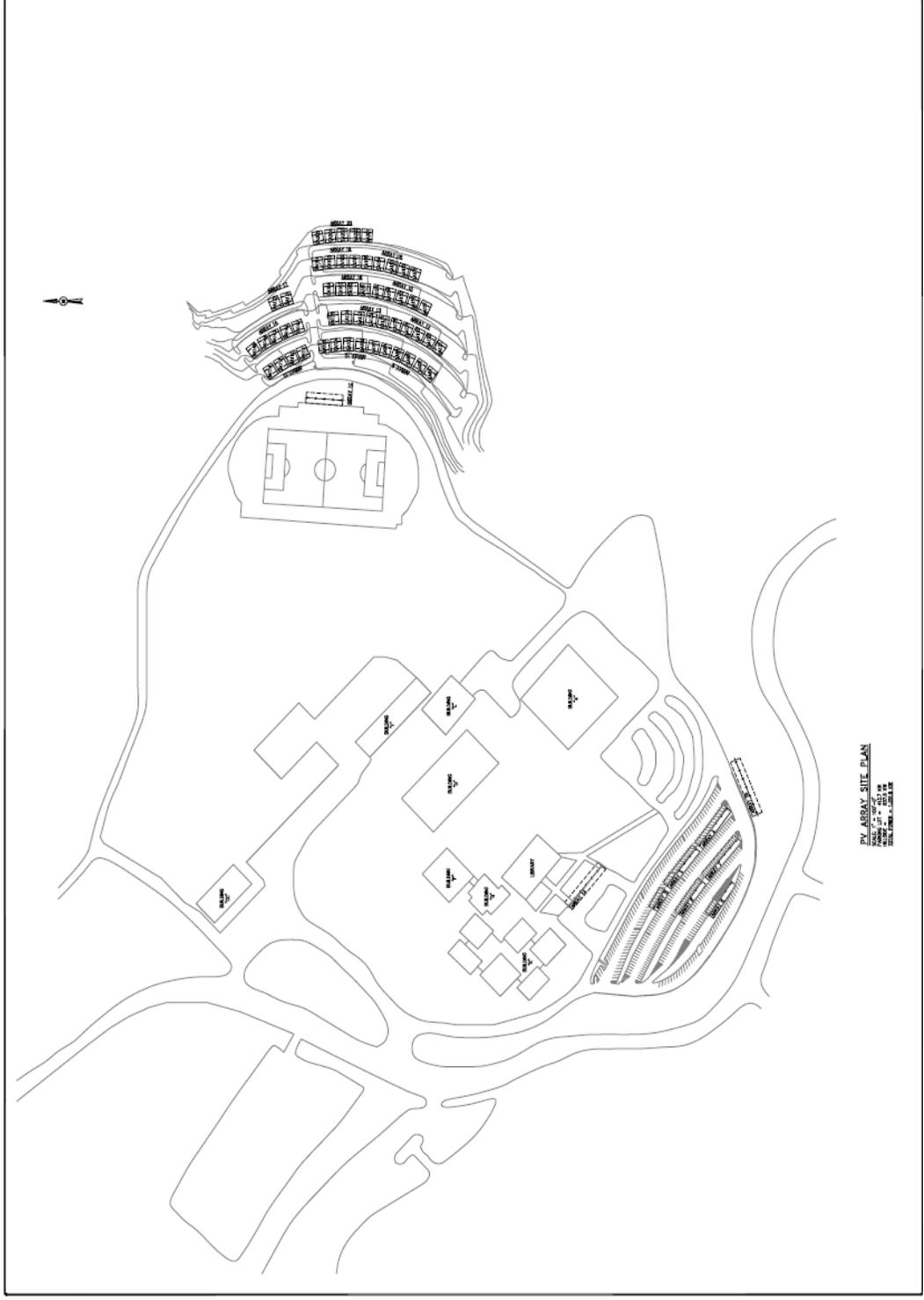




Figure 3-11: Parking Lot "C" Solar PV System



Figure 3-12: Hillside Ground-Mount PV System





## 3.4 Scope of Work

Chevron ES recommends installing a solar PV system with a total capacity of 1.2 MWdc (Direct Current) including 362 kWdc of parking canopies installed at Parking Lot "C", and 838 kWdc of ground mount structures installed on a hillside. Based on the requirements for parking lot "C" expressed by the district and the desire to maximize the economic incentives provided by the California Solar Initiative managed by PG&E, a system sized for 1.2MW will best meet Peralta's stated needs.

Our design-built process will include the following items:

### Parking Lot "C" Canopies

- Provide and install 362 kWdc of solar PV panels to be mounted on a parking shading structure
- Provide and install parking canopies structures to accommodate 362 kW of solar panels
- New lighting fixtures mounted under new parking canopies
- Inverters and all the necessary electrical equipment and conduits to connect to the nearest electrical substation.
- Add electrical breakers as needed to existing panel and all necessary conduit and wiring
- Application for incentives through the CSI program.
- Metering equipment to verify electrical production required to obtain incentives from the California Solar Initiative program.
- All engineering specialties required to deliver a complete system are included
- Project management costs are include
- On-site construction management is included (one construction superintendent)
- AutoCAD drawings and operation and maintenance manuals will be provided at completion of project (hard and electronic copies)

### Assumptions and exceptions:

- Indicative pricing based on straight time work between the hours of 7:00 – 3:30
- No hazardous materials removal is included
- No geotechnical reports were available at the time Chevron ES develop the design for Parking Lot "C", our pricing assumes digging and trenching is possible with normal construction equipment, no blasting or other similar methods are included.
- CEQA or other environmental studies will be responsibility of Peralta CCD
- Cost of conduct public hearing, if needed, is the responsibility of the district. Chevron ES will facilitate field experts to attend any hearings as required by the district.





- Parking areas during construction will be blocked to access by students and college personal for safety reasons.

## Hillside Ground-Mount PV System

- Provide and install 838 kWdc of solar panels mounted on a ground metal structure
- Provide and install ground metal structures to accommodate 838 kW of solar panels
- Inverters and all the necessary electrical equipment and conduits to connect to the nearest electrical substation.
- Add electrical breakers as needed to existing panel and all necessary conduit and wiring
- Application for incentives through the CSI program.
- Metering equipment to verify electrical production required to obtain incentives from the California Solar Initiative program.
- All engineering specialties required to deliver a complete system are included
- Project management costs are include
- On-site construction management is included (one construction superintendent)
- AutoCAD drawings and operation and maintenance manuals will be provided at completion of project (hard and electronic copies)

### Assumptions and exceptions:

- Indicative pricing based on straight time work between the hours of 7:00 – 3:30
- No hazardous materials removal is included
- No geotechnical reports were available at the time Chevron ES develop the design for Parking Lot "C", our pricing assumes digging and trenching is possible with normal construction equipment, no blasting or other similar methods are included.
- CEQA or other environmental studies will be responsibility of Peralta CCD
- Cost of conduct public hearing, if needed, is responsibility of the district. Chevron ES will facilitate field experts to attend any hearings as required by the district.
- Parking areas during construction will be blocked to access by students and college personal for safety reasons.

## Material & Equipment

Chevron ES's current design includes the following material:

- Solar Panels: Suntech STP200
- Inverters: Satcon PVS375
- Monitoring System: A89DC-08

Specification and cut sheet of the equipment mentioned above are included in appendix D. The complete designs for both locations are included in appendix E.





Section 4

# **Monitoring & System Maintenance**

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## California Solar Initiative Monitoring Requirements

The California Solar Initiative (CSI) provides financial incentives to customers installing PV systems in territories service by investor owned utilities. All PV systems enrolled in the CSI program must abide by the minimum metering and monitoring requirements outlined in the CSI Program Handbook. Please refer the CSI Program Handbook for a complete description of the metering and monitoring requirements (<http://www.gosolarcalifornia.ca.gov/csi/index.html>).

### Monitoring Services

To help ensure the long-term success of the District's energy program, Chevron ES offers a monitoring system to provide the District with the ability to monitor the Merritt College PV system output in near real time.

The proposed plan includes the following monitoring services:

- Electricity generation monitoring reports managed through UtilityVision
- IT and Firewall Port Requirements for UtilityVision
- Annual site visit

### UtilityVision Monitoring System

The main component of our UtilityVision is the "Acquisuite" Data Acquisition Server. The data acquisition server collects data from the onsite monitoring equipment, translates the data to useful information and uploads it to our central server. After formatting the information, a kiosk located at the Merritt College facility (or any other location selected by the district) displays the energy generated by the PV system.

The tables below identify the network architecture for the kiosk display and data acquisition server.

In order to be able to maintain the devices, CES will need a VPN connection. The connection should be open to the range 12.105.152.128/27 or at least 12.105.152.137.

### AcquiSuite Data Acquisition Server – TCP Ports

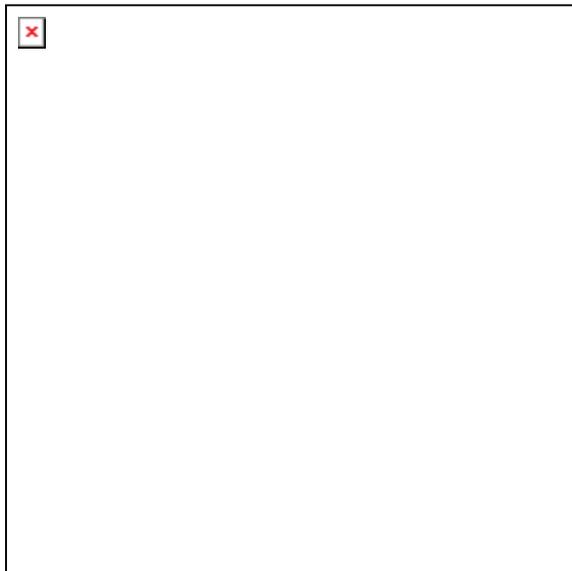
Port Number	Direction	Transport Protocol	Communication Protocol	Description
80	Outbound	TCP	HTTP	Used to upload interval data and status information.
80	Inbound	TCP	HTTP	Allows remote connection for maintenance purposes





## Kiosk Display – TCP Ports

Port Number	Direction	Transport Protocol	Communication Protocol	Description
80	Outbound	TCP	HTTP	Used to download web content to local drive
3389	Inbound	TCP	Terminal Client	Allows remote desktop connection for maintenance purposes



## Additional Connectivity Requirements

UtilityVision requires the following connectivity provisions:

- Provide a 10BaseT Ethernet connection on the LAN for each UtilityVision panel
- Assign a static internal IP address (10 dot) for each UtilityVision panel.
- Assign a public IP address to each metering panel.
- Provide the default gateway IP address and the network mask size.

## Maintenance Services

In conjunction with our commitment to quality and long term relationships with our customers, Chevron ES offers a maintenance program with five and ten year components to support the rebate and warranty.





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### **Inspections (10 years)**

Inspect PV modules, combiner boxes, inverters, isolation transformers, and support structure on an annual basis.

On an annual basis, measure voltage and current output at each PV string and compare the measurements to isolation and temperature readings.

On an annual basis, check electrical connections at array combiner boxes, main combiner boxes and inverters.

### **Monitoring (5 years)**

Monitor system performance on a real-time basis. Provide a real-time data stream to the kiosk display.

### **Inverter Cleaning (5 years)**

1. Remove dust, dirt, and debris from outside cabinets of combiner boxes, inverters, transformers, and disconnect switches on an annual basis.
2. If Chevron ES determines that additional cleaning and site maintenance services are necessary to maintain the integrity of the system, we shall provide at an additional cost.

### **Solar Panel Cleaning (3 years)**

1. Wash PV modules to remove accumulated dust and debris on an annual basis.
2. If Chevron ES determines that additional cleaning and site maintenance services are necessary to maintain the integrity of the system, we shall provide at an additional cost.

### **Repair Services**

Provide repairs for the PV system as required to restore the generating facilities to normal operating parameters or to replace deteriorated, damaged parts.

"Repairs" will include any of the following as necessary: procuring parts or materials, removing damaged or out-of-specification parts or materials, and installing repaired or replacement parts or materials and testing.

In the event that Chevron ES determines repair services are necessary, we shall provide for those repairs and receive payment on a time and materials basis. In such an event, we will, except in the event of an emergency or in the event that we otherwise believe that a failure of the generating facility is imminent, provide advance notice to and receive prior written approval from District, of the scope, schedule and reasons for the repair.

### **Responsibilities of the District**

- Generating facilities shall be preserved in their entirety and maintained in good working order as of the Effective Date of the Solar Services Contract. The district shall not alter the system in any way that prevents Chevron ES from performing maintenance duties.
- Operate and maintain security systems associated with generating facilities.





- 
- Allow Chevron ES and our subcontractors to access as necessary to the generating facilities, and any related areas that may be reasonably necessary for performance of the services.
  - Allow Chevron ES and our subcontractors to access reasonable quantities of water, electrical power, and other utilities then existing at the site as necessary for contractor to satisfy its obligations, free of charge.
  - Customer shall be responsible pursuant to applicable law for the remediation of any known Hazardous Substances encountered by Contractor during the performance of the Services.
  - Chevron ES shall have no obligation to provide the Services to the extent such provision of services is materially adversely affected by District's failure to satisfy the conditions set forth in this section.
  - The District shall maintain the height of trees (if not removed or relocated) that have already been specified to an acceptable level so as not impede maximum solar production of any solar panel.





APPENDIX A

# **RFQ No. 07-08/19 Results**

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Peralta Community College District  
Department of General Services

**MEMORANDUM**

**DATE:** December 11, 2007

**TO:** Elihu M. Harris, Chancellor  
Board of Trustees

**FROM:** Dr. Sadiq B. Ikhara, Vice Chancellor for General Services

**SUBJECT:** Approval to Develop and Negotiate a Partnership Contract for Energy Master Planning and Energy Infrastructure Retrofit Services with Chevron Energy Solutions

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PERALTA COMMUNITY COLLEGE DISTRICT  
Board of Trustees Agenda Report

For the Trustee Meeting Date of December 11, 2007

**ITEM TITLE:**

**Approval to Develop and Negotiate a Partnership Contract for Energy Master Planning and Energy Infrastructure Retrofit Services with Chevron Energy Solutions**

**SPECIFIC BOARD ACTION REQUESTED:**

Authorization is requested to enter into contract negotiations with Chevron Energy Solutions for Energy Master Planning and Energy Infrastructure Retrofit Services pursuant to Request for Qualifications (RFQ 07-08/19).

**ITEM SUMMARY:**

Authorization is requested to enter into contract negotiations with Chevron Energy Solutions for Energy Master Planning and Energy Infrastructure Retrofit services pursuant to RFQ 07-08/19, Energy Management Services District-Wide. After a thorough evaluation process, Chevron Energy Solutions received the highest scores on criteria deemed essential to assist the District in developing and implementing an energy management master plan.

**BACKGROUND/ANALYSIS:**

The following six companies submitted proposals by October 23, 2007, for in response to RFQ 07-08/19:

1. Chevron Energy Solutions
2. Siemens Inc. jointly with Intergy
3. Noresco
4. Johnson Controls
5. DMJM Harris
6. Honeywell

*Board Agenda Report – Meeting of December 11, 2007  
 Authorization to Develop and Negotiate a Partnership Contract for  
 Energy Master Planning and Energy Infrastructure Retrofit Services  
 with Chevron Energy Solutions  
 Page 2*

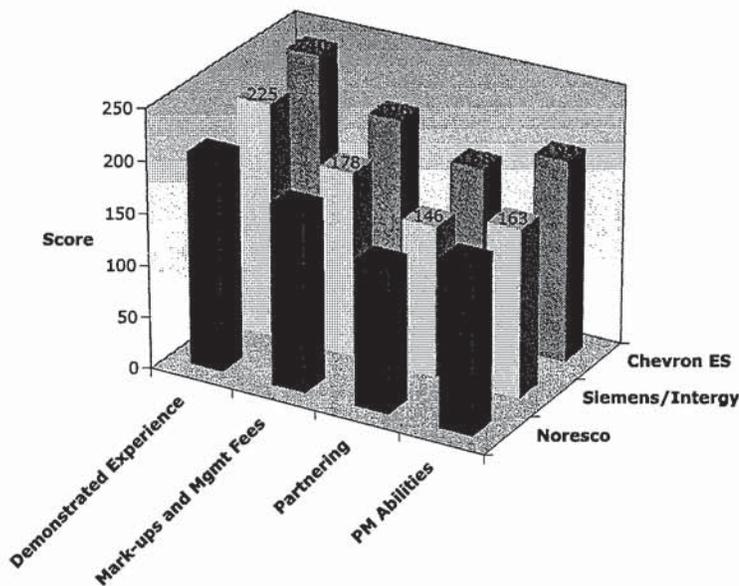
A selection committee was convened, which was comprised of District-wide stakeholders and two energy and sustainability consultants for the District. The following chart summarizes the scores from initial evaluation of the six proposals:

Company <i>Points Possible</i>	Demonstrated Experience <i>80</i>	PM Abilities <i>60</i>	Partnering <i>40</i>	Mark-ups and Mgmt Fees <i>80</i>	Strength of Local Office <i>40</i>	Innovation, Financing <i>40</i>	Monitoring, Building Automation <i>40</i>	Total <b>380</b>
Chevron ES	66	48	37	63	36	37	36	<b>323</b>
Noresco	66	48	32	64	27	33	32	<b>302</b>
Siemens/Intergy	63	46	33	52	37	34	34	<b>299</b>
DMJM Harris	61	47	31	66	28	34	32	<b>299</b>
Honeywell	61	45	23	65	20	35	28	<b>277</b>
Johnson Controls	53	40	27	62	24	25	28	<b>259</b>

The highest scoring three firms were selected for interviews by the committee: Chevron Energy Solutions, Siemens/Intergy and Noresco. Though DMJM Harris scored the same number of raw points as Siemens/Intergy, staff chose Siemens/Intergy as third place because it scored equal or higher on five of seven categories.

Following interviews with these three companies on November 20, 2007, the evaluating panel scored Chevron Energy Solutions with the highest marks on the evaluation categories, and it is the recommended company. The following summarizes the scores from the panel:

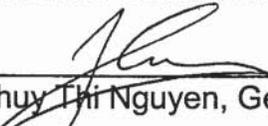
*Interview Evaluations for Respondents to RFQ 07-08/19*





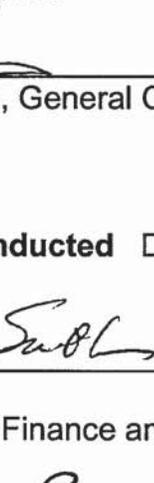
**GENERAL COUNSEL (Legality and Format/adherence to Education Codes):**

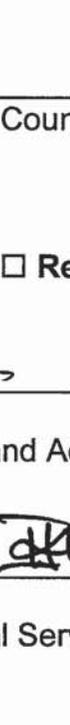
Legal review conducted                       Legal review not required

Signature:  Date: 12/6/07  
Thuy Thi Nguyen, General Counsel

**FINANCE DEPARTMENT**

Finance Review Conducted     Review not required

Signature:  Date: 12.06.07  
Thomas Smith  
Vice Chancellor for Finance and Administration

Administrator:  Date: December 11, 2007  
Dr. Sadiq B. Ikharo  
Vice Chancellor for General Services

Chancellor:  Date: 12/7/07  
Elihu M. Harris



APPENDIX B  
**Board Meeting Minutes**  
**May 20<sup>th</sup>, 2008**

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Minutes: May 20, 2008

BOARD OF TRUSTEES  
OF THE  
PERALTA COMMUNITY COLLEGE DISTRICT

The Board of Trustees' meetings can be viewed at:  
[http://peraltaccd.granicus.com/ViewPublisher.php?view\\_id=2](http://peraltaccd.granicus.com/ViewPublisher.php?view_id=2)  
Agendas, Minutes and Meeting Materials are also posted here.

Minutes of the Board of Trustees Regular Meeting, May 20, 2008, 5:00 PM, District Administrative Center, 333 E. 8<sup>th</sup> Street, Oakland, California

Present: Trustees González Yuen, Guillén, Handy, Hodge, Riley, Withrow, President  
Gulassa, Student Trustees Hurd and James.

Absent: None

The regular meeting was convened into open session at 5:00 PM by President Gulassa for the purpose of discussing the LAD Tax by the City of Oakland and reporting to the public the topics to be discussed in closed session. The closed session was convened at 5:33 PM by President Gulassa who presided; the closed session adjourned at 7:00 PM; open session re-convened again at 7:08 PM by President Gulassa who presided. The roll was called by the recording secretary.

1. LAD Tax by the City of Oakland

Alton Jelks made a presentation to update the Board on this matter. The funds in question are used to maintain streetlights and parks. When it was first approved years ago, public entities were exempt. The project of maintaining the Channel Park would directly impact Peralta. The Chancellor shared that Peralta is one of the larger land owners in Oakland, and that a no vote from our Board would likely defeat the measure. Collected fees go into categorical funds, but also pay for police, parks, etc. There is a yearly cost of living increase factored into the tax. Vice Chancellor Smith commented that the monies to use to pay for this tax would come from our reserve or general fund, and that the timing would be bad for us to transfer more money to the city, just as the state is reducing our funding.

**MOTION:** A motion was made by Trustee Withrow, seconded by Trustee González Yuen, that the Board vote an affirmative "No" not to support the payment of the lighting assessment.

It was pointed out that the City of Oakland is exempt from paying any of our tax Measure fees. Trustee James suggesting that we take no position on this issue. It was noted that the proposal has no provisions for collecting the fees, and that the Board's position should be of non-response if we don't want to pay. The City also includes citizens of our District, and that the bill might be in their best interest. There was a suggestion to discuss the future litigation consequences that this issue may raise in closed session, but the issue was not on the closed session agenda. It was felt that a duty was owed to the public to discuss this matter in public. There was a concern that the District might be taxed by the other cities that we represent if the Board votes yes on the tax. While the city does need funding, it should be decided by individual homeowners, rather than taxing our District. It's a difficult economic time for everyone, so it's a bad time for this tax to be passed.

**Roll Call Vote:** Trustee Hurd - no; Trustee James - no; Trustee González Yuen - yes; Trustee Guillén - no; Trustee Handy - no; Trustee Hodge - no; Trustee Riley - no; Trustee Withrow - yes; Trustee Gulassa - no. The motion failed.

**MOTION:** Upon a motion made by Trustee Guillén, seconded by Trustee Riley, the Board

Agenda: Board of Trustees Meeting May 20, 2008

voted unanimously to abstain and not to vote on the City lighting assessment.

This part of the open session adjourned at 5:21 p.m., and the Board entered into closed session.

Open session re-convened at 7:08 p.m.

REPORT OF CLOSED SESSION ACTIONS - None

APPROVAL OF THE AGENDA

**ACTION:** Upon a motion by Trustee González Yuen, seconded by Trustee Withrow, the Board voted unanimously to approve the agenda.

2. MINUTES

Speaker Barry Luboviski is from the Alameda County Trades union. The minutes passed at the meeting were from the April 8, 2008 Board meeting.

**ACTION:** Upon a motion by Trustee Guillén, seconded by Trustee Withrow, the Board voted unanimously to approve the minutes of the April 22nd meeting as amended.

RECOGNITION OF OUTGOING STUDENT TRUSTEES

At this time in the meeting, Trustees recognized outgoing Student Trustees Reginald James and Marlene Hurd for their service to Peralta's students, Board of Trustees and community for the last two academic years. The Chancellor and Board members shared how hard they have worked on behalf of Peralta, and thanked them for their service.

ASSOCIATED STUDENT GOVERNMENT REPRESENTATIVES REPORT

Speaker Joseph Johnson, COA Student President, shared his state of the students' association report address with the Board. He shared some of the successes from student government from the past year, including the incorporation of Robert's rules of order into their meeting structure. It was requested that he forward his speech to the Board clerk for inclusion into the minutes. Speaker Ali Nezamabadi, ASBC President, came to bid the Board farewell as his educational path takes him to UC Berkeley.

COMMUNICATIONS FROM MEMBERS OF THE PUBLIC

Mr. Mali Watkins came forward with a plea on behalf of students concerning a retiring adjunct instructor who has been very dedicated to his students during his tenure, and whose departure will leave a large void. It was posed if he could return to teach for a limited amount of time, as his contributions make a huge difference in the lives of his students.

IDENTIFICATION OF ITEMS TO BE REMOVED FROM THE CONSENT CALENDAR FOR DEBATE - None

IDENTIFICATION OF ITEMS TO REMAIN ON THE CONSENT CALENDAR AND PULLED FOR DISCUSSION - Items 10 (CIPD Report), 11 (Juarez Consultants' contract), 14 (AC Transit bus pass), 21 (Energy conservation contract), 31 (Beginner's Inn change orders).

REPORTS AND PRESENTATIONS

3. Annual Financial Report **Presenter: Vice Chancellor Smith and Heidi White, Vavrinek, Trine, Day & Co., LLP**

Agenda: Board of Trustees Meeting May 20, 2008

**MOTION:** A motion was made by Trustee Withrow, seconded by Trustee Guillén, that the Chancellor be requested to provide an action plan, including goals and a timeline, to address the material weaknesses identified in this audit report.

The Annual Financial report was presented to the Board. Trustee Yuen felt it's bad precedent to act on items that are not listed on the consent calendar. Trustee Withrow doesn't just want to accept the report, but wants an action plan to follow-up on the reported deficiencies. The auditor explained that a significant deficiency is one which the problem cannot be corrected in a timely manner, with the highest level being so severe that the system won't even recognize the problem to allow for a correction.

At this time, the second to the motion was withdrawn so that the matter can be discussed further at the Audit and Finance meeting. The Chancellor will follow-up with the Board on this report.

4. College Program of Distinction **Presenter: Vice Chancellor Yee**

A presentation was made about the Oakland Partnership industry clusters, workforce development, PG&E project, power pathway program, and the District's Grant programs, with a question and answer period following. One can earn \$50,000-\$70,000/year to start as linemen, and the wages increase from there. The Trustees feel this is a powerful message. The first cohort graduation class will occur on June 24<sup>th</sup>. As this program expands, career pathways into green technologies will be explored. These programs cumulatively spread a large net in which to catch a large group of potential students. There is also a summer youth program linking physics to sustainability issues. College for Kids at COA was a great program in the past, encouraging more students to study at Peralta. Students are very excited about the potential jobs at PG&E, and there are hopes that this program will go Districtwide.

5. Report on Project Labor Agreement Negotiations Update **Presenters: Vice Chancellor Ikharo and Jake Sloan, Davillier & Sloan** This report will be postponed until the next Board meeting.

6. Report on Security, Safety and Increase to Bail Schedule for Parking Violations **Presenter: Lieutenant Erik Gulseth and Vice Chancellor Ikharo**

A new bail schedule for parking violations has been adopted by Alameda County and will be in effect for the District. Included with Board members' materials is a spreadsheet of the new fine amounts compared with the prior charges for the County of Alameda and Peralta violations. All revenue from parking violation fees is deposited in the District Parking Fund account. A mass communication warning system is being developed by the technology department, using e-mail and voicemail features. There is also a feasibility study being conducted about possible security cameras in our parking lots and campuses. COA had an active shooter response training. The cameras being considered will be a variety of different devices depending upon the area they will cover, with some hard-wired, and others using wireless technology. Someone can view these monitors in the Sheriff's office in real time, as well as the information being recorded for future viewing. The purchasing department is working on acquiring new parking meter equipment so that people can reliably receive their parking stubs, and this is anticipated by the end of the August. Safety brochures are distributed to students, and the sheriffs frequently speak to the students about safety. International students also receive a safety orientation. The Trustees would routinely like a presentation on safety and to see the information that is given to students. Best practices were asked for to see what security measures are working on other colleges and communities. The District will be receiving the best possible and most appropriate technology for our needs. It would be nice to have IDs on campus, for students, visitor workers, faculty, and staff. Student IDs will exist by the Fall, with a separate photo ID if there is a bus pass program. IDs will cut down on people falsely stating their purpose for being in an area, or assuming the identity of others. It's important to maintain a balance of security and personal privacy. A text message system would also be helpful to reach students in an emergency. The Board also requests that an annual presentation occur with

Agenda: Board of Trustees Meeting May 20, 2008  
Peralta's crime statistics.

7. Report on Bond Program Personnel Management **Presenter: Vice Chancellor Ikharo**

Vice Chancellor Ikharo presented a report on personnel requirements to manage an in-house Measure A bond program, followed by a question and answer period. Additional in-house staffing is needed to meet current deadlines and to save the District funding to implement the bond program. The Board took this matter under advisement, and agreed that we need greater in-house control over our bond projects. The design-build model will be used to build projects on time and on budget. This issue will be placed on a future Board agenda for action.

8. Report on New Science Facility, Merritt College **Presenter: Vice Chancellor Ikharo and Merritt College President Adams**

Vice Chancellor Ikharo discussed possible options for the science facility at Merritt College, which include renovations to existing Building D (the current location) or construction of a new building. This item previously went to the Board facilities committee for review. Professor Ray Chamberlain spoke to the proposed building. Projected costs on a new building would be greater per square foot because of special community college needs, as well as increased projected costs due to energy, gas, and materials over the life of the project. A question was asked as to how building D fits into the facilities master plan. Enterprise opportunities and programs of partnership are being considered as future uses for the proposed building, as many requests have come from community partnerships have until now been declined. A college emeritus is another possibility for this space.

9. Report on the PASSPORT system **Presenter: PASSPORT representatives**

The Board Student Services' Committee requested a report on some of the problems experienced with the PASSPORT system. Jeff Heyman reported that the pathway to enrollment is making it easier for students to enroll, and that we are up 18% in FTES due to PASSPORT. Trustee Guillén reported that there has been frustration as well from PASSPORT users. There was concern about when in the enrollment process the satisfaction survey is taken, and some students may not have even been able to get through with enrollment process to arrive at the survey. CC apply is a lengthy application process, but it does give Peralta more information about our students. The problem issue with the listed phone numbers has been changed now in the system, and the help e-mail address is now being monitored constantly to ensure a timely response. There was a suggestion that people use the system and try to enroll, to see what our students are going through, and to offer feedback. Some other changes have occurred to make it more user friendly. When feedback has been provided, changes have tried to be incorporated. The voter registration portion will be reviewed. Concern was voiced about the lack of a paper or phone transition option. No one was using the phone option, so it ended. If people can't apply online, they can visit a welcome center to enroll. Peralta was advised from other colleges not to provide too many options as we push people into this system. This issue has been on the student services committee agenda, but no one has appeared at meetings to address the committee's questions. There was a problem that there was no administrator available to staff this meeting, and this will be corrected in the future. It is a problem that some students don't have an e-mail address to use PASSPORT, and there is a wide digital divide in our society. It would be helpful for the Trustees to view any zip code reports to see the demographics of enrollment. There was a concern if students don't supply their social security numbers that they won't be eligible to receive financial aid or a 1098 form.

**ACTION:** Upon a motion by Trustee González Yuen, seconded by Trustee Guillén, the Board voted unanimously to extend the meeting time by 20 minutes.

All four College President's have suggested that a paper option be made available. Vice Chancellor Smith shared that there is a paper option available at a welcome center, where student ambassadors and staff will help people to enroll. College presidents are working to ensure that students receive the best enrollment

Agenda: Board of Trustees Meeting May 20, 2008

process possible. It was suggested that high school students register online at their high schools, and not flood the welcome centers. It is suggested that this issue go back to the student services committee for further discussion.

### **CONSENT/CALENDAR (FOR ACTON)**

10. Consider Approval of Program and Course Additions, Deactivations and Changes, and Report from the Academic Senate **Presenter: DAS President Bielanski**

Included for approval are proposed course and program adjustments as recommended by the Council for Instruction, Planning and Development (CIPD). The packet entitled "Curriculum and Instruction Recommendations - May 2008" contains curriculum items approved by the college curriculum committees and CIPD in May 2008. Recent changes to Title 5 now require board approval of a course prior to its being scheduled. To facilitate course and program development, curriculum materials will be submitted monthly or on an as need basis. The Chancellor recommends approval.

11. Consider Approval of Contract Extension for Juarez Consultants **Presenter: Chancellor Harris**

Consider approval of contract extension for Jose R. Juarez of Juarez Consultants for payment for the months of April, May, and June 2008 related to his scope of work attached. An original independent contract was executed for \$25,000 in October 2007. Additional hours were needed for the scope of work which brings the contract amount over \$25,000. Thus, this is being brought to the Board at this time. The amount requested shall not exceed \$9,000.

12. Consider Approval of Contract Extension with Paul Downs **Presenter General Counsel/Districtwide Strategic Planning Manager Nguyen**

Mr. Paul Downs has started his own consulting firm (Paul Downs Consulting – PDC). PDC is operating under the Chancellor's authority for independent contracting (\$25,000). The Board is requested to extend the contract by no more than \$63,800, with a total not to exceed of \$88,000 ending June 30, 2009. The Chancellor recommends approval.

13. Consider Approval of Contract Extension with MS Environmental Solutions, Inc. **Presenter: Director of Risk Management Baldinelli**

Approval is sought for a contract extension with MS Environmental Solutions, Inc. to increase the amount of the current contract by \$25,000 and to extend the contract date to end on September 30, 2008. MS Environmental Solutions, Inc. (MSES) provides hazardous waste removal from the college campuses and District maintenance facilities. The current contract with MSES ends on June 30, 2008, for a total contract amount not to exceed \$125,000. This contract amendment will bring to total contract amount to \$150,000 for hazardous waste services provided from 11/15/06-9/30/08. The Office of General Services is preparing bid specifications for the selection of a hazardous waste disposal vendor for Fiscal Years '09 and '10. In the meantime, an increase in the contract amount and end date is needed to provide ongoing hazardous waste removal as required by environmental regulations and emergency removals until a vendor is selected and a new contract is awarded. In addition to providing routine hazardous waste disposal services, in July 2007 the District requested that MSES provide specialized services to manage the safe movement and storage of chemicals while the Laney College Chemistry and Biology science labs were under renovation. The cost of this project, which was not included in the original scope or amount of the MSES contract, eroded the contract amount needed for routine hazardous waste disposal services. The Chancellor recommends approval.

14. Consider Approval of Implementing a Pilot Bus Pass program with AC Transit Authority

Agenda: Board of Trustees Meeting May 20, 2008

**Presenter: Dr. George Herring**

Consider authorizing the Chancellor to allocate \$500,000 per year for the 2008-2009 academic year to implement a pilot Bus Pass program with AC Transit authority, starting Fall Semester 2008. Through this program, all full-time students would be eligible to purchase a dramatically discounted Trans-Bay bus pass from AC Transit. This would be a pilot program. By May 1, 2009, a student election would be held to determine if a second year of the pilot program would be offered. The core group of students is composed of both student Trustees, the ASB Presidents of the College of Alameda and other students from Merritt College, Berkeley City College, and Laney College. A survey administered to 3000 students with a 14% returned rate indicated that 84% would be interested in a Peralta/AC Transit supported Bus Pass. The pilot program would be for fulltime students attending Peralta Colleges. In Spring semester 2008, over 8000 students were enrolled. This purpose will have a one-tiered price structure. The price would be \$50.00 per semester. Students enrolling in the Spring semester would automatically receive a pass good for the summer sessions. Current cost for PCCD students using AC Transit:

Duration of Ticket	Ride Type	Cost
1 trip	Adult single ride cash fare	\$1.75 (plus 25 cents for transfer)
31-Day Ticket	Trans-Bay Pass	\$116.00
31-Day Ticket	Local Adult	\$70.00
	Local Youth Under 17	\$15.00
	EOPS students (Merritt, Laney, and College of Alameda)	Discounted, but less than \$35 per semester

It is estimated that at least 2,000 would participate in the pilot program. This number is a conservative number. Source of Funding: Parking revenues, and/or parking escrow mitigation funds. No general fund monies will be expended. The Chancellor recommends approval.

15. Consider Request for Authorization to Apply for Special Funding with the U.S. Department of Education’s Strengthening Institutions Program (SIP) and Peralta Community College District.

**Presenter: Vice Chancellor Yee and Dean Linda Berry**

Merritt College is requesting authorization from the Peralta Board of Trustees to submit an application for a Title III Comprehensive Development Grant from the Department of Education. The deadline was announced Tuesday, April 22, 2008 and the submission date is May 22, 2008. If funded, the Title III grant would provide \$1.5 million over five years to help develop a comprehensive plan to integrate the college’s academic programs and student support services. The ultimate goal is to significantly improve the student academic performance indicators in retention, persistence, successful course completion, and transfer by strengthening pathways, systems, and services to support student success. The purpose of the project, entitled *Strengthening Pathways, Systems, and Services to Maximize Student Success*, is to significantly improve student performance rates at Merritt, particularly for at-risk students, through greater integration of academic programs and student support services. After three years of investigation, informed by the Title III Planning Grant process, the Equity for All Project Scorecard Project, the district’s and college’s Educational Master Planning processes, Accreditation Self-Study, 2008 Internal and External Scan Reports, and other college planning initiatives, the Merritt Title III team concluded that the greatest single problem facing Merritt is that its student academic performance measures are lower-than-average or declining—particularly for specific subsets of the student population. The analysis of this problem led to the identification of three significant problems: 1) unacceptable student success rates (e.g. retention, persistence, successful course completion, and transfer rates), particularly in both basic skills and general education courses; 2) lack of shared philosophy and consistency in instructional strategies for a diverse and under-prepared student body; 3) delivery systems for support services to students are not sufficient to produce positive student outcomes. This grant would significantly help in these areas of concern. Funding Source: U.S. Department of Education. The

Agenda: Board of Trustees Meeting May 20, 2008  
Chancellor recommends approval.

16. Consider Request for Authorization to apply for funding with the California Community College State Chancellor's Office, Career Technical Education – Teacher Preparation Pipeline (CTE-TTP)  
**Presenter: Vice Chancellor Yee**

Fund would help to address the anticipated shortage of secondary and community college Career Technical Education (CTE) teachers. Grant recipients, in conjunction with high schools and baccalaureate-granting institutions, will identify, recruit, enroll, and retain students in courses designed to provide a pathway leading to a teaching career in one of today's CTE fields. Approval is requested to enter into a grant agreement contract with the State Chancellor's Office in an amount not to exceed \$225,000. Fiscal impact: None. Fiscal Source: Grant from the California Community College State Chancellor's Office. The Chancellor recommends approval.

17. Approval to Enter into Agreement for Project Management/Construction Management Services for Phase II of the Short-Term Projects, Laney College, Consolidated CM, Inc. **Presenter: Vice Chancellor Ikharo**

Approval is requested for the Chancellor to enter into an agreement with Consolidated CM, Inc. to perform project management and construction management services for Phase II of the Short-Term Projects at Laney College, at a not-to-exceed fee of \$381,469. The term of the agreement is from April 2008 through December 2008. Consolidated CM, Inc. is located in Oakland and was one of the short-listed firms for project management services approved by the Board in December 2007. They will replace 1701 Associates, Inc. as project/construction managers for the Laney Short-Term Projects. Funding Source: Measure A, as approved by the voters in Peralta's constituency and authorized under Resolution 05/06-45, Exhibit A-1, Laney College, "Classroom and facilities repairs and grounds improvements." The Chancellor recommends approval.

18. Approval of Amendment to Contract for Architectural Services with Powell & Partners Architects for the Laney College Portable Buildings **Presenter: Vice Chancellor Ikharo**

Approval is requested for an amendment to the independent contract for architectural services performed by Powell & Partners Architects for seven classroom portable buildings and one restroom portable building at Laney College. The portable buildings will serve as interim housing during construction for the Beginner's Inn renovation project and various Short-Term Construction Projects at Laney College. The contract amount to date is \$70,318. An additional fee of \$11,000 (\$10,000 plus an allowance for reimbursable expenses in the amount of \$1,000) is requested for work which was not part of the basic contract services. The additional scope of work includes:

1. Provide documents for a layout of future offices for the portable buildings.
2. Provide coordination with a design/build contractor for the telecommunications raceway design and provide sets of mechanical and electrical documents for the network/telephone room needed for the portable buildings.
3. Administer the work of the electrical consultant.
4. Two meetings at the site for verification of scope of telecommunications.

This will bring their contract to a total of \$81,318. Board approval is required because the total contract exceeds the bid threshold. Funding Source: Measure A, as approved by the voters in Peralta's constituency and authorized under Resolution 05/06-45, Exhibit A-1, Laney College "Classroom and facilities repairs and grounds improvements" and "Equipment, technology upgrades, and facility and classroom improvements for the college's following programs: Biology, Business, Chemistry, CIS, Culinary Arts, Dance, Environmental Control Technology, Foreign Languages, Geography, Math, Theater Arts, and Welding." The Chancellor recommends approval.

19. Approval to Enter into Agreement for Design Management Services with Pinnacle One **Presenter: Vice Chancellor Ikharo**

Approval is requested for the Chancellor to enter into an Agreement for Design Management Services with Pinnacle One, at a fee of \$124,800. Under the agreement, Pinnacle One will provide a full-time design manager for a period of six months. The design manager will manage the new and renovation construction design process, working with architects to make certain that design and construction documents for high quality, efficiently designed projects are completed on schedule and within budget. The design manager will ensure that all submitted design and construction documents effectively and efficiently utilize established guidelines and standards for quality assurance, ADA compliant, within the constraints of each project budget. The administration intends to bring these services in-house to reduce the cost of design management services. Therefore, these services with Pinnacle One are temporary pending the approval and hiring of an in-house staff design manager. Pinnacle One is one of the short listed project management firms approved by the Board in December 2007. As provider of Design Management services for the Peralta Community College District, Pinnacle One – Arcadis will develop new design standards and guidelines which will integrate the principles and performance criteria of the nationally recognized “Leadership in Energy and Environmental Design” (LEED). The intention of the standards is to achieve, at minimum, Silver Certification for new construction projects, in compliance with the Board’s new sustainability policy. The level of certification which can be achieved will be a function of budgetary constraints. It is also our intent to promote integrated, whole building, “green” design practices for existing buildings, keeping the District’s budget in mind. Funding Source: Measure A, as approved by the voters in Peralta’s constituency and authorized under Resolution 05/06-45, Exhibit A-1, various District-Wide and College projects (The consultant will provide design management services for all Measure A projects.) The Chancellor recommends approval.

20. Approval to Enter into Agreement for Architectural Services with Byrens Associates for Merritt College Short-Term Project: Building Q Improvements **Presenter: Vice Chancellor Ikharo**

Approval is requested for the Chancellor to enter into an agreement for architectural services related to the Renovations to Building Q (administration and business services) at Merritt College, in the amount of \$72,000. This is an approved Short-Term project for Merritt College. The project will correct ventilation issues, increase natural lighting, and increase energy efficiency for the building. Byrens Associates was selected from the previously Board approved short list of architects. Funding Source: Measure A, as approved by the voters in Peralta’s constituency and authorized under Resolution 05/06-45, Exhibit A-1, Merritt College “Plumbing, electrical, mechanical system upgrades and improvements.” The Chancellor recommends approval.

21. Approval to Negotiate with Chevron Energy Solutions, or an alternative vendor, for an Energy Conservation and Renewable Energy Early Action Program District-Wide **Presenter: Vice Chancellor Ikharo**

The administration requests authorization to negotiate a partnership agreement with Chevron Energy Solutions, or an alternative vendor, to design, finance and implement an early action program to reduce energy usage district-wide and install renewable energy. These measures are the priority projects within a long-term partnership and multi-phased Energy and Sustainability Implementation program delivering energy efficiency retrofits, renewable energy and infrastructure upgrades District-Wide. Early Action program includes:

- 1.2 – 5 MW of solar PV at Merritt College on the hillside and solar parking canopies in lot B and C, and on Districtwide campuses;

Agenda: Board of Trustees Meeting May 20, 2008

- Reducing HVAC equipment run-time for all sites through schedule changes;
- Retrocommissioning (RCx) of Laney Art Building HVAC, Laney Central Plant, Merritt Central Plant, Berkeley City College complete facility;
- Boiler replacement at College of Alameda in 2008;
- Submetering of electrical, gas and water usage by building; and
- Assistance in the creation of a solar laboratory to prepare students for green jobs in the emerging green economy at Laney and Merritt Campuses;
- Use of Local companies for PV installation.

Pursuant to Board Policy 2.40 Environmental Sustainability goal to reduce the District's current greenhouse gas emissions (GHG) caused by energy consumption by 50% within five years; the Early Action Program is expected to reduce the District's GHG by 14% from 2007 levels. Stakeholder groups on each of the campuses have been and are continuing to be consulted regularly in the process to ensure consideration of all possible concerns and contingencies, including allocation of program savings into educational programs and operational needs. This project has the potential to save the District millions of dollars in energy costs over 25 years. Implementation will be presented to the Board at the meeting. Funding Source: Measure A or third party financing. The Chancellor recommends approval.

22. Resolution 07/08-52 in Support of the East Bay Green Corridors Initiative **Presenter: Vice Chancellor Ikharo**

It is requested that the Board adopt a resolution in support of the East Bay Green Corridors Initiative. The City of Berkeley, on behalf of the four cities—Berkeley, Oakland, Richmond and Emeryville—is pursuing a Congressional earmark in the amount of \$3.4 million to coordinate regional job development and placement, develop education and training curriculum, and conduct business outreach and recruitment that will ultimately lead to a trained, educated workforce and a greater potential to attract green employers to the region. It is expected that the Peralta Community College District will be an integral player in the workforce development component of this project. The Chancellor recommends approval.

23. Resolution 07/08-48, Accept Bid and Award Contract, Berkeley City College Atrium Window Stop Correction/Replacement, Bid No. 07-08/38, Pinguelo Construction, Inc. **Presenter: Vice Chancellor Ikharo**

This project consists of removal and replacement of the existing atrium window stops at approximately 39 windows with new custom made steel "U" channels so that the proper amount of coverage on the glazing can be achieved. This is a DSA requirement and addresses a life-safety issue. The work areas will be secured from student access during the repairs. This work will start on June 2, 2008 and will be completed on June 9, 2008. This work is a correction of the S.J. Amoroso's construction work defects and this cost will be taken into account as part of the on-going negotiation to close this project. A formal bid was conducted for this project (07-08/38), and a bid opening was held on April 25, 2008. Two bids were received, as follows:

CONTRACTOR	LOCATION	TOTAL BID
Pinguelo Construction, Inc.	Fairfield, CA	\$91,350
Best Contracting Services, Inc.	Hayward, CA	\$97,500

The lowest responsible and responsive bid was submitted by Pinguelo Construction, Inc., in the amount of

Agenda: Board of Trustees Meeting May 20, 2008

\$91,350. This resolution formally accepts the bid and authorizes the contract award to Pinguelo Construction, Inc. for the Berkeley City College Atrium Window Stop Correction/Replacement. Funding Source: Measure A, as approved by the voters in Peralta’s constituency and authorized under Resolution 05/06-45, Exhibit A-1, Berkeley City College “Campus security and safety.” The Chancellor recommends approval.

24. Resolution 07/08-49, Accept Bid and Award Contract, College of Alameda Waterproofing Deck Project, Bid No. 07-08/39, Alpha Restoration & Waterproofing **Presenter: Vice Chancellor Ikharo**

This project consists of waterproofing, repairs to concrete spalling, and painting of the second and third level decks in front of Buildings C and D at the College of Alameda. This project is one of the College of Alameda’s Short-Term Projects, funded by Measure A. A formal bid was conducted for this project (07-08/39), and a bid opening was held on April 29, 2008. Four bids were received, as follows:

<b>CONTRACTOR</b>	<b>LOCATION</b>	<b>TOTAL BID</b>
Alpha Restoration & Waterproofing	South San Francisco, CA	\$271,680
Ashron Construction and Restoration, Inc.	Mountain View, CA	\$274,050
Best Incorporated	Hayward, CA	\$350,515
IMR Contractor Corp.	San Francisco, CA	\$401,800

The lowest responsible and responsive bid was submitted by Alpha Restoration & Waterproofing, in the amount of \$271,680. This resolution formally accepts the bid and authorizes the contract award to Alpha Restoration & Waterproofing for the College of Alameda Waterproofing Deck Project. Funding Source: Measure A, as approved by the voters in Peralta’s constituency and authorized under Resolution 05/06-45, Exhibit A-1, College of Alameda “Remodeling and equipping classrooms and campus facilities.” The project will eliminate leaks causing water damage to instructional areas in Buildings C and D. The Chancellor recommends approval.

25. Resolution 07/08-50, Accept Bid and Award Contract, College of Alameda Phase II Project, Bid No. 07-08/40, Armkea, Inc., dba Hung Construction **Presenter: Vice Chancellor Ikharo**

This project consists of hazmat abatement, railing, flooring, door, and roll-up door replacement, flooring refinishing, dance floor installation, painting, casework, window treatments, and miscellaneous finishes. This project is one of the previously approved College of Alameda’s Phase II Short-Term Projects, funded by Measure A. A formal bid was conducted for this project (07-08/40), and a bid opening was held on April 29, 2008. Five bids were received, as follows:

<b>CONTRACTOR</b>	<b>LOCATION</b>	<b>TOTAL BID</b>
Armkea, Inc., dba Hung Construction	Oakland, CA	\$1,002,800
Bay Construction Co.	Oakland, CA	\$1,041,308
Rodan Builders, Inc.	Belmont, CA	\$1,102,500
Kudsk Construction, Inc.	Berkeley, CA	\$1,317,020
River View Construction, Inc.	Sacramento, CA	\$ 769,700

River View Construction, Inc. formally withdrew their bid due to a bidding error. The lowest responsible and

Agenda: Board of Trustees Meeting May 20, 2008

responsive bid was submitted by Armkea, Inc., dba Hung Construction in the amount of \$1,002,800. This resolution formally accepts the bid and authorizes the contract award to Armkea, Inc., dba Hung Construction for the College of Alameda Phase II Project. Funding Source: Measure A, as approved by the voters in Peralta’s constituency and authorized under Resolution 05/06-45, Exhibit A-1, College of Alameda “Remodeling and equipping classrooms and campus facilities.” The Chancellor recommends approval.

26. Consider Approval to Utilize a Piggyback Contract with Strategic Flooring Services for Purchase and Installation of Carpeting at College of Alameda Buildings D, G and C through Peralta Community College District’s Membership in the Educational & Institutional (E&I) Purchasing Cooperative  
**Presenter: Vice Chancellor Ikharo**

Approval is requested to utilize a piggyback contract with Strategic Flooring Services for the purchase and installation of carpeting at College of Alameda, Buildings D, G and C through the District’s membership in the Educational & Institutional (E&I) Purchasing Cooperative. This carpeting is part of the previously Board approved Short-Term Projects for the College of Alameda. Following are the carpeting prices for each area:

D215	\$ 2,601.52
D202 and D203	\$14,587.48
G118	\$11,570.00
C201-207	<u>\$12,346.05</u>
<b>TOTAL</b>	<b>\$41,105.05</b>

Educational & Institutional Purchase Cooperative (E&I) members are able to utilize a competitively bid piggyback contract to enter into a turnkey installation through Strategic Flooring Services for carpeting. Community colleges are allowed to utilize piggyback contracts under Public Contract Code Section 20652. The piggyback contract provides purchase of materials direct from Bentley Prince Street (BPS) at the contract Direct Purchase Price and provides installation services through Hoem & Associates, an independent flooring contractor located in South San Francisco, California. The cost for carpeting and installation is \$41,105.05. BPS is located in California and is one of the greenest carpet mills in the United States, adhering and surpassing California’s strict air quality and factory emission guidelines with regard to manufacturing and adhesives. All of the adhesives used by BPS are CRI Green Label Plus certified and qualify for 1 credit in the LEED certification system. The carpet that has been selected for COA is Cool Carpet. Cool Carpet is an energy offset program, which allows the District to permanently retire tons of GHG (greenhouse gases) by its use. In addition, BPS offers a reclamation program for the existing old carpet and repurposes it or recycles it. By BPS’s recycling program they are able to divert tons of waste from California’s landfills. Hoem & Associates (H & A) will provide local installation within the District’s market area, order tracking and project management services on behalf of Strategic Flooring Services. Funding Source: Measure A, as approved by the voters in Peralta’s constituency and authorized under Resolution 05/06-45, Exhibit A-1, College of Alameda “Remodeling and equipping classrooms and campus facilities.” The Chancellor recommends approval.

27. Accept Proposal from NorCal Moving Services to Provide Moving Services for the College of Alameda Phase II Short-Term Project **Presenter: Vice Chancellor Ikharo**

Approval is requested to accept a proposal from NorCal Moving Services, in the amount of \$11,570.38, to provide moving services for the Phase II Short-Term Project at College of Alameda. The College of Alameda Phase II Short-Term Project scope of work involves hazmat abatement, flooring replacement and refinishing, painting, and other items. Moving services are required in order to move staff and items out of the areas targeted for work. Three quotes were requested and were received as follows:

<b>MOVING SERVICE COMPANY</b>	<b>Total Bid:</b>
NorCal Moving Services	\$ 11,570.38
Cor-O-Van Moving & Storage	\$ 13,331.58

Agenda: Board of Trustees Meeting May 20, 2008

Chipman Relocations	\$ 14,447.13
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NorCal provided the lowest price, and acceptance of their proposal is recommended. Board approval is requested because, including this amount, the cumulative total of purchase orders for this company exceeds the bid threshold. Funding Source: Measure A, as approved by the voters in Peralta's constituency and authorized under Resolution 05/06-45, Exhibit A-1, College of Alameda "Remodeling and equipping classrooms and campus facilities." The Chancellor recommends approval.

28. Approval of Project Budget for Restroom Upgrades in Buildings B, Diesel Mechanics, G and LRC at College of Alameda **Presenter: Vice Chancellor Ikharo**

Approval is requested for a project budget to be funded by Measure A in the amount of \$975,000 for Restroom Upgrades in Buildings B, the Diesel Mechanics, G and the Learning Resources Center (LRC) at the College of Alameda. In review of the restrooms at the College of Alameda, it became apparent that none of the existing restrooms comply with the requirements of the 1990 Americans with Disabilities Act. The restrooms in Building A will be upgraded during the Building A Renovation Project. The restrooms in Buildings C and D are targeted to be renovated to ADA standard during the upcoming renovation project with a State funding contribution. Four of the existing restrooms in Building G will be renovated to ADA standards during the DSA (Division of the State Architect) approved Phase II Short-Term Project. The remaining restrooms in Buildings B, Diesel Mechanics, G and LRC will need ADA upgrades and submission to DSA. Following is the budget for these restrooms:

**BUDGET**

Construction	\$730,000
Consultant Fees	\$ 73,000
Owner's Misc.	\$ 98,000
Built-In Equipment	na
FF&E	\$ 1,000
Contingency	\$ 73,000
Telecommunication/Data	na
<b><u>TOTAL</u></b>	<b><u>\$975,000</u></b>

Funding Source: Measure A, as approved by the voters in Peralta's constituency and authorized under Resolution 05/06-45, Exhibit A-1, College of Alameda "Handicapped accessibility." The Chancellor recommends approval.

29. Approval of Amendment to Agreement for Architectural Services with Gelfand Partners Architects for College of Alameda Short-Term Projects and Restroom Upgrades **Presenter: Vice Chancellor Ikharo**

Approval is requested for an amendment to the Agreement for Architectural Services with Gelfand Partners Architects for College of Alameda Short-Term Projects and Restroom Upgrades, for a fee of \$75,500. Under the amendment the following additional services will be provided:

- Structural calculations as required by the Division of the State Architect for the concrete modifications to the women's locker room and the gym skylight modifications, at a fee of \$25,500.
- Design and DSA submission of the Restroom ADA Upgrade Project in Buildings B, Diesel Mechanics, G and LRC, at a fee of \$50,000.

This will bring their existing contract to a total of \$183,300. Construction is targeted for the summer of 2008. Funding Source: Measure A, as approved by the voters in Peralta's constituency and authorized under Resolution 05/06-45, Exhibit A-1, College of Alameda "Remodeling and equipping classroom and campus facilities," and "Plumbing, electrical, mechanical system upgrades and improvements," and "Handicapped accessibility." The Chancellor recommends approval

30. Approval to Dispose of Surplus Classroom Furniture and Computer Equipment from Laney College **Presenter: Vice Chancellor Ikharo**

Agenda: Board of Trustees Meeting May 20, 2008

Approval is requested to designate old classroom furniture and computer equipment from Laney College as surplus and to authorize the District to dispose of this equipment. The District currently has hundreds of old classroom tablet arm chairs, other chairs, tables, old computer equipment, printers, typewriters, and old audiovisual equipment that was removed from Laney College as part of the various modernization projects. A list of the equipment is provided in backup materials. Upon surplus designation, the District will donate the equipment and furniture to interested local schools, non-profit organizations and churches. Since the equipment does not have salvage value, the District may have to pay to dispose of any remaining equipment. Funding Source: If it is necessary to pay to dispose of any equipment, the cost would be paid from District General Funds. The Chancellor recommends approval.

31. Ratification of Change Orders 1 and 2, Beginner's Inn Culinary Kitchen at Laney College, NBC General Contractors Corporation **Presenter: Vice Chancellor Ikharo**

Ratification is requested for Change Orders 1 and 2 to the contract with NBC General Contractors Corporation for the Beginner's Inn Culinary Kitchen at Laney College. The amount of the change orders is \$141,969.00, which is 2.5% of the original contract amount (\$5,680,000). Further information on the change orders is included in Board backup materials. The contractor was authorized to perform the work so that the schedule would not be delayed and sequencing of the work would not be affected. In accordance with Board Policy 6.83, approval was requested from the Chancellor for the change order work, and the items are now brought before the Board for ratification. Funding Source: Measure A, as approved by the voters in Peralta's constituency and authorized under Resolution 05/06-45, Exhibit A-1, Laney College "Equipment, technology upgrades, and facility and classroom improvements for the college's following programs: Biology, Business, Chemistry, CIS, Culinary Arts, Dance, Environmental Control Technology, Foreign Languages, Geography, Math, Theater Arts, and Welding." The Chancellor recommends approval.

32. Approval to Enter into Agreement for Security Consulting Services, District-wide, The Consulting Group (TCG) to perform security consulting services for the deployment of security cameras Districtwide **Presenter: Vice Chancellor Ikharo**

Approval is requested for the Chancellor to enter into an agreement with The Consulting Group (TCG) to perform Security Consulting Services for the deployment of security cameras, District-wide, at a not-to exceed a fee of \$280,000. The term of the agreement is from May, 2008 through August, 2009. Scope of work will include: preparation of RFP documents for public bidding of the wireless surveillance camera system, District-wide and Construction Management services for surveillance camera system Funding Source: Measure A, as approved by the voters in Peralta's constituency and authorized under Resolution 05/06-45, Exhibit A-1, Laney College, "District-wide safety systems including disaster preparedness, campus security and hazardous and toxic waste handling." The Chancellor recommends approval.

33. Consider Approval of Short-Term Assignments - Hiring of Non-Academic Classified Short-Term Employees on an Emergency Basis

Pursuant to AB500, attached is a report that contains the name, classification, and date of hire, assignment end date, hourly rate, classification, position title, location, background and experience department, and fund source of candidates recommended for short-term assignments in non-academic classified positions. Below are the names and classifications of these candidates. Each candidate's assignment will not exceed the District's established fiscal-year limit of 184 days.

Last Name	First name	Date of Hire	End Date	Position Title	Site
Alexander	Shani	05/23/08	06/30/08	Staff Assist./ Employee Relations ©	D

Agenda: Board of Trustees Meeting May 20, 2008

Carey	Jean	5/23/08	06/30/08	Secretary	Laney
Chen	Sandra	05/23/08	06/30/08	IA/DSPS	BCC
Skinner-Demps	Marcus	05/23/08	06/30/08	Lifeguard Sr. Clerical	L
Tolbert	Cymara	05/22/08	06/30/08	Assistant/HR ©	D

**MOTION:** A motion was made by Trustee González Yuen, seconded by Trustee Guillén, to approve the consent calendar.

#### REPORT FROM THE ACADEMIC SENATE

*Speaking to Item 10, Speaker Bielanski* reviewed of the CIPD report. His presentation notes are attached to the minutes on Granicus.

*Speaking to Item 11, President Gulassa* had a question that he will ask off-line.

*Speaking to Item 14, Dr. Herring* shared that Reginald James and Joseph Johnson spoke in Sacramento on our transportation bill that was passed in the Assembly. It will now continue to the Senate, where it is expected to pass. He has been continually meeting with AC Transit. AC Transit is considering raising fees \$10 on the 31 day pass. Either way, our students would be saving a considerable amount of money. No general funds would be used for this one year pilot program. AC Transit has outlined a schedule for the program to start in fall. The distribution of the bus pass at the four colleges will be our first goal, after the item has passed at the AC Transit board meeting. Ms. Nichelle Ayers was introduced and thanked, as well as AC Transit Director Mr. Chris Peeples. Chancellor Harris has been called into the Governor's office concerning this bill.

*Speaker Weintraub* is glad that the bus pass is coming to Peralta which will be good for our full-time students. She offered a suggestion to expand the program to other students, faculty, staff, as well as a shuttle between our colleges.

Trustee James wanted to thank everyone involved at AC Transit and at the District.

**ACTION:** Upon a motion by Trustee González Yuen, seconded by Trustee Withrow, the Board voted unanimously to extend the meeting time by 5 minutes.

Trustee González Yuen wanted to thank Trustee James for his work on this proposal. He expressed concern about the roll-out of this program, and asked Dr. Herring to report back to the Student Services committee on the roll-out timeline and benchmarks on a monthly basis.

*Speaking to Item 21, Trustee James* pointed out the agenda states that the vendor would be either Chevron or an alternative vendor, and thus he removes his objection to this item.

*Speaking to Item 31 Trustee González Yuen* was concerned that there was no supporting documentation with this change order, and he asks that more detail be provided in the future.

**ACTION:** The Board unanimously voted to approve the Consent Calendar, including Items 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, and 33.

#### INFORMATIONAL ITEMS AND ORAL REPORTS

Agenda: Board of Trustees Meeting May 20, 2008

*CHANCELLOR*

Chancellor's Report      No report

Colleges' Reports

President Adams commented how happy he's been serving at Merritt College on his one year anniversary here, and how Peralta pulls together as a team for the common good.

President Chong congratulated Dr. Adams on his one year anniversary, and shared what a pleasure it is to also have President Inclan on our team.

President Cervantes mentioned the upcoming graduation, award ceremony, and end of year activity.

President Inclan feels privileged to be part of this strong team that always places the needs of students first.

*COMMENTS FROM THE BOARD OF TRUSTEES*

34.      Consider Draft Board Meeting Calendar, Fall 2008

A draft Board meeting calendar for Fall 2008 (July – December) was presented for Trustee consideration. The calendar will be agendized at the next Board meeting for approval.

Trustee Hodge congratulated to all of the graduates, and shared her regrets on not being able to attend the graduations.

Trustee González Yuen praised our outgoing Student Trustees, and shared how important their input and contributions have been.

Trustee Hurd congratulated all of the new student officers coming into the associated government.

Trustee Guillén congratulated COA. He served on an outside scholarship selection committee, and was impressed by a COA student's remarks about how helpful staff and faculty were in the lives of our students. He thanked all of the students who came forward to the Board to speak in support of the AC Transit bus pass program.

Trustee James reflected on the role of the student trustees on the Board, and that he and Trustee Hurd would like to make formal recommendations to the Board about the Board's relationship to the student body.

**ADJOURNMENT: Time: 10:33 p.m.**

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**Elihu M. Harris, Chancellor  
Secretary of the Board of Trustees  
PERALTA COMMUNITY COLLEGE DISTRICT**



# APPENDIX C

# **Equipment Performance**

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### Characteristics of a PV module

Manufacturer, Model : **Suntech, STP 200-18/Ub**  
 Availability : from 2005 to 2079  
 Data source : Photon Mag. 2008  
 File : Suntech\_STP200\_18Ub.PAN of 01/09/08 03h00

<b>STC power (manufacturer)</b>	<b>PNom</b>	<b>200 Wc</b>	<b>Technology</b>	<b>Si-poly</b>
Module size (W x L)	0.992 x 1.482	m <sup>2</sup>	Rough module area	Amodule 1.47 m <sup>2</sup>
Number of cells	1 x 54		Sensitive (cells) area	Acells N/A m <sup>2</sup>

**Specifications for the model (manufacturer or measurement data)**

Temperature reference cond.	Tref	25 °C	Irradiation reference	Gref	1000 W/m <sup>2</sup>
Open circuit voltage	Voc	33.4 V	Short circuit current	Isc	8.12 A
Maximum power point voltage	Vmpp	26.2 V	Max. power point current	Impp	7.63 A
=> maximum power	Pmpp	199.9 W	Isc temperature coefficient	mu ISC	4.1 mA/°C

**One-diode model parameters**

Shunt resistance	Rsh	250 ohm	Saturation current at 20°C	Io	143 nA
Series resistance	Rs	0.20 ohm	Voc temp. coefficient	muVoc	-109 mV/°C
			Diode quality factor	Gamma	1.35

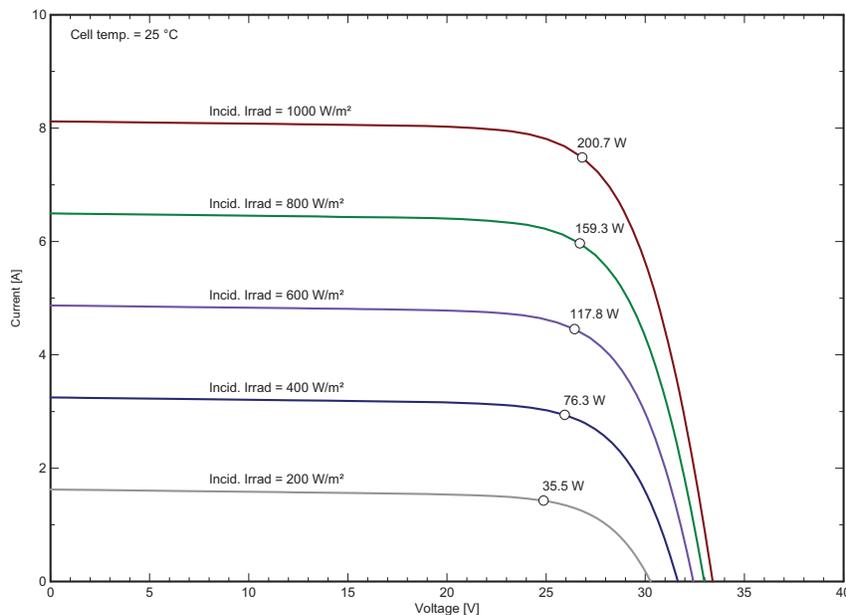
**Reverse bias parameters, for use in behaviour of PV arrays under partial shadings or mismatch**

Reverse characteristics (darkness)	Brev	3.20 mA/V <sup>2</sup>	(quadratic factor, per cell)		
Number of by-pass diodes per module		3	By-pass diode reverse voltage	Vrev	-0.7 V

**Model results for standard conditions (STC: T=25°C, G=1000 W/m<sup>2</sup>, AM=1.5)**

Maximum power point voltage	Vmpp	26.8 V	Maximum power point current	Impp	7.48 A
Maximum power	Pmpp	200.7 Wc	Power temper. coefficient	muPmpp	-0.41 %/°C
Efficiency ( / module area )	Eff_mod	13.7 %	Fill factor	FF	0.740
Efficiency ( / cells area )	Eff_cells	N/A %			

PV module : Suntech, STP 200-18/Ub



### Parameters for a geographical site

**Geographical Site** **San Francisco** **Country USA**

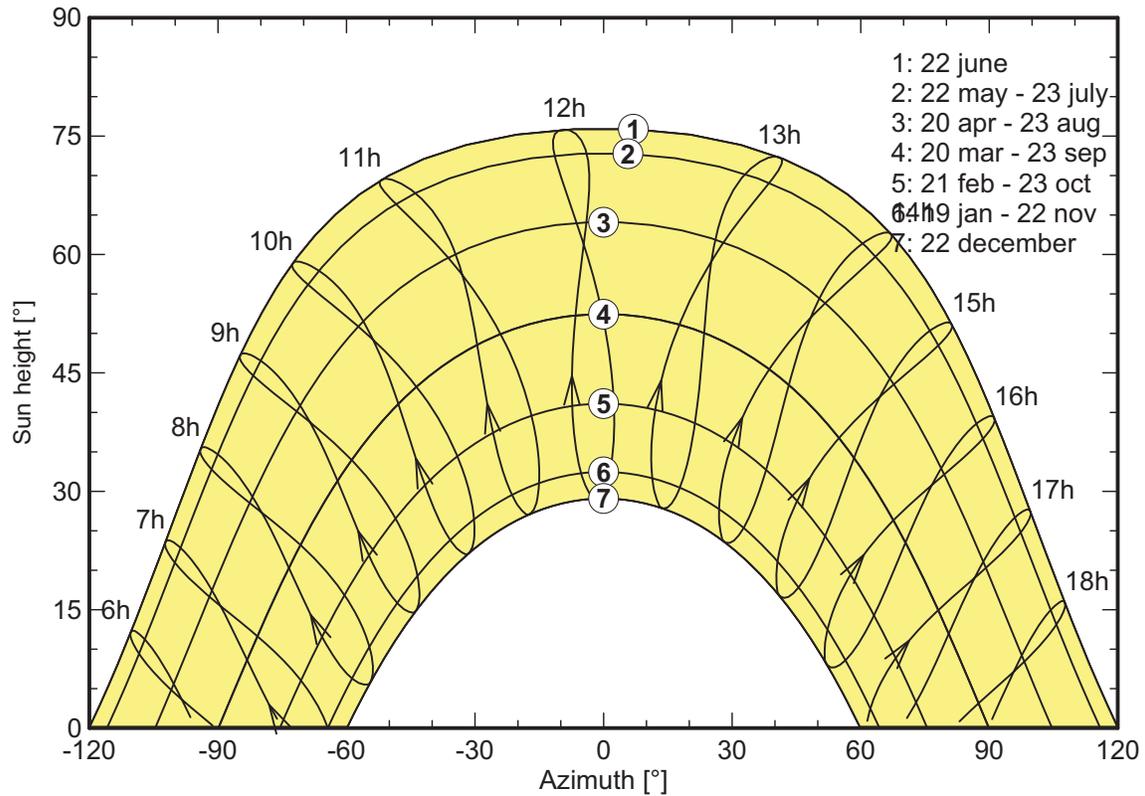
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**Situation** Latitude 37.5°N Longitude 122.1°W  
 Time defined as Legal Time Time zone UT+8 Altitude 5 m

**Monthly Meteo Values** Source Meteonorm '97

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year	
Hor. global	67.0	83.0	132.0	170.0	208.0	215.0	228.0	202.0	161.0	121.0	75.0	61.0	1723.0	kWh/m <sup>2</sup> .mth
Hor. diffuse	31.0	37.0	51.0	58.0	64.0	63.0	59.0	56.0	46.0	40.0	32.0	28.0	565.0	kWh/m <sup>2</sup> .mth
Extraterrestrial	145.8	173.6	247.5	294.9	343.2	347.4	351.9	321.3	261.8	211.7	153.4	132.4	2984.8	kWh/m <sup>2</sup> .mth
Clearness Index	0.460	0.478	0.533	0.576	0.606	0.619	0.648	0.629	0.615	0.571	0.489	0.461	0.577	
Amb. temper.	9.1	10.9	11.5	12.5	13.7	15.3	16.1	16.5	16.8	15.3	12.4	9.4	13.3	°C
Wind velocity	3.3	4.0	4.8	5.5	6.2	6.2	6.2	5.7	5.0	4.3	3.7	3.5	4.9	m/s

**Solar paths at San Francisco, (Lat. 37.5°N, long. 122.1°W, alt. 5 m)**



## Characteristics of a grid inverter

Manufacturer, Model : **Satcon, PowerGate Plus PVS-375**

Availability : from 2008 to 2079

Data source : Photon Mag. 2008

File : Satcon\_Plus\_PVS\_375.OND of 01/07/08 03h00

### Input characteristics (PV array side)

Operating mode		MPPT			
<b>Minimum operation voltage</b>	<b>Vmin</b>	<b>305 V</b>	Nominal PV power	Pnom DC	N/A kW
<b>Maximum operation voltage</b>	<b>Vmax</b>	<b>600 V</b>	Maximum PV power	Pmax DC	N/A kW
Maximum PV array voltage	Vmax array	600 V	Maximum PV current	Imax DC	N/A A
Minimum voltage for Pnom	Vmin PNom	N/A V	Input Power Threshold	Pthresh.	3750 W
Behaviour at Vmin and Vmax		Limitation	Behaviour at PNom		Limitation

### Output characteristics (AC voltage side)

Grid voltage	Unom	480 V	<b>Nominal AC output power</b>	<b>Pnom AC</b>	<b>375 kWac</b>
Grid frequency	Freq	60 Hz	Maximum AC output power	Pmax AC	375 kWac
	Triphased		Nominal AC output current	Inom AC	260 A
<b>Efficiency</b>	Max Eff.	97.0 %	Maximum AC output current	Imax AC	N/A A
European average efficiency	Euro Eff.	95.5 %			

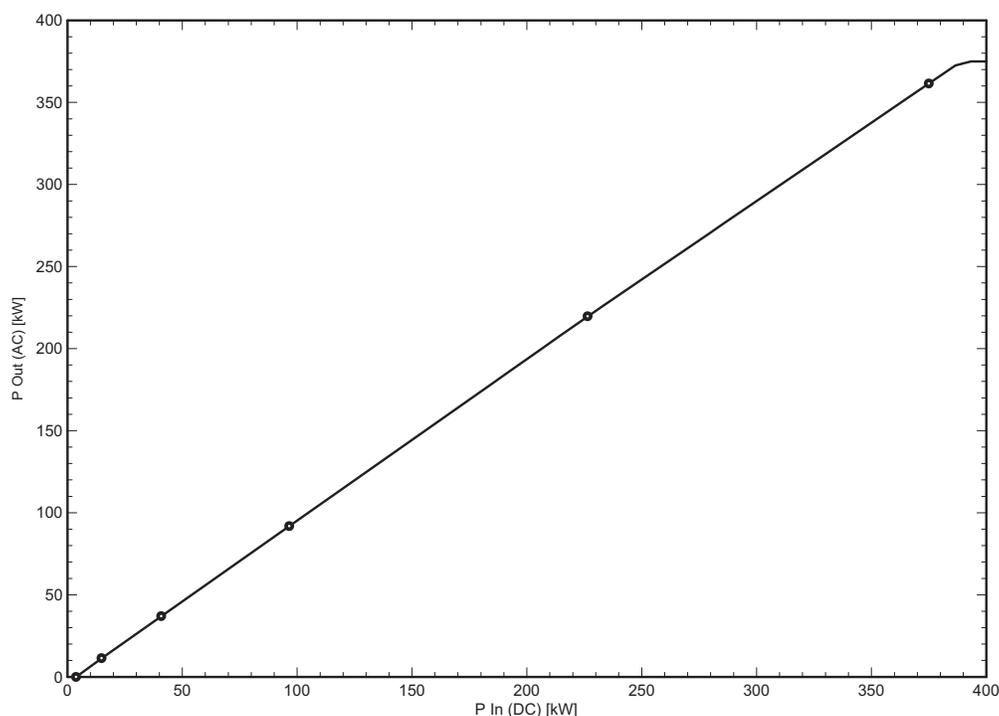
### Remarks and Technical Features

Technology: LF transfo, IGBT

Protection: IP24, IP54, N\*3R

Control: LCD 4x20 char.

### I / O diagram





# APPENDIX D

# **Equipment Specifications**

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# STP200-18/Ub-1

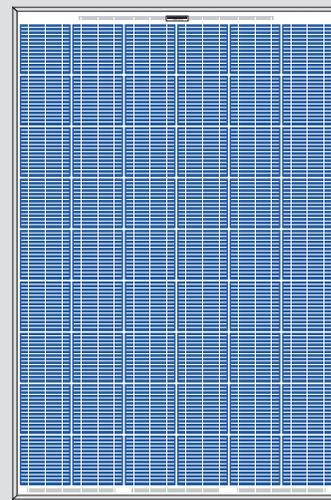
**STP190-18/Ub-1**  
**STP210-18/Ub-1**

Suntech's STP/Ub-1 is designed and built to deliver high efficiency and reliable power for on-grid residential and commercial systems worldwide. Relying on Suntech's renowned stringent manufacturing standards and latest PV technology, the module provides the highest possible energy output per Watt with a total module efficiency of 13.6%. A superior conversion rate and exceptional low-light performance enable it to deal with the most challenging conditions of military, utility, residential and commercial installations. The module is the perfect choice for those who demand outstanding performance and exceptional uniform appearance.

## Features and benefits

- High efficiency
- Nominal 18 V DC for standard output
- Outstanding low-light performance
- High transparent low-iron, tempered glass
- Unique techniques give the panel the following features: aesthetic appearance, high wind-pressure and snow load tolerance, and easy installation
- Unique technology ensures that water freezing and warping do not occur
- Designed to meet the unique demands of customers
- 25 year transferable power output warranty
- Class C fire rating
- UL listings: UL1703, cULus
- ISO 9001: 2001 and ISO14000 certified facilities

## High Efficiency, High Quality PV Module

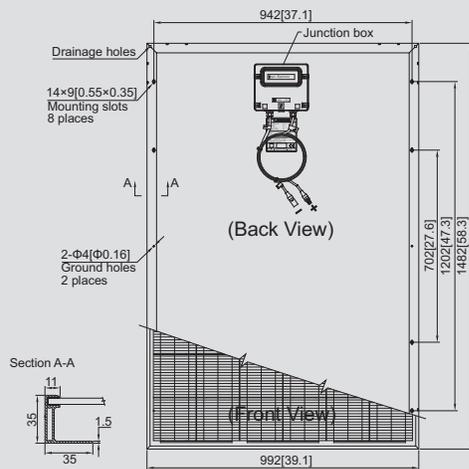


## Electrical Characteristics

Model	STP210-18/Ub-1	STP200-18/Ub-1	STP190-18/Ub-1
Open-circuit voltage (Voc)	33.6V	33.4V	33V
Optimum operating voltage (Vmp)	26.4V	26.2V	26V
Short-circuit current (Isc)	8.33A	8.12A	7.89A
Optimum operating current (Imp)	7.95A	7.63A	7.31A
Maximum power at STC (Pmax)	210Wp	200Wp	190Wp
Operating temperature	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Maximum system voltage	600V DC	600V DC	600V DC
Series fuse rating	20 AMPS	20 AMPS	20 AMPS

STC: Irradiance 1000W/m<sup>2</sup>, Module temperature 25°C, AM=1.5

## Module Diagram



Note: mm[inch]

## Specifications

Cell	Multicrystalline silicon solar cells 156mm×156mm
No. of cells and connections	54(6×9)
Dimension of module	1482mm×992mm×35mm
Weight	16.8kg

## Temperature Coefficients

NOCT	45°C ± 2°C
Short-circuit current temperature coefficient	(0.055±0.01) %/K
Open-circuit voltage temperature coefficient	-(0.34±0.01) %/K
Peak power temperature coefficient	-(0.47±0.05) %/K
Power tolerance	±3%

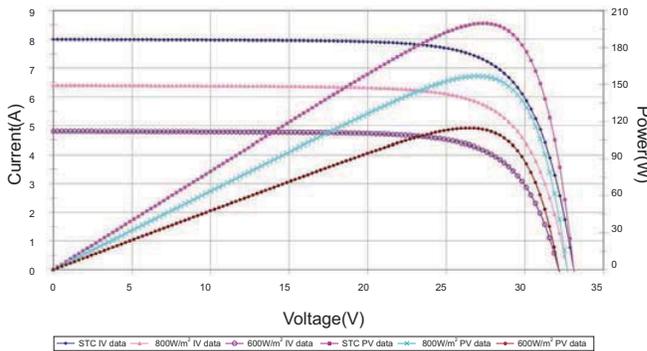
NOCT: Nominal Operating Cell Temperature  
above data is only for reference

## Output

Cable	LAPP(4.0mm <sup>2</sup> )
Asymmetrical Lengths	1200mm(-) and 800mm(+)
Connection	MC Plug Type IV

## Characteristics

Module IV Graph 200W



## PVS-375 (480 V)

### Unparalleled Performance

With their advanced system intelligence, next-generation Edge™ MPPT technology, and industrial-grade engineering, PowerGate Plus inverters maximize system uptime and power production, even in cloudy conditions.

### Power Efficiency

Power Level	Output Power <sup>1</sup>	Efficiency <sup>2</sup>
10%	37.5 kW	92.6%
20%	75 kW	95.4%
30%	112.5 kW	96.0%
50%	187.5 kW	96.3%
75%	281.25 kW	96.2%
100%	375 kW	95.8%

<sup>1</sup> 320V minimum <sup>2</sup> 480V model

### Edge MPPT

Provides rapid and accurate control that boosts PV plant kilowatt yield

Provides a wide range of operation across all photovoltaic cell technologies

### Printed Circuit Board Durability

Wide thermal operating range: -40° C (-40° F) to 85° C (185° F)

Conformal coated to withstand extreme humidity and air-pollution levels

### Proven Reliability

Rugged and reliable, PowerGate Plus PV inverters are engineered from the ground up to meet the demands of large-scale installations.

### Low Maintenance

Modular components make service efficient

Dual cooling fans

### Safety

UBC Seismic Zone 4 compliant

Built-in DC and AC disconnect switches

Integrated DC two-pole disconnect switch isolates the inverter (with the exception of the GFDI circuit) from the photovoltaic power system to allow inspection and maintenance

Built-in isolation transformer

Protective covers over exposed power connections

## PV Inverters | PowerGate® Plus 375 kW



### PowerGate Plus 375 kW Specifications

### UL/CSA

#### Input Parameters

Maximum Array Input Voltage	600 VDC	•
PV Array Configuration	Positive Ground	•
	Negative Ground	•

Input Voltage Range (MPPT; Full Power)	320–600 VDC	•
Maximum Input Current	1,227 ADC	•

#### Output Parameters

Output Voltage Range (L-L)	422–528 VAC	•
Nominal Output Voltage	480 VAC	•
Output Frequency Range	59.3–60.5 Hz	•
AC Voltage Range (Standard)	-12%/+10%	•
Nominal Output Frequency	60 Hz	•
Number of Phases	3	•
Maximum Output Current per Phase	451 A	•
CEC-Weighted Efficiency	95.5%	•
Maximum Continuous Output Power	375 kW (375 kVA)	•
Tare Losses	123.5 W	•
Power Factor at Full Load	>0.99	•
Harmonic Distortion	<3% THD	•

#### Temperature

Operating Ambient Temperature Range (Full Power)	-20° C to +50° C	•
Storage Temperature Range	-30° C to +70° C	•
Cooling	Forced Air	•

#### Noise

Noise Level	<65 dB(A)	•
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• Standard ○ Optional



## Output Options

### PowerGate Plus 375 kW Models

North America 480 VAC Output

## Streamlined Design

With all components enclosed in a single, space-saving enclosure, PowerGate Plus PV inverters are easy to install, operate, and maintain.

### Single Cabinet with Small Footprint

Convenient access to all components

Large in-floor cable glands make access to DC and AC cables easy

## Rugged Construction

Engineered for outdoor environments

### Output Transformer

Provides galvanic isolation

Matches the output voltage of the PV inverter to the grid

## PowerGate Plus 375 kW Specifications

UL/CSA

### Combiner

Number of Inputs and Fuse Rating	15 (160 ADC)	○
	24 (100 ADC)	○

### Transformer

Integrated External Transformer	480 V	●
Low Tap Voltage <sup>1</sup>	20%	●

### Inverter and Integrated External Transformer Cabinets

Enclosure Rating	NEMA 3R	●
Enclosure Finish (14-Gauge, Powder-Coated G90 Steel)	RAL-7032	●
Cabinet Dimensions (Height x Width x Depth)	Inverter	89.18" x 106.33" x 39.59"
	Transformer	77" x 49" x 30.5"
Cabinet Weight	Inverter	3,300 lbs.
	Transformer	2,500 lbs.

### Testing and Certification

UL1741, CSA 107.1-01, IEEE 1547, IEEE C62.41.2, IEEE C62.45, IEEE C37.90.1, IEEE C37.90.2	●
UBC Zone 4 Seismic Rating	●

### Warranty

Five Years	●
Extended Warranty (up to 10, 15, or 20 years)	○
Extended Service Agreement	○
Uptime Guarantee	○

### Intelligent Monitoring

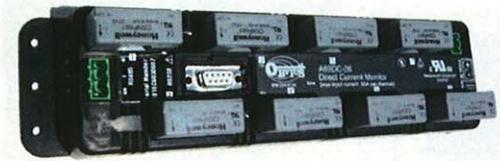
Satcon PV View® Plus	○
Satcon PV Zone	○
Third-Party Compatibility	●

- Standard
- Optional

<sup>1</sup> The 20% boost tap on the isolation transformer increases the AC voltage output range for applications where the solar array DC operating voltage is at or near the lower end of the DC input range. This boost allows for continued inverter operation at lower DC voltage input levels.

Note: Specifications are subject to change.

# A89DC-08 Solar Current Monitor with Modbus Output



## Description

Obvius, the leader in cost effective data acquisition and wireless metering solutions introduces the A89DC-08 Multi Circuit DC Monitor (MCDM). The MCDM allows owners and installers of DC generating applications to monitor the performance of each device individually by providing high accuracy current readings for direct current power flowing from said generators. Key features of this patent-pending monitor include:

- 8 non-contact Hall Effect current sensors provide ease of installation
- Modbus RTU RS 485 output for readings
- Automatic detection of failed panels or strings
- Real time readings of DC current levels for all DC generating devices

The A89DC-08 can be combined with additional Obvius products to provide a complete monitoring package for solar installations with "plug and play" ease of installation. Among the connectivity options:

- Inverters with Modbus output
- Net meters or other metering devices
- ModHopper™ transceivers for wireless Modbus communications
- Obvius wireless Modbus weather stations
- AcquiSuite™ data acquisition server

Data from the MCDM's (and other Modbus devices) can be sent from the AcquiSuite to the Obvius BMO web hosting site, allowing the user to see interval data graphically using any web browser (e.g. Internet Explore or Firefox).

## Installation is fast and easy

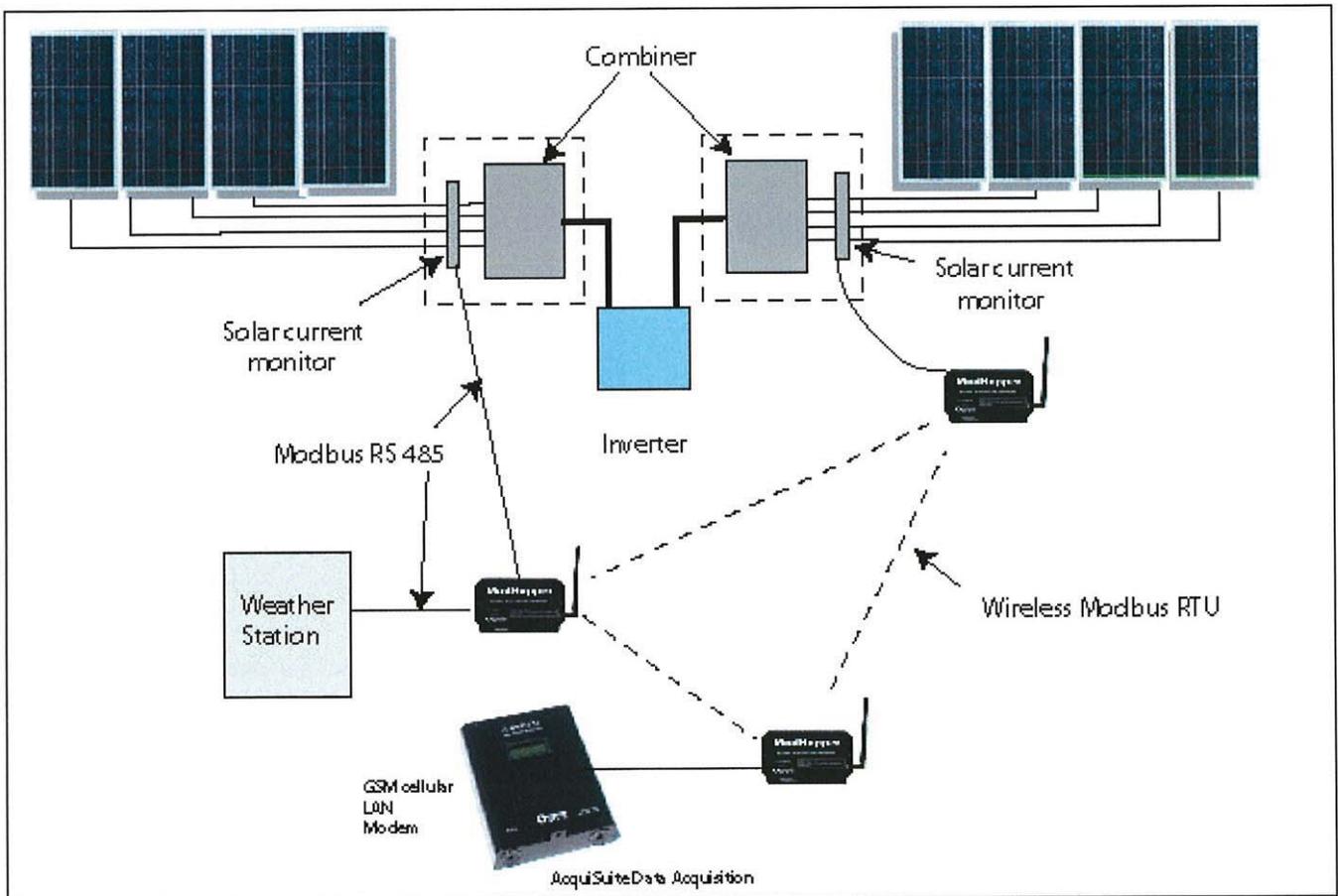
- Hall Effect sensors monitor currents accurately without dangerous connections
- Modbus output provides open protocol for flexibility in communications
- ModHopper transceivers eliminate costly wiring runs
- Setup and configuration is simple, saving time and money
- MCDM is designed to be installed in either new construction or existing installations

## Monitor key performance parameters and detect problems quickly

- MCDM provides user-selectable options for detecting failed devices or panels
- Find and fix problems in a timely manner before penalties are incurred

## Obvius lets you integrate all the essential information into an easy to use system:

- Wireless ModHopper™ transceivers from Obvius eliminate the need for costly wiring
- Up to 247 MCDM's can be networked for wireless communications with ModHoppers
- Obvius weather stations provide wireless Modbus data on critical conditions, including temperature, humidity, wind speed, wind direction and irradiance
- AcquiSuite™ data acquisition server from Obvius provides plug and play ease for lowest installed cost with options for phone, LAN or cellular communications
- Buildingmanageronline.com (BMO) web hosting service provides remote access to reports for multiple locations



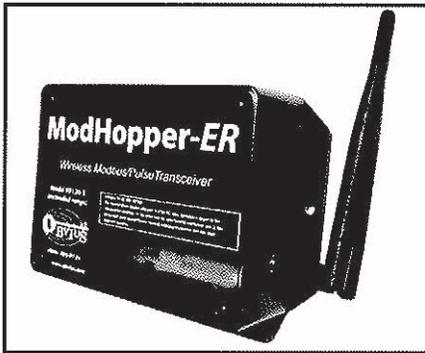
**Typical solar monitoring system**

**SPECIFICATIONS**

- Sensor:** 8 channel hall effect sensor system:
- Power:** 24vdc required.  
382mA.
- Communications:** RS485 (+,-,S) terminals, 9600, N, 8, 1, two wire.
- Protocol:** Modbus RTU
- Addressing:** Modbus address set via software/Modbus register. (1-247 allowed)
- Temp:** 0 to +60C. Operational. (0 to 140F)
- Humidity:** 0 to 95% non-condensing
- Accuracy:** +/- 1% of full scale. (+- 0.5 A absolute)
- Sensor size:** 50 Amp, full scale.
- Isolation:** 1500v isolation between monitored conductor and the non-contact current sensor.
- Sensor opening:** 0.49 inch by 0.35 inch opening for load wire.

# R9120-5 ModHopper-ER® Wireless Modbus/Pulse Transceiver

## Now With 256 Bit AES Encryption!



### DESCRIPTION

The new R9120-5 expands on the industry leading Modhopper line by providing an extended range and additional security through 256 bit AES encryption. The R9120-5 is a dynamic addition to the existing line of Modhopper® wireless Modbus/pulse transceivers as it provides a cost effective solution for remote, high security facilities or bases. The Modhopper provides a self optimizing wireless interface between multiple Modbus devices and networks, perfect for:

- Wireless communications between remote buildings
- Adding Modbus RTU devices to any network or base environment without the need for costly communications wiring

Modhopper® is a breakthrough mesh technology design that makes wireless connectivity simple and cost effective:

- Connect up to 128 RS 485 Modbus RTU devices to any Modbus RTU network
- AES encryption means Modhoppers provide the most secure wireless network
- Unique “mesh” technology means optimized routing of communications with **NO PC OR SOFTWARE CONFIGURATION!**
- Accepts standard pulse inputs or Modbus
- Pass through device for any Modbus RTU network

The Extended Range Modhopper is the perfect solution for connecting new or existing Modbus and pulse devices (meters, sensors, etc.) from remote, high security locations without the need for costly wiring runs, core drilling or conduit. Simply connect the Modbus RTU devices to the serial port on the Modhopper and the transceivers will automatically detect the optimum routing to insure reliable and timely data communications. Data from each Modhopper wireless transceiver is passed from one transceiver to another to reach its ultimate destination. This self-managed mesh network means that the system will function with high reliability where other wireless systems fail due to short- or long-term interference with radio signals.

### Benefits of AES Encryption

The Extended Range Modhopper utilizes 256 bit AES encryption to ensure security of wireless transmissions. It requires the same key to be used for encryption and decryption. To utilize the security feature, the users have two options. They can use the web browser interface in the Acquisuite or they can utilize the software configuration tool provided by Obvius, which allows the user to connect each Modhopper directly to their computer and modify the key directly. Once configured, the key will be stored within the Modhopper and only the Modhoppers with the assigned key can access the subnet ensuring the highest security possible.

### Applications

- Military bases
- Tenant submetering
- Campus environments
- Adding Modbus RTU devices to existing networks
- Gathering energy information from remote buildings
- Monitoring performance of building systems (e.g., chillers, boilers, fans)

### Easy installation saves time and money

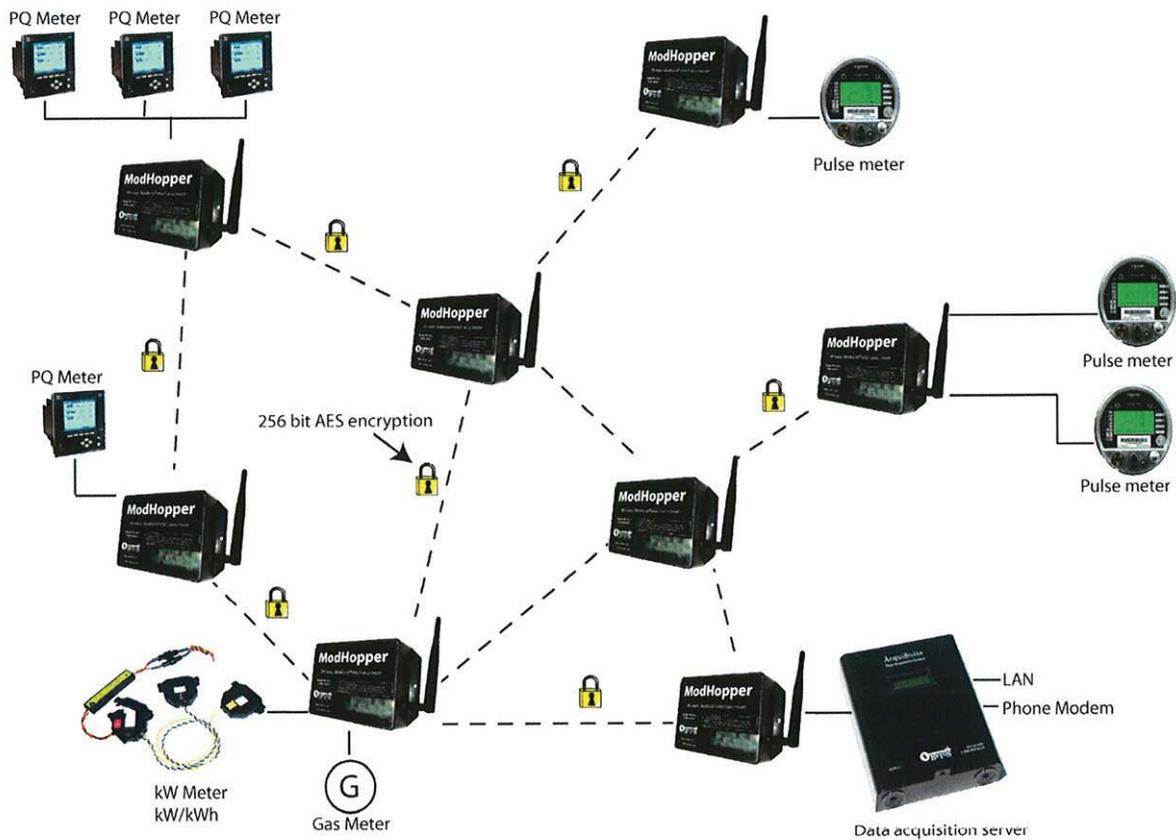
- Self-optimizing hopping technology makes installation easy and cost effective
- Intelligent Modhopper transceivers eliminate the need for costly PC's and software
- Customized design for Modbus RTU device interface provides optimized performance with minimal overhead
- Pulse inputs allow connection to existing meters for electricity, gas, water, steam or BTU's
- Wireless communications up to 3000 ft indoors per hop allows monitoring of remote transformers and meters without expensive trenching
- Wall mount design makes installation a snap and assures high system reliability

### Mesh network design makes adding devices simple and inexpensive

- Intelligent Modhopper nodes continuously monitor wireless traffic to optimize routing
- Modhopper nodes and devices can be added at any time and are automatically added to the routing
- Scalable design means that projects can be completed in stages as resources become available

### AcquiSuite, Modhopper and Buildingmanageronline.com (BMO) provide a complete system solution

- The AcquiSuite data acquisition server from Obvius provides plug and play connectivity to meters from most meter manufacturers using any
- Industry standard protocols provide flexible communications using either existing LAN's or phone lines to BMO or other software



## SPECIFICATIONS

<b>Processor</b>	ARM
<b>Firmware</b>	Field upgradeable
<b>Inputs</b>	2x dry contact Modbus RTU
<b>Modbus input</b>	2 wire RS485 (9600 or 19200 baud)
<b>LED</b>	2 x RF, 2 x RS 485, 2 x pulse, Alive, Alarm
<b>Power requirement</b>	110 – 120 VAC or 9-30 VDC
<b>Ordering Information</b>	

**R9120-5** – Barrel jack power supply with power supply included  
**R9120-5T** – Screw terminal, requires 9-30VDC

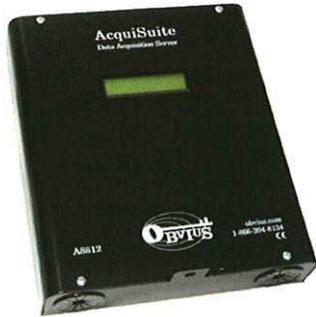
Model:	R9120-3	R9120-3AU	R9120-5	R24120-3
Encryption	No	No	256 bit AES	No
Max Range (indoor)	1500ft (450m)	1500ft (450m)	3000ft (900m)	300ft (90m)
Max Range (line of sight)	7 miles (11km)	7 miles (11km)	14 miles (22km)	3 miles (5km)
RF	900MHz, 100mW	900MHz, 100mW Australia/NZ	900MHz, 1000mW	2.4GHz, 100mW
Input Power	9-30VDC, 200mA	9-30VDC, 200mA	9-30VDC, 900mA	9-30VDC, 200mA

## COMPATIBILITY

\*Modhoppers must be the same model (see above) to ensure compatibility.



# A8812 AcquiSuite DR™ Data Acquisition Server



## Description

Obvius, the leader in cost effective data acquisition and wireless metering solutions introduces the all-new A8812-x AcquiSuite DR™ data acquisition server, providing high performance and low cost for:

- Demand response programs
- Benchmarking building operations performance
- Verification of energy savings and utility costs
- Cost allocation to departments or tenants
- Internet based supervisory control outputs

The system combines the flexibility of choosing LAN, modem or cellular communication paths with the lowest total installed cost for logging building data such as:

- Electrical, gas and water usage and costs
- Indoor and outdoor temperatures
- Pressure, humidity, CO2
- Industry standard pulse or analog inputs

AcquiSuite™ brings “plug and play” capability to the data acquisition market, dramatically reducing the time and training required to put a typical building on line. In most applications, the installation can be done by the building engineer or contractor in less than 2 hours. The system automatically detects and configures Modbus devices in just seconds reducing installation time and costs.

## Applications

- Demand response program control and reporting
- Cost allocation to tenants and third parties
- Measurement & verification of energy savings
- Data center branch circuit monitoring
- Monitoring performance of building systems (e.g., chillers, boilers, fans)

## Easy installation saves time and money

- Simple “plug and play” connectivity to standard Modbus meters minimizes installation time and costs
- “Flex” I/O inputs provide easy connections for analog, pulse and resistance sensors
- Integrated relay outputs allow supervisory control from any location for load shedding or local generation
- Integrated web server provides setup and configuration using any industry standard web browser (i.e., Netscape™ or Internet Explorer™)

## AcquiSuite Framework lets users add Modbus devices

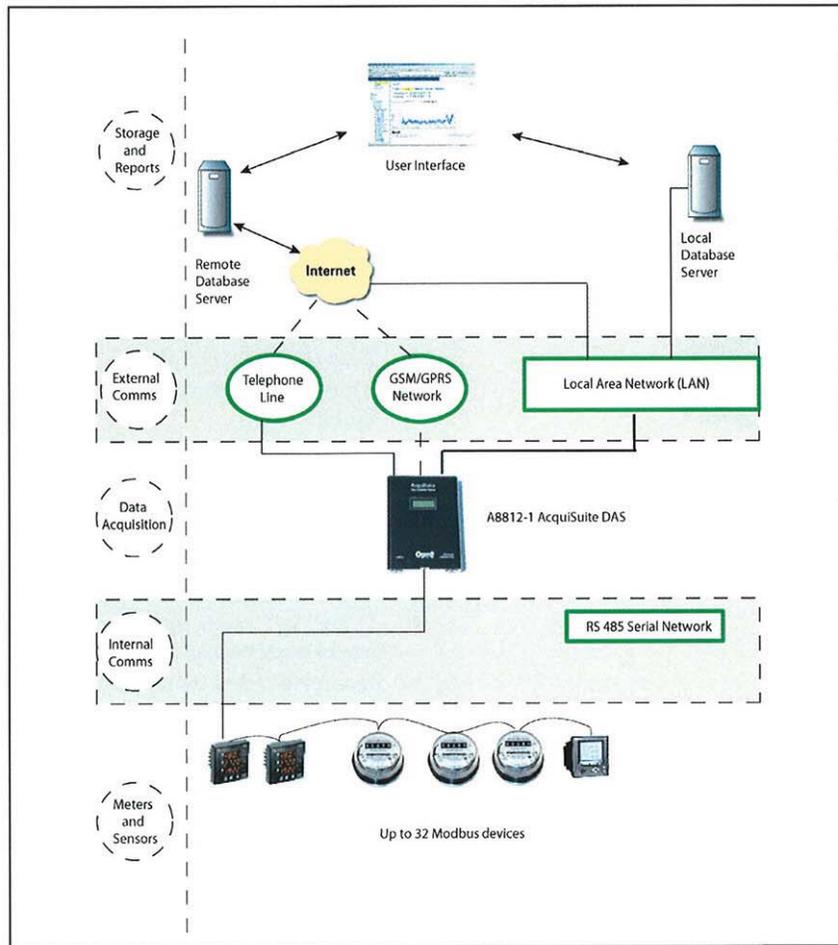
- Allows users a simple means to add Modbus devices not supported by AcquiSuite plug and play drivers
- Driver templates can be stored and shared with multiple AcquiSuites
- Simple web-based interface makes the process easy

## Internet display of key building parameters

- Buildingmanageronline.com™ allows authorized users to see building performance data in an easy to use graphical format
- BMO site provides storage, display and downloads of historical data in a secure SQL database
- Users can be notified of alarm conditions in any or all monitored points
- Open protocols provide connectivity to any energy management or building automation software

## Flexible communications and wireless connectivity

- All data is stored at the site in nonvolatile memory, insuring protection of valuable information in the event of power loss
- Optional on-board ModHopper (R9120-x) for wireless RS 485 communications (consult factory)
- A8812-1 provides two communication options: Local Area Network (LAN) or phone line
- A8812-GSM replaces the standard phone modem with a GSM/GPRS modem for cellular data transfer



## SPECIFICATIONS

Processor	Main processor: ARM 9 ; I/O co-processor: ARM 7
Operating System	Linux 2.6
Flash ROM	16 MB NOR Flash (expandable with USB memory device)
Memory	32 MB RAM
LED	8x pulse input, 4 modem activity, Modbus TX/RX, power status
Console	2 x 16 LCD character, two buttons
LAN	10/100, Auto crossover detection
Modem (phone)	V.34 bis, 33,600 bps <b>(Part number A8812-1)</b>
Modem (cellular)	GSM/GPRS Class10, 85 kbps <b>(Part number A8812-GSM)</b>
Protocols	Modbus/RTU, Modbus/TCP, TCP/IP, PPP, HTTP/HTML, FTP,SNMP, SMTP, XML
Power Supply	24 VDC, included
Serial Port	RS-485 Modbus
Approvals	CE; FCC Part 15, Class A
USB port	USB memory expansion port
Power Requirement	110-120VAC
Interval recording	User selectable 1-60 minutes. Default 15 minute interval.
Outputs	2x, Dry contact 30 VDC, 150 mA max
Inputs	8x, user selectable: <ul style="list-style-type: none"> <li>• 0-10 V - Min/Max/Ave/Instantaneous</li> <li>• 4-20 mA - Min/Max/Ave/Instantaneous</li> <li>• Pulse- Consumption, Rate</li> <li>• Resistance - Min/Max/Ave/Instantaneous</li> <li>• Runtime - Runtime, Status</li> </ul>





APPENDIX E

# **Merritt College PV System Design Drawings**

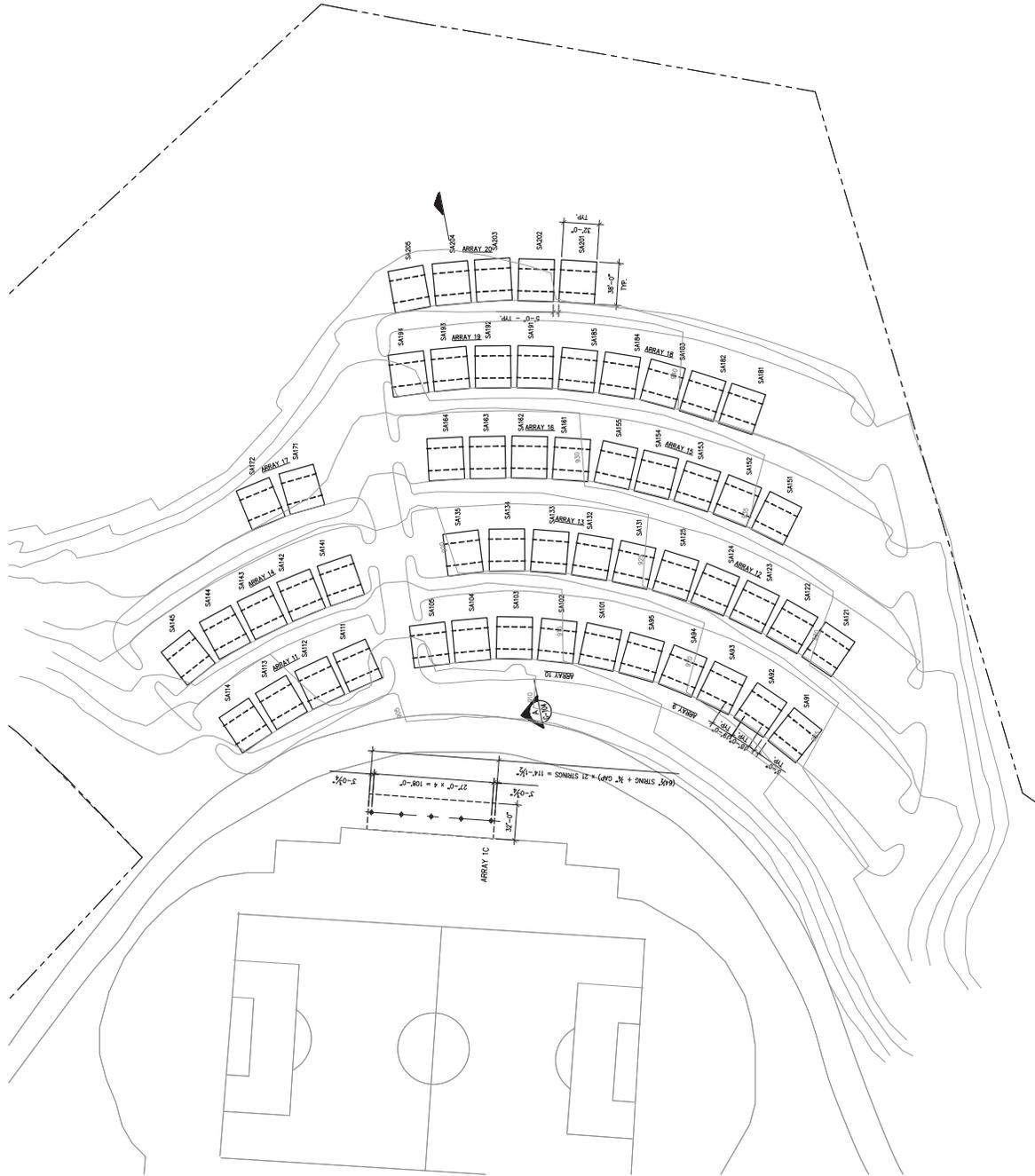
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NOT FOR PUBLIC RELEASE



PV ARRAYS 1C & 9-20 ARRANGEMENT

SCALE: 1" = 40'-0"  
 ARRAY 1C - 21 STRINGS x 2.1 KW = 441 KW  
 378 STRINGS TOTAL x 2.1 KW = 793.8 KW  
 TOTAL HILLSIDE COVER = 832.8 AK

BUILDING ANALYSIS:	U
OCCUPANCY:	II-b
CONSTRUCTION TYPE:	1,652 SQ. FT.
AREA OF ARRAYS:	1,216 SQ. FT.
ARRAY 1C	
ARRAY 9-62	

REV	DATE	BY	DESCRIPTION

BLYMYER  
 ENGINEERING INC.  
 1800 CALIFORNIA AVE  
 ALBANY, CA 94706  
 TEL: 916-885-9373  
 FAX: 916-885-9384

PERALTA COMMUNITY COLLEGE DISTRICT  
PHOTOVOLTAIC ARRAYS

MERRITT COLLEGE  
HILLSIDE PV ARRAYS  
1C & 9-20 ARRANGEMENT

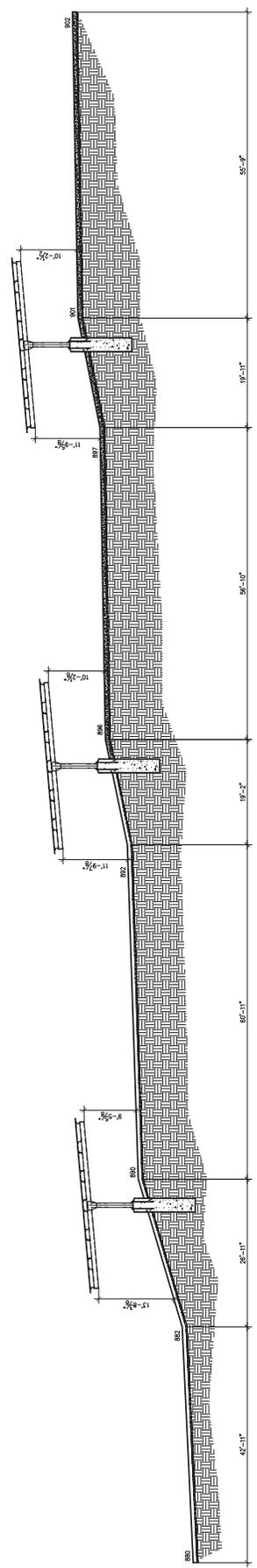
NO.	DATE	BY	DESCRIPTION

G-102 MRT

REV	DATE	BY	DESCRIPTION

NO.	DATE	DESCRIPTION

NOT FOR PUBLIC RELEASE



PARKING LOT "C" PV ARRAY CROSS SECTION  
 SCALE: 1/8" = 1'-0"















# APPENDIX F

# **Hourly Data Simulation Results**

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PV date and Hour	Business As Usual DateTime	Business As Usual kW	EOutInv kW
1/1/1990 0:00	1/1/07 0:00	218.7	0
1/1/1990 1:00	1/1/07 1:00	219.6	0
1/1/1990 2:00	1/1/07 2:00	223.2	0
1/1/1990 3:00	1/1/07 3:00	224.1	0
1/1/1990 4:00	1/1/07 4:00	224.1	0
1/1/1990 5:00	1/1/07 5:00	285.3	0
1/1/1990 6:00	1/1/07 6:00	335.7	0
1/1/1990 7:00	1/1/07 7:00	153.9	0
1/1/1990 8:00	1/1/07 8:00	141.3	41.211
1/1/1990 9:00	1/1/07 9:00	135.9	274.772
1/1/1990 10:00	1/1/07 10:00	135.9	187.171
1/1/1990 11:00	1/1/07 11:00	132.3	99.866
1/1/1990 12:00	1/1/07 12:00	128.7	260.165
1/1/1990 13:00	1/1/07 13:00	129.6	327.284
1/1/1990 14:00	1/1/07 14:00	131.4	279.299
1/1/1990 15:00	1/1/07 15:00	130.5	216.511
1/1/1990 16:00	1/1/07 16:00	130.5	3.5185
1/1/1990 17:00	1/1/07 17:00	199.8	0
1/1/1990 18:00	1/1/07 18:00	203.4	0
1/1/1990 19:00	1/1/07 19:00	205.2	0
1/1/1990 20:00	1/1/07 20:00	207.9	0
1/1/1990 21:00	1/1/07 21:00	206.1	0
1/1/1990 22:00	1/1/07 22:00	208.8	0
1/1/1990 23:00	1/1/07 23:00	217.8	0
2/1/1990 0:00	1/2/07 0:00	217.8	0
2/1/1990 1:00	1/2/07 1:00	220.5	0
2/1/1990 2:00	1/2/07 2:00	222.3	0
2/1/1990 3:00	1/2/07 3:00	222.3	0
2/1/1990 4:00	1/2/07 4:00	221.4	0
2/1/1990 5:00	1/2/07 5:00	279.9	0
2/1/1990 6:00	1/2/07 6:00	343.8	0
2/1/1990 7:00	1/2/07 7:00	215.1	0
2/1/1990 8:00	1/2/07 8:00	306.9	40.602
2/1/1990 9:00	1/2/07 9:00	351	91.351
2/1/1990 10:00	1/2/07 10:00	328.5	85.761
2/1/1990 11:00	1/2/07 11:00	322.2	170.609
2/1/1990 12:00	1/2/07 12:00	323.1	378.235
2/1/1990 13:00	1/2/07 13:00	325.8	362.976
2/1/1990 14:00	1/2/07 14:00	327.6	271.874
2/1/1990 15:00	1/2/07 15:00	307.8	81.439
2/1/1990 16:00	1/2/07 16:00	306.9	4.341
2/1/1990 17:00	1/2/07 17:00	379.8	0
2/1/1990 18:00	1/2/07 18:00	378.9	0
2/1/1990 19:00	1/2/07 19:00	379.8	0

2/1/1990 20:00	1/2/07 20:00	384.3	0
2/1/1990 21:00	1/2/07 21:00	376.2	0
2/1/1990 22:00	1/2/07 22:00	257.4	0
2/1/1990 23:00	1/2/07 23:00	249.3	0
3/1/1990 0:00	1/3/07 0:00	251.1	0
3/1/1990 1:00	1/3/07 1:00	254.7	0
3/1/1990 2:00	1/3/07 2:00	255.6	0
3/1/1990 3:00	1/3/07 3:00	256.5	0
3/1/1990 4:00	1/3/07 4:00	255.6	0
3/1/1990 5:00	1/3/07 5:00	306	0
3/1/1990 6:00	1/3/07 6:00	405	0
3/1/1990 7:00	1/3/07 7:00	404.1	0
3/1/1990 8:00	1/3/07 8:00	440.1	124.401
3/1/1990 9:00	1/3/07 9:00	461.7	215.9
3/1/1990 10:00	1/3/07 10:00	466.2	272.075
3/1/1990 11:00	1/3/07 11:00	447.3	366.715
3/1/1990 12:00	1/3/07 12:00	445.5	381.211
3/1/1990 13:00	1/3/07 13:00	439.2	467.577
3/1/1990 14:00	1/3/07 14:00	432	289.357
3/1/1990 15:00	1/3/07 15:00	414	247.71
3/1/1990 16:00	1/3/07 16:00	401.4	8.211
3/1/1990 17:00	1/3/07 17:00	432.9	0
3/1/1990 18:00	1/3/07 18:00	427.5	0
3/1/1990 19:00	1/3/07 19:00	427.5	0
3/1/1990 20:00	1/3/07 20:00	433.8	0
3/1/1990 21:00	1/3/07 21:00	425.7	0
3/1/1990 22:00	1/3/07 22:00	292.5	0
3/1/1990 23:00	1/3/07 23:00	288.9	0
4/1/1990 0:00	1/4/07 0:00	289.8	0
4/1/1990 1:00	1/4/07 1:00	296.1	0
4/1/1990 2:00	1/4/07 2:00	298.8	0
4/1/1990 3:00	1/4/07 3:00	299.7	0
4/1/1990 4:00	1/4/07 4:00	298.8	0
4/1/1990 5:00	1/4/07 5:00	351.9	0
4/1/1990 6:00	1/4/07 6:00	451.8	0
4/1/1990 7:00	1/4/07 7:00	403.2	0
4/1/1990 8:00	1/4/07 8:00	410.4	116.227
4/1/1990 9:00	1/4/07 9:00	433.8	214.014
4/1/1990 10:00	1/4/07 10:00	445.5	308.969
4/1/1990 11:00	1/4/07 11:00	454.5	381.795
4/1/1990 12:00	1/4/07 12:00	439.2	366.795
4/1/1990 13:00	1/4/07 13:00	437.4	464.38
4/1/1990 14:00	1/4/07 14:00	432.9	256.809
4/1/1990 15:00	1/4/07 15:00	410.4	145.646
4/1/1990 16:00	1/4/07 16:00	378.9	23.028
4/1/1990 17:00	1/4/07 17:00	427.5	0
4/1/1990 18:00	1/4/07 18:00	414.9	0

4/1/1990 19:00	1/4/07 19:00	416.7	0
4/1/1990 20:00	1/4/07 20:00	417.6	0
4/1/1990 21:00	1/4/07 21:00	411.3	0
4/1/1990 22:00	1/4/07 22:00	297.9	0
4/1/1990 23:00	1/4/07 23:00	300.6	0
5/1/1990 0:00	1/5/07 0:00	303.3	0
5/1/1990 1:00	1/5/07 1:00	305.1	0
5/1/1990 2:00	1/5/07 2:00	312.3	0
5/1/1990 3:00	1/5/07 3:00	319.5	0
5/1/1990 4:00	1/5/07 4:00	308.7	0
5/1/1990 5:00	1/5/07 5:00	357.3	0
5/1/1990 6:00	1/5/07 6:00	437.4	0
5/1/1990 7:00	1/5/07 7:00	402.3	0
5/1/1990 8:00	1/5/07 8:00	418.5	85.334
5/1/1990 9:00	1/5/07 9:00	431.1	237.688
5/1/1990 10:00	1/5/07 10:00	427.5	264.335
5/1/1990 11:00	1/5/07 11:00	428.4	283.094
5/1/1990 12:00	1/5/07 12:00	419.4	203.921
5/1/1990 13:00	1/5/07 13:00	410.4	313.092
5/1/1990 14:00	1/5/07 14:00	407.7	191.7
5/1/1990 15:00	1/5/07 15:00	387	115.5
5/1/1990 16:00	1/5/07 16:00	360.9	17.65
5/1/1990 17:00	1/5/07 17:00	421.2	0
5/1/1990 18:00	1/5/07 18:00	410.4	0
5/1/1990 19:00	1/5/07 19:00	408.6	0
5/1/1990 20:00	1/5/07 20:00	412.2	0
5/1/1990 21:00	1/5/07 21:00	401.4	0
5/1/1990 22:00	1/5/07 22:00	274.5	0
5/1/1990 23:00	1/5/07 23:00	288	0
6/1/1990 0:00	1/6/07 0:00	292.5	0
6/1/1990 1:00	1/6/07 1:00	297	0
6/1/1990 2:00	1/6/07 2:00	297.9	0
6/1/1990 3:00	1/6/07 3:00	297.9	0
6/1/1990 4:00	1/6/07 4:00	296.1	0
6/1/1990 5:00	1/6/07 5:00	295.2	0
6/1/1990 6:00	1/6/07 6:00	267.3	0
6/1/1990 7:00	1/6/07 7:00	214.2	0
6/1/1990 8:00	1/6/07 8:00	330.3	93.145
6/1/1990 9:00	1/6/07 9:00	347.4	266.185
6/1/1990 10:00	1/6/07 10:00	344.7	407.921
6/1/1990 11:00	1/6/07 11:00	342.9	530.968
6/1/1990 12:00	1/6/07 12:00	335.7	397.689
6/1/1990 13:00	1/6/07 13:00	319.5	325.819
6/1/1990 14:00	1/6/07 14:00	318.6	278.439
6/1/1990 15:00	1/6/07 15:00	313.2	84.115
6/1/1990 16:00	1/6/07 16:00	228.6	30.033
6/1/1990 17:00	1/6/07 17:00	300.6	0

6/1/1990 18:00	1/6/07 18:00	297.9	0
6/1/1990 19:00	1/6/07 19:00	300.6	0
6/1/1990 20:00	1/6/07 20:00	273.6	0
6/1/1990 21:00	1/6/07 21:00	263.7	0
6/1/1990 22:00	1/6/07 22:00	261	0
6/1/1990 23:00	1/6/07 23:00	263.7	0
7/1/1990 0:00	1/7/07 0:00	268.2	0
7/1/1990 1:00	1/7/07 1:00	270	0
7/1/1990 2:00	1/7/07 2:00	270	0
7/1/1990 3:00	1/7/07 3:00	272.7	0
7/1/1990 4:00	1/7/07 4:00	272.7	0
7/1/1990 5:00	1/7/07 5:00	309.6	0
7/1/1990 6:00	1/7/07 6:00	373.5	0
7/1/1990 7:00	1/7/07 7:00	206.1	0
7/1/1990 8:00	1/7/07 8:00	192.6	0
7/1/1990 9:00	1/7/07 9:00	188.1	49.596
7/1/1990 10:00	1/7/07 10:00	185.4	112.723
7/1/1990 11:00	1/7/07 11:00	184.5	154.009
7/1/1990 12:00	1/7/07 12:00	183.6	61.048
7/1/1990 13:00	1/7/07 13:00	184.5	172.505
7/1/1990 14:00	1/7/07 14:00	186.3	70.872
7/1/1990 15:00	1/7/07 15:00	183.6	32.183
7/1/1990 16:00	1/7/07 16:00	186.3	2.4332
7/1/1990 17:00	1/7/07 17:00	255.6	0
7/1/1990 18:00	1/7/07 18:00	257.4	0
7/1/1990 19:00	1/7/07 19:00	260.1	0
7/1/1990 20:00	1/7/07 20:00	262.8	0
7/1/1990 21:00	1/7/07 21:00	260.1	0
7/1/1990 22:00	1/7/07 22:00	259.2	0
7/1/1990 23:00	1/7/07 23:00	264.6	0
8/1/1990 0:00	1/8/07 0:00	268.2	0
8/1/1990 1:00	1/8/07 1:00	270	0
8/1/1990 2:00	1/8/07 2:00	270.9	0
8/1/1990 3:00	1/8/07 3:00	272.7	0
8/1/1990 4:00	1/8/07 4:00	270.9	0
8/1/1990 5:00	1/8/07 5:00	325.8	0
8/1/1990 6:00	1/8/07 6:00	432.9	0
8/1/1990 7:00	1/8/07 7:00	414.9	0
8/1/1990 8:00	1/8/07 8:00	466.2	81.619
8/1/1990 9:00	1/8/07 9:00	492.3	262.336
8/1/1990 10:00	1/8/07 10:00	489.6	294.746
8/1/1990 11:00	1/8/07 11:00	482.4	353.521
8/1/1990 12:00	1/8/07 12:00	483.3	302.865
8/1/1990 13:00	1/8/07 13:00	479.7	413.086
8/1/1990 14:00	1/8/07 14:00	479.7	230.469
8/1/1990 15:00	1/8/07 15:00	456.3	96.428
8/1/1990 16:00	1/8/07 16:00	417.6	20.646

8/1/1990 17:00	1/8/07 17:00	450.9	0
8/1/1990 18:00	1/8/07 18:00	440.1	0
8/1/1990 19:00	1/8/07 19:00	433.8	0
8/1/1990 20:00	1/8/07 20:00	426.6	0
8/1/1990 21:00	1/8/07 21:00	419.4	0
8/1/1990 22:00	1/8/07 22:00	290.7	0
8/1/1990 23:00	1/8/07 23:00	282.6	0
9/1/1990 0:00	1/9/07 0:00	301.5	0
9/1/1990 1:00	1/9/07 1:00	302.4	0
9/1/1990 2:00	1/9/07 2:00	303.3	0
9/1/1990 3:00	1/9/07 3:00	303.3	0
9/1/1990 4:00	1/9/07 4:00	298.8	0
9/1/1990 5:00	1/9/07 5:00	340.2	0
9/1/1990 6:00	1/9/07 6:00	425.7	0
9/1/1990 7:00	1/9/07 7:00	407.7	0
9/1/1990 8:00	1/9/07 8:00	454.5	89.328
9/1/1990 9:00	1/9/07 9:00	466.2	278.538
9/1/1990 10:00	1/9/07 10:00	471.6	280.657
9/1/1990 11:00	1/9/07 11:00	478.8	208.593
9/1/1990 12:00	1/9/07 12:00	473.4	428.824
9/1/1990 13:00	1/9/07 13:00	462.6	291.651
9/1/1990 14:00	1/9/07 14:00	453.6	219.435
9/1/1990 15:00	1/9/07 15:00	433.8	79.545
9/1/1990 16:00	1/9/07 16:00	423.9	16.975
9/1/1990 17:00	1/9/07 17:00	476.1	0
9/1/1990 18:00	1/9/07 18:00	448.2	0
9/1/1990 19:00	1/9/07 19:00	414.9	0
9/1/1990 20:00	1/9/07 20:00	408.6	0
9/1/1990 21:00	1/9/07 21:00	405.9	0
9/1/1990 22:00	1/9/07 22:00	285.3	0
9/1/1990 23:00	1/9/07 23:00	297.9	0
10/1/1990 0:00	1/10/07 0:00	301.5	0
10/1/1990 1:00	1/10/07 1:00	291.6	0
10/1/1990 2:00	1/10/07 2:00	286.2	0
10/1/1990 3:00	1/10/07 3:00	286.2	0
10/1/1990 4:00	1/10/07 4:00	284.4	0
10/1/1990 5:00	1/10/07 5:00	330.3	0
10/1/1990 6:00	1/10/07 6:00	423.9	0
10/1/1990 7:00	1/10/07 7:00	409.5	0
10/1/1990 8:00	1/10/07 8:00	459.9	184.009
10/1/1990 9:00	1/10/07 9:00	479.7	279.292
10/1/1990 10:00	1/10/07 10:00	477	353.946
10/1/1990 11:00	1/10/07 11:00	484.2	491.232
10/1/1990 12:00	1/10/07 12:00	492.3	480.638
10/1/1990 13:00	1/10/07 13:00	480.6	532.357
10/1/1990 14:00	1/10/07 14:00	495.9	316.848
10/1/1990 15:00	1/10/07 15:00	487.8	188.801

10/1/1990 16:00	1/10/07 16:00	473.4	26.609
10/1/1990 17:00	1/10/07 17:00	512.1	0
10/1/1990 18:00	1/10/07 18:00	490.5	0
10/1/1990 19:00	1/10/07 19:00	473.4	0
10/1/1990 20:00	1/10/07 20:00	473.4	0
10/1/1990 21:00	1/10/07 21:00	453.6	0
10/1/1990 22:00	1/10/07 22:00	315.9	0
10/1/1990 23:00	1/10/07 23:00	303.3	0
11/1/1990 0:00	1/11/07 0:00	309.6	0
11/1/1990 1:00	1/11/07 1:00	323.1	0
11/1/1990 2:00	1/11/07 2:00	323.1	0
11/1/1990 3:00	1/11/07 3:00	329.4	0
11/1/1990 4:00	1/11/07 4:00	297.9	0
11/1/1990 5:00	1/11/07 5:00	334.8	0
11/1/1990 6:00	1/11/07 6:00	443.7	0
11/1/1990 7:00	1/11/07 7:00	433.8	0
11/1/1990 8:00	1/11/07 8:00	549	148.924
11/1/1990 9:00	1/11/07 9:00	620.1	327.83
11/1/1990 10:00	1/11/07 10:00	616.5	392.801
11/1/1990 11:00	1/11/07 11:00	619.2	431.785
11/1/1990 12:00	1/11/07 12:00	613.8	511.052
11/1/1990 13:00	1/11/07 13:00	616.5	375.4
11/1/1990 14:00	1/11/07 14:00	605.7	327.916
11/1/1990 15:00	1/11/07 15:00	568.8	188.205
11/1/1990 16:00	1/11/07 16:00	539.1	29.754
11/1/1990 17:00	1/11/07 17:00	598.5	0
11/1/1990 18:00	1/11/07 18:00	588.6	0
11/1/1990 19:00	1/11/07 19:00	549.9	0
11/1/1990 20:00	1/11/07 20:00	525.6	0
11/1/1990 21:00	1/11/07 21:00	481.5	0
11/1/1990 22:00	1/11/07 22:00	304.2	0
11/1/1990 23:00	1/11/07 23:00	291.6	0
12/1/1990 0:00	1/12/07 0:00	313.2	0
12/1/1990 1:00	1/12/07 1:00	315	0
12/1/1990 2:00	1/12/07 2:00	310.5	0
12/1/1990 3:00	1/12/07 3:00	320.4	0
12/1/1990 4:00	1/12/07 4:00	317.7	0
12/1/1990 5:00	1/12/07 5:00	372.6	0
12/1/1990 6:00	1/12/07 6:00	464.4	0
12/1/1990 7:00	1/12/07 7:00	453.6	0
12/1/1990 8:00	1/12/07 8:00	537.3	155.79
12/1/1990 9:00	1/12/07 9:00	572.4	249.359
12/1/1990 10:00	1/12/07 10:00	581.4	446.292
12/1/1990 11:00	1/12/07 11:00	567	439.694
12/1/1990 12:00	1/12/07 12:00	552.6	465.002
12/1/1990 13:00	1/12/07 13:00	547.2	373.199
12/1/1990 14:00	1/12/07 14:00	533.7	295.238

12/1/1990 15:00	1/12/07 15:00	498.6	259.649
12/1/1990 16:00	1/12/07 16:00	468.9	64.097
12/1/1990 17:00	1/12/07 17:00	517.5	0
12/1/1990 18:00	1/12/07 18:00	513	0
12/1/1990 19:00	1/12/07 19:00	502.2	0
12/1/1990 20:00	1/12/07 20:00	499.5	0
12/1/1990 21:00	1/12/07 21:00	483.3	0
12/1/1990 22:00	1/12/07 22:00	347.4	0
12/1/1990 23:00	1/12/07 23:00	327.6	0
13/01/90 00:00	1/13/07 0:00	324.9	0
13/01/90 01:00	1/13/07 1:00	332.1	0
13/01/90 02:00	1/13/07 2:00	339.3	0
13/01/90 03:00	1/13/07 3:00	342.9	0
13/01/90 04:00	1/13/07 4:00	338.4	0
13/01/90 05:00	1/13/07 5:00	311.4	0
13/01/90 06:00	1/13/07 6:00	293.4	0
13/01/90 07:00	1/13/07 7:00	231.3	0
13/01/90 08:00	1/13/07 8:00	366.3	49.59
13/01/90 09:00	1/13/07 9:00	404.1	134.598
13/01/90 10:00	1/13/07 10:00	410.4	345.417
13/01/90 11:00	1/13/07 11:00	404.1	355.004
13/01/90 12:00	1/13/07 12:00	392.4	284.891
13/01/90 13:00	1/13/07 13:00	368.1	340.18
13/01/90 14:00	1/13/07 14:00	350.1	320.68
13/01/90 15:00	1/13/07 15:00	333	141.52
13/01/90 16:00	1/13/07 16:00	232.2	6.667
13/01/90 17:00	1/13/07 17:00	297.9	0
13/01/90 18:00	1/13/07 18:00	296.1	0
13/01/90 19:00	1/13/07 19:00	299.7	0
13/01/90 20:00	1/13/07 20:00	270	0
13/01/90 21:00	1/13/07 21:00	260.1	0
13/01/90 22:00	1/13/07 22:00	264.6	0
13/01/90 23:00	1/13/07 23:00	265.5	0
14/01/90 00:00	1/14/07 0:00	267.3	0
14/01/90 01:00	1/14/07 1:00	272.7	0
14/01/90 02:00	1/14/07 2:00	274.5	0
14/01/90 03:00	1/14/07 3:00	273.6	0
14/01/90 04:00	1/14/07 4:00	276.3	0
14/01/90 05:00	1/14/07 5:00	311.4	0
14/01/90 06:00	1/14/07 6:00	389.7	0
14/01/90 07:00	1/14/07 7:00	211.5	0
14/01/90 08:00	1/14/07 8:00	193.5	9.456
14/01/90 09:00	1/14/07 9:00	193.5	60.237
14/01/90 10:00	1/14/07 10:00	192.6	126.956
14/01/90 11:00	1/14/07 11:00	193.5	206.424
14/01/90 12:00	1/14/07 12:00	194.4	73.018
14/01/90 13:00	1/14/07 13:00	190.8	70.796

14/01/90 14:00	1/14/07 14:00	195.3	107.406
14/01/90 15:00	1/14/07 15:00	195.3	48.296
14/01/90 16:00	1/14/07 16:00	196.2	0
14/01/90 17:00	1/14/07 17:00	259.2	0
14/01/90 18:00	1/14/07 18:00	257.4	0
14/01/90 19:00	1/14/07 19:00	259.2	0
14/01/90 20:00	1/14/07 20:00	261	0
14/01/90 21:00	1/14/07 21:00	258.3	0
14/01/90 22:00	1/14/07 22:00	262.8	0
14/01/90 23:00	1/14/07 23:00	269.1	0
15/01/90 00:00	1/15/07 0:00	267.3	0
15/01/90 01:00	1/15/07 1:00	270.9	0
15/01/90 02:00	1/15/07 2:00	272.7	0
15/01/90 03:00	1/15/07 3:00	273.6	0
15/01/90 04:00	1/15/07 4:00	271.8	0
15/01/90 05:00	1/15/07 5:00	326.7	0
15/01/90 06:00	1/15/07 6:00	437.4	0
15/01/90 07:00	1/15/07 7:00	369	0
15/01/90 08:00	1/15/07 8:00	360	137.185
15/01/90 09:00	1/15/07 9:00	357.3	268.432
15/01/90 10:00	1/15/07 10:00	378	354.47
15/01/90 11:00	1/15/07 11:00	384.3	387.918
15/01/90 12:00	1/15/07 12:00	370.8	425.986
15/01/90 13:00	1/15/07 13:00	365.4	404.35
15/01/90 14:00	1/15/07 14:00	358.2	348.351
15/01/90 15:00	1/15/07 15:00	354.6	217.273
15/01/90 16:00	1/15/07 16:00	354.6	84.575
15/01/90 17:00	1/15/07 17:00	419.4	0
15/01/90 18:00	1/15/07 18:00	421.2	0
15/01/90 19:00	1/15/07 19:00	417.6	0
15/01/90 20:00	1/15/07 20:00	422.1	0
15/01/90 21:00	1/15/07 21:00	414.9	0
15/01/90 22:00	1/15/07 22:00	276.3	0
15/01/90 23:00	1/15/07 23:00	270.9	0
16/01/90 00:00	1/16/07 0:00	264.6	0
16/01/90 01:00	1/16/07 1:00	268.2	0
16/01/90 02:00	1/16/07 2:00	268.2	0
16/01/90 03:00	1/16/07 3:00	269.1	0
16/01/90 04:00	1/16/07 4:00	270	0
16/01/90 05:00	1/16/07 5:00	324.9	0
16/01/90 06:00	1/16/07 6:00	442.8	0
16/01/90 07:00	1/16/07 7:00	448.2	0
16/01/90 08:00	1/16/07 8:00	567	98.293
16/01/90 09:00	1/16/07 9:00	654.3	145.784
16/01/90 10:00	1/16/07 10:00	672.3	289.262
16/01/90 11:00	1/16/07 11:00	684	408.755
16/01/90 12:00	1/16/07 12:00	659.7	405.325

16/01/90 13:00	1/16/07 13:00	639	313.551
16/01/90 14:00	1/16/07 14:00	628.2	332.055
16/01/90 15:00	1/16/07 15:00	597.6	176.585
16/01/90 16:00	1/16/07 16:00	568.8	39.301
16/01/90 17:00	1/16/07 17:00	621.9	0
16/01/90 18:00	1/16/07 18:00	607.5	0
16/01/90 19:00	1/16/07 19:00	565.2	0
16/01/90 20:00	1/16/07 20:00	538.2	0
16/01/90 21:00	1/16/07 21:00	497.7	0
16/01/90 22:00	1/16/07 22:00	338.4	0
16/01/90 23:00	1/16/07 23:00	332.1	0
17/01/90 00:00	1/17/07 0:00	336.6	0
17/01/90 01:00	1/17/07 1:00	335.7	0
17/01/90 02:00	1/17/07 2:00	342.9	0
17/01/90 03:00	1/17/07 3:00	350.1	0
17/01/90 04:00	1/17/07 4:00	348.3	0
17/01/90 05:00	1/17/07 5:00	375.3	0
17/01/90 06:00	1/17/07 6:00	468	0
17/01/90 07:00	1/17/07 7:00	471.6	0
17/01/90 08:00	1/17/07 8:00	562.5	138.102
17/01/90 09:00	1/17/07 9:00	623.7	313.232
17/01/90 10:00	1/17/07 10:00	625.5	408.61
17/01/90 11:00	1/17/07 11:00	632.7	573.133
17/01/90 12:00	1/17/07 12:00	639	592.392
17/01/90 13:00	1/17/07 13:00	615.6	516.96
17/01/90 14:00	1/17/07 14:00	621.9	466.299
17/01/90 15:00	1/17/07 15:00	574.2	221.459
17/01/90 16:00	1/17/07 16:00	549.9	110.476
17/01/90 17:00	1/17/07 17:00	596.7	0
17/01/90 18:00	1/17/07 18:00	603	0
17/01/90 19:00	1/17/07 19:00	580.5	0
17/01/90 20:00	1/17/07 20:00	550.8	0
17/01/90 21:00	1/17/07 21:00	518.4	0
17/01/90 22:00	1/17/07 22:00	357.3	0
17/01/90 23:00	1/17/07 23:00	351	0
18/01/90 00:00	1/18/07 0:00	362.7	0
18/01/90 01:00	1/18/07 1:00	365.4	0
18/01/90 02:00	1/18/07 2:00	360	0
18/01/90 03:00	1/18/07 3:00	366.3	0
18/01/90 04:00	1/18/07 4:00	365.4	0
18/01/90 05:00	1/18/07 5:00	389.7	0
18/01/90 06:00	1/18/07 6:00	472.5	0
18/01/90 07:00	1/18/07 7:00	477.9	0
18/01/90 08:00	1/18/07 8:00	568.8	90.621
18/01/90 09:00	1/18/07 9:00	626.4	292.641
18/01/90 10:00	1/18/07 10:00	635.4	445.258
18/01/90 11:00	1/18/07 11:00	640.8	462.95

18/01/90 12:00	1/18/07 12:00	643.5	560.019
18/01/90 13:00	1/18/07 13:00	623.7	517.916
18/01/90 14:00	1/18/07 14:00	607.5	376.871
18/01/90 15:00	1/18/07 15:00	564.3	183.629
18/01/90 16:00	1/18/07 16:00	540.9	31.231
18/01/90 17:00	1/18/07 17:00	599.4	0
18/01/90 18:00	1/18/07 18:00	585.9	0
18/01/90 19:00	1/18/07 19:00	558	0
18/01/90 20:00	1/18/07 20:00	543.6	0
18/01/90 21:00	1/18/07 21:00	514.8	0
18/01/90 22:00	1/18/07 22:00	344.7	0
18/01/90 23:00	1/18/07 23:00	337.5	0
19/01/90 00:00	1/19/07 0:00	337.5	0
19/01/90 01:00	1/19/07 1:00	330.3	0
19/01/90 02:00	1/19/07 2:00	333	0
19/01/90 03:00	1/19/07 3:00	337.5	0
19/01/90 04:00	1/19/07 4:00	332.1	0
19/01/90 05:00	1/19/07 5:00	361.8	0
19/01/90 06:00	1/19/07 6:00	438.3	0
19/01/90 07:00	1/19/07 7:00	448.2	0
19/01/90 08:00	1/19/07 8:00	527.4	143.46
19/01/90 09:00	1/19/07 9:00	542.7	298.313
19/01/90 10:00	1/19/07 10:00	556.2	475.891
19/01/90 11:00	1/19/07 11:00	567.9	552.345
19/01/90 12:00	1/19/07 12:00	561.6	545.7
19/01/90 13:00	1/19/07 13:00	536.4	494.779
19/01/90 14:00	1/19/07 14:00	522	318.233
19/01/90 15:00	1/19/07 15:00	494.1	254.749
19/01/90 16:00	1/19/07 16:00	469.8	107.304
19/01/90 17:00	1/19/07 17:00	513	0
19/01/90 18:00	1/19/07 18:00	504.9	0
19/01/90 19:00	1/19/07 19:00	499.5	0
19/01/90 20:00	1/19/07 20:00	500.4	0
19/01/90 21:00	1/19/07 21:00	489.6	0
19/01/90 22:00	1/19/07 22:00	342	0
19/01/90 23:00	1/19/07 23:00	334.8	0
20/01/90 00:00	1/20/07 0:00	326.7	0
20/01/90 01:00	1/20/07 1:00	333	0
20/01/90 02:00	1/20/07 2:00	330.3	0
20/01/90 03:00	1/20/07 3:00	342	0
20/01/90 04:00	1/20/07 4:00	347.4	0
20/01/90 05:00	1/20/07 5:00	318.6	0
20/01/90 06:00	1/20/07 6:00	290.7	0
20/01/90 07:00	1/20/07 7:00	237.6	0
20/01/90 08:00	1/20/07 8:00	366.3	65.612
20/01/90 09:00	1/20/07 9:00	399.6	106.126
20/01/90 10:00	1/20/07 10:00	407.7	218.541

20/01/90 11:00	1/20/07 11:00	419.4	250.124
20/01/90 12:00	1/20/07 12:00	407.7	359.764
20/01/90 13:00	1/20/07 13:00	375.3	366.902
20/01/90 14:00	1/20/07 14:00	351.9	236.229
20/01/90 15:00	1/20/07 15:00	331.2	70.832
20/01/90 16:00	1/20/07 16:00	238.5	24.197
20/01/90 17:00	1/20/07 17:00	310.5	0
20/01/90 18:00	1/20/07 18:00	314.1	0
20/01/90 19:00	1/20/07 19:00	310.5	0
20/01/90 20:00	1/20/07 20:00	280.8	0
20/01/90 21:00	1/20/07 21:00	271.8	0
20/01/90 22:00	1/20/07 22:00	273.6	0
20/01/90 23:00	1/20/07 23:00	273.6	0
21/01/90 00:00	1/21/07 0:00	275.4	0
21/01/90 01:00	1/21/07 1:00	273.6	0
21/01/90 02:00	1/21/07 2:00	277.2	0
21/01/90 03:00	1/21/07 3:00	276.3	0
21/01/90 04:00	1/21/07 4:00	276.3	0
21/01/90 05:00	1/21/07 5:00	313.2	0
21/01/90 06:00	1/21/07 6:00	386.1	0
21/01/90 07:00	1/21/07 7:00	209.7	0
21/01/90 08:00	1/21/07 8:00	192.6	116.958
21/01/90 09:00	1/21/07 9:00	193.5	93.711
21/01/90 10:00	1/21/07 10:00	200.7	248.635
21/01/90 11:00	1/21/07 11:00	198	341.469
21/01/90 12:00	1/21/07 12:00	191.7	285.782
21/01/90 13:00	1/21/07 13:00	195.3	420.977
21/01/90 14:00	1/21/07 14:00	194.4	365.541
21/01/90 15:00	1/21/07 15:00	187.2	151.663
21/01/90 16:00	1/21/07 16:00	184.5	62.44
21/01/90 17:00	1/21/07 17:00	257.4	0
21/01/90 18:00	1/21/07 18:00	258.3	0
21/01/90 19:00	1/21/07 19:00	259.2	0
21/01/90 20:00	1/21/07 20:00	262.8	0
21/01/90 21:00	1/21/07 21:00	261	0
21/01/90 22:00	1/21/07 22:00	261	0
21/01/90 23:00	1/21/07 23:00	262.8	0
22/01/90 00:00	1/22/07 0:00	267.3	0
22/01/90 01:00	1/22/07 1:00	265.5	0
22/01/90 02:00	1/22/07 2:00	270	0
22/01/90 03:00	1/22/07 3:00	269.1	0
22/01/90 04:00	1/22/07 4:00	267.3	0
22/01/90 05:00	1/22/07 5:00	327.6	0
22/01/90 06:00	1/22/07 6:00	444.6	0
22/01/90 07:00	1/22/07 7:00	442.8	0
22/01/90 08:00	1/22/07 8:00	568.8	144.646
22/01/90 09:00	1/22/07 9:00	605.7	388.914

22/01/90 10:00	1/22/07 10:00	629.1	497.054
22/01/90 11:00	1/22/07 11:00	604.8	480.116
22/01/90 12:00	1/22/07 12:00	588.6	475.506
22/01/90 13:00	1/22/07 13:00	594	356.932
22/01/90 14:00	1/22/07 14:00	585	267.935
22/01/90 15:00	1/22/07 15:00	557.1	211.122
22/01/90 16:00	1/22/07 16:00	528.3	101.673
22/01/90 17:00	1/22/07 17:00	592.2	0
22/01/90 18:00	1/22/07 18:00	606.6	0
22/01/90 19:00	1/22/07 19:00	570.6	0
22/01/90 20:00	1/22/07 20:00	553.5	0
22/01/90 21:00	1/22/07 21:00	513.9	0
22/01/90 22:00	1/22/07 22:00	348.3	0
22/01/90 23:00	1/22/07 23:00	317.7	0
23/01/90 00:00	1/23/07 0:00	315	0
23/01/90 01:00	1/23/07 1:00	311.4	0
23/01/90 02:00	1/23/07 2:00	302.4	0
23/01/90 03:00	1/23/07 3:00	302.4	0
23/01/90 04:00	1/23/07 4:00	299.7	0
23/01/90 05:00	1/23/07 5:00	343.8	0
23/01/90 06:00	1/23/07 6:00	443.7	0
23/01/90 07:00	1/23/07 7:00	448.2	0
23/01/90 08:00	1/23/07 8:00	540.9	97.271
23/01/90 09:00	1/23/07 9:00	612.9	169.836
23/01/90 10:00	1/23/07 10:00	604.8	319.858
23/01/90 11:00	1/23/07 11:00	614.7	359.485
23/01/90 12:00	1/23/07 12:00	617.4	493.506
23/01/90 13:00	1/23/07 13:00	618.3	412.641
23/01/90 14:00	1/23/07 14:00	606.6	303.055
23/01/90 15:00	1/23/07 15:00	584.1	100.584
23/01/90 16:00	1/23/07 16:00	547.2	67.256
23/01/90 17:00	1/23/07 17:00	604.8	0
23/01/90 18:00	1/23/07 18:00	602.1	0
23/01/90 19:00	1/23/07 19:00	563.4	0
23/01/90 20:00	1/23/07 20:00	549	0
23/01/90 21:00	1/23/07 21:00	502.2	0
23/01/90 22:00	1/23/07 22:00	320.4	0
23/01/90 23:00	1/23/07 23:00	301.5	0
24/01/90 00:00	1/24/07 0:00	308.7	0
24/01/90 01:00	1/24/07 1:00	309.6	0
24/01/90 02:00	1/24/07 2:00	311.4	0
24/01/90 03:00	1/24/07 3:00	317.7	0
24/01/90 04:00	1/24/07 4:00	316.8	0
24/01/90 05:00	1/24/07 5:00	360.9	0
24/01/90 06:00	1/24/07 6:00	441.9	0
24/01/90 07:00	1/24/07 7:00	445.5	0
24/01/90 08:00	1/24/07 8:00	537.3	72.59

24/01/90 09:00	1/24/07 9:00	566.1	283.403
24/01/90 10:00	1/24/07 10:00	581.4	285.372
24/01/90 11:00	1/24/07 11:00	591.3	481.406
24/01/90 12:00	1/24/07 12:00	597.6	401.676
24/01/90 13:00	1/24/07 13:00	583.2	419.159
24/01/90 14:00	1/24/07 14:00	579.6	426.134
24/01/90 15:00	1/24/07 15:00	561.6	251.751
24/01/90 16:00	1/24/07 16:00	545.4	76.929
24/01/90 17:00	1/24/07 17:00	587.7	0
24/01/90 18:00	1/24/07 18:00	594.9	0
24/01/90 19:00	1/24/07 19:00	571.5	0
24/01/90 20:00	1/24/07 20:00	550.8	0
24/01/90 21:00	1/24/07 21:00	504.9	0
24/01/90 22:00	1/24/07 22:00	325.8	0
24/01/90 23:00	1/24/07 23:00	306.9	0
25/01/90 00:00	1/25/07 0:00	306	0
25/01/90 01:00	1/25/07 1:00	302.4	0
25/01/90 02:00	1/25/07 2:00	299.7	0
25/01/90 03:00	1/25/07 3:00	294.3	0
25/01/90 04:00	1/25/07 4:00	286.2	0
25/01/90 05:00	1/25/07 5:00	342	0
25/01/90 06:00	1/25/07 6:00	455.4	0
25/01/90 07:00	1/25/07 7:00	436.5	0
25/01/90 08:00	1/25/07 8:00	531.9	133.888
25/01/90 09:00	1/25/07 9:00	587.7	349.431
25/01/90 10:00	1/25/07 10:00	588.6	460.622
25/01/90 11:00	1/25/07 11:00	611.1	479.669
25/01/90 12:00	1/25/07 12:00	600.3	466.055
25/01/90 13:00	1/25/07 13:00	595.8	356.533
25/01/90 14:00	1/25/07 14:00	585.9	413.877
25/01/90 15:00	1/25/07 15:00	551.7	204.105
25/01/90 16:00	1/25/07 16:00	528.3	86.976
25/01/90 17:00	1/25/07 17:00	572.4	0
25/01/90 18:00	1/25/07 18:00	577.8	0
25/01/90 19:00	1/25/07 19:00	563.4	0
25/01/90 20:00	1/25/07 20:00	558.9	0
25/01/90 21:00	1/25/07 21:00	515.7	0
25/01/90 22:00	1/25/07 22:00	351	0
25/01/90 23:00	1/25/07 23:00	327.6	0
26/01/90 00:00	1/26/07 0:00	317.7	0
26/01/90 01:00	1/26/07 1:00	324	0
26/01/90 02:00	1/26/07 2:00	319.5	0
26/01/90 03:00	1/26/07 3:00	315.9	0
26/01/90 04:00	1/26/07 4:00	294.3	0
26/01/90 05:00	1/26/07 5:00	333.9	0
26/01/90 06:00	1/26/07 6:00	447.3	0
26/01/90 07:00	1/26/07 7:00	438.3	0

26/01/90 08:00	1/26/07 8:00	515.7	148.971
26/01/90 09:00	1/26/07 9:00	531.9	287.28
26/01/90 10:00	1/26/07 10:00	542.7	331.581
26/01/90 11:00	1/26/07 11:00	558	360.084
26/01/90 12:00	1/26/07 12:00	558.9	491.363
26/01/90 13:00	1/26/07 13:00	552.6	492.329
26/01/90 14:00	1/26/07 14:00	537.3	337.307
26/01/90 15:00	1/26/07 15:00	507.6	175.284
26/01/90 16:00	1/26/07 16:00	467.1	82.441
26/01/90 17:00	1/26/07 17:00	501.3	0
26/01/90 18:00	1/26/07 18:00	482.4	0
26/01/90 19:00	1/26/07 19:00	453.6	0
26/01/90 20:00	1/26/07 20:00	449.1	0
26/01/90 21:00	1/26/07 21:00	451.8	0
26/01/90 22:00	1/26/07 22:00	316.8	0
26/01/90 23:00	1/26/07 23:00	308.7	0
27/01/90 00:00	1/27/07 0:00	312.3	0
27/01/90 01:00	1/27/07 1:00	328.5	0
27/01/90 02:00	1/27/07 2:00	329.4	0
27/01/90 03:00	1/27/07 3:00	315	0
27/01/90 04:00	1/27/07 4:00	309.6	0
27/01/90 05:00	1/27/07 5:00	285.3	0
27/01/90 06:00	1/27/07 6:00	274.5	0
27/01/90 07:00	1/27/07 7:00	223.2	0
27/01/90 08:00	1/27/07 8:00	356.4	69.08
27/01/90 09:00	1/27/07 9:00	389.7	132.578
27/01/90 10:00	1/27/07 10:00	391.5	287.815
27/01/90 11:00	1/27/07 11:00	391.5	305.912
27/01/90 12:00	1/27/07 12:00	393.3	295.115
27/01/90 13:00	1/27/07 13:00	365.4	324.717
27/01/90 14:00	1/27/07 14:00	358.2	215.484
27/01/90 15:00	1/27/07 15:00	343.8	83.868
27/01/90 16:00	1/27/07 16:00	237.6	6.728
27/01/90 17:00	1/27/07 17:00	305.1	0
27/01/90 18:00	1/27/07 18:00	306.9	0
27/01/90 19:00	1/27/07 19:00	309.6	0
27/01/90 20:00	1/27/07 20:00	279	0
27/01/90 21:00	1/27/07 21:00	269.1	0
27/01/90 22:00	1/27/07 22:00	270	0
27/01/90 23:00	1/27/07 23:00	266.4	0
28/01/90 00:00	1/28/07 0:00	270.9	0
28/01/90 01:00	1/28/07 1:00	271.8	0
28/01/90 02:00	1/28/07 2:00	273.6	0
28/01/90 03:00	1/28/07 3:00	273.6	0
28/01/90 04:00	1/28/07 4:00	276.3	0
28/01/90 05:00	1/28/07 5:00	315.9	0
28/01/90 06:00	1/28/07 6:00	387	0

28/01/90 07:00	1/28/07 7:00	208.8	0
28/01/90 08:00	1/28/07 8:00	189.9	96.773
28/01/90 09:00	1/28/07 9:00	189.9	251.919
28/01/90 10:00	1/28/07 10:00	193.5	445.489
28/01/90 11:00	1/28/07 11:00	192.6	467.805
28/01/90 12:00	1/28/07 12:00	188.1	307.028
28/01/90 13:00	1/28/07 13:00	193.5	402.268
28/01/90 14:00	1/28/07 14:00	193.5	326.464
28/01/90 15:00	1/28/07 15:00	181.8	210.4
28/01/90 16:00	1/28/07 16:00	180.9	66.21
28/01/90 17:00	1/28/07 17:00	251.1	0
28/01/90 18:00	1/28/07 18:00	254.7	0
28/01/90 19:00	1/28/07 19:00	256.5	0
28/01/90 20:00	1/28/07 20:00	259.2	0
28/01/90 21:00	1/28/07 21:00	257.4	0
28/01/90 22:00	1/28/07 22:00	255.6	0
28/01/90 23:00	1/28/07 23:00	258.3	0
29/01/90 00:00	1/29/07 0:00	258.3	0
29/01/90 01:00	1/29/07 1:00	262.8	0
29/01/90 02:00	1/29/07 2:00	263.7	0
29/01/90 03:00	1/29/07 3:00	261	0
29/01/90 04:00	1/29/07 4:00	257.4	0
29/01/90 05:00	1/29/07 5:00	318.6	0
29/01/90 06:00	1/29/07 6:00	435.6	0
29/01/90 07:00	1/29/07 7:00	427.5	0
29/01/90 08:00	1/29/07 8:00	557.1	7.781
29/01/90 09:00	1/29/07 9:00	620.1	118.026
29/01/90 10:00	1/29/07 10:00	627.3	218.068
29/01/90 11:00	1/29/07 11:00	628.2	323.003
29/01/90 12:00	1/29/07 12:00	611.1	162.214
29/01/90 13:00	1/29/07 13:00	608.4	213.115
29/01/90 14:00	1/29/07 14:00	592.2	142.936
29/01/90 15:00	1/29/07 15:00	561.6	113.111
29/01/90 16:00	1/29/07 16:00	547.2	90.003
29/01/90 17:00	1/29/07 17:00	596.7	0
29/01/90 18:00	1/29/07 18:00	594.9	0
29/01/90 19:00	1/29/07 19:00	549	0
29/01/90 20:00	1/29/07 20:00	521.1	0
29/01/90 21:00	1/29/07 21:00	486.9	0
29/01/90 22:00	1/29/07 22:00	320.4	0
29/01/90 23:00	1/29/07 23:00	308.7	0
30/01/90 00:00	1/30/07 0:00	312.3	0
30/01/90 01:00	1/30/07 1:00	316.8	0
30/01/90 02:00	1/30/07 2:00	313.2	0
30/01/90 03:00	1/30/07 3:00	310.5	0
30/01/90 04:00	1/30/07 4:00	303.3	0
30/01/90 05:00	1/30/07 5:00	357.3	0

30/01/90 06:00	1/30/07 6:00	463.5	0
30/01/90 07:00	1/30/07 7:00	463.5	0
30/01/90 08:00	1/30/07 8:00	522.9	157.579
30/01/90 09:00	1/30/07 9:00	582.3	384.08
30/01/90 10:00	1/30/07 10:00	592.2	367.415
30/01/90 11:00	1/30/07 11:00	603.9	414.469
30/01/90 12:00	1/30/07 12:00	617.4	498.435
30/01/90 13:00	1/30/07 13:00	607.5	511.391
30/01/90 14:00	1/30/07 14:00	597.6	392.826
30/01/90 15:00	1/30/07 15:00	575.1	342.61
30/01/90 16:00	1/30/07 16:00	558	142.772
30/01/90 17:00	1/30/07 17:00	609.3	0
30/01/90 18:00	1/30/07 18:00	601.2	0
30/01/90 19:00	1/30/07 19:00	555.3	0
30/01/90 20:00	1/30/07 20:00	522.9	0
30/01/90 21:00	1/30/07 21:00	470.7	0
30/01/90 22:00	1/30/07 22:00	304.2	0
30/01/90 23:00	1/30/07 23:00	314.1	0
31/01/90 00:00	1/31/07 0:00	308.7	0
31/01/90 01:00	1/31/07 1:00	311.4	0
31/01/90 02:00	1/31/07 2:00	306	0
31/01/90 03:00	1/31/07 3:00	303.3	0
31/01/90 04:00	1/31/07 4:00	301.5	0
31/01/90 05:00	1/31/07 5:00	349.2	0
31/01/90 06:00	1/31/07 6:00	446.4	0
31/01/90 07:00	1/31/07 7:00	432	1.9841
31/01/90 08:00	1/31/07 8:00	534.6	162.419
31/01/90 09:00	1/31/07 9:00	574.2	231.277
31/01/90 10:00	1/31/07 10:00	591.3	298.364
31/01/90 11:00	1/31/07 11:00	607.5	514.685
31/01/90 12:00	1/31/07 12:00	605.7	371.127
31/01/90 13:00	1/31/07 13:00	591.3	444.797
31/01/90 14:00	1/31/07 14:00	580.5	450.878
31/01/90 15:00	1/31/07 15:00	560.7	209.439
31/01/90 16:00	1/31/07 16:00	540	84.483
31/01/90 17:00	1/31/07 17:00	585	0
31/01/90 18:00	1/31/07 18:00	594	0
31/01/90 19:00	1/31/07 19:00	594.9	0
31/01/90 20:00	1/31/07 20:00	563.4	0
31/01/90 21:00	1/31/07 21:00	498.6	0
31/01/90 22:00	1/31/07 22:00	320.4	0
31/01/90 23:00	1/31/07 23:00	308.7	0
1/2/1990 0:00	2/1/07 0:00	305.1	0
1/2/1990 1:00	2/1/07 1:00	292.5	0
1/2/1990 2:00	2/1/07 2:00	315.9	0
1/2/1990 3:00	2/1/07 3:00	304.2	0
1/2/1990 4:00	2/1/07 4:00	297.9	0

1/2/1990 5:00	2/1/07 5:00	338.4	0
1/2/1990 6:00	2/1/07 6:00	448.2	0
1/2/1990 7:00	2/1/07 7:00	420.3	0
1/2/1990 8:00	2/1/07 8:00	530.1	0.749
1/2/1990 9:00	2/1/07 9:00	593.1	86.104
1/2/1990 10:00	2/1/07 10:00	608.4	231.658
1/2/1990 11:00	2/1/07 11:00	623.7	156.439
1/2/1990 12:00	2/1/07 12:00	639	77.778
1/2/1990 13:00	2/1/07 13:00	626.4	76.381
1/2/1990 14:00	2/1/07 14:00	606.6	87.414
1/2/1990 15:00	2/1/07 15:00	590.4	143.194
1/2/1990 16:00	2/1/07 16:00	559.8	16.287
1/2/1990 17:00	2/1/07 17:00	599.4	0
1/2/1990 18:00	2/1/07 18:00	612	0
1/2/1990 19:00	2/1/07 19:00	571.5	0
1/2/1990 20:00	2/1/07 20:00	548.1	0
1/2/1990 21:00	2/1/07 21:00	501.3	0
1/2/1990 22:00	2/1/07 22:00	322.2	0
1/2/1990 23:00	2/1/07 23:00	313.2	0
2/2/1990 0:00	2/2/07 0:00	319.5	0
2/2/1990 1:00	2/2/07 1:00	320.4	0
2/2/1990 2:00	2/2/07 2:00	324	0
2/2/1990 3:00	2/2/07 3:00	325.8	0
2/2/1990 4:00	2/2/07 4:00	316.8	0
2/2/1990 5:00	2/2/07 5:00	347.4	0
2/2/1990 6:00	2/2/07 6:00	449.1	0
2/2/1990 7:00	2/2/07 7:00	431.1	0
2/2/1990 8:00	2/2/07 8:00	510.3	45.528
2/2/1990 9:00	2/2/07 9:00	552.6	84.247
2/2/1990 10:00	2/2/07 10:00	564.3	110.008
2/2/1990 11:00	2/2/07 11:00	577.8	200.694
2/2/1990 12:00	2/2/07 12:00	570.6	225.767
2/2/1990 13:00	2/2/07 13:00	553.5	153.54
2/2/1990 14:00	2/2/07 14:00	551.7	215.563
2/2/1990 15:00	2/2/07 15:00	525.6	104.479
2/2/1990 16:00	2/2/07 16:00	484.2	27.579
2/2/1990 17:00	2/2/07 17:00	520.2	0
2/2/1990 18:00	2/2/07 18:00	505.8	0
2/2/1990 19:00	2/2/07 19:00	491.4	0
2/2/1990 20:00	2/2/07 20:00	491.4	0
2/2/1990 21:00	2/2/07 21:00	479.7	0
2/2/1990 22:00	2/2/07 22:00	346.5	0
2/2/1990 23:00	2/2/07 23:00	342.9	0
3/2/1990 0:00	2/3/07 0:00	341.1	0
3/2/1990 1:00	2/3/07 1:00	331.2	0
3/2/1990 2:00	2/3/07 2:00	306	0
3/2/1990 3:00	2/3/07 3:00	298.8	0

3/2/1990 4:00	2/3/07 4:00	287.1	0
3/2/1990 5:00	2/3/07 5:00	274.5	0
3/2/1990 6:00	2/3/07 6:00	277.2	0
3/2/1990 7:00	2/3/07 7:00	229.5	0.5635
3/2/1990 8:00	2/3/07 8:00	360	142.592
3/2/1990 9:00	2/3/07 9:00	427.5	333.229
3/2/1990 10:00	2/3/07 10:00	441.9	419.894
3/2/1990 11:00	2/3/07 11:00	432	536.85
3/2/1990 12:00	2/3/07 12:00	422.1	424.712
3/2/1990 13:00	2/3/07 13:00	385.2	266.471
3/2/1990 14:00	2/3/07 14:00	368.1	369.837
3/2/1990 15:00	2/3/07 15:00	352.8	195.702
3/2/1990 16:00	2/3/07 16:00	258.3	100.669
3/2/1990 17:00	2/3/07 17:00	320.4	0
3/2/1990 18:00	2/3/07 18:00	320.4	0
3/2/1990 19:00	2/3/07 19:00	325.8	0
3/2/1990 20:00	2/3/07 20:00	289.8	0
3/2/1990 21:00	2/3/07 21:00	279.9	0
3/2/1990 22:00	2/3/07 22:00	276.3	0
3/2/1990 23:00	2/3/07 23:00	272.7	0
4/2/1990 0:00	2/4/07 0:00	270.9	0
4/2/1990 1:00	2/4/07 1:00	271.8	0
4/2/1990 2:00	2/4/07 2:00	272.7	0
4/2/1990 3:00	2/4/07 3:00	273.6	0
4/2/1990 4:00	2/4/07 4:00	274.5	0
4/2/1990 5:00	2/4/07 5:00	308.7	0
4/2/1990 6:00	2/4/07 6:00	381.6	0
4/2/1990 7:00	2/4/07 7:00	204.3	8.577
4/2/1990 8:00	2/4/07 8:00	192.6	227.343
4/2/1990 9:00	2/4/07 9:00	207	401.245
4/2/1990 10:00	2/4/07 10:00	216	539.027
4/2/1990 11:00	2/4/07 11:00	216	657.341
4/2/1990 12:00	2/4/07 12:00	219.6	590.039
4/2/1990 13:00	2/4/07 13:00	210.6	554.124
4/2/1990 14:00	2/4/07 14:00	197.1	498.786
4/2/1990 15:00	2/4/07 15:00	193.5	347.762
4/2/1990 16:00	2/4/07 16:00	191.7	141.301
4/2/1990 17:00	2/4/07 17:00	261.9	0
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5/2/1990 5:00	2/5/07 5:00	332.1	0
5/2/1990 6:00	2/5/07 6:00	455.4	0
5/2/1990 7:00	2/5/07 7:00	454.5	3.559
5/2/1990 8:00	2/5/07 8:00	552.6	150.524
5/2/1990 9:00	2/5/07 9:00	616.5	288.499
5/2/1990 10:00	2/5/07 10:00	625.5	428.367
5/2/1990 11:00	2/5/07 11:00	626.4	560.75
5/2/1990 12:00	2/5/07 12:00	604.8	441.617
5/2/1990 13:00	2/5/07 13:00	594.9	458.774
5/2/1990 14:00	2/5/07 14:00	585.9	339.402
5/2/1990 15:00	2/5/07 15:00	568.8	137.084
5/2/1990 16:00	2/5/07 16:00	542.7	96.297
5/2/1990 17:00	2/5/07 17:00	585.9	0
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6/2/1990 10:00	2/6/07 10:00	597.6	220.72
6/2/1990 11:00	2/6/07 11:00	619.2	214.811
6/2/1990 12:00	2/6/07 12:00	597.6	202.262
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6/2/1990 19:00	2/6/07 19:00	558	0
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6/2/1990 21:00	2/6/07 21:00	483.3	0
6/2/1990 22:00	2/6/07 22:00	322.2	0
6/2/1990 23:00	2/6/07 23:00	301.5	0
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7/2/1990 1:00	2/7/07 1:00	297.9	0

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7/2/1990 6:00	2/7/07 6:00	436.5	0
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7/2/1990 8:00	2/7/07 8:00	522	46.116
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7/2/1990 13:00	2/7/07 13:00	585	459.059
7/2/1990 14:00	2/7/07 14:00	572.4	390.921
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7/2/1990 16:00	2/7/07 16:00	530.1	42.936
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7/2/1990 18:00	2/7/07 18:00	576	0
7/2/1990 19:00	2/7/07 19:00	555.3	0
7/2/1990 20:00	2/7/07 20:00	521.1	0
7/2/1990 21:00	2/7/07 21:00	485.1	0
7/2/1990 22:00	2/7/07 22:00	330.3	0
7/2/1990 23:00	2/7/07 23:00	306	0
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8/2/1990 1:00	2/8/07 1:00	315.9	0
8/2/1990 2:00	2/8/07 2:00	324	0
8/2/1990 3:00	2/8/07 3:00	309.6	0
8/2/1990 4:00	2/8/07 4:00	303.3	0
8/2/1990 5:00	2/8/07 5:00	346.5	0
8/2/1990 6:00	2/8/07 6:00	441	0
8/2/1990 7:00	2/8/07 7:00	421.2	0
8/2/1990 8:00	2/8/07 8:00	510.3	13.976
8/2/1990 9:00	2/8/07 9:00	574.2	44.774
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8/2/1990 11:00	2/8/07 11:00	597.6	78.684
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8/2/1990 13:00	2/8/07 13:00	596.7	152.235
8/2/1990 14:00	2/8/07 14:00	596.7	150.659
8/2/1990 15:00	2/8/07 15:00	577.8	112.049
8/2/1990 16:00	2/8/07 16:00	549	26.022
8/2/1990 17:00	2/8/07 17:00	585	0
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8/2/1990 19:00	2/8/07 19:00	567	0
8/2/1990 20:00	2/8/07 20:00	558	0
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8/2/1990 22:00	2/8/07 22:00	335.7	0
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9/2/1990 1:00	2/9/07 1:00	312.3	0
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9/2/1990 8:00	2/9/07 8:00	513.9	80.03
9/2/1990 9:00	2/9/07 9:00	552.6	153.439
9/2/1990 10:00	2/9/07 10:00	570.6	306.757
9/2/1990 11:00	2/9/07 11:00	574.2	477.753
9/2/1990 12:00	2/9/07 12:00	581.4	504.28
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9/2/1990 14:00	2/9/07 14:00	573.3	366.748
9/2/1990 15:00	2/9/07 15:00	534.6	196.811
9/2/1990 16:00	2/9/07 16:00	489.6	104.096
9/2/1990 17:00	2/9/07 17:00	526.5	0
9/2/1990 18:00	2/9/07 18:00	513.9	0
9/2/1990 19:00	2/9/07 19:00	502.2	0
9/2/1990 20:00	2/9/07 20:00	504	0
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9/2/1990 22:00	2/9/07 22:00	343.8	0
9/2/1990 23:00	2/9/07 23:00	319.5	0
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10/2/1990 3:00	2/10/07 3:00	324.9	0
10/2/1990 4:00	2/10/07 4:00	321.3	0
10/2/1990 5:00	2/10/07 5:00	297.9	0
10/2/1990 6:00	2/10/07 6:00	286.2	0
10/2/1990 7:00	2/10/07 7:00	240.3	0
10/2/1990 8:00	2/10/07 8:00	381.6	0
10/2/1990 9:00	2/10/07 9:00	416.7	24.083
10/2/1990 10:00	2/10/07 10:00	421.2	122.914
10/2/1990 11:00	2/10/07 11:00	424.8	29.579
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10/2/1990 15:00	2/10/07 15:00	380.7	0.8424
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10/2/1990 18:00	2/10/07 18:00	342	0
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10/2/1990 20:00	2/10/07 20:00	300.6	0
10/2/1990 21:00	2/10/07 21:00	289.8	0
10/2/1990 22:00	2/10/07 22:00	288.9	0
10/2/1990 23:00	2/10/07 23:00	288	0

11/2/1990 0:00	2/11/07 0:00	290.7	0
11/2/1990 1:00	2/11/07 1:00	293.4	0
11/2/1990 2:00	2/11/07 2:00	294.3	0
11/2/1990 3:00	2/11/07 3:00	293.4	0
11/2/1990 4:00	2/11/07 4:00	296.1	0
11/2/1990 5:00	2/11/07 5:00	331.2	0
11/2/1990 6:00	2/11/07 6:00	401.4	0
11/2/1990 7:00	2/11/07 7:00	224.1	19.7318
11/2/1990 8:00	2/11/07 8:00	216	154.056
11/2/1990 9:00	2/11/07 9:00	223.2	332.81
11/2/1990 10:00	2/11/07 10:00	226.8	418.263
11/2/1990 11:00	2/11/07 11:00	226.8	491.557
11/2/1990 12:00	2/11/07 12:00	225.9	516.256
11/2/1990 13:00	2/11/07 13:00	230.4	296.802
11/2/1990 14:00	2/11/07 14:00	225.9	233.379
11/2/1990 15:00	2/11/07 15:00	222.3	195.317
11/2/1990 16:00	2/11/07 16:00	213.3	115.925
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11/2/1990 20:00	2/11/07 20:00	266.4	0
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12/2/1990 4:00	2/12/07 4:00	268.2	0
12/2/1990 5:00	2/12/07 5:00	324	0
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12/2/1990 7:00	2/12/07 7:00	441.9	16.794
12/2/1990 8:00	2/12/07 8:00	565.2	147.3
12/2/1990 9:00	2/12/07 9:00	590.4	315.033
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12/2/1990 11:00	2/12/07 11:00	588.6	418.483
12/2/1990 12:00	2/12/07 12:00	592.2	494.166
12/2/1990 13:00	2/12/07 13:00	601.2	535.558
12/2/1990 14:00	2/12/07 14:00	595.8	396.078
12/2/1990 15:00	2/12/07 15:00	580.5	222.81
12/2/1990 16:00	2/12/07 16:00	562.5	131.259
12/2/1990 17:00	2/12/07 17:00	604.8	0
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12/2/1990 19:00	2/12/07 19:00	574.2	0
12/2/1990 20:00	2/12/07 20:00	537.3	0
12/2/1990 21:00	2/12/07 21:00	495.9	0
12/2/1990 22:00	2/12/07 22:00	341.1	0

12/2/1990 23:00	2/12/07 23:00	333	0
13/02/90 00:00	2/13/07 0:00	330.3	0
13/02/90 01:00	2/13/07 1:00	329.4	0
13/02/90 02:00	2/13/07 2:00	328.5	0
13/02/90 03:00	2/13/07 3:00	314.1	0
13/02/90 04:00	2/13/07 4:00	310.5	0
13/02/90 05:00	2/13/07 5:00	362.7	0
13/02/90 06:00	2/13/07 6:00	463.5	0
13/02/90 07:00	2/13/07 7:00	461.7	26.6352
13/02/90 08:00	2/13/07 8:00	540	187.688
13/02/90 09:00	2/13/07 9:00	607.5	415.586
13/02/90 10:00	2/13/07 10:00	617.4	489.629
13/02/90 11:00	2/13/07 11:00	625.5	491.591
13/02/90 12:00	2/13/07 12:00	620.1	572.828
13/02/90 13:00	2/13/07 13:00	613.8	592.776
13/02/90 14:00	2/13/07 14:00	603.9	503.965
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13/02/90 17:00	2/13/07 17:00	606.6	3.2834
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13/02/90 21:00	2/13/07 21:00	512.1	0
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14/02/90 05:00	2/14/07 5:00	364.5	0
14/02/90 06:00	2/14/07 6:00	476.1	0
14/02/90 07:00	2/14/07 7:00	471.6	28.534
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14/02/90 09:00	2/14/07 9:00	612	398.543
14/02/90 10:00	2/14/07 10:00	637.2	499.278
14/02/90 11:00	2/14/07 11:00	638.1	602.135
14/02/90 12:00	2/14/07 12:00	607.5	630.242
14/02/90 13:00	2/14/07 13:00	580.5	575.632
14/02/90 14:00	2/14/07 14:00	579.6	481.759
14/02/90 15:00	2/14/07 15:00	560.7	307.713
14/02/90 16:00	2/14/07 16:00	536.4	224.399
14/02/90 17:00	2/14/07 17:00	599.4	0
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14/02/90 20:00	2/14/07 20:00	569.7	0
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14/02/90 22:00	2/14/07 22:00	336.6	0
14/02/90 23:00	2/14/07 23:00	314.1	0
15/02/90 00:00	2/15/07 0:00	322.2	0
15/02/90 01:00	2/15/07 1:00	324	0
15/02/90 02:00	2/15/07 2:00	325.8	0
15/02/90 03:00	2/15/07 3:00	312.3	0
15/02/90 04:00	2/15/07 4:00	307.8	0
15/02/90 05:00	2/15/07 5:00	355.5	0
15/02/90 06:00	2/15/07 6:00	461.7	0
15/02/90 07:00	2/15/07 7:00	459.9	34.326
15/02/90 08:00	2/15/07 8:00	549	198.603
15/02/90 09:00	2/15/07 9:00	587.7	396.792
15/02/90 10:00	2/15/07 10:00	581.4	466.805
15/02/90 11:00	2/15/07 11:00	592.2	539.846
15/02/90 12:00	2/15/07 12:00	601.2	533.972
15/02/90 13:00	2/15/07 13:00	594	562.661
15/02/90 14:00	2/15/07 14:00	577.8	355.034
15/02/90 15:00	2/15/07 15:00	559.8	240.381
15/02/90 16:00	2/15/07 16:00	522	163.276
15/02/90 17:00	2/15/07 17:00	576.9	8.318
15/02/90 18:00	2/15/07 18:00	594.9	0
15/02/90 19:00	2/15/07 19:00	585	0
15/02/90 20:00	2/15/07 20:00	567	0
15/02/90 21:00	2/15/07 21:00	511.2	0
15/02/90 22:00	2/15/07 22:00	329.4	0
15/02/90 23:00	2/15/07 23:00	322.2	0
16/02/90 00:00	2/16/07 0:00	324.9	0
16/02/90 01:00	2/16/07 1:00	320.4	0
16/02/90 02:00	2/16/07 2:00	311.4	0
16/02/90 03:00	2/16/07 3:00	297.9	0
16/02/90 04:00	2/16/07 4:00	297	0
16/02/90 05:00	2/16/07 5:00	349.2	0
16/02/90 06:00	2/16/07 6:00	447.3	0
16/02/90 07:00	2/16/07 7:00	380.7	24.072
16/02/90 08:00	2/16/07 8:00	381.6	173.729
16/02/90 09:00	2/16/07 9:00	374.4	296.753
16/02/90 10:00	2/16/07 10:00	370.8	377.134
16/02/90 11:00	2/16/07 11:00	371.7	467.621
16/02/90 12:00	2/16/07 12:00	367.2	597.593
16/02/90 13:00	2/16/07 13:00	364.5	517.329
16/02/90 14:00	2/16/07 14:00	364.5	417.301
16/02/90 15:00	2/16/07 15:00	368.1	194.548
16/02/90 16:00	2/16/07 16:00	368.1	70.912
16/02/90 17:00	2/16/07 17:00	422.1	6.845
16/02/90 18:00	2/16/07 18:00	432.9	0
16/02/90 19:00	2/16/07 19:00	423	0
16/02/90 20:00	2/16/07 20:00	418.5	0

16/02/90 21:00	2/16/07 21:00	412.2	0
16/02/90 22:00	2/16/07 22:00	274.5	0
16/02/90 23:00	2/16/07 23:00	263.7	0
17/02/90 00:00	2/17/07 0:00	266.4	0
17/02/90 01:00	2/17/07 1:00	256.5	0
17/02/90 02:00	2/17/07 2:00	261.9	0
17/02/90 03:00	2/17/07 3:00	260.1	0
17/02/90 04:00	2/17/07 4:00	262.8	0
17/02/90 05:00	2/17/07 5:00	261	0
17/02/90 06:00	2/17/07 6:00	262.8	0
17/02/90 07:00	2/17/07 7:00	225	25.438
17/02/90 08:00	2/17/07 8:00	358.2	191.154
17/02/90 09:00	2/17/07 9:00	385.2	367.538
17/02/90 10:00	2/17/07 10:00	388.8	511.716
17/02/90 11:00	2/17/07 11:00	382.5	528.72
17/02/90 12:00	2/17/07 12:00	381.6	499.309
17/02/90 13:00	2/17/07 13:00	355.5	437.583
17/02/90 14:00	2/17/07 14:00	359.1	377.506
17/02/90 15:00	2/17/07 15:00	347.4	380.427
17/02/90 16:00	2/17/07 16:00	243	208.591
17/02/90 17:00	2/17/07 17:00	304.2	13.983
17/02/90 18:00	2/17/07 18:00	311.4	0
17/02/90 19:00	2/17/07 19:00	296.1	0
17/02/90 20:00	2/17/07 20:00	262.8	0
17/02/90 21:00	2/17/07 21:00	251.1	0
17/02/90 22:00	2/17/07 22:00	248.4	0
17/02/90 23:00	2/17/07 23:00	251.1	0
18/02/90 00:00	2/18/07 0:00	251.1	0
18/02/90 01:00	2/18/07 1:00	255.6	0
18/02/90 02:00	2/18/07 2:00	259.2	0
18/02/90 03:00	2/18/07 3:00	255.6	0
18/02/90 04:00	2/18/07 4:00	257.4	0
18/02/90 05:00	2/18/07 5:00	295.2	0
18/02/90 06:00	2/18/07 6:00	365.4	0
18/02/90 07:00	2/18/07 7:00	194.4	40.0628
18/02/90 08:00	2/18/07 8:00	181.8	204.907
18/02/90 09:00	2/18/07 9:00	180	437.016
18/02/90 10:00	2/18/07 10:00	178.2	410.025
18/02/90 11:00	2/18/07 11:00	174.6	573.546
18/02/90 12:00	2/18/07 12:00	176.4	557.003
18/02/90 13:00	2/18/07 13:00	175.5	559.539
18/02/90 14:00	2/18/07 14:00	177.3	496.812
18/02/90 15:00	2/18/07 15:00	174.6	344.148
18/02/90 16:00	2/18/07 16:00	179.1	96.331
18/02/90 17:00	2/18/07 17:00	246.6	17.696
18/02/90 18:00	2/18/07 18:00	256.5	0
18/02/90 19:00	2/18/07 19:00	256.5	0

18/02/90 20:00	2/18/07 20:00	263.7	0
18/02/90 21:00	2/18/07 21:00	261	0
18/02/90 22:00	2/18/07 22:00	261.9	0
18/02/90 23:00	2/18/07 23:00	263.7	0
19/02/90 00:00	2/19/07 0:00	255.6	0
19/02/90 01:00	2/19/07 1:00	256.5	0
19/02/90 02:00	2/19/07 2:00	258.3	0
19/02/90 03:00	2/19/07 3:00	256.5	0
19/02/90 04:00	2/19/07 4:00	257.4	0
19/02/90 05:00	2/19/07 5:00	313.2	0
19/02/90 06:00	2/19/07 6:00	417.6	0
19/02/90 07:00	2/19/07 7:00	349.2	45.09
19/02/90 08:00	2/19/07 8:00	340.2	192.909
19/02/90 09:00	2/19/07 9:00	332.1	412.059
19/02/90 10:00	2/19/07 10:00	327.6	574.665
19/02/90 11:00	2/19/07 11:00	326.7	627.291
19/02/90 12:00	2/19/07 12:00	323.1	658.105
19/02/90 13:00	2/19/07 13:00	323.1	607.896
19/02/90 14:00	2/19/07 14:00	323.1	517.513
19/02/90 15:00	2/19/07 15:00	323.1	351.434
19/02/90 16:00	2/19/07 16:00	317.7	190.166
19/02/90 17:00	2/19/07 17:00	385.2	8.08
19/02/90 18:00	2/19/07 18:00	390.6	0
19/02/90 19:00	2/19/07 19:00	391.5	0
19/02/90 20:00	2/19/07 20:00	400.5	0
19/02/90 21:00	2/19/07 21:00	393.3	0
19/02/90 22:00	2/19/07 22:00	254.7	0
19/02/90 23:00	2/19/07 23:00	244.8	0
20/02/90 00:00	2/20/07 0:00	249.3	0
20/02/90 01:00	2/20/07 1:00	249.3	0
20/02/90 02:00	2/20/07 2:00	249.3	0
20/02/90 03:00	2/20/07 3:00	247.5	0
20/02/90 04:00	2/20/07 4:00	246.6	0
20/02/90 05:00	2/20/07 5:00	299.7	0
20/02/90 06:00	2/20/07 6:00	422.1	0
20/02/90 07:00	2/20/07 7:00	417.6	50.66
20/02/90 08:00	2/20/07 8:00	526.5	150.858
20/02/90 09:00	2/20/07 9:00	591.3	341.264
20/02/90 10:00	2/20/07 10:00	608.4	512.595
20/02/90 11:00	2/20/07 11:00	621	622.778
20/02/90 12:00	2/20/07 12:00	613.8	643.27
20/02/90 13:00	2/20/07 13:00	619.2	599.64
20/02/90 14:00	2/20/07 14:00	603	496.96
20/02/90 15:00	2/20/07 15:00	575.1	426.617
20/02/90 16:00	2/20/07 16:00	548.1	219.796
20/02/90 17:00	2/20/07 17:00	596.7	12.868
20/02/90 18:00	2/20/07 18:00	599.4	0

20/02/90 19:00	2/20/07 19:00	582.3	0
20/02/90 20:00	2/20/07 20:00	563.4	0
20/02/90 21:00	2/20/07 21:00	508.5	0
20/02/90 22:00	2/20/07 22:00	340.2	0
20/02/90 23:00	2/20/07 23:00	319.5	0
21/02/90 00:00	2/21/07 0:00	306	0
21/02/90 01:00	2/21/07 1:00	306	0
21/02/90 02:00	2/21/07 2:00	309.6	0
21/02/90 03:00	2/21/07 3:00	306	0
21/02/90 04:00	2/21/07 4:00	300.6	0
21/02/90 05:00	2/21/07 5:00	337.5	0
21/02/90 06:00	2/21/07 6:00	445.5	0
21/02/90 07:00	2/21/07 7:00	435.6	57.81
21/02/90 08:00	2/21/07 8:00	530.1	230.163
21/02/90 09:00	2/21/07 9:00	570.6	468.641
21/02/90 10:00	2/21/07 10:00	575.1	554.151
21/02/90 11:00	2/21/07 11:00	595.8	604.051
21/02/90 12:00	2/21/07 12:00	595.8	480.125
21/02/90 13:00	2/21/07 13:00	610.2	594.387
21/02/90 14:00	2/21/07 14:00	603	498.529
21/02/90 15:00	2/21/07 15:00	572.4	360.368
21/02/90 16:00	2/21/07 16:00	538.2	167.591
21/02/90 17:00	2/21/07 17:00	560.7	24.519
21/02/90 18:00	2/21/07 18:00	551.7	0
21/02/90 19:00	2/21/07 19:00	544.5	0
21/02/90 20:00	2/21/07 20:00	525.6	0
21/02/90 21:00	2/21/07 21:00	486.9	0
21/02/90 22:00	2/21/07 22:00	331.2	0
21/02/90 23:00	2/21/07 23:00	301.5	0
22/02/90 00:00	2/22/07 0:00	302.4	0
22/02/90 01:00	2/22/07 1:00	304.2	0
22/02/90 02:00	2/22/07 2:00	301.5	0
22/02/90 03:00	2/22/07 3:00	305.1	0
22/02/90 04:00	2/22/07 4:00	299.7	0
22/02/90 05:00	2/22/07 5:00	349.2	0
22/02/90 06:00	2/22/07 6:00	450	0
22/02/90 07:00	2/22/07 7:00	444.6	17.123
22/02/90 08:00	2/22/07 8:00	535.5	266.865
22/02/90 09:00	2/22/07 9:00	591.3	327.916
22/02/90 10:00	2/22/07 10:00	600.3	498.624
22/02/90 11:00	2/22/07 11:00	610.2	276.97
22/02/90 12:00	2/22/07 12:00	610.2	461.244
22/02/90 13:00	2/22/07 13:00	600.3	465.218
22/02/90 14:00	2/22/07 14:00	594.9	210.686
22/02/90 15:00	2/22/07 15:00	566.1	334.492
22/02/90 16:00	2/22/07 16:00	506.7	172.065
22/02/90 17:00	2/22/07 17:00	551.7	0

22/02/90 18:00	2/22/07 18:00	568.8	0
22/02/90 19:00	2/22/07 19:00	376.2	0
22/02/90 20:00	2/22/07 20:00	0	0
22/02/90 21:00	2/22/07 21:00	0	0
22/02/90 22:00	2/22/07 22:00	0	0
22/02/90 23:00	2/22/07 23:00	0	0
23/02/90 00:00	2/23/07 0:00	81.9	0
23/02/90 01:00	2/23/07 1:00	305.1	0
23/02/90 02:00	2/23/07 2:00	287.1	0
23/02/90 03:00	2/23/07 3:00	293.4	0
23/02/90 04:00	2/23/07 4:00	279.9	0
23/02/90 05:00	2/23/07 5:00	320.4	0
23/02/90 06:00	2/23/07 6:00	435.6	0
23/02/90 07:00	2/23/07 7:00	475.2	65.155
23/02/90 08:00	2/23/07 8:00	556.2	167.643
23/02/90 09:00	2/23/07 9:00	592.2	340.694
23/02/90 10:00	2/23/07 10:00	586.8	518.021
23/02/90 11:00	2/23/07 11:00	573.3	568.462
23/02/90 12:00	2/23/07 12:00	578.7	599.968
23/02/90 13:00	2/23/07 13:00	572.4	658.81
23/02/90 14:00	2/23/07 14:00	547.2	423.831
23/02/90 15:00	2/23/07 15:00	503.1	339.32
23/02/90 16:00	2/23/07 16:00	448.2	136.757
23/02/90 17:00	2/23/07 17:00	504.9	34.401
23/02/90 18:00	2/23/07 18:00	489.6	0
23/02/90 19:00	2/23/07 19:00	485.1	0
23/02/90 20:00	2/23/07 20:00	481.5	0
23/02/90 21:00	2/23/07 21:00	466.2	0
23/02/90 22:00	2/23/07 22:00	331.2	0
23/02/90 23:00	2/23/07 23:00	308.7	0
24/02/90 00:00	2/24/07 0:00	318.6	0
24/02/90 01:00	2/24/07 1:00	308.7	0
24/02/90 02:00	2/24/07 2:00	310.5	0
24/02/90 03:00	2/24/07 3:00	308.7	0
24/02/90 04:00	2/24/07 4:00	302.4	0
24/02/90 05:00	2/24/07 5:00	289.8	0
24/02/90 06:00	2/24/07 6:00	278.1	0
24/02/90 07:00	2/24/07 7:00	222.3	57.48
24/02/90 08:00	2/24/07 8:00	349.2	206.136
24/02/90 09:00	2/24/07 9:00	390.6	292.4
24/02/90 10:00	2/24/07 10:00	396	453.84
24/02/90 11:00	2/24/07 11:00	401.4	529.25
24/02/90 12:00	2/24/07 12:00	393.3	659.82
24/02/90 13:00	2/24/07 13:00	368.1	566.526
24/02/90 14:00	2/24/07 14:00	356.4	569.435
24/02/90 15:00	2/24/07 15:00	330.3	232.103
24/02/90 16:00	2/24/07 16:00	231.3	169.54

24/02/90 17:00	2/24/07 17:00	298.8	42.492
24/02/90 18:00	2/24/07 18:00	306	0
24/02/90 19:00	2/24/07 19:00	311.4	0
24/02/90 20:00	2/24/07 20:00	275.4	0
24/02/90 21:00	2/24/07 21:00	262.8	0
24/02/90 22:00	2/24/07 22:00	261.9	0
24/02/90 23:00	2/24/07 23:00	261.9	0
25/02/90 00:00	2/25/07 0:00	266.4	0
25/02/90 01:00	2/25/07 1:00	261.9	0
25/02/90 02:00	2/25/07 2:00	263.7	0
25/02/90 03:00	2/25/07 3:00	263.7	0
25/02/90 04:00	2/25/07 4:00	265.5	0
25/02/90 05:00	2/25/07 5:00	297	0
25/02/90 06:00	2/25/07 6:00	379.8	0
25/02/90 07:00	2/25/07 7:00	202.5	53.675
25/02/90 08:00	2/25/07 8:00	184.5	196.824
25/02/90 09:00	2/25/07 9:00	182.7	384.892
25/02/90 10:00	2/25/07 10:00	184.5	585.625
25/02/90 11:00	2/25/07 11:00	185.4	677.132
25/02/90 12:00	2/25/07 12:00	184.5	681.9
25/02/90 13:00	2/25/07 13:00	183.6	647.475
25/02/90 14:00	2/25/07 14:00	180.9	511.13
25/02/90 15:00	2/25/07 15:00	173.7	366.848
25/02/90 16:00	2/25/07 16:00	166.5	242.136
25/02/90 17:00	2/25/07 17:00	234	48.768
25/02/90 18:00	2/25/07 18:00	245.7	0
25/02/90 19:00	2/25/07 19:00	246.6	0
25/02/90 20:00	2/25/07 20:00	247.5	0
25/02/90 21:00	2/25/07 21:00	246.6	0
25/02/90 22:00	2/25/07 22:00	248.4	0
25/02/90 23:00	2/25/07 23:00	248.4	0
26/02/90 00:00	2/26/07 0:00	248.4	0
26/02/90 01:00	2/26/07 1:00	250.2	0
26/02/90 02:00	2/26/07 2:00	249.3	0
26/02/90 03:00	2/26/07 3:00	250.2	0
26/02/90 04:00	2/26/07 4:00	247.5	0
26/02/90 05:00	2/26/07 5:00	301.5	0
26/02/90 06:00	2/26/07 6:00	440.1	0
26/02/90 07:00	2/26/07 7:00	448.2	76.968
26/02/90 08:00	2/26/07 8:00	563.4	307.955
26/02/90 09:00	2/26/07 9:00	634.5	439.003
26/02/90 10:00	2/26/07 10:00	635.4	588.027
26/02/90 11:00	2/26/07 11:00	630	549.35
26/02/90 12:00	2/26/07 12:00	629.1	590.929
26/02/90 13:00	2/26/07 13:00	609.3	612.798
26/02/90 14:00	2/26/07 14:00	612.9	531.78
26/02/90 15:00	2/26/07 15:00	587.7	401.671

26/02/90 16:00	2/26/07 16:00	527.4	252.666
26/02/90 17:00	2/26/07 17:00	553.5	42.165
26/02/90 18:00	2/26/07 18:00	548.1	0
26/02/90 19:00	2/26/07 19:00	524.7	0
26/02/90 20:00	2/26/07 20:00	513	0
26/02/90 21:00	2/26/07 21:00	471.6	0
26/02/90 22:00	2/26/07 22:00	324	0
26/02/90 23:00	2/26/07 23:00	304.2	0
27/02/90 00:00	2/27/07 0:00	304.2	0
27/02/90 01:00	2/27/07 1:00	302.4	0
27/02/90 02:00	2/27/07 2:00	307.8	0
27/02/90 03:00	2/27/07 3:00	304.2	0
27/02/90 04:00	2/27/07 4:00	299.7	0
27/02/90 05:00	2/27/07 5:00	329.4	0
27/02/90 06:00	2/27/07 6:00	445.5	0
27/02/90 07:00	2/27/07 7:00	433.8	0
27/02/90 08:00	2/27/07 8:00	521.1	62.256
27/02/90 09:00	2/27/07 9:00	612	137.048
27/02/90 10:00	2/27/07 10:00	616.5	151.414
27/02/90 11:00	2/27/07 11:00	631.8	335.212
27/02/90 12:00	2/27/07 12:00	629.1	302.353
27/02/90 13:00	2/27/07 13:00	604.8	70.255
27/02/90 14:00	2/27/07 14:00	607.5	140.719
27/02/90 15:00	2/27/07 15:00	594	47.023
27/02/90 16:00	2/27/07 16:00	541.8	7.532
27/02/90 17:00	2/27/07 17:00	593.1	0
27/02/90 18:00	2/27/07 18:00	589.5	0
27/02/90 19:00	2/27/07 19:00	555.3	0
27/02/90 20:00	2/27/07 20:00	524.7	0
27/02/90 21:00	2/27/07 21:00	472.5	0
27/02/90 22:00	2/27/07 22:00	323.1	0
27/02/90 23:00	2/27/07 23:00	306.9	0
28/02/90 00:00	2/28/07 0:00	297.9	0
28/02/90 01:00	2/28/07 1:00	300.6	0
28/02/90 02:00	2/28/07 2:00	306	0
28/02/90 03:00	2/28/07 3:00	302.4	0
28/02/90 04:00	2/28/07 4:00	302.4	0
28/02/90 05:00	2/28/07 5:00	327.6	0
28/02/90 06:00	2/28/07 6:00	441.9	0
28/02/90 07:00	2/28/07 7:00	417.6	95.394
28/02/90 08:00	2/28/07 8:00	454.5	318.558
28/02/90 09:00	2/28/07 9:00	471.6	482.544
28/02/90 10:00	2/28/07 10:00	476.1	627.099
28/02/90 11:00	2/28/07 11:00	503.1	674.198
28/02/90 12:00	2/28/07 12:00	495.9	699.865
28/02/90 13:00	2/28/07 13:00	486.9	691.387
28/02/90 14:00	2/28/07 14:00	477	580.372

28/02/90 15:00	2/28/07 15:00	450	413.54
28/02/90 16:00	2/28/07 16:00	419.4	253.716
28/02/90 17:00	2/28/07 17:00	467.1	54.468
28/02/90 18:00	2/28/07 18:00	459.9	0
28/02/90 19:00	2/28/07 19:00	453.6	0
28/02/90 20:00	2/28/07 20:00	453.6	0
28/02/90 21:00	2/28/07 21:00	438.3	0
28/02/90 22:00	2/28/07 22:00	308.7	0
28/02/90 23:00	2/28/07 23:00	305.1	0
1/3/1990 0:00	3/1/07 0:00	306.9	0
1/3/1990 1:00	3/1/07 1:00	309.6	0
1/3/1990 2:00	3/1/07 2:00	315	0
1/3/1990 3:00	3/1/07 3:00	323.1	0
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1/3/1990 10:00	3/1/07 10:00	617.4	76.363
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2/3/1990 11:00	3/2/07 11:00	551.7	362.419
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6/3/1990 11:00	3/6/07 11:00	596.7	664.271

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12/3/1990 13:00	3/12/07 13:00	592.2	564.393
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13/03/90 12:00	3/13/07 12:00	603.9	329.009
13/03/90 13:00	3/13/07 13:00	596.7	278.47
13/03/90 14:00	3/13/07 14:00	601.2	341.512
13/03/90 15:00	3/13/07 15:00	595.8	484.333
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14/03/90 05:00	3/14/07 5:00	336.6	0
14/03/90 06:00	3/14/07 6:00	437.4	0
14/03/90 07:00	3/14/07 7:00	436.5	163.088

14/03/90 08:00	3/14/07 8:00	516.6	384.329
14/03/90 09:00	3/14/07 9:00	575.1	559.772
14/03/90 10:00	3/14/07 10:00	591.3	694.227
14/03/90 11:00	3/14/07 11:00	597.6	763.395
14/03/90 12:00	3/14/07 12:00	597.6	785.13
14/03/90 13:00	3/14/07 13:00	590.4	742.92
14/03/90 14:00	3/14/07 14:00	576.9	645.767
14/03/90 15:00	3/14/07 15:00	564.3	492.617
14/03/90 16:00	3/14/07 16:00	540	251.568
14/03/90 17:00	3/14/07 17:00	502.2	99.251
14/03/90 18:00	3/14/07 18:00	475.2	0
14/03/90 19:00	3/14/07 19:00	532.8	0
14/03/90 20:00	3/14/07 20:00	504.9	0
14/03/90 21:00	3/14/07 21:00	452.7	0
14/03/90 22:00	3/14/07 22:00	297.9	0
14/03/90 23:00	3/14/07 23:00	293.4	0
15/03/90 00:00	3/15/07 0:00	290.7	0
15/03/90 01:00	3/15/07 1:00	284.4	0
15/03/90 02:00	3/15/07 2:00	276.3	0
15/03/90 03:00	3/15/07 3:00	289.8	0
15/03/90 04:00	3/15/07 4:00	288.9	0
15/03/90 05:00	3/15/07 5:00	326.7	0
15/03/90 06:00	3/15/07 6:00	432	0
15/03/90 07:00	3/15/07 7:00	430.2	142.325
15/03/90 08:00	3/15/07 8:00	511.2	390.612
15/03/90 09:00	3/15/07 9:00	606.6	510.851
15/03/90 10:00	3/15/07 10:00	613.8	608.315
15/03/90 11:00	3/15/07 11:00	606.6	693.101
15/03/90 12:00	3/15/07 12:00	602.1	735.666
15/03/90 13:00	3/15/07 13:00	596.7	689.66
15/03/90 14:00	3/15/07 14:00	592.2	595.663
15/03/90 15:00	3/15/07 15:00	572.4	470.755
15/03/90 16:00	3/15/07 16:00	543.6	312.919
15/03/90 17:00	3/15/07 17:00	490.5	37.831
15/03/90 18:00	3/15/07 18:00	469.8	0
15/03/90 19:00	3/15/07 19:00	532.8	0
15/03/90 20:00	3/15/07 20:00	529.2	0
15/03/90 21:00	3/15/07 21:00	486.9	0
15/03/90 22:00	3/15/07 22:00	338.4	0
15/03/90 23:00	3/15/07 23:00	318.6	0
16/03/90 00:00	3/16/07 0:00	315.9	0
16/03/90 01:00	3/16/07 1:00	319.5	0
16/03/90 02:00	3/16/07 2:00	307.8	0
16/03/90 03:00	3/16/07 3:00	306	0
16/03/90 04:00	3/16/07 4:00	311.4	0
16/03/90 05:00	3/16/07 5:00	356.4	0
16/03/90 06:00	3/16/07 6:00	450.9	0

16/03/90 07:00	3/16/07 7:00	457.2	149.444
16/03/90 08:00	3/16/07 8:00	520.2	311.715
16/03/90 09:00	3/16/07 9:00	565.2	613.911
16/03/90 10:00	3/16/07 10:00	574.2	721.147
16/03/90 11:00	3/16/07 11:00	585.9	787.992
16/03/90 12:00	3/16/07 12:00	583.2	789.625
16/03/90 13:00	3/16/07 13:00	566.1	747.619
16/03/90 14:00	3/16/07 14:00	561.6	656.717
16/03/90 15:00	3/16/07 15:00	549.9	500.456
16/03/90 16:00	3/16/07 16:00	511.2	303.021
16/03/90 17:00	3/16/07 17:00	439.2	97.448
16/03/90 18:00	3/16/07 18:00	413.1	0
16/03/90 19:00	3/16/07 19:00	459	0
16/03/90 20:00	3/16/07 20:00	447.3	0
16/03/90 21:00	3/16/07 21:00	443.7	0
16/03/90 22:00	3/16/07 22:00	296.1	0
16/03/90 23:00	3/16/07 23:00	297.9	0
17/03/90 00:00	3/17/07 0:00	301.5	0
17/03/90 01:00	3/17/07 1:00	293.4	0
17/03/90 02:00	3/17/07 2:00	288.9	0
17/03/90 03:00	3/17/07 3:00	288.9	0
17/03/90 04:00	3/17/07 4:00	290.7	0
17/03/90 05:00	3/17/07 5:00	278.1	0
17/03/90 06:00	3/17/07 6:00	260.1	1.36282
17/03/90 07:00	3/17/07 7:00	232.2	155.516
17/03/90 08:00	3/17/07 8:00	371.7	356.501
17/03/90 09:00	3/17/07 9:00	415.8	510.803
17/03/90 10:00	3/17/07 10:00	412.2	662.655
17/03/90 11:00	3/17/07 11:00	411.3	743.016
17/03/90 12:00	3/17/07 12:00	407.7	766.359
17/03/90 13:00	3/17/07 13:00	398.7	721.389
17/03/90 14:00	3/17/07 14:00	398.7	593.604
17/03/90 15:00	3/17/07 15:00	378.9	464.147
17/03/90 16:00	3/17/07 16:00	270	315.889
17/03/90 17:00	3/17/07 17:00	252	93.023
17/03/90 18:00	3/17/07 18:00	242.1	0
17/03/90 19:00	3/17/07 19:00	308.7	0
17/03/90 20:00	3/17/07 20:00	276.3	0
17/03/90 21:00	3/17/07 21:00	274.5	0
17/03/90 22:00	3/17/07 22:00	276.3	0
17/03/90 23:00	3/17/07 23:00	274.5	0
18/03/90 00:00	3/18/07 0:00	277.2	0
18/03/90 01:00	3/18/07 1:00	279	0
18/03/90 02:00	3/18/07 2:00	278.1	0
18/03/90 03:00	3/18/07 3:00	280.8	0
18/03/90 04:00	3/18/07 4:00	282.6	0
18/03/90 05:00	3/18/07 5:00	316.8	0

18/03/90 06:00	3/18/07 6:00	388.8	0
18/03/90 07:00	3/18/07 7:00	237.6	108.505
18/03/90 08:00	3/18/07 8:00	210.6	303.34
18/03/90 09:00	3/18/07 9:00	214.2	524.057
18/03/90 10:00	3/18/07 10:00	218.7	592.488
18/03/90 11:00	3/18/07 11:00	216.9	657.823
18/03/90 12:00	3/18/07 12:00	211.5	636.882
18/03/90 13:00	3/18/07 13:00	220.5	452.485
18/03/90 14:00	3/18/07 14:00	217.8	396.783
18/03/90 15:00	3/18/07 15:00	216	359.932
18/03/90 16:00	3/18/07 16:00	202.5	151.404
18/03/90 17:00	3/18/07 17:00	182.7	48.927
18/03/90 18:00	3/18/07 18:00	178.2	0
18/03/90 19:00	3/18/07 19:00	247.5	0
18/03/90 20:00	3/18/07 20:00	254.7	0
18/03/90 21:00	3/18/07 21:00	261	0
18/03/90 22:00	3/18/07 22:00	259.2	0
18/03/90 23:00	3/18/07 23:00	258.3	0
19/03/90 00:00	3/19/07 0:00	263.7	0
19/03/90 01:00	3/19/07 1:00	262.8	0
19/03/90 02:00	3/19/07 2:00	260.1	0
19/03/90 03:00	3/19/07 3:00	261	0
19/03/90 04:00	3/19/07 4:00	262.8	0
19/03/90 05:00	3/19/07 5:00	324	0
19/03/90 06:00	3/19/07 6:00	432.9	0
19/03/90 07:00	3/19/07 7:00	451.8	150.402
19/03/90 08:00	3/19/07 8:00	553.5	309.138
19/03/90 09:00	3/19/07 9:00	599.4	367.848
19/03/90 10:00	3/19/07 10:00	612	563.656
19/03/90 11:00	3/19/07 11:00	609.3	688.861
19/03/90 12:00	3/19/07 12:00	598.5	513.697
19/03/90 13:00	3/19/07 13:00	593.1	472.627
19/03/90 14:00	3/19/07 14:00	598.5	373.86
19/03/90 15:00	3/19/07 15:00	598.5	374.951
19/03/90 16:00	3/19/07 16:00	578.7	168.773
19/03/90 17:00	3/19/07 17:00	544.5	50.805
19/03/90 18:00	3/19/07 18:00	524.7	0
19/03/90 19:00	3/19/07 19:00	557.1	0
19/03/90 20:00	3/19/07 20:00	522.9	0
19/03/90 21:00	3/19/07 21:00	483.3	0
19/03/90 22:00	3/19/07 22:00	329.4	0
19/03/90 23:00	3/19/07 23:00	310.5	0
20/03/90 00:00	3/20/07 0:00	308.7	0
20/03/90 01:00	3/20/07 1:00	299.7	0
20/03/90 02:00	3/20/07 2:00	306	0
20/03/90 03:00	3/20/07 3:00	305.1	0
20/03/90 04:00	3/20/07 4:00	303.3	0

20/03/90 05:00	3/20/07 5:00	350.1	0
20/03/90 06:00	3/20/07 6:00	442.8	0
20/03/90 07:00	3/20/07 7:00	441.9	124.767
20/03/90 08:00	3/20/07 8:00	531.9	282.283
20/03/90 09:00	3/20/07 9:00	605.7	450.212
20/03/90 10:00	3/20/07 10:00	632.7	541.971
20/03/90 11:00	3/20/07 11:00	636.3	630.208
20/03/90 12:00	3/20/07 12:00	627.3	595.386
20/03/90 13:00	3/20/07 13:00	633.6	466.319
20/03/90 14:00	3/20/07 14:00	629.1	519.992
20/03/90 15:00	3/20/07 15:00	616.5	402.144
20/03/90 16:00	3/20/07 16:00	585	294.999
20/03/90 17:00	3/20/07 17:00	542.7	90.626
20/03/90 18:00	3/20/07 18:00	516.6	0
20/03/90 19:00	3/20/07 19:00	534.6	0
20/03/90 20:00	3/20/07 20:00	517.5	0
20/03/90 21:00	3/20/07 21:00	467.1	0
20/03/90 22:00	3/20/07 22:00	308.7	0
20/03/90 23:00	3/20/07 23:00	299.7	0
21/03/90 00:00	3/21/07 0:00	303.3	0
21/03/90 01:00	3/21/07 1:00	301.5	0
21/03/90 02:00	3/21/07 2:00	297	0
21/03/90 03:00	3/21/07 3:00	302.4	0
21/03/90 04:00	3/21/07 4:00	296.1	0
21/03/90 05:00	3/21/07 5:00	351	0
21/03/90 06:00	3/21/07 6:00	442.8	0
21/03/90 07:00	3/21/07 7:00	450	133.302
21/03/90 08:00	3/21/07 8:00	539.1	345.641
21/03/90 09:00	3/21/07 9:00	587.7	522.237
21/03/90 10:00	3/21/07 10:00	603.9	654.561
21/03/90 11:00	3/21/07 11:00	621	648.398
21/03/90 12:00	3/21/07 12:00	624.6	701.498
21/03/90 13:00	3/21/07 13:00	612	620.509
21/03/90 14:00	3/21/07 14:00	595.8	588.291
21/03/90 15:00	3/21/07 15:00	590.4	425.311
21/03/90 16:00	3/21/07 16:00	569.7	271.903
21/03/90 17:00	3/21/07 17:00	528.3	74.845
21/03/90 18:00	3/21/07 18:00	515.7	0
21/03/90 19:00	3/21/07 19:00	523.8	0
21/03/90 20:00	3/21/07 20:00	495	0
21/03/90 21:00	3/21/07 21:00	450	0
21/03/90 22:00	3/21/07 22:00	315	0
21/03/90 23:00	3/21/07 23:00	304.2	0
22/03/90 00:00	3/22/07 0:00	302.4	0
22/03/90 01:00	3/22/07 1:00	295.2	0
22/03/90 02:00	3/22/07 2:00	300.6	0
22/03/90 03:00	3/22/07 3:00	301.5	0

22/03/90 04:00	3/22/07 4:00	299.7	0
22/03/90 05:00	3/22/07 5:00	349.2	0
22/03/90 06:00	3/22/07 6:00	441	0
22/03/90 07:00	3/22/07 7:00	430.2	198.08
22/03/90 08:00	3/22/07 8:00	518.4	320.557
22/03/90 09:00	3/22/07 9:00	592.2	459.525
22/03/90 10:00	3/22/07 10:00	611.1	664.176
22/03/90 11:00	3/22/07 11:00	621.9	656.778
22/03/90 12:00	3/22/07 12:00	604.8	795.359
22/03/90 13:00	3/22/07 13:00	594.9	534.23
22/03/90 14:00	3/22/07 14:00	585	499.354
22/03/90 15:00	3/22/07 15:00	569.7	389.805
22/03/90 16:00	3/22/07 16:00	542.7	209.577
22/03/90 17:00	3/22/07 17:00	504	65.909
22/03/90 18:00	3/22/07 18:00	487.8	0
22/03/90 19:00	3/22/07 19:00	536.4	0
22/03/90 20:00	3/22/07 20:00	526.5	0
22/03/90 21:00	3/22/07 21:00	487.8	0
22/03/90 22:00	3/22/07 22:00	334.8	0
22/03/90 23:00	3/22/07 23:00	322.2	0
23/03/90 00:00	3/23/07 0:00	317.7	0
23/03/90 01:00	3/23/07 1:00	319.5	0
23/03/90 02:00	3/23/07 2:00	313.2	0
23/03/90 03:00	3/23/07 3:00	324.9	0
23/03/90 04:00	3/23/07 4:00	323.1	0
23/03/90 05:00	3/23/07 5:00	370.8	0
23/03/90 06:00	3/23/07 6:00	450.9	1.5534
23/03/90 07:00	3/23/07 7:00	449.1	133.545
23/03/90 08:00	3/23/07 8:00	526.5	280.629
23/03/90 09:00	3/23/07 9:00	566.1	502.404
23/03/90 10:00	3/23/07 10:00	578.7	683.615
23/03/90 11:00	3/23/07 11:00	588.6	759.242
23/03/90 12:00	3/23/07 12:00	593.1	732.653
23/03/90 13:00	3/23/07 13:00	603	747.891
23/03/90 14:00	3/23/07 14:00	594	658.178
23/03/90 15:00	3/23/07 15:00	563.4	395.621
23/03/90 16:00	3/23/07 16:00	516.6	236.873
23/03/90 17:00	3/23/07 17:00	446.4	91.463
23/03/90 18:00	3/23/07 18:00	432.9	0
23/03/90 19:00	3/23/07 19:00	491.4	0
23/03/90 20:00	3/23/07 20:00	480.6	0
23/03/90 21:00	3/23/07 21:00	463.5	0
23/03/90 22:00	3/23/07 22:00	320.4	0
23/03/90 23:00	3/23/07 23:00	323.1	0
24/03/90 00:00	3/24/07 0:00	320.4	0
24/03/90 01:00	3/24/07 1:00	314.1	0
24/03/90 02:00	3/24/07 2:00	306	0

24/03/90 03:00	3/24/07 3:00	309.6	0
24/03/90 04:00	3/24/07 4:00	297	0
24/03/90 05:00	3/24/07 5:00	288.9	0
24/03/90 06:00	3/24/07 6:00	261	5.1611
24/03/90 07:00	3/24/07 7:00	242.1	115.023
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24/03/90 09:00	3/24/07 9:00	422.1	483.6
24/03/90 10:00	3/24/07 10:00	427.5	619.919
24/03/90 11:00	3/24/07 11:00	429.3	535.121
24/03/90 12:00	3/24/07 12:00	422.1	614.894
24/03/90 13:00	3/24/07 13:00	397.8	500.21
24/03/90 14:00	3/24/07 14:00	385.2	434.477
24/03/90 15:00	3/24/07 15:00	362.7	494.274
24/03/90 16:00	3/24/07 16:00	248.4	347.64
24/03/90 17:00	3/24/07 17:00	243	103.463
24/03/90 18:00	3/24/07 18:00	238.5	0
24/03/90 19:00	3/24/07 19:00	310.5	0
24/03/90 20:00	3/24/07 20:00	280.8	0
24/03/90 21:00	3/24/07 21:00	280.8	0
24/03/90 22:00	3/24/07 22:00	276.3	0
24/03/90 23:00	3/24/07 23:00	275.4	0
25/03/90 00:00	3/25/07 0:00	275.4	0
25/03/90 01:00	3/25/07 1:00	279.9	0
25/03/90 02:00	3/25/07 2:00	279.9	0
25/03/90 03:00	3/25/07 3:00	281.7	0
25/03/90 04:00	3/25/07 4:00	279.9	0
25/03/90 05:00	3/25/07 5:00	324.9	0
25/03/90 06:00	3/25/07 6:00	387	7.4862
25/03/90 07:00	3/25/07 7:00	224.1	165.04
25/03/90 08:00	3/25/07 8:00	200.7	364.988
25/03/90 09:00	3/25/07 9:00	203.4	533.022
25/03/90 10:00	3/25/07 10:00	209.7	629.71
25/03/90 11:00	3/25/07 11:00	203.4	730.084
25/03/90 12:00	3/25/07 12:00	194.4	792.148
25/03/90 13:00	3/25/07 13:00	189.9	702.237
25/03/90 14:00	3/25/07 14:00	189	622.801
25/03/90 15:00	3/25/07 15:00	183.6	465.22
25/03/90 16:00	3/25/07 16:00	184.5	279.471
25/03/90 17:00	3/25/07 17:00	179.1	112.868
25/03/90 18:00	3/25/07 18:00	180	0
25/03/90 19:00	3/25/07 19:00	250.2	0
25/03/90 20:00	3/25/07 20:00	261	0
25/03/90 21:00	3/25/07 21:00	262.8	0
25/03/90 22:00	3/25/07 22:00	261	0
25/03/90 23:00	3/25/07 23:00	260.1	0
26/03/90 00:00	3/26/07 0:00	261	0
26/03/90 01:00	3/26/07 1:00	261.9	0

26/03/90 02:00	3/26/07 2:00	261.9	0
26/03/90 03:00	3/26/07 3:00	261.9	0
26/03/90 04:00	3/26/07 4:00	261	0
26/03/90 05:00	3/26/07 5:00	326.7	0
26/03/90 06:00	3/26/07 6:00	432.9	6.591
26/03/90 07:00	3/26/07 7:00	453.6	150.681
26/03/90 08:00	3/26/07 8:00	557.1	351.336
26/03/90 09:00	3/26/07 9:00	637.2	564.733
26/03/90 10:00	3/26/07 10:00	627.3	657.847
26/03/90 11:00	3/26/07 11:00	639	732.211
26/03/90 12:00	3/26/07 12:00	645.3	739.598
26/03/90 13:00	3/26/07 13:00	641.7	687.535
26/03/90 14:00	3/26/07 14:00	639	556.954
26/03/90 15:00	3/26/07 15:00	618.3	481.509
26/03/90 16:00	3/26/07 16:00	596.7	309.014
26/03/90 17:00	3/26/07 17:00	538.2	91.619
26/03/90 18:00	3/26/07 18:00	521.1	0
26/03/90 19:00	3/26/07 19:00	569.7	0
26/03/90 20:00	3/26/07 20:00	528.3	0
26/03/90 21:00	3/26/07 21:00	482.4	0
26/03/90 22:00	3/26/07 22:00	315.9	0
26/03/90 23:00	3/26/07 23:00	308.7	0
27/03/90 00:00	3/27/07 0:00	303.3	0
27/03/90 01:00	3/27/07 1:00	306	0
27/03/90 02:00	3/27/07 2:00	311.4	0
27/03/90 03:00	3/27/07 3:00	307.8	0
27/03/90 04:00	3/27/07 4:00	309.6	0
27/03/90 05:00	3/27/07 5:00	369.9	0
27/03/90 06:00	3/27/07 6:00	453.6	4.0649
27/03/90 07:00	3/27/07 7:00	447.3	137.122
27/03/90 08:00	3/27/07 8:00	553.5	300.279
27/03/90 09:00	3/27/07 9:00	642.6	496.424
27/03/90 10:00	3/27/07 10:00	652.5	585.999
27/03/90 11:00	3/27/07 11:00	640.8	545.347
27/03/90 12:00	3/27/07 12:00	625.5	552.056
27/03/90 13:00	3/27/07 13:00	626.4	722.671
27/03/90 14:00	3/27/07 14:00	631.8	635.196
27/03/90 15:00	3/27/07 15:00	614.7	320.886
27/03/90 16:00	3/27/07 16:00	590.4	198.163
27/03/90 17:00	3/27/07 17:00	537.3	56.66
27/03/90 18:00	3/27/07 18:00	528.3	0
27/03/90 19:00	3/27/07 19:00	540.9	0
27/03/90 20:00	3/27/07 20:00	530.1	0
27/03/90 21:00	3/27/07 21:00	486.9	0
27/03/90 22:00	3/27/07 22:00	345.6	0
27/03/90 23:00	3/27/07 23:00	337.5	0
28/03/90 00:00	3/28/07 0:00	326.7	0

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28/03/90 04:00	3/28/07 4:00	325.8	0
28/03/90 05:00	3/28/07 5:00	363.6	0
28/03/90 06:00	3/28/07 6:00	451.8	0
28/03/90 07:00	3/28/07 7:00	466.2	70.321
28/03/90 08:00	3/28/07 8:00	562.5	204.11
28/03/90 09:00	3/28/07 9:00	621	456.01
28/03/90 10:00	3/28/07 10:00	657	602.178
28/03/90 11:00	3/28/07 11:00	652.5	602.14
28/03/90 12:00	3/28/07 12:00	644.4	534.289
28/03/90 13:00	3/28/07 13:00	639	491.075
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28/03/90 16:00	3/28/07 16:00	571.5	182.466
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28/03/90 18:00	3/28/07 18:00	526.5	0
28/03/90 19:00	3/28/07 19:00	585	0
28/03/90 20:00	3/28/07 20:00	554.4	0
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28/03/90 23:00	3/28/07 23:00	330.3	0
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29/03/90 01:00	3/29/07 1:00	328.5	0
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29/03/90 04:00	3/29/07 4:00	312.3	0
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29/03/90 07:00	3/29/07 7:00	456.3	22.153
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29/03/90 09:00	3/29/07 9:00	597.6	214.995
29/03/90 10:00	3/29/07 10:00	598.5	144.713
29/03/90 11:00	3/29/07 11:00	629.1	455.608
29/03/90 12:00	3/29/07 12:00	628.2	466.52
29/03/90 13:00	3/29/07 13:00	605.7	259.531
29/03/90 14:00	3/29/07 14:00	594	228.477
29/03/90 15:00	3/29/07 15:00	605.7	203.566
29/03/90 16:00	3/29/07 16:00	573.3	103.887
29/03/90 17:00	3/29/07 17:00	502.2	36.475
29/03/90 18:00	3/29/07 18:00	504.9	0
29/03/90 19:00	3/29/07 19:00	566.1	0
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29/03/90 21:00	3/29/07 21:00	506.7	0
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29/03/90 23:00	3/29/07 23:00	333	0

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30/03/90 11:00	3/30/07 11:00	540.9	794.753
30/03/90 12:00	3/30/07 12:00	557.1	810.216
30/03/90 13:00	3/30/07 13:00	549	786.385
30/03/90 14:00	3/30/07 14:00	543.6	658.716
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30/03/90 21:00	3/30/07 21:00	446.4	0
30/03/90 22:00	3/30/07 22:00	307.8	0
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31/03/90 08:00	3/31/07 8:00	340.2	369.833
31/03/90 09:00	3/31/07 9:00	376.2	493.179
31/03/90 10:00	3/31/07 10:00	375.3	734.526
31/03/90 11:00	3/31/07 11:00	373.5	650.316
31/03/90 12:00	3/31/07 12:00	372.6	690.202
31/03/90 13:00	3/31/07 13:00	357.3	641.257
31/03/90 14:00	3/31/07 14:00	346.5	489.44
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31/03/90 16:00	3/31/07 16:00	225	200.848
31/03/90 17:00	3/31/07 17:00	224.1	81.475
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31/03/90 19:00	3/31/07 19:00	294.3	0
31/03/90 20:00	3/31/07 20:00	268.2	0
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31/03/90 22:00	3/31/07 22:00	267.3	0

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1/4/1990 5:00	4/1/07 5:00	383.4	0
1/4/1990 6:00	4/1/07 6:00	233.1	27.08265
1/4/1990 7:00	4/1/07 7:00	198	238.447
1/4/1990 8:00	4/1/07 8:00	188.1	418.172
1/4/1990 9:00	4/1/07 9:00	190.8	622.278
1/4/1990 10:00	4/1/07 10:00	205.2	743.873
1/4/1990 11:00	4/1/07 11:00	203.4	799.553
1/4/1990 12:00	4/1/07 12:00	203.4	791.423
1/4/1990 13:00	4/1/07 13:00	198.9	772.823
1/4/1990 14:00	4/1/07 14:00	198	629.473
1/4/1990 15:00	4/1/07 15:00	189.9	506.672
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1/4/1990 17:00	4/1/07 17:00	181.8	100.663
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2/4/1990 4:00	4/2/07 4:00	305.1	0
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2/4/1990 6:00	4/2/07 6:00	390.6	31.04
2/4/1990 7:00	4/2/07 7:00	380.7	276.197
2/4/1990 8:00	4/2/07 8:00	425.7	502.813
2/4/1990 9:00	4/2/07 9:00	450	654.826
2/4/1990 10:00	4/2/07 10:00	461.7	790.358
2/4/1990 11:00	4/2/07 11:00	462.6	857.912
2/4/1990 12:00	4/2/07 12:00	459	853.487
2/4/1990 13:00	4/2/07 13:00	450.9	801.985
2/4/1990 14:00	4/2/07 14:00	453.6	709.773
2/4/1990 15:00	4/2/07 15:00	447.3	543.158
2/4/1990 16:00	4/2/07 16:00	396	288.177
2/4/1990 17:00	4/2/07 17:00	393.3	111.916
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3/4/1990 9:00	4/3/07 9:00	460.8	579.504
3/4/1990 10:00	4/3/07 10:00	457.2	647.562
3/4/1990 11:00	4/3/07 11:00	452.7	728.012
3/4/1990 12:00	4/3/07 12:00	456.3	722.045
3/4/1990 13:00	4/3/07 13:00	458.1	744.26
3/4/1990 14:00	4/3/07 14:00	459.9	639.838
3/4/1990 15:00	4/3/07 15:00	440.1	488.254
3/4/1990 16:00	4/3/07 16:00	396.9	262.399
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4/4/1990 4:00	4/4/07 4:00	279	0
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4/4/1990 6:00	4/4/07 6:00	465.3	27.092
4/4/1990 7:00	4/4/07 7:00	418.5	174.035
4/4/1990 8:00	4/4/07 8:00	428.4	314.069
4/4/1990 9:00	4/4/07 9:00	447.3	584.933
4/4/1990 10:00	4/4/07 10:00	438.3	690.923
4/4/1990 11:00	4/4/07 11:00	445.5	651.163
4/4/1990 12:00	4/4/07 12:00	446.4	703.94
4/4/1990 13:00	4/4/07 13:00	452.7	604.737
4/4/1990 14:00	4/4/07 14:00	453.6	518.732
4/4/1990 15:00	4/4/07 15:00	450	423.911
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4/4/1990 19:00	4/4/07 19:00	423	0
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5/4/1990 5:00	4/5/07 5:00	340.2	0
5/4/1990 6:00	4/5/07 6:00	462.6	41.155
5/4/1990 7:00	4/5/07 7:00	418.5	254.988
5/4/1990 8:00	4/5/07 8:00	424.8	488.066
5/4/1990 9:00	4/5/07 9:00	453.6	690.624
5/4/1990 10:00	4/5/07 10:00	453.6	815.604
5/4/1990 11:00	4/5/07 11:00	459	862.49
5/4/1990 12:00	4/5/07 12:00	461.7	873.488
5/4/1990 13:00	4/5/07 13:00	458.1	819.299
5/4/1990 14:00	4/5/07 14:00	457.2	733.817
5/4/1990 15:00	4/5/07 15:00	446.4	586.927
5/4/1990 16:00	4/5/07 16:00	394.2	363.544
5/4/1990 17:00	4/5/07 17:00	387.9	128.907
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6/4/1990 8:00	4/6/07 8:00	419.4	458.303
6/4/1990 9:00	4/6/07 9:00	446.4	661.665
6/4/1990 10:00	4/6/07 10:00	440.1	784.838
6/4/1990 11:00	4/6/07 11:00	442.8	841.237
6/4/1990 12:00	4/6/07 12:00	431.1	857.358
6/4/1990 13:00	4/6/07 13:00	423	815.051
6/4/1990 14:00	4/6/07 14:00	416.7	698.912
6/4/1990 15:00	4/6/07 15:00	408.6	570.089
6/4/1990 16:00	4/6/07 16:00	359.1	334.353
6/4/1990 17:00	4/6/07 17:00	345.6	150.094
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6/4/1990 23:00	4/6/07 23:00	261.9	0
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7/4/1990 5:00	4/7/07 5:00	271.8	0
7/4/1990 6:00	4/7/07 6:00	260.1	37.966
7/4/1990 7:00	4/7/07 7:00	216.9	233.28
7/4/1990 8:00	4/7/07 8:00	324	475.294
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7/4/1990 10:00	4/7/07 10:00	330.3	768.223
7/4/1990 11:00	4/7/07 11:00	324.9	801.934
7/4/1990 12:00	4/7/07 12:00	325.8	786.562
7/4/1990 13:00	4/7/07 13:00	311.4	746.282
7/4/1990 14:00	4/7/07 14:00	310.5	696.761
7/4/1990 15:00	4/7/07 15:00	308.7	522.305
7/4/1990 16:00	4/7/07 16:00	210.6	315.118
7/4/1990 17:00	4/7/07 17:00	215.1	103.377
7/4/1990 18:00	4/7/07 18:00	215.1	0
7/4/1990 19:00	4/7/07 19:00	281.7	0
7/4/1990 20:00	4/7/07 20:00	260.1	0
7/4/1990 21:00	4/7/07 21:00	259.2	0
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7/4/1990 23:00	4/7/07 23:00	254.7	0
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8/4/1990 5:00	4/8/07 5:00	301.5	0
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8/4/1990 9:00	4/8/07 9:00	176.4	674.887
8/4/1990 10:00	4/8/07 10:00	174.6	752.424
8/4/1990 11:00	4/8/07 11:00	176.4	774.183
8/4/1990 12:00	4/8/07 12:00	173.7	803.593
8/4/1990 13:00	4/8/07 13:00	175.5	724.964
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8/4/1990 15:00	4/8/07 15:00	177.3	514.342
8/4/1990 16:00	4/8/07 16:00	175.5	362.049
8/4/1990 17:00	4/8/07 17:00	173.7	122.788
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8/4/1990 22:00	4/8/07 22:00	252	0
8/4/1990 23:00	4/8/07 23:00	252	0
9/4/1990 0:00	4/9/07 0:00	256.5	0
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9/4/1990 5:00	4/9/07 5:00	324	0
9/4/1990 6:00	4/9/07 6:00	467.1	0
9/4/1990 7:00	4/9/07 7:00	469.8	144.932
9/4/1990 8:00	4/9/07 8:00	545.4	212.369
9/4/1990 9:00	4/9/07 9:00	583.2	11.118
9/4/1990 10:00	4/9/07 10:00	594	417.63
9/4/1990 11:00	4/9/07 11:00	605.7	436.855
9/4/1990 12:00	4/9/07 12:00	602.1	515.687
9/4/1990 13:00	4/9/07 13:00	609.3	200.872
9/4/1990 14:00	4/9/07 14:00	601.2	277.322
9/4/1990 15:00	4/9/07 15:00	594.9	138.7
9/4/1990 16:00	4/9/07 16:00	543.6	34.325
9/4/1990 17:00	4/9/07 17:00	522	50.26
9/4/1990 18:00	4/9/07 18:00	512.1	0
9/4/1990 19:00	4/9/07 19:00	565.2	0
9/4/1990 20:00	4/9/07 20:00	564.3	0
9/4/1990 21:00	4/9/07 21:00	519.3	0
9/4/1990 22:00	4/9/07 22:00	351.9	0
9/4/1990 23:00	4/9/07 23:00	340.2	0
10/4/1990 0:00	4/10/07 0:00	349.2	0
10/4/1990 1:00	4/10/07 1:00	344.7	0
10/4/1990 2:00	4/10/07 2:00	336.6	0
10/4/1990 3:00	4/10/07 3:00	339.3	0
10/4/1990 4:00	4/10/07 4:00	330.3	0
10/4/1990 5:00	4/10/07 5:00	378.9	0
10/4/1990 6:00	4/10/07 6:00	484.2	58.27
10/4/1990 7:00	4/10/07 7:00	468.9	249.092
10/4/1990 8:00	4/10/07 8:00	501.3	474.278
10/4/1990 9:00	4/10/07 9:00	568.8	650.922
10/4/1990 10:00	4/10/07 10:00	601.2	724.568
10/4/1990 11:00	4/10/07 11:00	612.9	809.925
10/4/1990 12:00	4/10/07 12:00	611.1	811.302
10/4/1990 13:00	4/10/07 13:00	588.6	754.037
10/4/1990 14:00	4/10/07 14:00	591.3	643.758
10/4/1990 15:00	4/10/07 15:00	590.4	551.896
10/4/1990 16:00	4/10/07 16:00	538.2	319.813
10/4/1990 17:00	4/10/07 17:00	528.3	141.577

10/4/1990 18:00	4/10/07 18:00	511.2	0
10/4/1990 19:00	4/10/07 19:00	546.3	0
10/4/1990 20:00	4/10/07 20:00	533.7	0
10/4/1990 21:00	4/10/07 21:00	478.8	0
10/4/1990 22:00	4/10/07 22:00	325.8	0
10/4/1990 23:00	4/10/07 23:00	317.7	0
11/4/1990 0:00	4/11/07 0:00	319.5	0
11/4/1990 1:00	4/11/07 1:00	318.6	0
11/4/1990 2:00	4/11/07 2:00	318.6	0
11/4/1990 3:00	4/11/07 3:00	317.7	0
11/4/1990 4:00	4/11/07 4:00	322.2	0
11/4/1990 5:00	4/11/07 5:00	374.4	0
11/4/1990 6:00	4/11/07 6:00	462.6	69.34
11/4/1990 7:00	4/11/07 7:00	447.3	291.065
11/4/1990 8:00	4/11/07 8:00	514.8	445.744
11/4/1990 9:00	4/11/07 9:00	567	596.113
11/4/1990 10:00	4/11/07 10:00	575.1	752.815
11/4/1990 11:00	4/11/07 11:00	598.5	810.739
11/4/1990 12:00	4/11/07 12:00	604.8	810.191
11/4/1990 13:00	4/11/07 13:00	599.4	756.341
11/4/1990 14:00	4/11/07 14:00	586.8	708.026
11/4/1990 15:00	4/11/07 15:00	576.9	557.726
11/4/1990 16:00	4/11/07 16:00	531.9	347.534
11/4/1990 17:00	4/11/07 17:00	498.6	150.176
11/4/1990 18:00	4/11/07 18:00	504	0
11/4/1990 19:00	4/11/07 19:00	538.2	0
11/4/1990 20:00	4/11/07 20:00	529.2	0
11/4/1990 21:00	4/11/07 21:00	489.6	0
11/4/1990 22:00	4/11/07 22:00	345.6	0
11/4/1990 23:00	4/11/07 23:00	340.2	0
12/4/1990 0:00	4/12/07 0:00	334.8	0
12/4/1990 1:00	4/12/07 1:00	340.2	0
12/4/1990 2:00	4/12/07 2:00	341.1	0
12/4/1990 3:00	4/12/07 3:00	351.9	0
12/4/1990 4:00	4/12/07 4:00	348.3	0
12/4/1990 5:00	4/12/07 5:00	401.4	0
12/4/1990 6:00	4/12/07 6:00	504.9	77.88
12/4/1990 7:00	4/12/07 7:00	474.3	314.58
12/4/1990 8:00	4/12/07 8:00	535.5	551.663
12/4/1990 9:00	4/12/07 9:00	593.1	701.158
12/4/1990 10:00	4/12/07 10:00	607.5	826.071
12/4/1990 11:00	4/12/07 11:00	622.8	887.113
12/4/1990 12:00	4/12/07 12:00	597.6	899.445
12/4/1990 13:00	4/12/07 13:00	585.9	842.157
12/4/1990 14:00	4/12/07 14:00	575.1	748.799
12/4/1990 15:00	4/12/07 15:00	557.1	596.76
12/4/1990 16:00	4/12/07 16:00	518.4	350.324

12/4/1990 17:00	4/12/07 17:00	506.7	125.727
12/4/1990 18:00	4/12/07 18:00	503.1	0
12/4/1990 19:00	4/12/07 19:00	545.4	0
12/4/1990 20:00	4/12/07 20:00	549	0
12/4/1990 21:00	4/12/07 21:00	517.5	0
12/4/1990 22:00	4/12/07 22:00	329.4	0
12/4/1990 23:00	4/12/07 23:00	317.7	0
13/04/90 00:00	4/13/07 0:00	320.4	0
13/04/90 01:00	4/13/07 1:00	326.7	0
13/04/90 02:00	4/13/07 2:00	322.2	0
13/04/90 03:00	4/13/07 3:00	328.5	0
13/04/90 04:00	4/13/07 4:00	324.9	0
13/04/90 05:00	4/13/07 5:00	376.2	0
13/04/90 06:00	4/13/07 6:00	464.4	78.949
13/04/90 07:00	4/13/07 7:00	453.6	293.26
13/04/90 08:00	4/13/07 8:00	504	492.75
13/04/90 09:00	4/13/07 9:00	521.1	690.045
13/04/90 10:00	4/13/07 10:00	546.3	769.962
13/04/90 11:00	4/13/07 11:00	563.4	847.741
13/04/90 12:00	4/13/07 12:00	555.3	854.262
13/04/90 13:00	4/13/07 13:00	545.4	786.537
13/04/90 14:00	4/13/07 14:00	540.9	696.024
13/04/90 15:00	4/13/07 15:00	516.6	543.186
13/04/90 16:00	4/13/07 16:00	453.6	367.776
13/04/90 17:00	4/13/07 17:00	428.4	132.697
13/04/90 18:00	4/13/07 18:00	437.4	0
13/04/90 19:00	4/13/07 19:00	493.2	0
13/04/90 20:00	4/13/07 20:00	513.9	0
13/04/90 21:00	4/13/07 21:00	500.4	0
13/04/90 22:00	4/13/07 22:00	342.9	0
13/04/90 23:00	4/13/07 23:00	325.8	0
14/04/90 00:00	4/14/07 0:00	332.1	0
14/04/90 01:00	4/14/07 1:00	345.6	0
14/04/90 02:00	4/14/07 2:00	342	0
14/04/90 03:00	4/14/07 3:00	341.1	0
14/04/90 04:00	4/14/07 4:00	331.2	0
14/04/90 05:00	4/14/07 5:00	316.8	0
14/04/90 06:00	4/14/07 6:00	279.9	27.333
14/04/90 07:00	4/14/07 7:00	230.4	240.395
14/04/90 08:00	4/14/07 8:00	376.2	277.75
14/04/90 09:00	4/14/07 9:00	408.6	471.508
14/04/90 10:00	4/14/07 10:00	411.3	519.582
14/04/90 11:00	4/14/07 11:00	405	551.096
14/04/90 12:00	4/14/07 12:00	397.8	484.403
14/04/90 13:00	4/14/07 13:00	378	673.137
14/04/90 14:00	4/14/07 14:00	375.3	475.78
14/04/90 15:00	4/14/07 15:00	360.9	206.628

14/04/90 16:00	4/14/07 16:00	241.2	135.899
14/04/90 17:00	4/14/07 17:00	234	110.163
14/04/90 18:00	4/14/07 18:00	234.9	0
14/04/90 19:00	4/14/07 19:00	292.5	0
14/04/90 20:00	4/14/07 20:00	277.2	0
14/04/90 21:00	4/14/07 21:00	275.4	0
14/04/90 22:00	4/14/07 22:00	269.1	0
14/04/90 23:00	4/14/07 23:00	270.9	0
15/04/90 00:00	4/15/07 0:00	273.6	0
15/04/90 01:00	4/15/07 1:00	278.1	0
15/04/90 02:00	4/15/07 2:00	276.3	0
15/04/90 03:00	4/15/07 3:00	280.8	0
15/04/90 04:00	4/15/07 4:00	277.2	0
15/04/90 05:00	4/15/07 5:00	315	0
15/04/90 06:00	4/15/07 6:00	381.6	86.379
15/04/90 07:00	4/15/07 7:00	212.4	242.06
15/04/90 08:00	4/15/07 8:00	187.2	452.082
15/04/90 09:00	4/15/07 9:00	183.6	673.002
15/04/90 10:00	4/15/07 10:00	191.7	810.577
15/04/90 11:00	4/15/07 11:00	192.6	860.025
15/04/90 12:00	4/15/07 12:00	194.4	856.554
15/04/90 13:00	4/15/07 13:00	196.2	811.084
15/04/90 14:00	4/15/07 14:00	189.9	720.242
15/04/90 15:00	4/15/07 15:00	186.3	602.347
15/04/90 16:00	4/15/07 16:00	180	381.448
15/04/90 17:00	4/15/07 17:00	180.9	168.03
15/04/90 18:00	4/15/07 18:00	179.1	0
15/04/90 19:00	4/15/07 19:00	244.8	0
15/04/90 20:00	4/15/07 20:00	261	0
15/04/90 21:00	4/15/07 21:00	261	0
15/04/90 22:00	4/15/07 22:00	259.2	0
15/04/90 23:00	4/15/07 23:00	260.1	0
16/04/90 00:00	4/16/07 0:00	262.8	0
16/04/90 01:00	4/16/07 1:00	263.7	0
16/04/90 02:00	4/16/07 2:00	264.6	0
16/04/90 03:00	4/16/07 3:00	263.7	0
16/04/90 04:00	4/16/07 4:00	262.8	0
16/04/90 05:00	4/16/07 5:00	323.1	0
16/04/90 06:00	4/16/07 6:00	450	92.7
16/04/90 07:00	4/16/07 7:00	441	314.113
16/04/90 08:00	4/16/07 8:00	537.3	464.688
16/04/90 09:00	4/16/07 9:00	585.9	634.429
16/04/90 10:00	4/16/07 10:00	602.1	729.472
16/04/90 11:00	4/16/07 11:00	609.3	775.631
16/04/90 12:00	4/16/07 12:00	612.9	808.419
16/04/90 13:00	4/16/07 13:00	613.8	788.886
16/04/90 14:00	4/16/07 14:00	594.9	625.47

16/04/90 15:00	4/16/07 15:00	575.1	536.716
16/04/90 16:00	4/16/07 16:00	521.1	348.877
16/04/90 17:00	4/16/07 17:00	492.3	134.61
16/04/90 18:00	4/16/07 18:00	487.8	0
16/04/90 19:00	4/16/07 19:00	522	0
16/04/90 20:00	4/16/07 20:00	522	0
16/04/90 21:00	4/16/07 21:00	483.3	0
16/04/90 22:00	4/16/07 22:00	333.9	0
16/04/90 23:00	4/16/07 23:00	315	0
17/04/90 00:00	4/17/07 0:00	317.7	0
17/04/90 01:00	4/17/07 1:00	323.1	0
17/04/90 02:00	4/17/07 2:00	324.9	0
17/04/90 03:00	4/17/07 3:00	326.7	0
17/04/90 04:00	4/17/07 4:00	325.8	0
17/04/90 05:00	4/17/07 5:00	376.2	0
17/04/90 06:00	4/17/07 6:00	486.9	45.091
17/04/90 07:00	4/17/07 7:00	461.7	213.819
17/04/90 08:00	4/17/07 8:00	527.4	203.023
17/04/90 09:00	4/17/07 9:00	594.9	459.747
17/04/90 10:00	4/17/07 10:00	608.4	312.854
17/04/90 11:00	4/17/07 11:00	620.1	205.827
17/04/90 12:00	4/17/07 12:00	617.4	267.853
17/04/90 13:00	4/17/07 13:00	610.2	428.384
17/04/90 14:00	4/17/07 14:00	601.2	599.972
17/04/90 15:00	4/17/07 15:00	604.8	322.054
17/04/90 16:00	4/17/07 16:00	534.6	137.5
17/04/90 17:00	4/17/07 17:00	514.8	91.643
17/04/90 18:00	4/17/07 18:00	495.9	0
17/04/90 19:00	4/17/07 19:00	513.9	0
17/04/90 20:00	4/17/07 20:00	520.2	0
17/04/90 21:00	4/17/07 21:00	478.8	0
17/04/90 22:00	4/17/07 22:00	343.8	0
17/04/90 23:00	4/17/07 23:00	347.4	0
18/04/90 00:00	4/18/07 0:00	324.9	0
18/04/90 01:00	4/18/07 1:00	326.7	0
18/04/90 02:00	4/18/07 2:00	315	0
18/04/90 03:00	4/18/07 3:00	314.1	0
18/04/90 04:00	4/18/07 4:00	314.1	0
18/04/90 05:00	4/18/07 5:00	369	0
18/04/90 06:00	4/18/07 6:00	470.7	97.297
18/04/90 07:00	4/18/07 7:00	441	321.048
18/04/90 08:00	4/18/07 8:00	539.1	510.56
18/04/90 09:00	4/18/07 9:00	585.9	606.363
18/04/90 10:00	4/18/07 10:00	589.5	756.849
18/04/90 11:00	4/18/07 11:00	614.7	827.749
18/04/90 12:00	4/18/07 12:00	621.9	824.687
18/04/90 13:00	4/18/07 13:00	609.3	728.272

18/04/90 14:00	4/18/07 14:00	589.5	661.531
18/04/90 15:00	4/18/07 15:00	582.3	486.434
18/04/90 16:00	4/18/07 16:00	517.5	345.456
18/04/90 17:00	4/18/07 17:00	502.2	158.015
18/04/90 18:00	4/18/07 18:00	496.8	0.2354
18/04/90 19:00	4/18/07 19:00	536.4	0
18/04/90 20:00	4/18/07 20:00	537.3	0
18/04/90 21:00	4/18/07 21:00	498.6	0
18/04/90 22:00	4/18/07 22:00	350.1	0
18/04/90 23:00	4/18/07 23:00	345.6	0
19/04/90 00:00	4/19/07 0:00	342.9	0
19/04/90 01:00	4/19/07 1:00	341.1	0
19/04/90 02:00	4/19/07 2:00	332.1	0
19/04/90 03:00	4/19/07 3:00	337.5	0
19/04/90 04:00	4/19/07 4:00	331.2	0
19/04/90 05:00	4/19/07 5:00	381.6	0
19/04/90 06:00	4/19/07 6:00	455.4	97.227
19/04/90 07:00	4/19/07 7:00	448.2	276.655
19/04/90 08:00	4/19/07 8:00	534.6	498.393
19/04/90 09:00	4/19/07 9:00	581.4	691.773
19/04/90 10:00	4/19/07 10:00	594	790.39
19/04/90 11:00	4/19/07 11:00	623.7	843.765
19/04/90 12:00	4/19/07 12:00	610.2	842.249
19/04/90 13:00	4/19/07 13:00	600.3	800.794
19/04/90 14:00	4/19/07 14:00	601.2	730.681
19/04/90 15:00	4/19/07 15:00	577.8	574.795
19/04/90 16:00	4/19/07 16:00	514.8	368.139
19/04/90 17:00	4/19/07 17:00	491.4	176.21
19/04/90 18:00	4/19/07 18:00	483.3	1.034
19/04/90 19:00	4/19/07 19:00	520.2	0
19/04/90 20:00	4/19/07 20:00	526.5	0
19/04/90 21:00	4/19/07 21:00	489.6	0
19/04/90 22:00	4/19/07 22:00	326.7	0
19/04/90 23:00	4/19/07 23:00	313.2	0
20/04/90 00:00	4/20/07 0:00	313.2	0
20/04/90 01:00	4/20/07 1:00	321.3	0
20/04/90 02:00	4/20/07 2:00	320.4	0
20/04/90 03:00	4/20/07 3:00	322.2	0
20/04/90 04:00	4/20/07 4:00	314.1	0
20/04/90 05:00	4/20/07 5:00	368.1	0
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20/04/90 07:00	4/20/07 7:00	432.9	289.408
20/04/90 08:00	4/20/07 8:00	528.3	436.786
20/04/90 09:00	4/20/07 9:00	554.4	633.931
20/04/90 10:00	4/20/07 10:00	561.6	753.684
20/04/90 11:00	4/20/07 11:00	561.6	822.134
20/04/90 12:00	4/20/07 12:00	550.8	779.534

20/04/90 13:00	4/20/07 13:00	558	757.546
20/04/90 14:00	4/20/07 14:00	552.6	604.134
20/04/90 15:00	4/20/07 15:00	524.7	461.154
20/04/90 16:00	4/20/07 16:00	467.1	280.784
20/04/90 17:00	4/20/07 17:00	431.1	167.144
20/04/90 18:00	4/20/07 18:00	431.1	3.078
20/04/90 19:00	4/20/07 19:00	470.7	0
20/04/90 20:00	4/20/07 20:00	465.3	0
20/04/90 21:00	4/20/07 21:00	451.8	0
20/04/90 22:00	4/20/07 22:00	316.8	0
20/04/90 23:00	4/20/07 23:00	310.5	0
21/04/90 00:00	4/21/07 0:00	313.2	0
21/04/90 01:00	4/21/07 1:00	311.4	0
21/04/90 02:00	4/21/07 2:00	303.3	0
21/04/90 03:00	4/21/07 3:00	306	0
21/04/90 04:00	4/21/07 4:00	307.8	0
21/04/90 05:00	4/21/07 5:00	289.8	0
21/04/90 06:00	4/21/07 6:00	243	103.101
21/04/90 07:00	4/21/07 7:00	214.2	244.073
21/04/90 08:00	4/21/07 8:00	337.5	422.508
21/04/90 09:00	4/21/07 9:00	374.4	569.698
21/04/90 10:00	4/21/07 10:00	371.7	720.746
21/04/90 11:00	4/21/07 11:00	376.2	821.257
21/04/90 12:00	4/21/07 12:00	385.2	807.452
21/04/90 13:00	4/21/07 13:00	367.2	737.788
21/04/90 14:00	4/21/07 14:00	354.6	682.767
21/04/90 15:00	4/21/07 15:00	334.8	512.72
21/04/90 16:00	4/21/07 16:00	252.9	294.992
21/04/90 17:00	4/21/07 17:00	245.7	142.292
21/04/90 18:00	4/21/07 18:00	243.9	4.0636
21/04/90 19:00	4/21/07 19:00	291.6	0
21/04/90 20:00	4/21/07 20:00	274.5	0
21/04/90 21:00	4/21/07 21:00	274.5	0
21/04/90 22:00	4/21/07 22:00	268.2	0
21/04/90 23:00	4/21/07 23:00	271.8	0
22/04/90 00:00	4/22/07 0:00	274.5	0
22/04/90 01:00	4/22/07 1:00	277.2	0
22/04/90 02:00	4/22/07 2:00	274.5	0
22/04/90 03:00	4/22/07 3:00	277.2	0
22/04/90 04:00	4/22/07 4:00	276.3	0
22/04/90 05:00	4/22/07 5:00	313.2	0
22/04/90 06:00	4/22/07 6:00	332.1	110.973
22/04/90 07:00	4/22/07 7:00	206.1	271.589
22/04/90 08:00	4/22/07 8:00	203.4	437.599
22/04/90 09:00	4/22/07 9:00	203.4	655.729
22/04/90 10:00	4/22/07 10:00	205.2	747.902
22/04/90 11:00	4/22/07 11:00	205.2	810.043

22/04/90 12:00	4/22/07 12:00	207.9	701.747
22/04/90 13:00	4/22/07 13:00	209.7	704.764
22/04/90 14:00	4/22/07 14:00	206.1	556.806
22/04/90 15:00	4/22/07 15:00	205.2	446.12
22/04/90 16:00	4/22/07 16:00	202.5	210.769
22/04/90 17:00	4/22/07 17:00	202.5	96.739
22/04/90 18:00	4/22/07 18:00	202.5	0
22/04/90 19:00	4/22/07 19:00	251.1	0
22/04/90 20:00	4/22/07 20:00	266.4	0
22/04/90 21:00	4/22/07 21:00	272.7	0
22/04/90 22:00	4/22/07 22:00	267.3	0
22/04/90 23:00	4/22/07 23:00	271.8	0
23/04/90 00:00	4/23/07 0:00	270.9	0
23/04/90 01:00	4/23/07 1:00	276.3	0
23/04/90 02:00	4/23/07 2:00	273.6	0
23/04/90 03:00	4/23/07 3:00	270.9	0
23/04/90 04:00	4/23/07 4:00	273.6	0
23/04/90 05:00	4/23/07 5:00	334.8	0
23/04/90 06:00	4/23/07 6:00	431.1	23.035
23/04/90 07:00	4/23/07 7:00	445.5	87.731
23/04/90 08:00	4/23/07 8:00	549.9	111.293
23/04/90 09:00	4/23/07 9:00	612.9	120.044
23/04/90 10:00	4/23/07 10:00	615.6	251.135
23/04/90 11:00	4/23/07 11:00	612	213.151
23/04/90 12:00	4/23/07 12:00	603.9	279.231
23/04/90 13:00	4/23/07 13:00	591.3	96.156
23/04/90 14:00	4/23/07 14:00	580.5	134.288
23/04/90 15:00	4/23/07 15:00	572.4	29.053
23/04/90 16:00	4/23/07 16:00	512.1	101.153
23/04/90 17:00	4/23/07 17:00	496.8	4.906
23/04/90 18:00	4/23/07 18:00	509.4	0
23/04/90 19:00	4/23/07 19:00	510.3	0
23/04/90 20:00	4/23/07 20:00	495.9	0
23/04/90 21:00	4/23/07 21:00	465.3	0
23/04/90 22:00	4/23/07 22:00	322.2	0
23/04/90 23:00	4/23/07 23:00	314.1	0
24/04/90 00:00	4/24/07 0:00	315	0
24/04/90 01:00	4/24/07 1:00	310.5	0
24/04/90 02:00	4/24/07 2:00	314.1	0
24/04/90 03:00	4/24/07 3:00	311.4	0
24/04/90 04:00	4/24/07 4:00	300.6	0
24/04/90 05:00	4/24/07 5:00	348.3	0
24/04/90 06:00	4/24/07 6:00	434.7	82.762
24/04/90 07:00	4/24/07 7:00	424.8	221.314
24/04/90 08:00	4/24/07 8:00	518.4	362.772
24/04/90 09:00	4/24/07 9:00	592.2	500.173
24/04/90 10:00	4/24/07 10:00	589.5	542.239

24/04/90 11:00	4/24/07 11:00	593.1	622.667
24/04/90 12:00	4/24/07 12:00	601.2	471.487
24/04/90 13:00	4/24/07 13:00	604.8	504.171
24/04/90 14:00	4/24/07 14:00	579.6	493.458
24/04/90 15:00	4/24/07 15:00	576.9	444.453
24/04/90 16:00	4/24/07 16:00	511.2	384.406
24/04/90 17:00	4/24/07 17:00	509.4	153.992
24/04/90 18:00	4/24/07 18:00	498.6	3.6427
24/04/90 19:00	4/24/07 19:00	513.9	0
24/04/90 20:00	4/24/07 20:00	502.2	0
24/04/90 21:00	4/24/07 21:00	456.3	0
24/04/90 22:00	4/24/07 22:00	327.6	0
24/04/90 23:00	4/24/07 23:00	332.1	0
25/04/90 00:00	4/25/07 0:00	318.6	0
25/04/90 01:00	4/25/07 1:00	326.7	0
25/04/90 02:00	4/25/07 2:00	317.7	0
25/04/90 03:00	4/25/07 3:00	323.1	0
25/04/90 04:00	4/25/07 4:00	319.5	0
25/04/90 05:00	4/25/07 5:00	369	0
25/04/90 06:00	4/25/07 6:00	441	79.163
25/04/90 07:00	4/25/07 7:00	433.8	181.39
25/04/90 08:00	4/25/07 8:00	527.4	360.58
25/04/90 09:00	4/25/07 9:00	577.8	398.322
25/04/90 10:00	4/25/07 10:00	595.8	672.38
25/04/90 11:00	4/25/07 11:00	626.4	484.832
25/04/90 12:00	4/25/07 12:00	621	562.316
25/04/90 13:00	4/25/07 13:00	596.7	665.677
25/04/90 14:00	4/25/07 14:00	591.3	662.138
25/04/90 15:00	4/25/07 15:00	576	536.375
25/04/90 16:00	4/25/07 16:00	522	229.86
25/04/90 17:00	4/25/07 17:00	496.8	141.016
25/04/90 18:00	4/25/07 18:00	503.1	6.7153
25/04/90 19:00	4/25/07 19:00	556.2	0
25/04/90 20:00	4/25/07 20:00	543.6	0
25/04/90 21:00	4/25/07 21:00	495.9	0
25/04/90 22:00	4/25/07 22:00	376.2	0
25/04/90 23:00	4/25/07 23:00	364.5	0
26/04/90 00:00	4/26/07 0:00	361.8	0
26/04/90 01:00	4/26/07 1:00	342	0
26/04/90 02:00	4/26/07 2:00	321.3	0
26/04/90 03:00	4/26/07 3:00	324	0
26/04/90 04:00	4/26/07 4:00	315	0
26/04/90 05:00	4/26/07 5:00	356.4	0
26/04/90 06:00	4/26/07 6:00	439.2	121.389
26/04/90 07:00	4/26/07 7:00	410.4	350.314
26/04/90 08:00	4/26/07 8:00	451.8	518.906
26/04/90 09:00	4/26/07 9:00	460.8	622.783

26/04/90 10:00	4/26/07 10:00	453.6	749.203
26/04/90 11:00	4/26/07 11:00	462.6	802.81
26/04/90 12:00	4/26/07 12:00	459.9	818.937
26/04/90 13:00	4/26/07 13:00	454.5	737.58
26/04/90 14:00	4/26/07 14:00	446.4	671.591
26/04/90 15:00	4/26/07 15:00	446.4	551.796
26/04/90 16:00	4/26/07 16:00	394.2	357.174
26/04/90 17:00	4/26/07 17:00	369	181.625
26/04/90 18:00	4/26/07 18:00	374.4	10.321
26/04/90 19:00	4/26/07 19:00	421.2	0
26/04/90 20:00	4/26/07 20:00	446.4	0
26/04/90 21:00	4/26/07 21:00	450	0
26/04/90 22:00	4/26/07 22:00	309.6	0
26/04/90 23:00	4/26/07 23:00	290.7	0
27/04/90 00:00	4/27/07 0:00	293.4	0
27/04/90 01:00	4/27/07 1:00	298.8	0
27/04/90 02:00	4/27/07 2:00	299.7	0
27/04/90 03:00	4/27/07 3:00	300.6	0
27/04/90 04:00	4/27/07 4:00	300.6	0
27/04/90 05:00	4/27/07 5:00	359.1	0
27/04/90 06:00	4/27/07 6:00	441	26.038
27/04/90 07:00	4/27/07 7:00	438.3	46.202
27/04/90 08:00	4/27/07 8:00	505.8	258.979
27/04/90 09:00	4/27/07 9:00	543.6	427.365
27/04/90 10:00	4/27/07 10:00	571.5	406.222
27/04/90 11:00	4/27/07 11:00	578.7	163.674
27/04/90 12:00	4/27/07 12:00	571.5	436.446
27/04/90 13:00	4/27/07 13:00	568.8	541.176
27/04/90 14:00	4/27/07 14:00	561.6	361.385
27/04/90 15:00	4/27/07 15:00	523.8	163.235
27/04/90 16:00	4/27/07 16:00	458.1	94.233
27/04/90 17:00	4/27/07 17:00	432	16.703
27/04/90 18:00	4/27/07 18:00	414.9	0
27/04/90 19:00	4/27/07 19:00	478.8	0
27/04/90 20:00	4/27/07 20:00	467.1	0
27/04/90 21:00	4/27/07 21:00	446.4	0
27/04/90 22:00	4/27/07 22:00	305.1	0
27/04/90 23:00	4/27/07 23:00	300.6	0
28/04/90 00:00	4/28/07 0:00	297	0
28/04/90 01:00	4/28/07 1:00	290.7	0
28/04/90 02:00	4/28/07 2:00	284.4	0
28/04/90 03:00	4/28/07 3:00	278.1	0
28/04/90 04:00	4/28/07 4:00	273.6	0
28/04/90 05:00	4/28/07 5:00	278.1	0
28/04/90 06:00	4/28/07 6:00	240.3	124.128
28/04/90 07:00	4/28/07 7:00	201.6	189.061
28/04/90 08:00	4/28/07 8:00	334.8	314.995

28/04/90 09:00	4/28/07 9:00	368.1	539.385
28/04/90 10:00	4/28/07 10:00	369	721.275
28/04/90 11:00	4/28/07 11:00	372.6	819.309
28/04/90 12:00	4/28/07 12:00	385.2	646.326
28/04/90 13:00	4/28/07 13:00	365.4	736.783
28/04/90 14:00	4/28/07 14:00	357.3	522.484
28/04/90 15:00	4/28/07 15:00	339.3	461.465
28/04/90 16:00	4/28/07 16:00	244.8	288.932
28/04/90 17:00	4/28/07 17:00	241.2	86.732
28/04/90 18:00	4/28/07 18:00	237.6	7.446
28/04/90 19:00	4/28/07 19:00	297	0
28/04/90 20:00	4/28/07 20:00	277.2	0
28/04/90 21:00	4/28/07 21:00	272.7	0
28/04/90 22:00	4/28/07 22:00	265.5	0
28/04/90 23:00	4/28/07 23:00	270	0
29/04/90 00:00	4/29/07 0:00	270	0
29/04/90 01:00	4/29/07 1:00	270.9	0
29/04/90 02:00	4/29/07 2:00	270	0
29/04/90 03:00	4/29/07 3:00	272.7	0
29/04/90 04:00	4/29/07 4:00	271.8	0
29/04/90 05:00	4/29/07 5:00	311.4	3.1136
29/04/90 06:00	4/29/07 6:00	333.9	124.697
29/04/90 07:00	4/29/07 7:00	199.8	373.248
29/04/90 08:00	4/29/07 8:00	195.3	513.025
29/04/90 09:00	4/29/07 9:00	192.6	636.266
29/04/90 10:00	4/29/07 10:00	195.3	746.444
29/04/90 11:00	4/29/07 11:00	189.9	838.872
29/04/90 12:00	4/29/07 12:00	192.6	783.333
29/04/90 13:00	4/29/07 13:00	194.4	791.767
29/04/90 14:00	4/29/07 14:00	190.8	677.444
29/04/90 15:00	4/29/07 15:00	192.6	532.491
29/04/90 16:00	4/29/07 16:00	188.1	350.871
29/04/90 17:00	4/29/07 17:00	187.2	143.94
29/04/90 18:00	4/29/07 18:00	189	11.8927
29/04/90 19:00	4/29/07 19:00	250.2	0
29/04/90 20:00	4/29/07 20:00	267.3	0
29/04/90 21:00	4/29/07 21:00	269.1	0
29/04/90 22:00	4/29/07 22:00	262.8	0
29/04/90 23:00	4/29/07 23:00	266.4	0
30/04/90 00:00	4/30/07 0:00	269.1	0
30/04/90 01:00	4/30/07 1:00	271.8	0
30/04/90 02:00	4/30/07 2:00	268.2	0
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30/04/90 04:00	4/30/07 4:00	270	0
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30/04/90 07:00	4/30/07 7:00	424.8	208.576

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30/04/90 09:00	4/30/07 9:00	563.4	420.867
30/04/90 10:00	4/30/07 10:00	571.5	627.213
30/04/90 11:00	4/30/07 11:00	583.2	643.707
30/04/90 12:00	4/30/07 12:00	590.4	684.838
30/04/90 13:00	4/30/07 13:00	583.2	601.173
30/04/90 14:00	4/30/07 14:00	576	251.349
30/04/90 15:00	4/30/07 15:00	567	232.274
30/04/90 16:00	4/30/07 16:00	504.9	213.153
30/04/90 17:00	4/30/07 17:00	473.4	81.498
30/04/90 18:00	4/30/07 18:00	490.5	9.511
30/04/90 19:00	4/30/07 19:00	523.8	0
30/04/90 20:00	4/30/07 20:00	508.5	0
30/04/90 21:00	4/30/07 21:00	462.6	0
30/04/90 22:00	4/30/07 22:00	322.2	0
30/04/90 23:00	4/30/07 23:00	316.8	0
1/5/1990 0:00	5/1/07 0:00	313.2	0
1/5/1990 1:00	5/1/07 1:00	299.7	0
1/5/1990 2:00	5/1/07 2:00	288	0
1/5/1990 3:00	5/1/07 3:00	287.1	0
1/5/1990 4:00	5/1/07 4:00	288	0
1/5/1990 5:00	5/1/07 5:00	338.4	0
1/5/1990 6:00	5/1/07 6:00	405.9	119.52
1/5/1990 7:00	5/1/07 7:00	388.8	231.823
1/5/1990 8:00	5/1/07 8:00	486.9	437.674
1/5/1990 9:00	5/1/07 9:00	548.1	486.106
1/5/1990 10:00	5/1/07 10:00	564.3	556.426
1/5/1990 11:00	5/1/07 11:00	583.2	690.279
1/5/1990 12:00	5/1/07 12:00	594.9	692.141
1/5/1990 13:00	5/1/07 13:00	594	838.834
1/5/1990 14:00	5/1/07 14:00	572.4	669.478
1/5/1990 15:00	5/1/07 15:00	564.3	483.738
1/5/1990 16:00	5/1/07 16:00	523.8	269.078
1/5/1990 17:00	5/1/07 17:00	505.8	96.746
1/5/1990 18:00	5/1/07 18:00	517.5	0
1/5/1990 19:00	5/1/07 19:00	548.1	0
1/5/1990 20:00	5/1/07 20:00	532.8	0
1/5/1990 21:00	5/1/07 21:00	483.3	0
1/5/1990 22:00	5/1/07 22:00	341.1	0
1/5/1990 23:00	5/1/07 23:00	329.4	0
2/5/1990 0:00	5/2/07 0:00	326.7	0
2/5/1990 1:00	5/2/07 1:00	312.3	0
2/5/1990 2:00	5/2/07 2:00	302.4	0
2/5/1990 3:00	5/2/07 3:00	300.6	0
2/5/1990 4:00	5/2/07 4:00	293.4	0
2/5/1990 5:00	5/2/07 5:00	344.7	0
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2/5/1990 7:00	5/2/07 7:00	440.1	211.404
2/5/1990 8:00	5/2/07 8:00	517.5	379.193
2/5/1990 9:00	5/2/07 9:00	554.4	657.219
2/5/1990 10:00	5/2/07 10:00	562.5	632.435
2/5/1990 11:00	5/2/07 11:00	594	578.765
2/5/1990 12:00	5/2/07 12:00	590.4	424.974
2/5/1990 13:00	5/2/07 13:00	580.5	429.826
2/5/1990 14:00	5/2/07 14:00	567	412.805
2/5/1990 15:00	5/2/07 15:00	558.9	514.635
2/5/1990 16:00	5/2/07 16:00	504	296.591
2/5/1990 17:00	5/2/07 17:00	478.8	157.06
2/5/1990 18:00	5/2/07 18:00	466.2	16.549
2/5/1990 19:00	5/2/07 19:00	515.7	0
2/5/1990 20:00	5/2/07 20:00	503.1	0
2/5/1990 21:00	5/2/07 21:00	457.2	0
2/5/1990 22:00	5/2/07 22:00	342	0
2/5/1990 23:00	5/2/07 23:00	324	0
3/5/1990 0:00	5/3/07 0:00	308.7	0
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3/5/1990 3:00	5/3/07 3:00	307.8	0
3/5/1990 4:00	5/3/07 4:00	299.7	0
3/5/1990 5:00	5/3/07 5:00	351	0
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3/5/1990 7:00	5/3/07 7:00	424.8	273.291
3/5/1990 8:00	5/3/07 8:00	519.3	372.421
3/5/1990 9:00	5/3/07 9:00	576	614.704
3/5/1990 10:00	5/3/07 10:00	594.9	605.184
3/5/1990 11:00	5/3/07 11:00	594	691.953
3/5/1990 12:00	5/3/07 12:00	590.4	733.091
3/5/1990 13:00	5/3/07 13:00	585.9	780.013
3/5/1990 14:00	5/3/07 14:00	567.9	700.335
3/5/1990 15:00	5/3/07 15:00	563.4	452.326
3/5/1990 16:00	5/3/07 16:00	509.4	234.79
3/5/1990 17:00	5/3/07 17:00	482.4	199.329
3/5/1990 18:00	5/3/07 18:00	500.4	14.648
3/5/1990 19:00	5/3/07 19:00	554.4	0
3/5/1990 20:00	5/3/07 20:00	555.3	0
3/5/1990 21:00	5/3/07 21:00	517.5	0
3/5/1990 22:00	5/3/07 22:00	354.6	0
3/5/1990 23:00	5/3/07 23:00	351.9	0
4/5/1990 0:00	5/4/07 0:00	347.4	0
4/5/1990 1:00	5/4/07 1:00	339.3	0
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4/5/1990 3:00	5/4/07 3:00	312.3	0
4/5/1990 4:00	5/4/07 4:00	305.1	0
4/5/1990 5:00	5/4/07 5:00	356.4	0

4/5/1990 6:00	5/4/07 6:00	440.1	17.812
4/5/1990 7:00	5/4/07 7:00	434.7	134.731
4/5/1990 8:00	5/4/07 8:00	521.1	123.917
4/5/1990 9:00	5/4/07 9:00	558	178.025
4/5/1990 10:00	5/4/07 10:00	557.1	492.513
4/5/1990 11:00	5/4/07 11:00	566.1	507.136
4/5/1990 12:00	5/4/07 12:00	579.6	551.363
4/5/1990 13:00	5/4/07 13:00	576	279.824
4/5/1990 14:00	5/4/07 14:00	559.8	305.299
4/5/1990 15:00	5/4/07 15:00	507.6	278.802
4/5/1990 16:00	5/4/07 16:00	461.7	109.115
4/5/1990 17:00	5/4/07 17:00	432	21.029
4/5/1990 18:00	5/4/07 18:00	414	0.476
4/5/1990 19:00	5/4/07 19:00	468	0
4/5/1990 20:00	5/4/07 20:00	474.3	0
4/5/1990 21:00	5/4/07 21:00	470.7	0
4/5/1990 22:00	5/4/07 22:00	330.3	0
4/5/1990 23:00	5/4/07 23:00	332.1	0
5/5/1990 0:00	5/5/07 0:00	326.7	0
5/5/1990 1:00	5/5/07 1:00	312.3	0
5/5/1990 2:00	5/5/07 2:00	300.6	0
5/5/1990 3:00	5/5/07 3:00	293.4	0
5/5/1990 4:00	5/5/07 4:00	295.2	0
5/5/1990 5:00	5/5/07 5:00	294.3	0
5/5/1990 6:00	5/5/07 6:00	248.4	64.464
5/5/1990 7:00	5/5/07 7:00	216	104.898
5/5/1990 8:00	5/5/07 8:00	334.8	65.623
5/5/1990 9:00	5/5/07 9:00	371.7	37.2
5/5/1990 10:00	5/5/07 10:00	364.5	56.481
5/5/1990 11:00	5/5/07 11:00	369	132.981
5/5/1990 12:00	5/5/07 12:00	380.7	310.596
5/5/1990 13:00	5/5/07 13:00	355.5	158.304
5/5/1990 14:00	5/5/07 14:00	337.5	191.325
5/5/1990 15:00	5/5/07 15:00	316.8	114.279
5/5/1990 16:00	5/5/07 16:00	240.3	52.269
5/5/1990 17:00	5/5/07 17:00	244.8	31.038
5/5/1990 18:00	5/5/07 18:00	247.5	0
5/5/1990 19:00	5/5/07 19:00	304.2	0
5/5/1990 20:00	5/5/07 20:00	280.8	0
5/5/1990 21:00	5/5/07 21:00	279	0
5/5/1990 22:00	5/5/07 22:00	273.6	0
5/5/1990 23:00	5/5/07 23:00	277.2	0
6/5/1990 0:00	5/6/07 0:00	271.8	0
6/5/1990 1:00	5/6/07 1:00	273.6	0
6/5/1990 2:00	5/6/07 2:00	270.9	0
6/5/1990 3:00	5/6/07 3:00	271.8	0
6/5/1990 4:00	5/6/07 4:00	272.7	0

6/5/1990 5:00	5/6/07 5:00	307.8	0
6/5/1990 6:00	5/6/07 6:00	333	6.552
6/5/1990 7:00	5/6/07 7:00	194.4	80.21
6/5/1990 8:00	5/6/07 8:00	190.8	135.176
6/5/1990 9:00	5/6/07 9:00	196.2	130.028
6/5/1990 10:00	5/6/07 10:00	198	246.588
6/5/1990 11:00	5/6/07 11:00	197.1	210.844
6/5/1990 12:00	5/6/07 12:00	195.3	294.844
6/5/1990 13:00	5/6/07 13:00	197.1	293.846
6/5/1990 14:00	5/6/07 14:00	200.7	273.83
6/5/1990 15:00	5/6/07 15:00	198.9	73.678
6/5/1990 16:00	5/6/07 16:00	197.1	109.166
6/5/1990 17:00	5/6/07 17:00	199.8	58.319
6/5/1990 18:00	5/6/07 18:00	190.8	0
6/5/1990 19:00	5/6/07 19:00	245.7	0
6/5/1990 20:00	5/6/07 20:00	265.5	0
6/5/1990 21:00	5/6/07 21:00	261.9	0
6/5/1990 22:00	5/6/07 22:00	260.1	0
6/5/1990 23:00	5/6/07 23:00	261.9	0
7/5/1990 0:00	5/7/07 0:00	263.7	0
7/5/1990 1:00	5/7/07 1:00	264.6	0
7/5/1990 2:00	5/7/07 2:00	262.8	0
7/5/1990 3:00	5/7/07 3:00	262.8	0
7/5/1990 4:00	5/7/07 4:00	260.1	0
7/5/1990 5:00	5/7/07 5:00	324.9	0
7/5/1990 6:00	5/7/07 6:00	410.4	146.741
7/5/1990 7:00	5/7/07 7:00	421.2	362.053
7/5/1990 8:00	5/7/07 8:00	522.9	452.11
7/5/1990 9:00	5/7/07 9:00	573.3	591.627
7/5/1990 10:00	5/7/07 10:00	577.8	733.516
7/5/1990 11:00	5/7/07 11:00	583.2	834.358
7/5/1990 12:00	5/7/07 12:00	594	755.443
7/5/1990 13:00	5/7/07 13:00	581.4	711.725
7/5/1990 14:00	5/7/07 14:00	567	620.967
7/5/1990 15:00	5/7/07 15:00	559.8	491.045
7/5/1990 16:00	5/7/07 16:00	507.6	323.411
7/5/1990 17:00	5/7/07 17:00	488.7	184.972
7/5/1990 18:00	5/7/07 18:00	490.5	23.515
7/5/1990 19:00	5/7/07 19:00	516.6	0
7/5/1990 20:00	5/7/07 20:00	500.4	0
7/5/1990 21:00	5/7/07 21:00	477.9	0
7/5/1990 22:00	5/7/07 22:00	327.6	0
7/5/1990 23:00	5/7/07 23:00	314.1	0
8/5/1990 0:00	5/8/07 0:00	300.6	0
8/5/1990 1:00	5/8/07 1:00	295.2	0
8/5/1990 2:00	5/8/07 2:00	285.3	0
8/5/1990 3:00	5/8/07 3:00	280.8	0

8/5/1990 4:00	5/8/07 4:00	286.2	0
8/5/1990 5:00	5/8/07 5:00	341.1	3.1795
8/5/1990 6:00	5/8/07 6:00	411.3	171.937
8/5/1990 7:00	5/8/07 7:00	400.5	279.368
8/5/1990 8:00	5/8/07 8:00	494.1	392.519
8/5/1990 9:00	5/8/07 9:00	556.2	526.76
8/5/1990 10:00	5/8/07 10:00	573.3	488.835
8/5/1990 11:00	5/8/07 11:00	594	669.7
8/5/1990 12:00	5/8/07 12:00	599.4	461.389
8/5/1990 13:00	5/8/07 13:00	593.1	630.323
8/5/1990 14:00	5/8/07 14:00	590.4	343.737
8/5/1990 15:00	5/8/07 15:00	572.4	423.509
8/5/1990 16:00	5/8/07 16:00	517.5	344.958
8/5/1990 17:00	5/8/07 17:00	490.5	119.111
8/5/1990 18:00	5/8/07 18:00	490.5	8.668
8/5/1990 19:00	5/8/07 19:00	528.3	0
8/5/1990 20:00	5/8/07 20:00	513	0
8/5/1990 21:00	5/8/07 21:00	472.5	0
8/5/1990 22:00	5/8/07 22:00	323.1	0
8/5/1990 23:00	5/8/07 23:00	318.6	0
9/5/1990 0:00	5/9/07 0:00	314.1	0
9/5/1990 1:00	5/9/07 1:00	305.1	0
9/5/1990 2:00	5/9/07 2:00	297	0
9/5/1990 3:00	5/9/07 3:00	294.3	0
9/5/1990 4:00	5/9/07 4:00	297.9	0
9/5/1990 5:00	5/9/07 5:00	342.9	3.9697
9/5/1990 6:00	5/9/07 6:00	426.6	155.497
9/5/1990 7:00	5/9/07 7:00	432	389.676
9/5/1990 8:00	5/9/07 8:00	507.6	529.845
9/5/1990 9:00	5/9/07 9:00	548.1	660.762
9/5/1990 10:00	5/9/07 10:00	572.4	795.944
9/5/1990 11:00	5/9/07 11:00	596.7	775.359
9/5/1990 12:00	5/9/07 12:00	592.2	826.288
9/5/1990 13:00	5/9/07 13:00	593.1	749.977
9/5/1990 14:00	5/9/07 14:00	579.6	612.925
9/5/1990 15:00	5/9/07 15:00	573.3	513.244
9/5/1990 16:00	5/9/07 16:00	513.9	292.171
9/5/1990 17:00	5/9/07 17:00	477.9	166.484
9/5/1990 18:00	5/9/07 18:00	458.1	29.203
9/5/1990 19:00	5/9/07 19:00	501.3	0
9/5/1990 20:00	5/9/07 20:00	486.9	0
9/5/1990 21:00	5/9/07 21:00	467.1	0
9/5/1990 22:00	5/9/07 22:00	318.6	0
9/5/1990 23:00	5/9/07 23:00	317.7	0
10/5/1990 0:00	5/10/07 0:00	320.4	0
10/5/1990 1:00	5/10/07 1:00	316.8	0
10/5/1990 2:00	5/10/07 2:00	294.3	0

10/5/1990 3:00	5/10/07 3:00	282.6	0
10/5/1990 4:00	5/10/07 4:00	281.7	0
10/5/1990 5:00	5/10/07 5:00	326.7	5.4757
10/5/1990 6:00	5/10/07 6:00	396	132.821
10/5/1990 7:00	5/10/07 7:00	397.8	362.873
10/5/1990 8:00	5/10/07 8:00	494.1	491.915
10/5/1990 9:00	5/10/07 9:00	546.3	656.172
10/5/1990 10:00	5/10/07 10:00	565.2	703.712
10/5/1990 11:00	5/10/07 11:00	583.2	798.192
10/5/1990 12:00	5/10/07 12:00	580.5	764.081
10/5/1990 13:00	5/10/07 13:00	574.2	738.976
10/5/1990 14:00	5/10/07 14:00	569.7	651.981
10/5/1990 15:00	5/10/07 15:00	554.4	443.047
10/5/1990 16:00	5/10/07 16:00	501.3	447.649
10/5/1990 17:00	5/10/07 17:00	457.2	211.941
10/5/1990 18:00	5/10/07 18:00	442.8	22.702
10/5/1990 19:00	5/10/07 19:00	499.5	0
10/5/1990 20:00	5/10/07 20:00	510.3	0
10/5/1990 21:00	5/10/07 21:00	488.7	0
10/5/1990 22:00	5/10/07 22:00	351.9	0
10/5/1990 23:00	5/10/07 23:00	327.6	0
11/5/1990 0:00	5/11/07 0:00	319.5	0
11/5/1990 1:00	5/11/07 1:00	321.3	0
11/5/1990 2:00	5/11/07 2:00	311.4	0
11/5/1990 3:00	5/11/07 3:00	306.9	0
11/5/1990 4:00	5/11/07 4:00	298.8	0
11/5/1990 5:00	5/11/07 5:00	342.9	1.2577
11/5/1990 6:00	5/11/07 6:00	395.1	73.73
11/5/1990 7:00	5/11/07 7:00	412.2	157.344
11/5/1990 8:00	5/11/07 8:00	498.6	229.608
11/5/1990 9:00	5/11/07 9:00	526.5	372.251
11/5/1990 10:00	5/11/07 10:00	535.5	485.393
11/5/1990 11:00	5/11/07 11:00	531.9	590.102
11/5/1990 12:00	5/11/07 12:00	531.9	568.035
11/5/1990 13:00	5/11/07 13:00	522	680.613
11/5/1990 14:00	5/11/07 14:00	507.6	645.982
11/5/1990 15:00	5/11/07 15:00	514.8	494.168
11/5/1990 16:00	5/11/07 16:00	447.3	328.544
11/5/1990 17:00	5/11/07 17:00	401.4	176.045
11/5/1990 18:00	5/11/07 18:00	394.2	27.971
11/5/1990 19:00	5/11/07 19:00	445.5	0
11/5/1990 20:00	5/11/07 20:00	457.2	0
11/5/1990 21:00	5/11/07 21:00	455.4	0
11/5/1990 22:00	5/11/07 22:00	332.1	0
11/5/1990 23:00	5/11/07 23:00	307.8	0
12/5/1990 0:00	5/12/07 0:00	302.4	0
12/5/1990 1:00	5/12/07 1:00	292.5	0

12/5/1990 2:00	5/12/07 2:00	287.1	0
12/5/1990 3:00	5/12/07 3:00	288.9	0
12/5/1990 4:00	5/12/07 4:00	286.2	0
12/5/1990 5:00	5/12/07 5:00	280.8	5.6218
12/5/1990 6:00	5/12/07 6:00	240.3	153.001
12/5/1990 7:00	5/12/07 7:00	203.4	338.306
12/5/1990 8:00	5/12/07 8:00	346.5	458.422
12/5/1990 9:00	5/12/07 9:00	381.6	588.946
12/5/1990 10:00	5/12/07 10:00	390.6	683.794
12/5/1990 11:00	5/12/07 11:00	386.1	736.663
12/5/1990 12:00	5/12/07 12:00	397.8	778.383
12/5/1990 13:00	5/12/07 13:00	379.8	720.115
12/5/1990 14:00	5/12/07 14:00	370.8	700.494
12/5/1990 15:00	5/12/07 15:00	359.1	545.839
12/5/1990 16:00	5/12/07 16:00	257.4	358.71
12/5/1990 17:00	5/12/07 17:00	252	181.349
12/5/1990 18:00	5/12/07 18:00	246.6	28.476
12/5/1990 19:00	5/12/07 19:00	304.2	0
12/5/1990 20:00	5/12/07 20:00	288	0
12/5/1990 21:00	5/12/07 21:00	286.2	0
12/5/1990 22:00	5/12/07 22:00	283.5	0
12/5/1990 23:00	5/12/07 23:00	273.6	0
13/05/90 00:00	5/13/07 0:00	275.4	0
13/05/90 01:00	5/13/07 1:00	275.4	0
13/05/90 02:00	5/13/07 2:00	276.3	0
13/05/90 03:00	5/13/07 3:00	280.8	0
13/05/90 04:00	5/13/07 4:00	276.3	0
13/05/90 05:00	5/13/07 5:00	313.2	9.121
13/05/90 06:00	5/13/07 6:00	334.8	136.181
13/05/90 07:00	5/13/07 7:00	201.6	331.236
13/05/90 08:00	5/13/07 8:00	190.8	501.128
13/05/90 09:00	5/13/07 9:00	190.8	683.32
13/05/90 10:00	5/13/07 10:00	191.7	763.299
13/05/90 11:00	5/13/07 11:00	192.6	787.779
13/05/90 12:00	5/13/07 12:00	197.1	788.444
13/05/90 13:00	5/13/07 13:00	197.1	793.03
13/05/90 14:00	5/13/07 14:00	196.2	734.23
13/05/90 15:00	5/13/07 15:00	196.2	576.511
13/05/90 16:00	5/13/07 16:00	195.3	403.435
13/05/90 17:00	5/13/07 17:00	184.5	226.875
13/05/90 18:00	5/13/07 18:00	187.2	35.293
13/05/90 19:00	5/13/07 19:00	243	0
13/05/90 20:00	5/13/07 20:00	263.7	0
13/05/90 21:00	5/13/07 21:00	262.8	0
13/05/90 22:00	5/13/07 22:00	261.9	0
13/05/90 23:00	5/13/07 23:00	264.6	0
14/05/90 00:00	5/14/07 0:00	269.1	0

14/05/90 01:00	5/14/07 1:00	271.8	0
14/05/90 02:00	5/14/07 2:00	267.3	0
14/05/90 03:00	5/14/07 3:00	268.2	0
14/05/90 04:00	5/14/07 4:00	267.3	0
14/05/90 05:00	5/14/07 5:00	322.2	9.211
14/05/90 06:00	5/14/07 6:00	400.5	110.499
14/05/90 07:00	5/14/07 7:00	399.6	380.352
14/05/90 08:00	5/14/07 8:00	513	493.385
14/05/90 09:00	5/14/07 9:00	552.6	629.86
14/05/90 10:00	5/14/07 10:00	577.8	767.576
14/05/90 11:00	5/14/07 11:00	583.2	796.257
14/05/90 12:00	5/14/07 12:00	589.5	785.058
14/05/90 13:00	5/14/07 13:00	583.2	732.287
14/05/90 14:00	5/14/07 14:00	569.7	682.18
14/05/90 15:00	5/14/07 15:00	559.8	488.915
14/05/90 16:00	5/14/07 16:00	508.5	405.477
14/05/90 17:00	5/14/07 17:00	479.7	146.045
14/05/90 18:00	5/14/07 18:00	475.2	40.66
14/05/90 19:00	5/14/07 19:00	512.1	0
14/05/90 20:00	5/14/07 20:00	509.4	0
14/05/90 21:00	5/14/07 21:00	459.9	0
14/05/90 22:00	5/14/07 22:00	331.2	0
14/05/90 23:00	5/14/07 23:00	314.1	0
15/05/90 00:00	5/15/07 0:00	304.2	0
15/05/90 01:00	5/15/07 1:00	293.4	0
15/05/90 02:00	5/15/07 2:00	291.6	0
15/05/90 03:00	5/15/07 3:00	290.7	0
15/05/90 04:00	5/15/07 4:00	286.2	0
15/05/90 05:00	5/15/07 5:00	333	10.09
15/05/90 06:00	5/15/07 6:00	414.9	104.083
15/05/90 07:00	5/15/07 7:00	404.1	323.508
15/05/90 08:00	5/15/07 8:00	510.3	524.023
15/05/90 09:00	5/15/07 9:00	583.2	471.071
15/05/90 10:00	5/15/07 10:00	595.8	599.702
15/05/90 11:00	5/15/07 11:00	610.2	744.668
15/05/90 12:00	5/15/07 12:00	606.6	815.12
15/05/90 13:00	5/15/07 13:00	594.9	748.981
15/05/90 14:00	5/15/07 14:00	574.2	698.813
15/05/90 15:00	5/15/07 15:00	565.2	536.576
15/05/90 16:00	5/15/07 16:00	520.2	270.309
15/05/90 17:00	5/15/07 17:00	495	139.74
15/05/90 18:00	5/15/07 18:00	483.3	8.729
15/05/90 19:00	5/15/07 19:00	523.8	0
15/05/90 20:00	5/15/07 20:00	521.1	0
15/05/90 21:00	5/15/07 21:00	477.9	0
15/05/90 22:00	5/15/07 22:00	329.4	0
15/05/90 23:00	5/15/07 23:00	314.1	0

16/05/90 00:00	5/16/07 0:00	304.2	0
16/05/90 01:00	5/16/07 1:00	297	0
16/05/90 02:00	5/16/07 2:00	290.7	0
16/05/90 03:00	5/16/07 3:00	292.5	0
16/05/90 04:00	5/16/07 4:00	290.7	0
16/05/90 05:00	5/16/07 5:00	339.3	8.779
16/05/90 06:00	5/16/07 6:00	427.5	188.636
16/05/90 07:00	5/16/07 7:00	417.6	407.389
16/05/90 08:00	5/16/07 8:00	533.7	603.383
16/05/90 09:00	5/16/07 9:00	566.1	773.345
16/05/90 10:00	5/16/07 10:00	585.9	872.46
16/05/90 11:00	5/16/07 11:00	585	913.642
16/05/90 12:00	5/16/07 12:00	584.1	911.786
16/05/90 13:00	5/16/07 13:00	566.1	853.926
16/05/90 14:00	5/16/07 14:00	567.9	757.323
16/05/90 15:00	5/16/07 15:00	557.1	621.161
16/05/90 16:00	5/16/07 16:00	515.7	421.309
16/05/90 17:00	5/16/07 17:00	498.6	239.509
16/05/90 18:00	5/16/07 18:00	479.7	42.13
16/05/90 19:00	5/16/07 19:00	522	0
16/05/90 20:00	5/16/07 20:00	513.9	0
16/05/90 21:00	5/16/07 21:00	480.6	0
16/05/90 22:00	5/16/07 22:00	342	0
16/05/90 23:00	5/16/07 23:00	323.1	0
17/05/90 00:00	5/17/07 0:00	325.8	0
17/05/90 01:00	5/17/07 1:00	316.8	0
17/05/90 02:00	5/17/07 2:00	314.1	0
17/05/90 03:00	5/17/07 3:00	310.5	0
17/05/90 04:00	5/17/07 4:00	313.2	0
17/05/90 05:00	5/17/07 5:00	363.6	6.198
17/05/90 06:00	5/17/07 6:00	445.5	159.98
17/05/90 07:00	5/17/07 7:00	446.4	415.727
17/05/90 08:00	5/17/07 8:00	540	606.278
17/05/90 09:00	5/17/07 9:00	592.2	772.165
17/05/90 10:00	5/17/07 10:00	604.8	859.698
17/05/90 11:00	5/17/07 11:00	585.9	906.124
17/05/90 12:00	5/17/07 12:00	584.1	901.217
17/05/90 13:00	5/17/07 13:00	573.3	851.86
17/05/90 14:00	5/17/07 14:00	554.4	777.358
17/05/90 15:00	5/17/07 15:00	534.6	624.618
17/05/90 16:00	5/17/07 16:00	494.1	453.377
17/05/90 17:00	5/17/07 17:00	470.7	233.946
17/05/90 18:00	5/17/07 18:00	469.8	44.261
17/05/90 19:00	5/17/07 19:00	523.8	0
17/05/90 20:00	5/17/07 20:00	513.9	0
17/05/90 21:00	5/17/07 21:00	474.3	0
17/05/90 22:00	5/17/07 22:00	324.9	0

17/05/90 23:00	5/17/07 23:00	316.8	0
18/05/90 00:00	5/18/07 0:00	304.2	0
18/05/90 01:00	5/18/07 1:00	298.8	0
18/05/90 02:00	5/18/07 2:00	290.7	0
18/05/90 03:00	5/18/07 3:00	282.6	0
18/05/90 04:00	5/18/07 4:00	276.3	0
18/05/90 05:00	5/18/07 5:00	326.7	12.501
18/05/90 06:00	5/18/07 6:00	396	185.085
18/05/90 07:00	5/18/07 7:00	356.4	428.187
18/05/90 08:00	5/18/07 8:00	375.3	639.979
18/05/90 09:00	5/18/07 9:00	371.7	808.803
18/05/90 10:00	5/18/07 10:00	371.7	906.315
18/05/90 11:00	5/18/07 11:00	359.1	955.351
18/05/90 12:00	5/18/07 12:00	358.2	951.112
18/05/90 13:00	5/18/07 13:00	351	903.406
18/05/90 14:00	5/18/07 14:00	348.3	808.736
18/05/90 15:00	5/18/07 15:00	345.6	661.489
18/05/90 16:00	5/18/07 16:00	321.3	456.72
18/05/90 17:00	5/18/07 17:00	318.6	210.33
18/05/90 18:00	5/18/07 18:00	317.7	46.646
18/05/90 19:00	5/18/07 19:00	377.1	0
18/05/90 20:00	5/18/07 20:00	391.5	0
18/05/90 21:00	5/18/07 21:00	392.4	0
18/05/90 22:00	5/18/07 22:00	268.2	0
18/05/90 23:00	5/18/07 23:00	261	0
19/05/90 00:00	5/19/07 0:00	265.5	0
19/05/90 01:00	5/19/07 1:00	267.3	0
19/05/90 02:00	5/19/07 2:00	264.6	0
19/05/90 03:00	5/19/07 3:00	268.2	0
19/05/90 04:00	5/19/07 4:00	265.5	0
19/05/90 05:00	5/19/07 5:00	263.7	8.3932
19/05/90 06:00	5/19/07 6:00	231.3	197.009
19/05/90 07:00	5/19/07 7:00	201.6	423.911
19/05/90 08:00	5/19/07 8:00	324	631.903
19/05/90 09:00	5/19/07 9:00	349.2	782.138
19/05/90 10:00	5/19/07 10:00	356.4	882.73
19/05/90 11:00	5/19/07 11:00	352.8	924.506
19/05/90 12:00	5/19/07 12:00	350.1	923.146
19/05/90 13:00	5/19/07 13:00	326.7	875.375
19/05/90 14:00	5/19/07 14:00	317.7	788.692
19/05/90 15:00	5/19/07 15:00	312.3	636.872
19/05/90 16:00	5/19/07 16:00	229.5	432.192
19/05/90 17:00	5/19/07 17:00	231.3	216.724
19/05/90 18:00	5/19/07 18:00	228.6	47.693
19/05/90 19:00	5/19/07 19:00	280.8	0
19/05/90 20:00	5/19/07 20:00	269.1	0
19/05/90 21:00	5/19/07 21:00	267.3	0

19/05/90 22:00	5/19/07 22:00	265.5	0
19/05/90 23:00	5/19/07 23:00	265.5	0
20/05/90 00:00	5/20/07 0:00	268.2	0
20/05/90 01:00	5/20/07 1:00	270	0
20/05/90 02:00	5/20/07 2:00	269.1	0
20/05/90 03:00	5/20/07 3:00	270.9	0
20/05/90 04:00	5/20/07 4:00	271.8	0
20/05/90 05:00	5/20/07 5:00	302.4	6.951
20/05/90 06:00	5/20/07 6:00	323.1	185.86
20/05/90 07:00	5/20/07 7:00	191.7	425.715
20/05/90 08:00	5/20/07 8:00	192.6	621.355
20/05/90 09:00	5/20/07 9:00	197.1	761.408
20/05/90 10:00	5/20/07 10:00	196.2	862.813
20/05/90 11:00	5/20/07 11:00	200.7	923.888
20/05/90 12:00	5/20/07 12:00	199.8	907.16
20/05/90 13:00	5/20/07 13:00	199.8	854.494
20/05/90 14:00	5/20/07 14:00	199.8	770.181
20/05/90 15:00	5/20/07 15:00	202.5	655.987
20/05/90 16:00	5/20/07 16:00	207	454.114
20/05/90 17:00	5/20/07 17:00	201.6	230.268
20/05/90 18:00	5/20/07 18:00	201.6	46.332
20/05/90 19:00	5/20/07 19:00	261.9	0
20/05/90 20:00	5/20/07 20:00	275.4	0
20/05/90 21:00	5/20/07 21:00	280.8	0
20/05/90 22:00	5/20/07 22:00	277.2	0
20/05/90 23:00	5/20/07 23:00	276.3	0
21/05/90 00:00	5/21/07 0:00	279	0
21/05/90 01:00	5/21/07 1:00	281.7	0
21/05/90 02:00	5/21/07 2:00	277.2	0
21/05/90 03:00	5/21/07 3:00	279.9	0
21/05/90 04:00	5/21/07 4:00	278.1	0
21/05/90 05:00	5/21/07 5:00	333	13.094
21/05/90 06:00	5/21/07 6:00	403.2	150.192
21/05/90 07:00	5/21/07 7:00	397.8	346.78
21/05/90 08:00	5/21/07 8:00	501.3	441.944
21/05/90 09:00	5/21/07 9:00	540.9	605.988
21/05/90 10:00	5/21/07 10:00	545.4	691.555
21/05/90 11:00	5/21/07 11:00	552.6	742.285
21/05/90 12:00	5/21/07 12:00	549	839.643
21/05/90 13:00	5/21/07 13:00	537.3	828.954
21/05/90 14:00	5/21/07 14:00	541.8	723.34
21/05/90 15:00	5/21/07 15:00	537.3	640.899
21/05/90 16:00	5/21/07 16:00	507.6	405.748
21/05/90 17:00	5/21/07 17:00	493.2	148.234
21/05/90 18:00	5/21/07 18:00	481.5	36.122
21/05/90 19:00	5/21/07 19:00	522	0
21/05/90 20:00	5/21/07 20:00	511.2	0

21/05/90 21:00	5/21/07 21:00	474.3	0
21/05/90 22:00	5/21/07 22:00	342.9	0
21/05/90 23:00	5/21/07 23:00	327.6	0
22/05/90 00:00	5/22/07 0:00	311.4	0
22/05/90 01:00	5/22/07 1:00	305.1	0
22/05/90 02:00	5/22/07 2:00	300.6	0
22/05/90 03:00	5/22/07 3:00	299.7	0
22/05/90 04:00	5/22/07 4:00	296.1	0
22/05/90 05:00	5/22/07 5:00	346.5	11.096
22/05/90 06:00	5/22/07 6:00	410.4	192.144
22/05/90 07:00	5/22/07 7:00	402.3	373.971
22/05/90 08:00	5/22/07 8:00	508.5	508.601
22/05/90 09:00	5/22/07 9:00	563.4	665.63
22/05/90 10:00	5/22/07 10:00	567	804.491
22/05/90 11:00	5/22/07 11:00	567.9	831.684
22/05/90 12:00	5/22/07 12:00	569.7	791.871
22/05/90 13:00	5/22/07 13:00	560.7	788.238
22/05/90 14:00	5/22/07 14:00	554.4	714.993
22/05/90 15:00	5/22/07 15:00	530.1	606.776
22/05/90 16:00	5/22/07 16:00	485.1	394.14
22/05/90 17:00	5/22/07 17:00	462.6	214.006
22/05/90 18:00	5/22/07 18:00	459.9	50.337
22/05/90 19:00	5/22/07 19:00	496.8	0
22/05/90 20:00	5/22/07 20:00	492.3	0
22/05/90 21:00	5/22/07 21:00	455.4	0
22/05/90 22:00	5/22/07 22:00	315	0
22/05/90 23:00	5/22/07 23:00	313.2	0
23/05/90 00:00	5/23/07 0:00	298.8	0
23/05/90 01:00	5/23/07 1:00	296.1	0
23/05/90 02:00	5/23/07 2:00	287.1	0
23/05/90 03:00	5/23/07 3:00	282.6	0
23/05/90 04:00	5/23/07 4:00	282.6	0
23/05/90 05:00	5/23/07 5:00	331.2	14.031
23/05/90 06:00	5/23/07 6:00	399.6	89.863
23/05/90 07:00	5/23/07 7:00	390.6	235.478
23/05/90 08:00	5/23/07 8:00	477	451.533
23/05/90 09:00	5/23/07 9:00	504.9	495.986
23/05/90 10:00	5/23/07 10:00	524.7	446.788
23/05/90 11:00	5/23/07 11:00	527.4	651.081
23/05/90 12:00	5/23/07 12:00	521.1	631.288
23/05/90 13:00	5/23/07 13:00	515.7	367.537
23/05/90 14:00	5/23/07 14:00	525.6	470.423
23/05/90 15:00	5/23/07 15:00	523.8	417.1
23/05/90 16:00	5/23/07 16:00	485.1	455.453
23/05/90 17:00	5/23/07 17:00	429.3	187.625
23/05/90 18:00	5/23/07 18:00	403.2	19.605
23/05/90 19:00	5/23/07 19:00	457.2	0

23/05/90 20:00	5/23/07 20:00	456.3	0
23/05/90 21:00	5/23/07 21:00	444.6	0
23/05/90 22:00	5/23/07 22:00	328.5	0
23/05/90 23:00	5/23/07 23:00	311.4	0
24/05/90 00:00	5/24/07 0:00	304.2	0
24/05/90 01:00	5/24/07 1:00	300.6	0
24/05/90 02:00	5/24/07 2:00	302.4	0
24/05/90 03:00	5/24/07 3:00	297.9	0
24/05/90 04:00	5/24/07 4:00	297	0
24/05/90 05:00	5/24/07 5:00	353.7	11.618
24/05/90 06:00	5/24/07 6:00	418.5	150.45
24/05/90 07:00	5/24/07 7:00	408.6	272.289
24/05/90 08:00	5/24/07 8:00	468	366.325
24/05/90 09:00	5/24/07 9:00	507.6	577.589
24/05/90 10:00	5/24/07 10:00	519.3	630.016
24/05/90 11:00	5/24/07 11:00	531	739.909
24/05/90 12:00	5/24/07 12:00	528.3	793.656
24/05/90 13:00	5/24/07 13:00	522.9	697.767
24/05/90 14:00	5/24/07 14:00	513	604.594
24/05/90 15:00	5/24/07 15:00	491.4	569.663
24/05/90 16:00	5/24/07 16:00	460.8	454.325
24/05/90 17:00	5/24/07 17:00	423	224.589
24/05/90 18:00	5/24/07 18:00	420.3	23.682
24/05/90 19:00	5/24/07 19:00	474.3	0
24/05/90 20:00	5/24/07 20:00	479.7	0
24/05/90 21:00	5/24/07 21:00	454.5	0
24/05/90 22:00	5/24/07 22:00	324	0
24/05/90 23:00	5/24/07 23:00	306	0
25/05/90 00:00	5/25/07 0:00	300.6	0
25/05/90 01:00	5/25/07 1:00	297	0
25/05/90 02:00	5/25/07 2:00	291.6	0
25/05/90 03:00	5/25/07 3:00	295.2	0
25/05/90 04:00	5/25/07 4:00	291.6	0
25/05/90 05:00	5/25/07 5:00	338.4	15.646
25/05/90 06:00	5/25/07 6:00	409.5	187.117
25/05/90 07:00	5/25/07 7:00	387	403.593
25/05/90 08:00	5/25/07 8:00	450	542.36
25/05/90 09:00	5/25/07 9:00	446.4	707.603
25/05/90 10:00	5/25/07 10:00	468	781.56
25/05/90 11:00	5/25/07 11:00	471.6	850.497
25/05/90 12:00	5/25/07 12:00	471.6	812.206
25/05/90 13:00	5/25/07 13:00	470.7	770.05
25/05/90 14:00	5/25/07 14:00	463.5	729.004
25/05/90 15:00	5/25/07 15:00	452.7	568.404
25/05/90 16:00	5/25/07 16:00	418.5	416.159
25/05/90 17:00	5/25/07 17:00	386.1	188.576
25/05/90 18:00	5/25/07 18:00	370.8	54.812

25/05/90 19:00	5/25/07 19:00	424.8	0
25/05/90 20:00	5/25/07 20:00	435.6	0
25/05/90 21:00	5/25/07 21:00	430.2	0
25/05/90 22:00	5/25/07 22:00	298.8	0
25/05/90 23:00	5/25/07 23:00	287.1	0
26/05/90 00:00	5/26/07 0:00	268.2	0
26/05/90 01:00	5/26/07 1:00	267.3	0
26/05/90 02:00	5/26/07 2:00	267.3	0
26/05/90 03:00	5/26/07 3:00	267.3	0
26/05/90 04:00	5/26/07 4:00	266.4	0
26/05/90 05:00	5/26/07 5:00	264.6	18.906
26/05/90 06:00	5/26/07 6:00	229.5	169.683
26/05/90 07:00	5/26/07 7:00	196.2	361.375
26/05/90 08:00	5/26/07 8:00	318.6	530.291
26/05/90 09:00	5/26/07 9:00	330.3	658.164
26/05/90 10:00	5/26/07 10:00	325.8	780.198
26/05/90 11:00	5/26/07 11:00	324.9	862.529
26/05/90 12:00	5/26/07 12:00	327.6	794.779
26/05/90 13:00	5/26/07 13:00	307.8	813.075
26/05/90 14:00	5/26/07 14:00	308.7	661.545
26/05/90 15:00	5/26/07 15:00	307.8	563.371
26/05/90 16:00	5/26/07 16:00	225	373.664
26/05/90 17:00	5/26/07 17:00	223.2	229.024
26/05/90 18:00	5/26/07 18:00	223.2	47.507
26/05/90 19:00	5/26/07 19:00	286.2	0
26/05/90 20:00	5/26/07 20:00	268.2	0
26/05/90 21:00	5/26/07 21:00	270.9	0
26/05/90 22:00	5/26/07 22:00	273.6	0
26/05/90 23:00	5/26/07 23:00	271.8	0
27/05/90 00:00	5/27/07 0:00	274.5	0
27/05/90 01:00	5/27/07 1:00	275.4	0
27/05/90 02:00	5/27/07 2:00	273.6	0
27/05/90 03:00	5/27/07 3:00	272.7	0
27/05/90 04:00	5/27/07 4:00	275.4	0
27/05/90 05:00	5/27/07 5:00	312.3	20.5
27/05/90 06:00	5/27/07 6:00	330.3	130.344
27/05/90 07:00	5/27/07 7:00	198	302.11
27/05/90 08:00	5/27/07 8:00	192.6	573.635
27/05/90 09:00	5/27/07 9:00	190.8	705.414
27/05/90 10:00	5/27/07 10:00	185.4	795.199
27/05/90 11:00	5/27/07 11:00	180.9	805.717
27/05/90 12:00	5/27/07 12:00	183.6	792.662
27/05/90 13:00	5/27/07 13:00	185.4	807.4
27/05/90 14:00	5/27/07 14:00	183.6	738.31
27/05/90 15:00	5/27/07 15:00	184.5	595.316
27/05/90 16:00	5/27/07 16:00	184.5	392.043
27/05/90 17:00	5/27/07 17:00	180.9	210.419

27/05/90 18:00	5/27/07 18:00	180.9	57.136
27/05/90 19:00	5/27/07 19:00	241.2	0
27/05/90 20:00	5/27/07 20:00	260.1	0
27/05/90 21:00	5/27/07 21:00	261	0
27/05/90 22:00	5/27/07 22:00	257.4	0
27/05/90 23:00	5/27/07 23:00	259.2	0
28/05/90 00:00	5/28/07 0:00	263.7	0
28/05/90 01:00	5/28/07 1:00	266.4	0
28/05/90 02:00	5/28/07 2:00	261	0
28/05/90 03:00	5/28/07 3:00	270	0
28/05/90 04:00	5/28/07 4:00	280.8	0
28/05/90 05:00	5/28/07 5:00	332.1	12.268
28/05/90 06:00	5/28/07 6:00	373.5	182.052
28/05/90 07:00	5/28/07 7:00	313.2	363.341
28/05/90 08:00	5/28/07 8:00	304.2	521.952
28/05/90 09:00	5/28/07 9:00	304.2	733.288
28/05/90 10:00	5/28/07 10:00	305.1	787.648
28/05/90 11:00	5/28/07 11:00	306	841.051
28/05/90 12:00	5/28/07 12:00	306	849.938
28/05/90 13:00	5/28/07 13:00	306.9	805.036
28/05/90 14:00	5/28/07 14:00	306	739.78
28/05/90 15:00	5/28/07 15:00	306.9	597.408
28/05/90 16:00	5/28/07 16:00	309.6	408.708
28/05/90 17:00	5/28/07 17:00	306.9	240.731
28/05/90 18:00	5/28/07 18:00	306	47.893
28/05/90 19:00	5/28/07 19:00	363.6	0
28/05/90 20:00	5/28/07 20:00	378	0
28/05/90 21:00	5/28/07 21:00	402.3	0
28/05/90 22:00	5/28/07 22:00	282.6	0
28/05/90 23:00	5/28/07 23:00	279	0
29/05/90 00:00	5/29/07 0:00	277.2	0
29/05/90 01:00	5/29/07 1:00	278.1	0
29/05/90 02:00	5/29/07 2:00	275.4	0
29/05/90 03:00	5/29/07 3:00	279	0
29/05/90 04:00	5/29/07 4:00	271.8	0
29/05/90 05:00	5/29/07 5:00	331.2	6.398
29/05/90 06:00	5/29/07 6:00	380.7	202.519
29/05/90 07:00	5/29/07 7:00	346.5	407.104
29/05/90 08:00	5/29/07 8:00	412.2	619.545
29/05/90 09:00	5/29/07 9:00	432	758.509
29/05/90 10:00	5/29/07 10:00	458.1	872.003
29/05/90 11:00	5/29/07 11:00	443.7	907.723
29/05/90 12:00	5/29/07 12:00	439.2	900.522
29/05/90 13:00	5/29/07 13:00	446.4	860.225
29/05/90 14:00	5/29/07 14:00	439.2	763.028
29/05/90 15:00	5/29/07 15:00	417.6	626.805
29/05/90 16:00	5/29/07 16:00	397.8	477.508

29/05/90 17:00	5/29/07 17:00	362.7	247.851
29/05/90 18:00	5/29/07 18:00	350.1	51.885
29/05/90 19:00	5/29/07 19:00	403.2	0
29/05/90 20:00	5/29/07 20:00	418.5	0
29/05/90 21:00	5/29/07 21:00	432.9	0
29/05/90 22:00	5/29/07 22:00	306	0
29/05/90 23:00	5/29/07 23:00	301.5	0
30/05/90 00:00	5/30/07 0:00	306.9	0
30/05/90 01:00	5/30/07 1:00	303.3	0
30/05/90 02:00	5/30/07 2:00	294.3	0
30/05/90 03:00	5/30/07 3:00	297.9	0
30/05/90 04:00	5/30/07 4:00	297.9	0
30/05/90 05:00	5/30/07 5:00	346.5	23.134
30/05/90 06:00	5/30/07 6:00	394.2	176.259
30/05/90 07:00	5/30/07 7:00	370.8	434.175
30/05/90 08:00	5/30/07 8:00	420.3	615.765
30/05/90 09:00	5/30/07 9:00	422.1	739.212
30/05/90 10:00	5/30/07 10:00	431.1	827.81
30/05/90 11:00	5/30/07 11:00	451.8	879.578
30/05/90 12:00	5/30/07 12:00	457.2	870.819
30/05/90 13:00	5/30/07 13:00	449.1	844.052
30/05/90 14:00	5/30/07 14:00	427.5	753.695
30/05/90 15:00	5/30/07 15:00	419.4	600.78
30/05/90 16:00	5/30/07 16:00	405	404.66
30/05/90 17:00	5/30/07 17:00	382.5	263.797
30/05/90 18:00	5/30/07 18:00	372.6	69.686
30/05/90 19:00	5/30/07 19:00	429.3	0
30/05/90 20:00	5/30/07 20:00	444.6	0
30/05/90 21:00	5/30/07 21:00	447.3	0
30/05/90 22:00	5/30/07 22:00	312.3	0
30/05/90 23:00	5/30/07 23:00	292.5	0
31/05/90 00:00	5/31/07 0:00	294.3	0
31/05/90 01:00	5/31/07 1:00	299.7	0
31/05/90 02:00	5/31/07 2:00	299.7	0
31/05/90 03:00	5/31/07 3:00	300.6	0
31/05/90 04:00	5/31/07 4:00	301.5	0
31/05/90 05:00	5/31/07 5:00	353.7	17.304
31/05/90 06:00	5/31/07 6:00	398.7	186.341
31/05/90 07:00	5/31/07 7:00	360	382.256
31/05/90 08:00	5/31/07 8:00	417.6	627.239
31/05/90 09:00	5/31/07 9:00	442.8	790.6
31/05/90 10:00	5/31/07 10:00	475.2	876.369
31/05/90 11:00	5/31/07 11:00	479.7	921.895
31/05/90 12:00	5/31/07 12:00	464.4	915.971
31/05/90 13:00	5/31/07 13:00	458.1	874.592
31/05/90 14:00	5/31/07 14:00	448.2	788.886
31/05/90 15:00	5/31/07 15:00	428.4	657.517

31/05/90 16:00	5/31/07 16:00	411.3	466.808
31/05/90 17:00	5/31/07 17:00	392.4	239.205
31/05/90 18:00	5/31/07 18:00	379.8	67.842
31/05/90 19:00	5/31/07 19:00	425.7	0
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31/05/90 21:00	5/31/07 21:00	446.4	0
31/05/90 22:00	5/31/07 22:00	321.3	0
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1/6/1990 7:00	6/1/07 7:00	392.4	302.278
1/6/1990 8:00	6/1/07 8:00	436.5	531.997
1/6/1990 9:00	6/1/07 9:00	448.2	403.038
1/6/1990 10:00	6/1/07 10:00	454.5	688.998
1/6/1990 11:00	6/1/07 11:00	460.8	765.752
1/6/1990 12:00	6/1/07 12:00	448.2	749.361
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1/6/1990 14:00	6/1/07 14:00	410.4	622.467
1/6/1990 15:00	6/1/07 15:00	405.9	453.685
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1/6/1990 17:00	6/1/07 17:00	368.1	148.385
1/6/1990 18:00	6/1/07 18:00	365.4	19.944
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1/6/1990 23:00	6/1/07 23:00	274.5	0
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2/6/1990 6:00	6/2/07 6:00	229.5	206.056
2/6/1990 7:00	6/2/07 7:00	200.7	397.681
2/6/1990 8:00	6/2/07 8:00	317.7	603.07
2/6/1990 9:00	6/2/07 9:00	335.7	753.388
2/6/1990 10:00	6/2/07 10:00	332.1	844.171
2/6/1990 11:00	6/2/07 11:00	334.8	895.021
2/6/1990 12:00	6/2/07 12:00	348.3	891.092
2/6/1990 13:00	6/2/07 13:00	329.4	848.363
2/6/1990 14:00	6/2/07 14:00	328.5	768.223

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2/6/1990 16:00	6/2/07 16:00	237.6	473.767
2/6/1990 17:00	6/2/07 17:00	223.2	253.014
2/6/1990 18:00	6/2/07 18:00	222.3	67.892
2/6/1990 19:00	6/2/07 19:00	281.7	0
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3/6/1990 3:00	6/3/07 3:00	269.1	0
3/6/1990 4:00	6/3/07 4:00	269.1	0
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3/6/1990 6:00	6/3/07 6:00	325.8	189.261
3/6/1990 7:00	6/3/07 7:00	195.3	357.738
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3/6/1990 9:00	6/3/07 9:00	193.5	679.324
3/6/1990 10:00	6/3/07 10:00	190.8	747.872
3/6/1990 11:00	6/3/07 11:00	195.3	864.1
3/6/1990 12:00	6/3/07 12:00	196.2	837.328
3/6/1990 13:00	6/3/07 13:00	198	797.933
3/6/1990 14:00	6/3/07 14:00	198.9	682.188
3/6/1990 15:00	6/3/07 15:00	206.1	538.044
3/6/1990 16:00	6/3/07 16:00	204.3	372.613
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4/6/1990 3:00	6/4/07 3:00	281.7	0
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4/6/1990 8:00	6/4/07 8:00	397.8	496.071
4/6/1990 9:00	6/4/07 9:00	429.3	610.893
4/6/1990 10:00	6/4/07 10:00	427.5	619.04
4/6/1990 11:00	6/4/07 11:00	453.6	683.918
4/6/1990 12:00	6/4/07 12:00	452.7	722.636
4/6/1990 13:00	6/4/07 13:00	450.9	748.791

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4/6/1990 16:00	6/4/07 16:00	395.1	382.885
4/6/1990 17:00	6/4/07 17:00	378.9	233.298
4/6/1990 18:00	6/4/07 18:00	362.7	66.363
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5/6/1990 7:00	6/5/07 7:00	369.9	407.977
5/6/1990 8:00	6/5/07 8:00	415.8	597.244
5/6/1990 9:00	6/5/07 9:00	425.7	729.712
5/6/1990 10:00	6/5/07 10:00	433.8	823.421
5/6/1990 11:00	6/5/07 11:00	439.2	881.297
5/6/1990 12:00	6/5/07 12:00	437.4	870.487
5/6/1990 13:00	6/5/07 13:00	440.1	833.434
5/6/1990 14:00	6/5/07 14:00	426.6	749.451
5/6/1990 15:00	6/5/07 15:00	417.6	613.572
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5/6/1990 17:00	6/5/07 17:00	381.6	235.53
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6/6/1990 11:00	6/6/07 11:00	436.5	196.867
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6/6/1990 15:00	6/6/07 15:00	416.7	247.753
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6/6/1990 23:00	6/6/07 23:00	293.4	0
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7/6/1990 3:00	6/7/07 3:00	296.1	0
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7/6/1990 10:00	6/7/07 10:00	447.3	571.345
7/6/1990 11:00	6/7/07 11:00	452.7	331.413
7/6/1990 12:00	6/7/07 12:00	450.9	656.857
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7/6/1990 17:00	6/7/07 17:00	385.2	167.282
7/6/1990 18:00	6/7/07 18:00	378.9	64.139
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8/6/1990 7:00	6/8/07 7:00	385.2	336.24
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10/6/1990 19:00	6/10/07 19:00	241.2	0
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11/6/1990 9:00	6/11/07 9:00	357.3	609.456
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11/6/1990 11:00	6/11/07 11:00	438.3	800.939
11/6/1990 12:00	6/11/07 12:00	444.6	773.212
11/6/1990 13:00	6/11/07 13:00	450	736.524
11/6/1990 14:00	6/11/07 14:00	449.1	614.608
11/6/1990 15:00	6/11/07 15:00	444.6	540.928
11/6/1990 16:00	6/11/07 16:00	389.7	494.28
11/6/1990 17:00	6/11/07 17:00	379.8	257.354
11/6/1990 18:00	6/11/07 18:00	374.4	76.471
11/6/1990 19:00	6/11/07 19:00	423	0
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11/6/1990 21:00	6/11/07 21:00	441	0
11/6/1990 22:00	6/11/07 22:00	295.2	0
11/6/1990 23:00	6/11/07 23:00	289.8	0
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12/6/1990 2:00	6/12/07 2:00	274.5	0
12/6/1990 3:00	6/12/07 3:00	274.5	0
12/6/1990 4:00	6/12/07 4:00	279	0
12/6/1990 5:00	6/12/07 5:00	315.9	25.483
12/6/1990 6:00	6/12/07 6:00	395.1	161.37
12/6/1990 7:00	6/12/07 7:00	369	392.769
12/6/1990 8:00	6/12/07 8:00	417.6	582.103
12/6/1990 9:00	6/12/07 9:00	450.9	668.814

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12/6/1990 11:00	6/12/07 11:00	480.6	698.203
12/6/1990 12:00	6/12/07 12:00	476.1	675.872
12/6/1990 13:00	6/12/07 13:00	485.1	604.644
12/6/1990 14:00	6/12/07 14:00	473.4	601.408
12/6/1990 15:00	6/12/07 15:00	462.6	503.864
12/6/1990 16:00	6/12/07 16:00	395.1	394.912
12/6/1990 17:00	6/12/07 17:00	383.4	183.115
12/6/1990 18:00	6/12/07 18:00	370.8	69.229
12/6/1990 19:00	6/12/07 19:00	421.2	0
12/6/1990 20:00	6/12/07 20:00	433.8	0
12/6/1990 21:00	6/12/07 21:00	427.5	0
12/6/1990 22:00	6/12/07 22:00	279.9	0
12/6/1990 23:00	6/12/07 23:00	285.3	0
13/06/90 00:00	6/13/07 0:00	286.2	0
13/06/90 01:00	6/13/07 1:00	282.6	0
13/06/90 02:00	6/13/07 2:00	279.9	0
13/06/90 03:00	6/13/07 3:00	294.3	0
13/06/90 04:00	6/13/07 4:00	286.2	0
13/06/90 05:00	6/13/07 5:00	312.3	24.068
13/06/90 06:00	6/13/07 6:00	382.5	146.018
13/06/90 07:00	6/13/07 7:00	369	338.064
13/06/90 08:00	6/13/07 8:00	414.9	534.886
13/06/90 09:00	6/13/07 9:00	439.2	616.407
13/06/90 10:00	6/13/07 10:00	449.1	730.568
13/06/90 11:00	6/13/07 11:00	468	461.282
13/06/90 12:00	6/13/07 12:00	460.8	530.69
13/06/90 13:00	6/13/07 13:00	460.8	547.816
13/06/90 14:00	6/13/07 14:00	453.6	590.473
13/06/90 15:00	6/13/07 15:00	446.4	402.978
13/06/90 16:00	6/13/07 16:00	404.1	123.754
13/06/90 17:00	6/13/07 17:00	392.4	41.149
13/06/90 18:00	6/13/07 18:00	380.7	32.404
13/06/90 19:00	6/13/07 19:00	421.2	0
13/06/90 20:00	6/13/07 20:00	431.1	0
13/06/90 21:00	6/13/07 21:00	423	0
13/06/90 22:00	6/13/07 22:00	284.4	0
13/06/90 23:00	6/13/07 23:00	272.7	0
14/06/90 00:00	6/14/07 0:00	275.4	0
14/06/90 01:00	6/14/07 1:00	270.9	0
14/06/90 02:00	6/14/07 2:00	273.6	0
14/06/90 03:00	6/14/07 3:00	277.2	0
14/06/90 04:00	6/14/07 4:00	273.6	0
14/06/90 05:00	6/14/07 5:00	327.6	0.5343
14/06/90 06:00	6/14/07 6:00	381.6	123.661
14/06/90 07:00	6/14/07 7:00	368.1	273.054
14/06/90 08:00	6/14/07 8:00	402.3	288.031

14/06/90 09:00	6/14/07 9:00	446.4	214.034
14/06/90 10:00	6/14/07 10:00	450.9	110.121
14/06/90 11:00	6/14/07 11:00	443.7	263.64
14/06/90 12:00	6/14/07 12:00	442.8	262.443
14/06/90 13:00	6/14/07 13:00	451.8	483.334
14/06/90 14:00	6/14/07 14:00	454.5	469.672
14/06/90 15:00	6/14/07 15:00	460.8	399.622
14/06/90 16:00	6/14/07 16:00	400.5	131.915
14/06/90 17:00	6/14/07 17:00	375.3	37.366
14/06/90 18:00	6/14/07 18:00	370.8	1.28061
14/06/90 19:00	6/14/07 19:00	412.2	0
14/06/90 20:00	6/14/07 20:00	423	0
14/06/90 21:00	6/14/07 21:00	420.3	0
14/06/90 22:00	6/14/07 22:00	288	0
14/06/90 23:00	6/14/07 23:00	285.3	0
15/06/90 00:00	6/15/07 0:00	278.1	0
15/06/90 01:00	6/15/07 1:00	276.3	0
15/06/90 02:00	6/15/07 2:00	279	0
15/06/90 03:00	6/15/07 3:00	275.4	0
15/06/90 04:00	6/15/07 4:00	273.6	0
15/06/90 05:00	6/15/07 5:00	327.6	21.34
15/06/90 06:00	6/15/07 6:00	381.6	155.81
15/06/90 07:00	6/15/07 7:00	356.4	428.964
15/06/90 08:00	6/15/07 8:00	381.6	613.098
15/06/90 09:00	6/15/07 9:00	410.4	771.296
15/06/90 10:00	6/15/07 10:00	443.7	864.633
15/06/90 11:00	6/15/07 11:00	463.5	894.393
15/06/90 12:00	6/15/07 12:00	468	890.198
15/06/90 13:00	6/15/07 13:00	450.9	847.96
15/06/90 14:00	6/15/07 14:00	445.5	761.211
15/06/90 15:00	6/15/07 15:00	443.7	659.729
15/06/90 16:00	6/15/07 16:00	377.1	445.573
15/06/90 17:00	6/15/07 17:00	352.8	261.162
15/06/90 18:00	6/15/07 18:00	342.9	89.501
15/06/90 19:00	6/15/07 19:00	399.6	0
15/06/90 20:00	6/15/07 20:00	405.9	0
15/06/90 21:00	6/15/07 21:00	405	0
15/06/90 22:00	6/15/07 22:00	274.5	0
15/06/90 23:00	6/15/07 23:00	273.6	0
16/06/90 00:00	6/16/07 0:00	274.5	0
16/06/90 01:00	6/16/07 1:00	266.4	0
16/06/90 02:00	6/16/07 2:00	266.4	0
16/06/90 03:00	6/16/07 3:00	262.8	0
16/06/90 04:00	6/16/07 4:00	271.8	0
16/06/90 05:00	6/16/07 5:00	261	9.811
16/06/90 06:00	6/16/07 6:00	222.3	198.802
16/06/90 07:00	6/16/07 7:00	193.5	381.779

16/06/90 08:00	6/16/07 8:00	324	602.156
16/06/90 09:00	6/16/07 9:00	340.2	737.458
16/06/90 10:00	6/16/07 10:00	340.2	841.847
16/06/90 11:00	6/16/07 11:00	344.7	886.462
16/06/90 12:00	6/16/07 12:00	351.9	893.547
16/06/90 13:00	6/16/07 13:00	327.6	845.919
16/06/90 14:00	6/16/07 14:00	321.3	777.63
16/06/90 15:00	6/16/07 15:00	318.6	634.923
16/06/90 16:00	6/16/07 16:00	225.9	459.179
16/06/90 17:00	6/16/07 17:00	222.3	284.007
16/06/90 18:00	6/16/07 18:00	223.2	82.168
16/06/90 19:00	6/16/07 19:00	279.9	0
16/06/90 20:00	6/16/07 20:00	257.4	0
16/06/90 21:00	6/16/07 21:00	258.3	0
16/06/90 22:00	6/16/07 22:00	255.6	0
16/06/90 23:00	6/16/07 23:00	251.1	0
17/06/90 00:00	6/17/07 0:00	258.3	0
17/06/90 01:00	6/17/07 1:00	256.5	0
17/06/90 02:00	6/17/07 2:00	261.9	0
17/06/90 03:00	6/17/07 3:00	258.3	0
17/06/90 04:00	6/17/07 4:00	255.6	0
17/06/90 05:00	6/17/07 5:00	297.9	0
17/06/90 06:00	6/17/07 6:00	312.3	34.605
17/06/90 07:00	6/17/07 7:00	174.6	69.268
17/06/90 08:00	6/17/07 8:00	171	114.417
17/06/90 09:00	6/17/07 9:00	174.6	145.86
17/06/90 10:00	6/17/07 10:00	175.5	252.219
17/06/90 11:00	6/17/07 11:00	176.4	515.114
17/06/90 12:00	6/17/07 12:00	176.4	217.906
17/06/90 13:00	6/17/07 13:00	175.5	152.679
17/06/90 14:00	6/17/07 14:00	184.5	218.501
17/06/90 15:00	6/17/07 15:00	190.8	186.687
17/06/90 16:00	6/17/07 16:00	189	130.359
17/06/90 17:00	6/17/07 17:00	188.1	148.013
17/06/90 18:00	6/17/07 18:00	189.9	11.879
17/06/90 19:00	6/17/07 19:00	249.3	0
17/06/90 20:00	6/17/07 20:00	261	0
17/06/90 21:00	6/17/07 21:00	264.6	0
17/06/90 22:00	6/17/07 22:00	259.2	0
17/06/90 23:00	6/17/07 23:00	260.1	0
18/06/90 00:00	6/18/07 0:00	264.6	0
18/06/90 01:00	6/18/07 1:00	250.2	0
18/06/90 02:00	6/18/07 2:00	252.9	0
18/06/90 03:00	6/18/07 3:00	261.9	0
18/06/90 04:00	6/18/07 4:00	263.7	0
18/06/90 05:00	6/18/07 5:00	320.4	25.097
18/06/90 06:00	6/18/07 6:00	374.4	199.587

18/06/90 07:00	6/18/07 7:00	392.4	399.571
18/06/90 08:00	6/18/07 8:00	476.1	585.323
18/06/90 09:00	6/18/07 9:00	515.7	682.607
18/06/90 10:00	6/18/07 10:00	559.8	755.533
18/06/90 11:00	6/18/07 11:00	552.6	803.459
18/06/90 12:00	6/18/07 12:00	630	765.598
18/06/90 13:00	6/18/07 13:00	615.6	734.208
18/06/90 14:00	6/18/07 14:00	596.7	597.048
18/06/90 15:00	6/18/07 15:00	565.2	446.891
18/06/90 16:00	6/18/07 16:00	438.3	340.916
18/06/90 17:00	6/18/07 17:00	431.1	209.637
18/06/90 18:00	6/18/07 18:00	417.6	68.337
18/06/90 19:00	6/18/07 19:00	461.7	0
18/06/90 20:00	6/18/07 20:00	453.6	0
18/06/90 21:00	6/18/07 21:00	445.5	0
18/06/90 22:00	6/18/07 22:00	288.9	0
18/06/90 23:00	6/18/07 23:00	291.6	0
19/06/90 00:00	6/19/07 0:00	291.6	0
19/06/90 01:00	6/19/07 1:00	290.7	0
19/06/90 02:00	6/19/07 2:00	287.1	0
19/06/90 03:00	6/19/07 3:00	290.7	0
19/06/90 04:00	6/19/07 4:00	285.3	0
19/06/90 05:00	6/19/07 5:00	324.9	13.997
19/06/90 06:00	6/19/07 6:00	416.7	192.843
19/06/90 07:00	6/19/07 7:00	407.7	407.651
19/06/90 08:00	6/19/07 8:00	512.1	512.38
19/06/90 09:00	6/19/07 9:00	529.2	633.003
19/06/90 10:00	6/19/07 10:00	547.2	735.794
19/06/90 11:00	6/19/07 11:00	555.3	821.073
19/06/90 12:00	6/19/07 12:00	570.6	804.035
19/06/90 13:00	6/19/07 13:00	593.1	712.835
19/06/90 14:00	6/19/07 14:00	570.6	679.799
19/06/90 15:00	6/19/07 15:00	552.6	536.602
19/06/90 16:00	6/19/07 16:00	439.2	337.603
19/06/90 17:00	6/19/07 17:00	427.5	182.491
19/06/90 18:00	6/19/07 18:00	432	54.492
19/06/90 19:00	6/19/07 19:00	463.5	0
19/06/90 20:00	6/19/07 20:00	460.8	0
19/06/90 21:00	6/19/07 21:00	454.5	0
19/06/90 22:00	6/19/07 22:00	303.3	0
19/06/90 23:00	6/19/07 23:00	293.4	0
20/06/90 00:00	6/20/07 0:00	297	0
20/06/90 01:00	6/20/07 1:00	294.3	0
20/06/90 02:00	6/20/07 2:00	288	0
20/06/90 03:00	6/20/07 3:00	278.1	0
20/06/90 04:00	6/20/07 4:00	276.3	0
20/06/90 05:00	6/20/07 5:00	330.3	24.755

20/06/90 06:00	6/20/07 6:00	416.7	185.345
20/06/90 07:00	6/20/07 7:00	405	383.883
20/06/90 08:00	6/20/07 8:00	495.9	584.238
20/06/90 09:00	6/20/07 9:00	525.6	697.645
20/06/90 10:00	6/20/07 10:00	555.3	789.921
20/06/90 11:00	6/20/07 11:00	558.9	851.175
20/06/90 12:00	6/20/07 12:00	551.7	815.169
20/06/90 13:00	6/20/07 13:00	543.6	800.37
20/06/90 14:00	6/20/07 14:00	532.8	696.504
20/06/90 15:00	6/20/07 15:00	506.7	532.324
20/06/90 16:00	6/20/07 16:00	445.5	421.308
20/06/90 17:00	6/20/07 17:00	441	266.387
20/06/90 18:00	6/20/07 18:00	437.4	92.968
20/06/90 19:00	6/20/07 19:00	481.5	0
20/06/90 20:00	6/20/07 20:00	468	0
20/06/90 21:00	6/20/07 21:00	444.6	0
20/06/90 22:00	6/20/07 22:00	298.8	0
20/06/90 23:00	6/20/07 23:00	282.6	0
21/06/90 00:00	6/21/07 0:00	284.4	0
21/06/90 01:00	6/21/07 1:00	281.7	0
21/06/90 02:00	6/21/07 2:00	278.1	0
21/06/90 03:00	6/21/07 3:00	287.1	0
21/06/90 04:00	6/21/07 4:00	279.9	0
21/06/90 05:00	6/21/07 5:00	324.9	20.631
21/06/90 06:00	6/21/07 6:00	382.5	160.728
21/06/90 07:00	6/21/07 7:00	368.1	344.864
21/06/90 08:00	6/21/07 8:00	452.7	468.095
21/06/90 09:00	6/21/07 9:00	484.2	632.97
21/06/90 10:00	6/21/07 10:00	498.6	800.196
21/06/90 11:00	6/21/07 11:00	507.6	885.845
21/06/90 12:00	6/21/07 12:00	502.2	864.029
21/06/90 13:00	6/21/07 13:00	498.6	805.725
21/06/90 14:00	6/21/07 14:00	505.8	677.957
21/06/90 15:00	6/21/07 15:00	494.1	556.331
21/06/90 16:00	6/21/07 16:00	481.5	411.565
21/06/90 17:00	6/21/07 17:00	447.3	237.218
21/06/90 18:00	6/21/07 18:00	441.9	65.379
21/06/90 19:00	6/21/07 19:00	484.2	0
21/06/90 20:00	6/21/07 20:00	493.2	0
21/06/90 21:00	6/21/07 21:00	481.5	0
21/06/90 22:00	6/21/07 22:00	337.5	0
21/06/90 23:00	6/21/07 23:00	336.6	0
22/06/90 00:00	6/22/07 0:00	318.6	0
22/06/90 01:00	6/22/07 1:00	314.1	0
22/06/90 02:00	6/22/07 2:00	296.1	0
22/06/90 03:00	6/22/07 3:00	293.4	0
22/06/90 04:00	6/22/07 4:00	277.2	0

22/06/90 05:00	6/22/07 5:00	327.6	24.392
22/06/90 06:00	6/22/07 6:00	378.9	182.411
22/06/90 07:00	6/22/07 7:00	360.9	295.118
22/06/90 08:00	6/22/07 8:00	414.9	385.614
22/06/90 09:00	6/22/07 9:00	481.5	564.49
22/06/90 10:00	6/22/07 10:00	513	681.635
22/06/90 11:00	6/22/07 11:00	543.6	748.102
22/06/90 12:00	6/22/07 12:00	554.4	782.313
22/06/90 13:00	6/22/07 13:00	548.1	834.07
22/06/90 14:00	6/22/07 14:00	533.7	650.311
22/06/90 15:00	6/22/07 15:00	523.8	507.643
22/06/90 16:00	6/22/07 16:00	385.2	439.361
22/06/90 17:00	6/22/07 17:00	367.2	216.692
22/06/90 18:00	6/22/07 18:00	357.3	87.189
22/06/90 19:00	6/22/07 19:00	407.7	0
22/06/90 20:00	6/22/07 20:00	421.2	0
22/06/90 21:00	6/22/07 21:00	414	0
22/06/90 22:00	6/22/07 22:00	275.4	0
22/06/90 23:00	6/22/07 23:00	268.2	0
23/06/90 00:00	6/23/07 0:00	271.8	0
23/06/90 01:00	6/23/07 1:00	271.8	0
23/06/90 02:00	6/23/07 2:00	268.2	0
23/06/90 03:00	6/23/07 3:00	264.6	0
23/06/90 04:00	6/23/07 4:00	285.3	0
23/06/90 05:00	6/23/07 5:00	267.3	22.028
23/06/90 06:00	6/23/07 6:00	224.1	154.739
23/06/90 07:00	6/23/07 7:00	189.9	338.663
23/06/90 08:00	6/23/07 8:00	324	548.079
23/06/90 09:00	6/23/07 9:00	340.2	695.752
23/06/90 10:00	6/23/07 10:00	339.3	792.861
23/06/90 11:00	6/23/07 11:00	336.6	797.788
23/06/90 12:00	6/23/07 12:00	348.3	791.252
23/06/90 13:00	6/23/07 13:00	324	749.602
23/06/90 14:00	6/23/07 14:00	323.1	747.654
23/06/90 15:00	6/23/07 15:00	322.2	596.186
23/06/90 16:00	6/23/07 16:00	224.1	433.071
23/06/90 17:00	6/23/07 17:00	216	231.071
23/06/90 18:00	6/23/07 18:00	217.8	67.462
23/06/90 19:00	6/23/07 19:00	279	0
23/06/90 20:00	6/23/07 20:00	257.4	0
23/06/90 21:00	6/23/07 21:00	267.3	0
23/06/90 22:00	6/23/07 22:00	262.8	0
23/06/90 23:00	6/23/07 23:00	262.8	0
24/06/90 00:00	6/24/07 0:00	263.7	0
24/06/90 01:00	6/24/07 1:00	264.6	0
24/06/90 02:00	6/24/07 2:00	263.7	0
24/06/90 03:00	6/24/07 3:00	265.5	0

24/06/90 04:00	6/24/07 4:00	263.7	0
24/06/90 05:00	6/24/07 5:00	290.7	1.069
24/06/90 06:00	6/24/07 6:00	315.9	168.359
24/06/90 07:00	6/24/07 7:00	185.4	316.249
24/06/90 08:00	6/24/07 8:00	184.5	420.642
24/06/90 09:00	6/24/07 9:00	189.9	552.967
24/06/90 10:00	6/24/07 10:00	191.7	797.66
24/06/90 11:00	6/24/07 11:00	194.4	644.384
24/06/90 12:00	6/24/07 12:00	194.4	696.758
24/06/90 13:00	6/24/07 13:00	188.1	650.588
24/06/90 14:00	6/24/07 14:00	186.3	656.847
24/06/90 15:00	6/24/07 15:00	187.2	491.559
24/06/90 16:00	6/24/07 16:00	183.6	326.877
24/06/90 17:00	6/24/07 17:00	189	248.561
24/06/90 18:00	6/24/07 18:00	181.8	56.364
24/06/90 19:00	6/24/07 19:00	241.2	0
24/06/90 20:00	6/24/07 20:00	252.9	0
24/06/90 21:00	6/24/07 21:00	260.1	0
24/06/90 22:00	6/24/07 22:00	260.1	0
24/06/90 23:00	6/24/07 23:00	260.1	0
25/06/90 00:00	6/25/07 0:00	262.8	0
25/06/90 01:00	6/25/07 1:00	261	0
25/06/90 02:00	6/25/07 2:00	260.1	0
25/06/90 03:00	6/25/07 3:00	258.3	0
25/06/90 04:00	6/25/07 4:00	288	0
25/06/90 05:00	6/25/07 5:00	315	8.515
25/06/90 06:00	6/25/07 6:00	366.3	177.158
25/06/90 07:00	6/25/07 7:00	352.8	385.552
25/06/90 08:00	6/25/07 8:00	433.8	593.101
25/06/90 09:00	6/25/07 9:00	467.1	728.126
25/06/90 10:00	6/25/07 10:00	488.7	802.784
25/06/90 11:00	6/25/07 11:00	495	834.934
25/06/90 12:00	6/25/07 12:00	506.7	833.086
25/06/90 13:00	6/25/07 13:00	500.4	789.393
25/06/90 14:00	6/25/07 14:00	475.2	710.248
25/06/90 15:00	6/25/07 15:00	462.6	560.372
25/06/90 16:00	6/25/07 16:00	431.1	440.536
25/06/90 17:00	6/25/07 17:00	413.1	247.341
25/06/90 18:00	6/25/07 18:00	396.9	53.161
25/06/90 19:00	6/25/07 19:00	515.7	0
25/06/90 20:00	6/25/07 20:00	558	0
25/06/90 21:00	6/25/07 21:00	534.6	0
25/06/90 22:00	6/25/07 22:00	375.3	0
25/06/90 23:00	6/25/07 23:00	352.8	0
26/06/90 00:00	6/26/07 0:00	353.7	0
26/06/90 01:00	6/26/07 1:00	362.7	0
26/06/90 02:00	6/26/07 2:00	331.2	0

26/06/90 03:00	6/26/07 3:00	328.5	0
26/06/90 04:00	6/26/07 4:00	318.6	0
26/06/90 05:00	6/26/07 5:00	330.3	19.415
26/06/90 06:00	6/26/07 6:00	375.3	171.258
26/06/90 07:00	6/26/07 7:00	417.6	348.613
26/06/90 08:00	6/26/07 8:00	523.8	554.596
26/06/90 09:00	6/26/07 9:00	570.6	702.723
26/06/90 10:00	6/26/07 10:00	590.4	798.386
26/06/90 11:00	6/26/07 11:00	594.9	857.561
26/06/90 12:00	6/26/07 12:00	610.2	852.252
26/06/90 13:00	6/26/07 13:00	596.7	797.881
26/06/90 14:00	6/26/07 14:00	573.3	689.637
26/06/90 15:00	6/26/07 15:00	547.2	590.251
26/06/90 16:00	6/26/07 16:00	429.3	465.83
26/06/90 17:00	6/26/07 17:00	411.3	231.226
26/06/90 18:00	6/26/07 18:00	402.3	87.648
26/06/90 19:00	6/26/07 19:00	460.8	0
26/06/90 20:00	6/26/07 20:00	465.3	0
26/06/90 21:00	6/26/07 21:00	451.8	0
26/06/90 22:00	6/26/07 22:00	301.5	0
26/06/90 23:00	6/26/07 23:00	297	0
27/06/90 00:00	6/27/07 0:00	289.8	0
27/06/90 01:00	6/27/07 1:00	278.1	0
27/06/90 02:00	6/27/07 2:00	279.9	0
27/06/90 03:00	6/27/07 3:00	276.3	0
27/06/90 04:00	6/27/07 4:00	279.9	0
27/06/90 05:00	6/27/07 5:00	329.4	14.64
27/06/90 06:00	6/27/07 6:00	433.8	169.582
27/06/90 07:00	6/27/07 7:00	432	349.654
27/06/90 08:00	6/27/07 8:00	485.1	582.464
27/06/90 09:00	6/27/07 9:00	504	725.134
27/06/90 10:00	6/27/07 10:00	511.2	805.985
27/06/90 11:00	6/27/07 11:00	547.2	859.877
27/06/90 12:00	6/27/07 12:00	547.2	854.316
27/06/90 13:00	6/27/07 13:00	585.9	809.778
27/06/90 14:00	6/27/07 14:00	600.3	724.575
27/06/90 15:00	6/27/07 15:00	549	601.065
27/06/90 16:00	6/27/07 16:00	436.5	461.484
27/06/90 17:00	6/27/07 17:00	412.2	289.537
27/06/90 18:00	6/27/07 18:00	397.8	85.704
27/06/90 19:00	6/27/07 19:00	451.8	0
27/06/90 20:00	6/27/07 20:00	452.7	0
27/06/90 21:00	6/27/07 21:00	433.8	0
27/06/90 22:00	6/27/07 22:00	283.5	0
27/06/90 23:00	6/27/07 23:00	286.2	0
28/06/90 00:00	6/28/07 0:00	287.1	0
28/06/90 01:00	6/28/07 1:00	289.8	0

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28/06/90 05:00	6/28/07 5:00	315.9	17.648
28/06/90 06:00	6/28/07 6:00	411.3	182.068
28/06/90 07:00	6/28/07 7:00	405	373.101
28/06/90 08:00	6/28/07 8:00	495.9	568.172
28/06/90 09:00	6/28/07 9:00	579.6	716.954
28/06/90 10:00	6/28/07 10:00	621	836.203
28/06/90 11:00	6/28/07 11:00	630	868.705
28/06/90 12:00	6/28/07 12:00	607.5	871.276
28/06/90 13:00	6/28/07 13:00	558	844.939
28/06/90 14:00	6/28/07 14:00	513.9	758.868
28/06/90 15:00	6/28/07 15:00	512.1	639.334
28/06/90 16:00	6/28/07 16:00	441	440.755
28/06/90 17:00	6/28/07 17:00	427.5	253.164
28/06/90 18:00	6/28/07 18:00	421.2	96.542
28/06/90 19:00	6/28/07 19:00	468.9	0
28/06/90 20:00	6/28/07 20:00	468.9	0
28/06/90 21:00	6/28/07 21:00	445.5	0
28/06/90 22:00	6/28/07 22:00	303.3	0
28/06/90 23:00	6/28/07 23:00	296.1	0
29/06/90 00:00	6/29/07 0:00	297.9	0
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29/06/90 02:00	6/29/07 2:00	286.2	0
29/06/90 03:00	6/29/07 3:00	271.8	0
29/06/90 04:00	6/29/07 4:00	270.9	0
29/06/90 05:00	6/29/07 5:00	317.7	2.649
29/06/90 06:00	6/29/07 6:00	412.2	120.952
29/06/90 07:00	6/29/07 7:00	396	366.964
29/06/90 08:00	6/29/07 8:00	449.1	436.532
29/06/90 09:00	6/29/07 9:00	472.5	684.446
29/06/90 10:00	6/29/07 10:00	476.1	648.039
29/06/90 11:00	6/29/07 11:00	481.5	712.735
29/06/90 12:00	6/29/07 12:00	473.4	770.969
29/06/90 13:00	6/29/07 13:00	465.3	654.851
29/06/90 14:00	6/29/07 14:00	454.5	572.359
29/06/90 15:00	6/29/07 15:00	452.7	399.627
29/06/90 16:00	6/29/07 16:00	388.8	365.599
29/06/90 17:00	6/29/07 17:00	359.1	172.879
29/06/90 18:00	6/29/07 18:00	347.4	52.634
29/06/90 19:00	6/29/07 19:00	405	0
29/06/90 20:00	6/29/07 20:00	418.5	0
29/06/90 21:00	6/29/07 21:00	412.2	0
29/06/90 22:00	6/29/07 22:00	292.5	0
29/06/90 23:00	6/29/07 23:00	285.3	0
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30/06/90 01:00	6/30/07 1:00	282.6	0
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30/06/90 04:00	6/30/07 4:00	277.2	0
30/06/90 05:00	6/30/07 5:00	274.5	13.258
30/06/90 06:00	6/30/07 6:00	229.5	152.476
30/06/90 07:00	6/30/07 7:00	196.2	359.387
30/06/90 08:00	6/30/07 8:00	313.2	510.224
30/06/90 09:00	6/30/07 9:00	323.1	543.666
30/06/90 10:00	6/30/07 10:00	314.1	588.411
30/06/90 11:00	6/30/07 11:00	317.7	721.13
30/06/90 12:00	6/30/07 12:00	330.3	799.073
30/06/90 13:00	6/30/07 13:00	314.1	660.016
30/06/90 14:00	6/30/07 14:00	315	654.08
30/06/90 15:00	6/30/07 15:00	311.4	474.054
30/06/90 16:00	6/30/07 16:00	219.6	285.838
30/06/90 17:00	6/30/07 17:00	214.2	167.705
30/06/90 18:00	6/30/07 18:00	215.1	54.316
30/06/90 19:00	6/30/07 19:00	273.6	0
30/06/90 20:00	6/30/07 20:00	254.7	0
30/06/90 21:00	6/30/07 21:00	256.5	0
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1/7/1990 0:00	7/1/07 0:00	252.9	0
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1/7/1990 6:00	7/1/07 6:00	310.5	161.261
1/7/1990 7:00	7/1/07 7:00	180.9	352.472
1/7/1990 8:00	7/1/07 8:00	178.2	487.082
1/7/1990 9:00	7/1/07 9:00	181.8	660.07
1/7/1990 10:00	7/1/07 10:00	184.5	750.517
1/7/1990 11:00	7/1/07 11:00	186.3	778.282
1/7/1990 12:00	7/1/07 12:00	184.5	793.984
1/7/1990 13:00	7/1/07 13:00	183.6	734.883
1/7/1990 14:00	7/1/07 14:00	182.7	752.59
1/7/1990 15:00	7/1/07 15:00	187.2	623.812
1/7/1990 16:00	7/1/07 16:00	185.4	430.832
1/7/1990 17:00	7/1/07 17:00	183.6	219.121
1/7/1990 18:00	7/1/07 18:00	182.7	77.847
1/7/1990 19:00	7/1/07 19:00	243.9	0
1/7/1990 20:00	7/1/07 20:00	256.5	0
1/7/1990 21:00	7/1/07 21:00	261.9	0
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1/7/1990 23:00	7/1/07 23:00	258.3	0

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2/7/1990 3:00	7/2/07 3:00	262.8	0
2/7/1990 4:00	7/2/07 4:00	261	0
2/7/1990 5:00	7/2/07 5:00	312.3	18.421
2/7/1990 6:00	7/2/07 6:00	404.1	154.053
2/7/1990 7:00	7/2/07 7:00	395.1	233.684
2/7/1990 8:00	7/2/07 8:00	488.7	200.098
2/7/1990 9:00	7/2/07 9:00	516.6	364.859
2/7/1990 10:00	7/2/07 10:00	537.3	587.32
2/7/1990 11:00	7/2/07 11:00	571.5	616.265
2/7/1990 12:00	7/2/07 12:00	587.7	734.506
2/7/1990 13:00	7/2/07 13:00	627.3	655.234
2/7/1990 14:00	7/2/07 14:00	595.8	460.642
2/7/1990 15:00	7/2/07 15:00	559.8	401.747
2/7/1990 16:00	7/2/07 16:00	429.3	181.485
2/7/1990 17:00	7/2/07 17:00	406.8	141.684
2/7/1990 18:00	7/2/07 18:00	398.7	90.791
2/7/1990 19:00	7/2/07 19:00	442.8	0
2/7/1990 20:00	7/2/07 20:00	448.2	0
2/7/1990 21:00	7/2/07 21:00	438.3	0
2/7/1990 22:00	7/2/07 22:00	285.3	0
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3/7/1990 2:00	7/3/07 2:00	281.7	0
3/7/1990 3:00	7/3/07 3:00	277.2	0
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3/7/1990 5:00	7/3/07 5:00	332.1	16.566
3/7/1990 6:00	7/3/07 6:00	422.1	140.137
3/7/1990 7:00	7/3/07 7:00	395.1	240.961
3/7/1990 8:00	7/3/07 8:00	483.3	401.606
3/7/1990 9:00	7/3/07 9:00	531.9	612.055
3/7/1990 10:00	7/3/07 10:00	557.1	588.31
3/7/1990 11:00	7/3/07 11:00	560.7	672.771
3/7/1990 12:00	7/3/07 12:00	630.9	437.254
3/7/1990 13:00	7/3/07 13:00	588.6	467.628
3/7/1990 14:00	7/3/07 14:00	591.3	329.151
3/7/1990 15:00	7/3/07 15:00	571.5	322.446
3/7/1990 16:00	7/3/07 16:00	434.7	264.421
3/7/1990 17:00	7/3/07 17:00	405	200.881
3/7/1990 18:00	7/3/07 18:00	398.7	72.134
3/7/1990 19:00	7/3/07 19:00	458.1	0
3/7/1990 20:00	7/3/07 20:00	454.5	0
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4/7/1990 5:00	7/4/07 5:00	326.7	0
4/7/1990 6:00	7/4/07 6:00	397.8	67.944
4/7/1990 7:00	7/4/07 7:00	369.9	156.928
4/7/1990 8:00	7/4/07 8:00	380.7	133.474
4/7/1990 9:00	7/4/07 9:00	382.5	205.212
4/7/1990 10:00	7/4/07 10:00	383.4	472.54
4/7/1990 11:00	7/4/07 11:00	414	613.831
4/7/1990 12:00	7/4/07 12:00	442.8	611.003
4/7/1990 13:00	7/4/07 13:00	452.7	519.417
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4/7/1990 19:00	7/4/07 19:00	386.1	0
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4/7/1990 21:00	7/4/07 21:00	392.4	0
4/7/1990 22:00	7/4/07 22:00	269.1	0
4/7/1990 23:00	7/4/07 23:00	265.5	0
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5/7/1990 2:00	7/5/07 2:00	267.3	0
5/7/1990 3:00	7/5/07 3:00	268.2	0
5/7/1990 4:00	7/5/07 4:00	265.5	0
5/7/1990 5:00	7/5/07 5:00	323.1	12.956
5/7/1990 6:00	7/5/07 6:00	450.9	180.925
5/7/1990 7:00	7/5/07 7:00	446.4	323.182
5/7/1990 8:00	7/5/07 8:00	531.9	427.45
5/7/1990 9:00	7/5/07 9:00	562.5	500.358
5/7/1990 10:00	7/5/07 10:00	595.8	615.888
5/7/1990 11:00	7/5/07 11:00	583.2	698.641
5/7/1990 12:00	7/5/07 12:00	580.5	699.525
5/7/1990 13:00	7/5/07 13:00	563.4	745.109
5/7/1990 14:00	7/5/07 14:00	561.6	657.144
5/7/1990 15:00	7/5/07 15:00	551.7	489.3
5/7/1990 16:00	7/5/07 16:00	437.4	413.472
5/7/1990 17:00	7/5/07 17:00	406.8	228.563
5/7/1990 18:00	7/5/07 18:00	404.1	63.352
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6/7/1990 3:00	7/6/07 3:00	284.4	0
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6/7/1990 6:00	7/6/07 6:00	423.9	117.664
6/7/1990 7:00	7/6/07 7:00	417.6	52.801
6/7/1990 8:00	7/6/07 8:00	461.7	283.984
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6/7/1990 10:00	7/6/07 10:00	524.7	576.779
6/7/1990 11:00	7/6/07 11:00	522	672.204
6/7/1990 12:00	7/6/07 12:00	522.9	350.155
6/7/1990 13:00	7/6/07 13:00	531	430.093
6/7/1990 14:00	7/6/07 14:00	516.6	526.883
6/7/1990 15:00	7/6/07 15:00	495.9	541.57
6/7/1990 16:00	7/6/07 16:00	390.6	315.656
6/7/1990 17:00	7/6/07 17:00	361.8	171.634
6/7/1990 18:00	7/6/07 18:00	349.2	80.756
6/7/1990 19:00	7/6/07 19:00	394.2	0
6/7/1990 20:00	7/6/07 20:00	406.8	0
6/7/1990 21:00	7/6/07 21:00	405.9	0
6/7/1990 22:00	7/6/07 22:00	265.5	0
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7/7/1990 3:00	7/7/07 3:00	255.6	0
7/7/1990 4:00	7/7/07 4:00	252.9	0
7/7/1990 5:00	7/7/07 5:00	251.1	16.356
7/7/1990 6:00	7/7/07 6:00	222.3	103.358
7/7/1990 7:00	7/7/07 7:00	192.6	184.14
7/7/1990 8:00	7/7/07 8:00	315	393.378
7/7/1990 9:00	7/7/07 9:00	326.7	348.667
7/7/1990 10:00	7/7/07 10:00	324	529.585
7/7/1990 11:00	7/7/07 11:00	324.9	680.698
7/7/1990 12:00	7/7/07 12:00	336.6	386.156
7/7/1990 13:00	7/7/07 13:00	324	399.102
7/7/1990 14:00	7/7/07 14:00	324	338.247
7/7/1990 15:00	7/7/07 15:00	320.4	409.808
7/7/1990 16:00	7/7/07 16:00	233.1	175.944
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7/7/1990 18:00	7/7/07 18:00	226.8	11.416
7/7/1990 19:00	7/7/07 19:00	281.7	0
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7/7/1990 23:00	7/7/07 23:00	257.4	0
8/7/1990 0:00	7/8/07 0:00	259.2	0
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8/7/1990 3:00	7/8/07 3:00	261.9	0
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8/7/1990 6:00	7/8/07 6:00	317.7	167.956
8/7/1990 7:00	7/8/07 7:00	192.6	336.528
8/7/1990 8:00	7/8/07 8:00	193.5	497.713
8/7/1990 9:00	7/8/07 9:00	197.1	717.702
8/7/1990 10:00	7/8/07 10:00	196.2	783.397
8/7/1990 11:00	7/8/07 11:00	194.4	852.46
8/7/1990 12:00	7/8/07 12:00	192.6	840.443
8/7/1990 13:00	7/8/07 13:00	195.3	785.781
8/7/1990 14:00	7/8/07 14:00	191.7	692.674
8/7/1990 15:00	7/8/07 15:00	193.5	534.886
8/7/1990 16:00	7/8/07 16:00	191.7	398.71
8/7/1990 17:00	7/8/07 17:00	191.7	241.072
8/7/1990 18:00	7/8/07 18:00	189.9	89.56
8/7/1990 19:00	7/8/07 19:00	248.4	0
8/7/1990 20:00	7/8/07 20:00	258.3	0
8/7/1990 21:00	7/8/07 21:00	262.8	0
8/7/1990 22:00	7/8/07 22:00	255.6	0
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9/7/1990 3:00	7/9/07 3:00	258.3	0
9/7/1990 4:00	7/9/07 4:00	257.4	0
9/7/1990 5:00	7/9/07 5:00	307.8	15.287
9/7/1990 6:00	7/9/07 6:00	405.9	150.066
9/7/1990 7:00	7/9/07 7:00	401.4	308.904
9/7/1990 8:00	7/9/07 8:00	493.2	464.533
9/7/1990 9:00	7/9/07 9:00	540.9	639.142
9/7/1990 10:00	7/9/07 10:00	546.3	529.146
9/7/1990 11:00	7/9/07 11:00	569.7	672.541
9/7/1990 12:00	7/9/07 12:00	588.6	736.052
9/7/1990 13:00	7/9/07 13:00	554.4	742.332
9/7/1990 14:00	7/9/07 14:00	543.6	572.404
9/7/1990 15:00	7/9/07 15:00	528.3	431.557
9/7/1990 16:00	7/9/07 16:00	420.3	275.487
9/7/1990 17:00	7/9/07 17:00	396	202.414
9/7/1990 18:00	7/9/07 18:00	385.2	61.506
9/7/1990 19:00	7/9/07 19:00	441	0

9/7/1990 20:00	7/9/07 20:00	440.1	0
9/7/1990 21:00	7/9/07 21:00	437.4	0
9/7/1990 22:00	7/9/07 22:00	280.8	0
9/7/1990 23:00	7/9/07 23:00	279	0
10/7/1990 0:00	7/10/07 0:00	274.5	0
10/7/1990 1:00	7/10/07 1:00	269.1	0
10/7/1990 2:00	7/10/07 2:00	267.3	0
10/7/1990 3:00	7/10/07 3:00	265.5	0
10/7/1990 4:00	7/10/07 4:00	268.2	0
10/7/1990 5:00	7/10/07 5:00	320.4	14.508
10/7/1990 6:00	7/10/07 6:00	415.8	159.288
10/7/1990 7:00	7/10/07 7:00	411.3	268.326
10/7/1990 8:00	7/10/07 8:00	486	455.385
10/7/1990 9:00	7/10/07 9:00	540.9	650.488
10/7/1990 10:00	7/10/07 10:00	610.2	739.84
10/7/1990 11:00	7/10/07 11:00	595.8	762.728
10/7/1990 12:00	7/10/07 12:00	585	716.597
10/7/1990 13:00	7/10/07 13:00	576.9	687.843
10/7/1990 14:00	7/10/07 14:00	563.4	616.082
10/7/1990 15:00	7/10/07 15:00	549.9	423.665
10/7/1990 16:00	7/10/07 16:00	446.4	286.658
10/7/1990 17:00	7/10/07 17:00	414	165.151
10/7/1990 18:00	7/10/07 18:00	406.8	56.88
10/7/1990 19:00	7/10/07 19:00	475.2	0
10/7/1990 20:00	7/10/07 20:00	480.6	0
10/7/1990 21:00	7/10/07 21:00	462.6	0
10/7/1990 22:00	7/10/07 22:00	310.5	0
10/7/1990 23:00	7/10/07 23:00	308.7	0
11/7/1990 0:00	7/11/07 0:00	300.6	0
11/7/1990 1:00	7/11/07 1:00	298.8	0
11/7/1990 2:00	7/11/07 2:00	290.7	0
11/7/1990 3:00	7/11/07 3:00	289.8	0
11/7/1990 4:00	7/11/07 4:00	290.7	0
11/7/1990 5:00	7/11/07 5:00	341.1	13.83
11/7/1990 6:00	7/11/07 6:00	459	109.243
11/7/1990 7:00	7/11/07 7:00	430.2	272.543
11/7/1990 8:00	7/11/07 8:00	535.5	438.617
11/7/1990 9:00	7/11/07 9:00	569.7	576.027
11/7/1990 10:00	7/11/07 10:00	584.1	754.968
11/7/1990 11:00	7/11/07 11:00	576.9	636.587
11/7/1990 12:00	7/11/07 12:00	572.4	637.2
11/7/1990 13:00	7/11/07 13:00	572.4	680.948
11/7/1990 14:00	7/11/07 14:00	563.4	623.358
11/7/1990 15:00	7/11/07 15:00	555.3	547.075
11/7/1990 16:00	7/11/07 16:00	463.5	267.315
11/7/1990 17:00	7/11/07 17:00	444.6	181.403
11/7/1990 18:00	7/11/07 18:00	444.6	80.972

11/7/1990 19:00	7/11/07 19:00	496.8	0
11/7/1990 20:00	7/11/07 20:00	495.9	0
11/7/1990 21:00	7/11/07 21:00	483.3	0
11/7/1990 22:00	7/11/07 22:00	324	0
11/7/1990 23:00	7/11/07 23:00	309.6	0
12/7/1990 0:00	7/12/07 0:00	307.8	0
12/7/1990 1:00	7/12/07 1:00	297.9	0
12/7/1990 2:00	7/12/07 2:00	288.9	0
12/7/1990 3:00	7/12/07 3:00	283.5	0
12/7/1990 4:00	7/12/07 4:00	279	0
12/7/1990 5:00	7/12/07 5:00	323.1	0
12/7/1990 6:00	7/12/07 6:00	419.4	12.086
12/7/1990 7:00	7/12/07 7:00	418.5	96.544
12/7/1990 8:00	7/12/07 8:00	523.8	121.597
12/7/1990 9:00	7/12/07 9:00	575.1	90.634
12/7/1990 10:00	7/12/07 10:00	603	113.466
12/7/1990 11:00	7/12/07 11:00	594	227.901
12/7/1990 12:00	7/12/07 12:00	593.1	246.463
12/7/1990 13:00	7/12/07 13:00	571.5	158.727
12/7/1990 14:00	7/12/07 14:00	556.2	74.714
12/7/1990 15:00	7/12/07 15:00	547.2	86.683
12/7/1990 16:00	7/12/07 16:00	441.9	142.623
12/7/1990 17:00	7/12/07 17:00	428.4	113.129
12/7/1990 18:00	7/12/07 18:00	423	30.747
12/7/1990 19:00	7/12/07 19:00	470.7	0
12/7/1990 20:00	7/12/07 20:00	472.5	0
12/7/1990 21:00	7/12/07 21:00	456.3	0
12/7/1990 22:00	7/12/07 22:00	305.1	0
12/7/1990 23:00	7/12/07 23:00	299.7	0
13/07/90 00:00	7/13/07 0:00	297.9	0
13/07/90 01:00	7/13/07 1:00	285.3	0
13/07/90 02:00	7/13/07 2:00	285.3	0
13/07/90 03:00	7/13/07 3:00	286.2	0
13/07/90 04:00	7/13/07 4:00	280.8	0
13/07/90 05:00	7/13/07 5:00	326.7	6.09
13/07/90 06:00	7/13/07 6:00	422.1	107.173
13/07/90 07:00	7/13/07 7:00	433.8	172.613
13/07/90 08:00	7/13/07 8:00	469.8	462.14
13/07/90 09:00	7/13/07 9:00	503.1	437.152
13/07/90 10:00	7/13/07 10:00	520.2	489.181
13/07/90 11:00	7/13/07 11:00	522.9	456.782
13/07/90 12:00	7/13/07 12:00	533.7	528.923
13/07/90 13:00	7/13/07 13:00	535.5	447.907
13/07/90 14:00	7/13/07 14:00	531.9	468.144
13/07/90 15:00	7/13/07 15:00	511.2	456.701
13/07/90 16:00	7/13/07 16:00	396	267.297
13/07/90 17:00	7/13/07 17:00	374.4	183.523

13/07/90 18:00	7/13/07 18:00	363.6	42.656
13/07/90 19:00	7/13/07 19:00	407.7	0
13/07/90 20:00	7/13/07 20:00	417.6	0
13/07/90 21:00	7/13/07 21:00	418.5	0
13/07/90 22:00	7/13/07 22:00	283.5	0
13/07/90 23:00	7/13/07 23:00	279.9	0
14/07/90 00:00	7/14/07 0:00	274.5	0
14/07/90 01:00	7/14/07 1:00	270.9	0
14/07/90 02:00	7/14/07 2:00	269.1	0
14/07/90 03:00	7/14/07 3:00	267.3	0
14/07/90 04:00	7/14/07 4:00	267.3	0
14/07/90 05:00	7/14/07 5:00	257.4	11.405
14/07/90 06:00	7/14/07 6:00	226.8	124.2
14/07/90 07:00	7/14/07 7:00	197.1	308.074
14/07/90 08:00	7/14/07 8:00	316.8	473.865
14/07/90 09:00	7/14/07 9:00	336.6	612.268
14/07/90 10:00	7/14/07 10:00	333.9	669.543
14/07/90 11:00	7/14/07 11:00	333.9	681.747
14/07/90 12:00	7/14/07 12:00	333	754.064
14/07/90 13:00	7/14/07 13:00	315.9	780.82
14/07/90 14:00	7/14/07 14:00	316.8	643.377
14/07/90 15:00	7/14/07 15:00	317.7	540.942
14/07/90 16:00	7/14/07 16:00	228.6	311.031
14/07/90 17:00	7/14/07 17:00	231.3	153.97
14/07/90 18:00	7/14/07 18:00	233.1	41.734
14/07/90 19:00	7/14/07 19:00	290.7	0
14/07/90 20:00	7/14/07 20:00	259.2	0
14/07/90 21:00	7/14/07 21:00	260.1	0
14/07/90 22:00	7/14/07 22:00	256.5	0
14/07/90 23:00	7/14/07 23:00	256.5	0
15/07/90 00:00	7/15/07 0:00	255.6	0
15/07/90 01:00	7/15/07 1:00	252	0
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15/07/90 03:00	7/15/07 3:00	252.9	0
15/07/90 04:00	7/15/07 4:00	252.9	0
15/07/90 05:00	7/15/07 5:00	281.7	9.098
15/07/90 06:00	7/15/07 6:00	306	131.131
15/07/90 07:00	7/15/07 7:00	173.7	283.69
15/07/90 08:00	7/15/07 8:00	174.6	498.219
15/07/90 09:00	7/15/07 9:00	185.4	486.837
15/07/90 10:00	7/15/07 10:00	184.5	588.721
15/07/90 11:00	7/15/07 11:00	183.6	508.207
15/07/90 12:00	7/15/07 12:00	183.6	732.136
15/07/90 13:00	7/15/07 13:00	185.4	555.456
15/07/90 14:00	7/15/07 14:00	187.2	550.797
15/07/90 15:00	7/15/07 15:00	190.8	546.454
15/07/90 16:00	7/15/07 16:00	190.8	282.443

15/07/90 17:00	7/15/07 17:00	190.8	191.11
15/07/90 18:00	7/15/07 18:00	189	51.617
15/07/90 19:00	7/15/07 19:00	241.2	0
15/07/90 20:00	7/15/07 20:00	255.6	0
15/07/90 21:00	7/15/07 21:00	257.4	0
15/07/90 22:00	7/15/07 22:00	253.8	0
15/07/90 23:00	7/15/07 23:00	255.6	0
16/07/90 00:00	7/16/07 0:00	259.2	0
16/07/90 01:00	7/16/07 1:00	254.7	0
16/07/90 02:00	7/16/07 2:00	251.1	0
16/07/90 03:00	7/16/07 3:00	252.9	0
16/07/90 04:00	7/16/07 4:00	252.9	0
16/07/90 05:00	7/16/07 5:00	309.6	2.802
16/07/90 06:00	7/16/07 6:00	408.6	157.322
16/07/90 07:00	7/16/07 7:00	389.7	316.272
16/07/90 08:00	7/16/07 8:00	484.2	495.858
16/07/90 09:00	7/16/07 9:00	546.3	578.889
16/07/90 10:00	7/16/07 10:00	559.8	710.47
16/07/90 11:00	7/16/07 11:00	576	781.259
16/07/90 12:00	7/16/07 12:00	563.4	809.798
16/07/90 13:00	7/16/07 13:00	546.3	788.871
16/07/90 14:00	7/16/07 14:00	547.2	684.391
16/07/90 15:00	7/16/07 15:00	537.3	555.961
16/07/90 16:00	7/16/07 16:00	424.8	355.432
16/07/90 17:00	7/16/07 17:00	402.3	252.357
16/07/90 18:00	7/16/07 18:00	396.9	68.366
16/07/90 19:00	7/16/07 19:00	452.7	0
16/07/90 20:00	7/16/07 20:00	454.5	0
16/07/90 21:00	7/16/07 21:00	441	0
16/07/90 22:00	7/16/07 22:00	291.6	0
16/07/90 23:00	7/16/07 23:00	295.2	0
17/07/90 00:00	7/17/07 0:00	297	0
17/07/90 01:00	7/17/07 1:00	291.6	0
17/07/90 02:00	7/17/07 2:00	289.8	0
17/07/90 03:00	7/17/07 3:00	289.8	0
17/07/90 04:00	7/17/07 4:00	286.2	0
17/07/90 05:00	7/17/07 5:00	329.4	8.634
17/07/90 06:00	7/17/07 6:00	415.8	129.845
17/07/90 07:00	7/17/07 7:00	399.6	338.131
17/07/90 08:00	7/17/07 8:00	492.3	475.928
17/07/90 09:00	7/17/07 9:00	531.9	642.333
17/07/90 10:00	7/17/07 10:00	563.4	748.974
17/07/90 11:00	7/17/07 11:00	577.8	761.383
17/07/90 12:00	7/17/07 12:00	590.4	737.38
17/07/90 13:00	7/17/07 13:00	571.5	800.617
17/07/90 14:00	7/17/07 14:00	563.4	702.256
17/07/90 15:00	7/17/07 15:00	553.5	538.562

17/07/90 16:00	7/17/07 16:00	437.4	415.365
17/07/90 17:00	7/17/07 17:00	413.1	253.205
17/07/90 18:00	7/17/07 18:00	403.2	76.586
17/07/90 19:00	7/17/07 19:00	464.4	0
17/07/90 20:00	7/17/07 20:00	465.3	0
17/07/90 21:00	7/17/07 21:00	447.3	0
17/07/90 22:00	7/17/07 22:00	308.7	0
17/07/90 23:00	7/17/07 23:00	308.7	0
18/07/90 00:00	7/18/07 0:00	306	0
18/07/90 01:00	7/18/07 1:00	292.5	0
18/07/90 02:00	7/18/07 2:00	290.7	0
18/07/90 03:00	7/18/07 3:00	292.5	0
18/07/90 04:00	7/18/07 4:00	288.9	0
18/07/90 05:00	7/18/07 5:00	344.7	3.171
18/07/90 06:00	7/18/07 6:00	477.9	139.854
18/07/90 07:00	7/18/07 7:00	448.2	304.396
18/07/90 08:00	7/18/07 8:00	540	482.473
18/07/90 09:00	7/18/07 9:00	584.1	663.002
18/07/90 10:00	7/18/07 10:00	600.3	744.096
18/07/90 11:00	7/18/07 11:00	602.1	799.042
18/07/90 12:00	7/18/07 12:00	590.4	782.216
18/07/90 13:00	7/18/07 13:00	567.9	707.964
18/07/90 14:00	7/18/07 14:00	574.2	664.599
18/07/90 15:00	7/18/07 15:00	564.3	564.771
18/07/90 16:00	7/18/07 16:00	441	421.505
18/07/90 17:00	7/18/07 17:00	423	228.952
18/07/90 18:00	7/18/07 18:00	417.6	46.589
18/07/90 19:00	7/18/07 19:00	473.4	0
18/07/90 20:00	7/18/07 20:00	475.2	0
18/07/90 21:00	7/18/07 21:00	459	0
18/07/90 22:00	7/18/07 22:00	289.8	0
18/07/90 23:00	7/18/07 23:00	270	0
19/07/90 00:00	7/19/07 0:00	264.6	0
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19/07/90 03:00	7/19/07 3:00	254.7	0
19/07/90 04:00	7/19/07 4:00	252.9	0
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19/07/90 06:00	7/19/07 6:00	399.6	134.779
19/07/90 07:00	7/19/07 7:00	391.5	349.023
19/07/90 08:00	7/19/07 8:00	501.3	498.61
19/07/90 09:00	7/19/07 9:00	533.7	668.99
19/07/90 10:00	7/19/07 10:00	548.1	802.069
19/07/90 11:00	7/19/07 11:00	561.6	843.658
19/07/90 12:00	7/19/07 12:00	564.3	854.632
19/07/90 13:00	7/19/07 13:00	561.6	797.799
19/07/90 14:00	7/19/07 14:00	556.2	776.5

19/07/90 15:00	7/19/07 15:00	553.5	656.627
19/07/90 16:00	7/19/07 16:00	413.1	410.036
19/07/90 17:00	7/19/07 17:00	396	246.258
19/07/90 18:00	7/19/07 18:00	399.6	74.533
19/07/90 19:00	7/19/07 19:00	446.4	0
19/07/90 20:00	7/19/07 20:00	456.3	0
19/07/90 21:00	7/19/07 21:00	440.1	0
19/07/90 22:00	7/19/07 22:00	291.6	0
19/07/90 23:00	7/19/07 23:00	300.6	0
20/07/90 00:00	7/20/07 0:00	309.6	0
20/07/90 01:00	7/20/07 1:00	307.8	0
20/07/90 02:00	7/20/07 2:00	304.2	0
20/07/90 03:00	7/20/07 3:00	304.2	0
20/07/90 04:00	7/20/07 4:00	303.3	0
20/07/90 05:00	7/20/07 5:00	337.5	4.1292
20/07/90 06:00	7/20/07 6:00	437.4	124.252
20/07/90 07:00	7/20/07 7:00	423	255.139
20/07/90 08:00	7/20/07 8:00	460.8	313.325
20/07/90 09:00	7/20/07 9:00	498.6	437.858
20/07/90 10:00	7/20/07 10:00	504.9	706.249
20/07/90 11:00	7/20/07 11:00	510.3	775.26
20/07/90 12:00	7/20/07 12:00	513.9	788.885
20/07/90 13:00	7/20/07 13:00	510.3	734.512
20/07/90 14:00	7/20/07 14:00	504.9	680.718
20/07/90 15:00	7/20/07 15:00	498.6	556.128
20/07/90 16:00	7/20/07 16:00	381.6	437.255
20/07/90 17:00	7/20/07 17:00	353.7	253.519
20/07/90 18:00	7/20/07 18:00	351	61.599
20/07/90 19:00	7/20/07 19:00	404.1	0
20/07/90 20:00	7/20/07 20:00	420.3	0
20/07/90 21:00	7/20/07 21:00	414	0
20/07/90 22:00	7/20/07 22:00	284.4	0
20/07/90 23:00	7/20/07 23:00	273.6	0
21/07/90 00:00	7/21/07 0:00	283.5	0
21/07/90 01:00	7/21/07 1:00	284.4	0
21/07/90 02:00	7/21/07 2:00	282.6	0
21/07/90 03:00	7/21/07 3:00	277.2	0
21/07/90 04:00	7/21/07 4:00	278.1	0
21/07/90 05:00	7/21/07 5:00	268.2	0
21/07/90 06:00	7/21/07 6:00	233.1	54.41
21/07/90 07:00	7/21/07 7:00	204.3	146.59
21/07/90 08:00	7/21/07 8:00	315	369.288
21/07/90 09:00	7/21/07 9:00	338.4	373.359
21/07/90 10:00	7/21/07 10:00	334.8	358.978
21/07/90 11:00	7/21/07 11:00	334.8	465.005
21/07/90 12:00	7/21/07 12:00	342.9	519.712
21/07/90 13:00	7/21/07 13:00	329.4	302.576

21/07/90 14:00	7/21/07 14:00	318.6	386.291
21/07/90 15:00	7/21/07 15:00	308.7	351.923
21/07/90 16:00	7/21/07 16:00	228.6	150.053
21/07/90 17:00	7/21/07 17:00	222.3	231.194
21/07/90 18:00	7/21/07 18:00	225.9	65.477
21/07/90 19:00	7/21/07 19:00	282.6	0
21/07/90 20:00	7/21/07 20:00	261	0
21/07/90 21:00	7/21/07 21:00	261	0
21/07/90 22:00	7/21/07 22:00	253.8	0
21/07/90 23:00	7/21/07 23:00	257.4	0
22/07/90 00:00	7/22/07 0:00	255.6	0
22/07/90 01:00	7/22/07 1:00	257.4	0
22/07/90 02:00	7/22/07 2:00	259.2	0
22/07/90 03:00	7/22/07 3:00	261	0
22/07/90 04:00	7/22/07 4:00	258.3	0
22/07/90 05:00	7/22/07 5:00	294.3	4.7111
22/07/90 06:00	7/22/07 6:00	315	115.537
22/07/90 07:00	7/22/07 7:00	183.6	279.123
22/07/90 08:00	7/22/07 8:00	175.5	403.497
22/07/90 09:00	7/22/07 9:00	178.2	527.371
22/07/90 10:00	7/22/07 10:00	173.7	668.933
22/07/90 11:00	7/22/07 11:00	175.5	577.163
22/07/90 12:00	7/22/07 12:00	176.4	421.307
22/07/90 13:00	7/22/07 13:00	179.1	385.848
22/07/90 14:00	7/22/07 14:00	176.4	447.436
22/07/90 15:00	7/22/07 15:00	178.2	306.529
22/07/90 16:00	7/22/07 16:00	180	250.949
22/07/90 17:00	7/22/07 17:00	178.2	142.747
22/07/90 18:00	7/22/07 18:00	178.2	14.286
22/07/90 19:00	7/22/07 19:00	238.5	0
22/07/90 20:00	7/22/07 20:00	252.9	0
22/07/90 21:00	7/22/07 21:00	255.6	0
22/07/90 22:00	7/22/07 22:00	257.4	0
22/07/90 23:00	7/22/07 23:00	259.2	0
23/07/90 00:00	7/23/07 0:00	261	0
23/07/90 01:00	7/23/07 1:00	262.8	0
23/07/90 02:00	7/23/07 2:00	259.2	0
23/07/90 03:00	7/23/07 3:00	258.3	0
23/07/90 04:00	7/23/07 4:00	260.1	0
23/07/90 05:00	7/23/07 5:00	306.9	0.4731
23/07/90 06:00	7/23/07 6:00	444.6	106.911
23/07/90 07:00	7/23/07 7:00	440.1	298.581
23/07/90 08:00	7/23/07 8:00	520.2	519.35
23/07/90 09:00	7/23/07 9:00	562.5	664.313
23/07/90 10:00	7/23/07 10:00	581.4	789.628
23/07/90 11:00	7/23/07 11:00	609.3	830.369
23/07/90 12:00	7/23/07 12:00	611.1	814.744

23/07/90 13:00	7/23/07 13:00	608.4	742.15
23/07/90 14:00	7/23/07 14:00	600.3	704.244
23/07/90 15:00	7/23/07 15:00	572.4	568.735
23/07/90 16:00	7/23/07 16:00	429.3	401.526
23/07/90 17:00	7/23/07 17:00	405	245.895
23/07/90 18:00	7/23/07 18:00	392.4	80.956
23/07/90 19:00	7/23/07 19:00	438.3	0
23/07/90 20:00	7/23/07 20:00	437.4	0
23/07/90 21:00	7/23/07 21:00	420.3	0
23/07/90 22:00	7/23/07 22:00	281.7	0
23/07/90 23:00	7/23/07 23:00	288	0
24/07/90 00:00	7/24/07 0:00	288.9	0
24/07/90 01:00	7/24/07 1:00	288	0
24/07/90 02:00	7/24/07 2:00	284.4	0
24/07/90 03:00	7/24/07 3:00	284.4	0
24/07/90 04:00	7/24/07 4:00	279.9	0
24/07/90 05:00	7/24/07 5:00	324	1.77209
24/07/90 06:00	7/24/07 6:00	435.6	109.796
24/07/90 07:00	7/24/07 7:00	416.7	279.054
24/07/90 08:00	7/24/07 8:00	504	474.934
24/07/90 09:00	7/24/07 9:00	558.9	623.13
24/07/90 10:00	7/24/07 10:00	575.1	777.574
24/07/90 11:00	7/24/07 11:00	585.9	809.153
24/07/90 12:00	7/24/07 12:00	586.8	812.893
24/07/90 13:00	7/24/07 13:00	572.4	822.45
24/07/90 14:00	7/24/07 14:00	557.1	710.182
24/07/90 15:00	7/24/07 15:00	563.4	515.766
24/07/90 16:00	7/24/07 16:00	433.8	404.459
24/07/90 17:00	7/24/07 17:00	399.6	257.948
24/07/90 18:00	7/24/07 18:00	393.3	67.273
24/07/90 19:00	7/24/07 19:00	455.4	0
24/07/90 20:00	7/24/07 20:00	455.4	0
24/07/90 21:00	7/24/07 21:00	438.3	0
24/07/90 22:00	7/24/07 22:00	301.5	0
24/07/90 23:00	7/24/07 23:00	297	0
25/07/90 00:00	7/25/07 0:00	298.8	0
25/07/90 01:00	7/25/07 1:00	300.6	0
25/07/90 02:00	7/25/07 2:00	294.3	0
25/07/90 03:00	7/25/07 3:00	294.3	0
25/07/90 04:00	7/25/07 4:00	284.4	0
25/07/90 05:00	7/25/07 5:00	330.3	1.8157
25/07/90 06:00	7/25/07 6:00	424.8	125.363
25/07/90 07:00	7/25/07 7:00	401.4	311.726
25/07/90 08:00	7/25/07 8:00	488.7	549.065
25/07/90 09:00	7/25/07 9:00	538.2	606.61
25/07/90 10:00	7/25/07 10:00	547.2	689.742
25/07/90 11:00	7/25/07 11:00	550.8	833.326

25/07/90 12:00	7/25/07 12:00	568.8	767.121
25/07/90 13:00	7/25/07 13:00	558	747.68
25/07/90 14:00	7/25/07 14:00	551.7	642.933
25/07/90 15:00	7/25/07 15:00	537.3	517.099
25/07/90 16:00	7/25/07 16:00	441	404.38
25/07/90 17:00	7/25/07 17:00	426.6	174.465
25/07/90 18:00	7/25/07 18:00	421.2	68.58
25/07/90 19:00	7/25/07 19:00	477.9	0
25/07/90 20:00	7/25/07 20:00	477.9	0
25/07/90 21:00	7/25/07 21:00	462.6	0
25/07/90 22:00	7/25/07 22:00	317.7	0
25/07/90 23:00	7/25/07 23:00	299.7	0
26/07/90 00:00	7/26/07 0:00	300.6	0
26/07/90 01:00	7/26/07 1:00	303.3	0
26/07/90 02:00	7/26/07 2:00	299.7	0
26/07/90 03:00	7/26/07 3:00	289.8	0
26/07/90 04:00	7/26/07 4:00	282.6	0
26/07/90 05:00	7/26/07 5:00	331.2	0
26/07/90 06:00	7/26/07 6:00	410.4	63.199
26/07/90 07:00	7/26/07 7:00	403.2	233.86
26/07/90 08:00	7/26/07 8:00	497.7	417.71
26/07/90 09:00	7/26/07 9:00	540.9	462.337
26/07/90 10:00	7/26/07 10:00	563.4	477.852
26/07/90 11:00	7/26/07 11:00	574.2	467.079
26/07/90 12:00	7/26/07 12:00	578.7	501.044
26/07/90 13:00	7/26/07 13:00	563.4	533.306
26/07/90 14:00	7/26/07 14:00	565.2	549.266
26/07/90 15:00	7/26/07 15:00	540	326.541
26/07/90 16:00	7/26/07 16:00	432.9	313.99
26/07/90 17:00	7/26/07 17:00	410.4	166.413
26/07/90 18:00	7/26/07 18:00	408.6	40.465
26/07/90 19:00	7/26/07 19:00	464.4	0
26/07/90 20:00	7/26/07 20:00	454.5	0
26/07/90 21:00	7/26/07 21:00	436.5	0
26/07/90 22:00	7/26/07 22:00	301.5	0
26/07/90 23:00	7/26/07 23:00	297	0
27/07/90 00:00	7/27/07 0:00	297	0
27/07/90 01:00	7/27/07 1:00	285.3	0
27/07/90 02:00	7/27/07 2:00	288.9	0
27/07/90 03:00	7/27/07 3:00	286.2	0
27/07/90 04:00	7/27/07 4:00	279.9	0
27/07/90 05:00	7/27/07 5:00	321.3	0
27/07/90 06:00	7/27/07 6:00	414.9	91.149
27/07/90 07:00	7/27/07 7:00	393.3	81.267
27/07/90 08:00	7/27/07 8:00	428.4	346.764
27/07/90 09:00	7/27/07 9:00	464.4	350.263
27/07/90 10:00	7/27/07 10:00	486.9	510.555

27/07/90 11:00	7/27/07 11:00	498.6	723.573
27/07/90 12:00	7/27/07 12:00	500.4	622.537
27/07/90 13:00	7/27/07 13:00	497.7	613.419
27/07/90 14:00	7/27/07 14:00	495.9	604.212
27/07/90 15:00	7/27/07 15:00	495	430.667
27/07/90 16:00	7/27/07 16:00	378	238.59
27/07/90 17:00	7/27/07 17:00	347.4	44.906
27/07/90 18:00	7/27/07 18:00	345.6	0
27/07/90 19:00	7/27/07 19:00	390.6	0
27/07/90 20:00	7/27/07 20:00	404.1	0
27/07/90 21:00	7/27/07 21:00	405.9	0
27/07/90 22:00	7/27/07 22:00	280.8	0
27/07/90 23:00	7/27/07 23:00	270	0
28/07/90 00:00	7/28/07 0:00	270	0
28/07/90 01:00	7/28/07 1:00	269.1	0
28/07/90 02:00	7/28/07 2:00	267.3	0
28/07/90 03:00	7/28/07 3:00	261.9	0
28/07/90 04:00	7/28/07 4:00	261.9	0
28/07/90 05:00	7/28/07 5:00	257.4	0.06636
28/07/90 06:00	7/28/07 6:00	220.5	131.429
28/07/90 07:00	7/28/07 7:00	193.5	334.537
28/07/90 08:00	7/28/07 8:00	306	566.091
28/07/90 09:00	7/28/07 9:00	317.7	714.843
28/07/90 10:00	7/28/07 10:00	315.9	806.281
28/07/90 11:00	7/28/07 11:00	313.2	855.71
28/07/90 12:00	7/28/07 12:00	309.6	861.463
28/07/90 13:00	7/28/07 13:00	292.5	822.925
28/07/90 14:00	7/28/07 14:00	289.8	761.487
28/07/90 15:00	7/28/07 15:00	289.8	611.16
28/07/90 16:00	7/28/07 16:00	208.8	421.468
28/07/90 17:00	7/28/07 17:00	210.6	247.814
28/07/90 18:00	7/28/07 18:00	212.4	70.066
28/07/90 19:00	7/28/07 19:00	268.2	0
28/07/90 20:00	7/28/07 20:00	252.9	0
28/07/90 21:00	7/28/07 21:00	253.8	0
28/07/90 22:00	7/28/07 22:00	250.2	0
28/07/90 23:00	7/28/07 23:00	252	0
29/07/90 00:00	7/29/07 0:00	252	0
29/07/90 01:00	7/29/07 1:00	249.3	0
29/07/90 02:00	7/29/07 2:00	251.1	0
29/07/90 03:00	7/29/07 3:00	252.9	0
29/07/90 04:00	7/29/07 4:00	254.7	0
29/07/90 05:00	7/29/07 5:00	283.5	0
29/07/90 06:00	7/29/07 6:00	305.1	100.213
29/07/90 07:00	7/29/07 7:00	174.6	287.307
29/07/90 08:00	7/29/07 8:00	169.2	476.921
29/07/90 09:00	7/29/07 9:00	171.9	552.357

29/07/90 10:00	7/29/07 10:00	169.2	672.054
29/07/90 11:00	7/29/07 11:00	172.8	756.244
29/07/90 12:00	7/29/07 12:00	170.1	721.79
29/07/90 13:00	7/29/07 13:00	171.9	702.665
29/07/90 14:00	7/29/07 14:00	168.3	642.484
29/07/90 15:00	7/29/07 15:00	171.9	462.757
29/07/90 16:00	7/29/07 16:00	169.2	334.033
29/07/90 17:00	7/29/07 17:00	171.9	150.362
29/07/90 18:00	7/29/07 18:00	171	56.75
29/07/90 19:00	7/29/07 19:00	229.5	0
29/07/90 20:00	7/29/07 20:00	249.3	0
29/07/90 21:00	7/29/07 21:00	251.1	0
29/07/90 22:00	7/29/07 22:00	248.4	0
29/07/90 23:00	7/29/07 23:00	250.2	0
30/07/90 00:00	7/30/07 0:00	254.7	0
30/07/90 01:00	7/30/07 1:00	254.7	0
30/07/90 02:00	7/30/07 2:00	252.9	0
30/07/90 03:00	7/30/07 3:00	253.8	0
30/07/90 04:00	7/30/07 4:00	248.4	0
30/07/90 05:00	7/30/07 5:00	301.5	0
30/07/90 06:00	7/30/07 6:00	407.7	125.07
30/07/90 07:00	7/30/07 7:00	367.2	250.378
30/07/90 08:00	7/30/07 8:00	410.4	487.592
30/07/90 09:00	7/30/07 9:00	445.5	584.692
30/07/90 10:00	7/30/07 10:00	461.7	630.049
30/07/90 11:00	7/30/07 11:00	475.2	635.223
30/07/90 12:00	7/30/07 12:00	477	759.403
30/07/90 13:00	7/30/07 13:00	505.8	675.302
30/07/90 14:00	7/30/07 14:00	522	618.141
30/07/90 15:00	7/30/07 15:00	504.9	434.889
30/07/90 16:00	7/30/07 16:00	380.7	369.091
30/07/90 17:00	7/30/07 17:00	369.9	262.838
30/07/90 18:00	7/30/07 18:00	361.8	55.025
30/07/90 19:00	7/30/07 19:00	404.1	0
30/07/90 20:00	7/30/07 20:00	419.4	0
30/07/90 21:00	7/30/07 21:00	414.9	0
30/07/90 22:00	7/30/07 22:00	270	0
30/07/90 23:00	7/30/07 23:00	282.6	0
31/07/90 00:00	7/31/07 0:00	282.6	0
31/07/90 01:00	7/31/07 1:00	281.7	0
31/07/90 02:00	7/31/07 2:00	277.2	0
31/07/90 03:00	7/31/07 3:00	278.1	0
31/07/90 04:00	7/31/07 4:00	277.2	0
31/07/90 05:00	7/31/07 5:00	324.9	0
31/07/90 06:00	7/31/07 6:00	401.4	91.027
31/07/90 07:00	7/31/07 7:00	381.6	294.414
31/07/90 08:00	7/31/07 8:00	425.7	305.998

31/07/90 09:00	7/31/07 9:00	453.6	371.346
31/07/90 10:00	7/31/07 10:00	477.9	361.261
31/07/90 11:00	7/31/07 11:00	478.8	627.158
31/07/90 12:00	7/31/07 12:00	491.4	735.913
31/07/90 13:00	7/31/07 13:00	496.8	603.644
31/07/90 14:00	7/31/07 14:00	493.2	522.886
31/07/90 15:00	7/31/07 15:00	484.2	272.808
31/07/90 16:00	7/31/07 16:00	378.9	297.807
31/07/90 17:00	7/31/07 17:00	357.3	158.217
31/07/90 18:00	7/31/07 18:00	342.9	12.275
31/07/90 19:00	7/31/07 19:00	390.6	0
31/07/90 20:00	7/31/07 20:00	409.5	0
31/07/90 21:00	7/31/07 21:00	401.4	0
31/07/90 22:00	7/31/07 22:00	273.6	0
31/07/90 23:00	7/31/07 23:00	286.2	0
1/8/1990 0:00	8/1/07 0:00	288.9	0
1/8/1990 1:00	8/1/07 1:00	290.7	0
1/8/1990 2:00	8/1/07 2:00	291.6	0
1/8/1990 3:00	8/1/07 3:00	293.4	0
1/8/1990 4:00	8/1/07 4:00	288.9	0
1/8/1990 5:00	8/1/07 5:00	332.1	0
1/8/1990 6:00	8/1/07 6:00	404.1	103.14
1/8/1990 7:00	8/1/07 7:00	379.8	219.776
1/8/1990 8:00	8/1/07 8:00	409.5	466.901
1/8/1990 9:00	8/1/07 9:00	433.8	448.725
1/8/1990 10:00	8/1/07 10:00	451.8	470.005
1/8/1990 11:00	8/1/07 11:00	455.4	473.154
1/8/1990 12:00	8/1/07 12:00	465.3	464.177
1/8/1990 13:00	8/1/07 13:00	466.2	493.671
1/8/1990 14:00	8/1/07 14:00	472.5	428.609
1/8/1990 15:00	8/1/07 15:00	466.2	238.592
1/8/1990 16:00	8/1/07 16:00	367.2	159.141
1/8/1990 17:00	8/1/07 17:00	357.3	57.938
1/8/1990 18:00	8/1/07 18:00	346.5	15.006
1/8/1990 19:00	8/1/07 19:00	394.2	0
1/8/1990 20:00	8/1/07 20:00	400.5	0
1/8/1990 21:00	8/1/07 21:00	401.4	0
1/8/1990 22:00	8/1/07 22:00	283.5	0
1/8/1990 23:00	8/1/07 23:00	283.5	0
2/8/1990 0:00	8/2/07 0:00	284.4	0
2/8/1990 1:00	8/2/07 1:00	288.9	0
2/8/1990 2:00	8/2/07 2:00	288	0
2/8/1990 3:00	8/2/07 3:00	289.8	0
2/8/1990 4:00	8/2/07 4:00	286.2	0
2/8/1990 5:00	8/2/07 5:00	334.8	0
2/8/1990 6:00	8/2/07 6:00	399.6	124.96
2/8/1990 7:00	8/2/07 7:00	374.4	327.075

2/8/1990 8:00	8/2/07 8:00	422.1	552.306
2/8/1990 9:00	8/2/07 9:00	438.3	665.506
2/8/1990 10:00	8/2/07 10:00	460.8	746.496
2/8/1990 11:00	8/2/07 11:00	467.1	781.708
2/8/1990 12:00	8/2/07 12:00	476.1	813.468
2/8/1990 13:00	8/2/07 13:00	479.7	782.567
2/8/1990 14:00	8/2/07 14:00	470.7	711.245
2/8/1990 15:00	8/2/07 15:00	459	599.695
2/8/1990 16:00	8/2/07 16:00	354.6	426.39
2/8/1990 17:00	8/2/07 17:00	345.6	229.918
2/8/1990 18:00	8/2/07 18:00	341.1	52.445
2/8/1990 19:00	8/2/07 19:00	386.1	0
2/8/1990 20:00	8/2/07 20:00	396	0
2/8/1990 21:00	8/2/07 21:00	387.9	0
2/8/1990 22:00	8/2/07 22:00	270	0
2/8/1990 23:00	8/2/07 23:00	279	0
3/8/1990 0:00	8/3/07 0:00	279.9	0
3/8/1990 1:00	8/3/07 1:00	279.9	0
3/8/1990 2:00	8/3/07 2:00	279.9	0
3/8/1990 3:00	8/3/07 3:00	262.8	0
3/8/1990 4:00	8/3/07 4:00	251.1	0
3/8/1990 5:00	8/3/07 5:00	301.5	0
3/8/1990 6:00	8/3/07 6:00	387	109.254
3/8/1990 7:00	8/3/07 7:00	348.3	317.686
3/8/1990 8:00	8/3/07 8:00	351	419.004
3/8/1990 9:00	8/3/07 9:00	362.7	571.789
3/8/1990 10:00	8/3/07 10:00	373.5	572.969
3/8/1990 11:00	8/3/07 11:00	385.2	562.567
3/8/1990 12:00	8/3/07 12:00	393.3	750.583
3/8/1990 13:00	8/3/07 13:00	403.2	585.704
3/8/1990 14:00	8/3/07 14:00	404.1	580.158
3/8/1990 15:00	8/3/07 15:00	414.9	482.905
3/8/1990 16:00	8/3/07 16:00	307.8	294.265
3/8/1990 17:00	8/3/07 17:00	307.8	218.071
3/8/1990 18:00	8/3/07 18:00	306	5.272
3/8/1990 19:00	8/3/07 19:00	358.2	0
3/8/1990 20:00	8/3/07 20:00	373.5	0
3/8/1990 21:00	8/3/07 21:00	373.5	0
3/8/1990 22:00	8/3/07 22:00	249.3	0
3/8/1990 23:00	8/3/07 23:00	247.5	0
4/8/1990 0:00	8/4/07 0:00	252	0
4/8/1990 1:00	8/4/07 1:00	250.2	0
4/8/1990 2:00	8/4/07 2:00	251.1	0
4/8/1990 3:00	8/4/07 3:00	249.3	0
4/8/1990 4:00	8/4/07 4:00	249.3	0
4/8/1990 5:00	8/4/07 5:00	248.4	0
4/8/1990 6:00	8/4/07 6:00	213.3	64.52

4/8/1990 7:00	8/4/07 7:00	180	322.675
4/8/1990 8:00	8/4/07 8:00	294.3	397.035
4/8/1990 9:00	8/4/07 9:00	299.7	655.776
4/8/1990 10:00	8/4/07 10:00	297.9	658.295
4/8/1990 11:00	8/4/07 11:00	310.5	520.473
4/8/1990 12:00	8/4/07 12:00	310.5	607.362
4/8/1990 13:00	8/4/07 13:00	296.1	606.422
4/8/1990 14:00	8/4/07 14:00	294.3	591.706
4/8/1990 15:00	8/4/07 15:00	295.2	390.37
4/8/1990 16:00	8/4/07 16:00	214.2	186.708
4/8/1990 17:00	8/4/07 17:00	216	74.466
4/8/1990 18:00	8/4/07 18:00	217.8	7.915
4/8/1990 19:00	8/4/07 19:00	271.8	0
4/8/1990 20:00	8/4/07 20:00	265.5	0
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4/8/1990 22:00	8/4/07 22:00	261.9	0
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5/8/1990 7:00	8/5/07 7:00	188.1	230.483
5/8/1990 8:00	8/5/07 8:00	190.8	519.376
5/8/1990 9:00	8/5/07 9:00	187.2	531.228
5/8/1990 10:00	8/5/07 10:00	185.4	717.364
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5/8/1990 13:00	8/5/07 13:00	183.6	544.23
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5/8/1990 16:00	8/5/07 16:00	183.6	187.567
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5/8/1990 19:00	8/5/07 19:00	242.1	0
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6/8/1990 8:00	8/6/07 8:00	398.7	298.888
6/8/1990 9:00	8/6/07 9:00	443.7	548.03
6/8/1990 10:00	8/6/07 10:00	448.2	407.557
6/8/1990 11:00	8/6/07 11:00	451.8	357.808
6/8/1990 12:00	8/6/07 12:00	457.2	160.919
6/8/1990 13:00	8/6/07 13:00	459	266.126
6/8/1990 14:00	8/6/07 14:00	456.3	423.8
6/8/1990 15:00	8/6/07 15:00	440.1	426.277
6/8/1990 16:00	8/6/07 16:00	373.5	234.598
6/8/1990 17:00	8/6/07 17:00	369.9	125.154
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6/8/1990 20:00	8/6/07 20:00	393.3	0
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7/8/1990 14:00	8/7/07 14:00	452.7	547.859
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8/8/1990 7:00	8/8/07 7:00	363.6	239.239
8/8/1990 8:00	8/8/07 8:00	408.6	349.84
8/8/1990 9:00	8/8/07 9:00	432	478.866
8/8/1990 10:00	8/8/07 10:00	431.1	629.057
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8/8/1990 15:00	8/8/07 15:00	432	502.855
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8/8/1990 17:00	8/8/07 17:00	365.4	122.198
8/8/1990 18:00	8/8/07 18:00	359.1	16.61
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9/8/1990 8:00	8/9/07 8:00	399.6	338.285
9/8/1990 9:00	8/9/07 9:00	417.6	494.319
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9/8/1990 11:00	8/9/07 11:00	448.2	520.847
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9/8/1990 14:00	8/9/07 14:00	465.3	472.251
9/8/1990 15:00	8/9/07 15:00	453.6	317.636
9/8/1990 16:00	8/9/07 16:00	362.7	259.25
9/8/1990 17:00	8/9/07 17:00	357.3	107.244
9/8/1990 18:00	8/9/07 18:00	344.7	11.443
9/8/1990 19:00	8/9/07 19:00	384.3	0
9/8/1990 20:00	8/9/07 20:00	404.1	0
9/8/1990 21:00	8/9/07 21:00	401.4	0
9/8/1990 22:00	8/9/07 22:00	277.2	0
9/8/1990 23:00	8/9/07 23:00	273.6	0
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10/8/1990 8:00	8/10/07 8:00	410.4	61.532
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10/8/1990 10:00	8/10/07 10:00	440.1	116.858
10/8/1990 11:00	8/10/07 11:00	455.4	196.11
10/8/1990 12:00	8/10/07 12:00	462.6	132.238
10/8/1990 13:00	8/10/07 13:00	464.4	204.801
10/8/1990 14:00	8/10/07 14:00	466.2	68.413
10/8/1990 15:00	8/10/07 15:00	452.7	120.945
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10/8/1990 17:00	8/10/07 17:00	342.9	81.915
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10/8/1990 19:00	8/10/07 19:00	377.1	0
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11/8/1990 4:00	8/11/07 4:00	262.8	0
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11/8/1990 7:00	8/11/07 7:00	209.7	162.561
11/8/1990 8:00	8/11/07 8:00	321.3	293.16
11/8/1990 9:00	8/11/07 9:00	331.2	389.746
11/8/1990 10:00	8/11/07 10:00	331.2	307.398
11/8/1990 11:00	8/11/07 11:00	333	511.569
11/8/1990 12:00	8/11/07 12:00	335.7	352.608
11/8/1990 13:00	8/11/07 13:00	319.5	424.793
11/8/1990 14:00	8/11/07 14:00	311.4	228.419
11/8/1990 15:00	8/11/07 15:00	306	220.013
11/8/1990 16:00	8/11/07 16:00	230.4	98.763
11/8/1990 17:00	8/11/07 17:00	232.2	53.26
11/8/1990 18:00	8/11/07 18:00	230.4	6.883
11/8/1990 19:00	8/11/07 19:00	286.2	0
11/8/1990 20:00	8/11/07 20:00	277.2	0
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12/8/1990 7:00	8/12/07 7:00	184.5	303.064
12/8/1990 8:00	8/12/07 8:00	180.9	513.369
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12/8/1990 10:00	8/12/07 10:00	176.4	794.77
12/8/1990 11:00	8/12/07 11:00	179.1	850.003
12/8/1990 12:00	8/12/07 12:00	179.1	862.124
12/8/1990 13:00	8/12/07 13:00	177.3	817.922
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12/8/1990 15:00	8/12/07 15:00	176.4	625.175
12/8/1990 16:00	8/12/07 16:00	175.5	420.537
12/8/1990 17:00	8/12/07 17:00	175.5	203.081
12/8/1990 18:00	8/12/07 18:00	178.2	35.72
12/8/1990 19:00	8/12/07 19:00	234	0
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13/08/90 04:00	8/13/07 4:00	257.4	0
13/08/90 05:00	8/13/07 5:00	309.6	0
13/08/90 06:00	8/13/07 6:00	392.4	113.29
13/08/90 07:00	8/13/07 7:00	363.6	319.45
13/08/90 08:00	8/13/07 8:00	387.9	496.139
13/08/90 09:00	8/13/07 9:00	422.1	656.091
13/08/90 10:00	8/13/07 10:00	440.1	788.224
13/08/90 11:00	8/13/07 11:00	458.1	834.093
13/08/90 12:00	8/13/07 12:00	472.5	844.753
13/08/90 13:00	8/13/07 13:00	466.2	810.698
13/08/90 14:00	8/13/07 14:00	479.7	707.282
13/08/90 15:00	8/13/07 15:00	482.4	556.96
13/08/90 16:00	8/13/07 16:00	369.9	420.065
13/08/90 17:00	8/13/07 17:00	351	202.895
13/08/90 18:00	8/13/07 18:00	342.9	27.808
13/08/90 19:00	8/13/07 19:00	387.9	0
13/08/90 20:00	8/13/07 20:00	406.8	0
13/08/90 21:00	8/13/07 21:00	404.1	0
13/08/90 22:00	8/13/07 22:00	285.3	0
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14/08/90 07:00	8/14/07 7:00	352.8	230.214
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14/08/90 11:00	8/14/07 11:00	450	597.657
14/08/90 12:00	8/14/07 12:00	459.9	708.867
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14/08/90 16:00	8/14/07 16:00	363.6	315.075
14/08/90 17:00	8/14/07 17:00	348.3	119.923
14/08/90 18:00	8/14/07 18:00	324.9	16.732
14/08/90 19:00	8/14/07 19:00	368.1	0
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15/08/90 05:00	8/15/07 5:00	298.8	0
15/08/90 06:00	8/15/07 6:00	377.1	94.003
15/08/90 07:00	8/15/07 7:00	354.6	289.614
15/08/90 08:00	8/15/07 8:00	389.7	437.674
15/08/90 09:00	8/15/07 9:00	414.9	575.001
15/08/90 10:00	8/15/07 10:00	429.3	678.862
15/08/90 11:00	8/15/07 11:00	451.8	673.099
15/08/90 12:00	8/15/07 12:00	470.7	755.258
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15/08/90 14:00	8/15/07 14:00	473.4	547.95
15/08/90 15:00	8/15/07 15:00	487.8	481.001
15/08/90 16:00	8/15/07 16:00	378.9	322.562
15/08/90 17:00	8/15/07 17:00	360	160.381
15/08/90 18:00	8/15/07 18:00	344.7	22.402
15/08/90 19:00	8/15/07 19:00	387.9	0
15/08/90 20:00	8/15/07 20:00	405	0
15/08/90 21:00	8/15/07 21:00	402.3	0
15/08/90 22:00	8/15/07 22:00	262.8	0
15/08/90 23:00	8/15/07 23:00	263.7	0
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16/08/90 07:00	8/16/07 7:00	386.1	281.36
16/08/90 08:00	8/16/07 8:00	429.3	422.551
16/08/90 09:00	8/16/07 9:00	443.7	578.938
16/08/90 10:00	8/16/07 10:00	450.9	649.051
16/08/90 11:00	8/16/07 11:00	462.6	651.005
16/08/90 12:00	8/16/07 12:00	467.1	725.502
16/08/90 13:00	8/16/07 13:00	464.4	616.366
16/08/90 14:00	8/16/07 14:00	478.8	576.544
16/08/90 15:00	8/16/07 15:00	490.5	428.364
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16/08/90 17:00	8/16/07 17:00	365.4	163.069
16/08/90 18:00	8/16/07 18:00	354.6	27.362
16/08/90 19:00	8/16/07 19:00	401.4	0
16/08/90 20:00	8/16/07 20:00	410.4	0
16/08/90 21:00	8/16/07 21:00	407.7	0
16/08/90 22:00	8/16/07 22:00	287.1	0
16/08/90 23:00	8/16/07 23:00	269.1	0
17/08/90 00:00	8/17/07 0:00	276.3	0
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17/08/90 04:00	8/17/07 4:00	263.7	0
17/08/90 05:00	8/17/07 5:00	307.8	0
17/08/90 06:00	8/17/07 6:00	396.9	97.337
17/08/90 07:00	8/17/07 7:00	370.8	269.866
17/08/90 08:00	8/17/07 8:00	399.6	461.826
17/08/90 09:00	8/17/07 9:00	444.6	620.433
17/08/90 10:00	8/17/07 10:00	460.8	766.046
17/08/90 11:00	8/17/07 11:00	471.6	808.531
17/08/90 12:00	8/17/07 12:00	496.8	769.767
17/08/90 13:00	8/17/07 13:00	509.4	700.4
17/08/90 14:00	8/17/07 14:00	515.7	657.46
17/08/90 15:00	8/17/07 15:00	519.3	466.283
17/08/90 16:00	8/17/07 16:00	389.7	406.719
17/08/90 17:00	8/17/07 17:00	361.8	151.84
17/08/90 18:00	8/17/07 18:00	344.7	8.778
17/08/90 19:00	8/17/07 19:00	389.7	0
17/08/90 20:00	8/17/07 20:00	403.2	0
17/08/90 21:00	8/17/07 21:00	397.8	0
17/08/90 22:00	8/17/07 22:00	277.2	0
17/08/90 23:00	8/17/07 23:00	268.2	0

18/08/90 00:00	8/18/07 0:00	267.3	0
18/08/90 01:00	8/18/07 1:00	272.7	0
18/08/90 02:00	8/18/07 2:00	266.4	0
18/08/90 03:00	8/18/07 3:00	264.6	0
18/08/90 04:00	8/18/07 4:00	262.8	0
18/08/90 05:00	8/18/07 5:00	252	0
18/08/90 06:00	8/18/07 6:00	221.4	14.82
18/08/90 07:00	8/18/07 7:00	192.6	185.385
18/08/90 08:00	8/18/07 8:00	310.5	147.256
18/08/90 09:00	8/18/07 9:00	330.3	278.154
18/08/90 10:00	8/18/07 10:00	333.9	285.951
18/08/90 11:00	8/18/07 11:00	337.5	490.725
18/08/90 12:00	8/18/07 12:00	339.3	321.381
18/08/90 13:00	8/18/07 13:00	317.7	483.644
18/08/90 14:00	8/18/07 14:00	309.6	525.105
18/08/90 15:00	8/18/07 15:00	292.5	208.074
18/08/90 16:00	8/18/07 16:00	216	142.333
18/08/90 17:00	8/18/07 17:00	216	131.19
18/08/90 18:00	8/18/07 18:00	213.3	0
18/08/90 19:00	8/18/07 19:00	271.8	0
18/08/90 20:00	8/18/07 20:00	260.1	0
18/08/90 21:00	8/18/07 21:00	253.8	0
18/08/90 22:00	8/18/07 22:00	250.2	0
18/08/90 23:00	8/18/07 23:00	248.4	0
19/08/90 00:00	8/19/07 0:00	249.3	0
19/08/90 01:00	8/19/07 1:00	248.4	0
19/08/90 02:00	8/19/07 2:00	250.2	0
19/08/90 03:00	8/19/07 3:00	251.1	0
19/08/90 04:00	8/19/07 4:00	251.1	0
19/08/90 05:00	8/19/07 5:00	288.9	0
19/08/90 06:00	8/19/07 6:00	307.8	48.131
19/08/90 07:00	8/19/07 7:00	171	220.894
19/08/90 08:00	8/19/07 8:00	168.3	476.868
19/08/90 09:00	8/19/07 9:00	171.9	570.93
19/08/90 10:00	8/19/07 10:00	171	625.436
19/08/90 11:00	8/19/07 11:00	171.9	770.988
19/08/90 12:00	8/19/07 12:00	173.7	786.268
19/08/90 13:00	8/19/07 13:00	177.3	669.991
19/08/90 14:00	8/19/07 14:00	174.6	572.258
19/08/90 15:00	8/19/07 15:00	178.2	470.019
19/08/90 16:00	8/19/07 16:00	175.5	352.295
19/08/90 17:00	8/19/07 17:00	170.1	152.196
19/08/90 18:00	8/19/07 18:00	171	14.86
19/08/90 19:00	8/19/07 19:00	225	0
19/08/90 20:00	8/19/07 20:00	252	0
19/08/90 21:00	8/19/07 21:00	246.6	0
19/08/90 22:00	8/19/07 22:00	248.4	0

19/08/90 23:00	8/19/07 23:00	243.9	0
20/08/90 00:00	8/20/07 0:00	249.3	0
20/08/90 01:00	8/20/07 1:00	252	0
20/08/90 02:00	8/20/07 2:00	247.5	0
20/08/90 03:00	8/20/07 3:00	248.4	0
20/08/90 04:00	8/20/07 4:00	245.7	0
20/08/90 05:00	8/20/07 5:00	301.5	0
20/08/90 06:00	8/20/07 6:00	441.9	101.11
20/08/90 07:00	8/20/07 7:00	428.4	301.733
20/08/90 08:00	8/20/07 8:00	466.2	469.098
20/08/90 09:00	8/20/07 9:00	496.8	541.882
20/08/90 10:00	8/20/07 10:00	508.5	723.654
20/08/90 11:00	8/20/07 11:00	549	763.379
20/08/90 12:00	8/20/07 12:00	551.7	740.334
20/08/90 13:00	8/20/07 13:00	540	727.219
20/08/90 14:00	8/20/07 14:00	543.6	589.062
20/08/90 15:00	8/20/07 15:00	520.2	518.645
20/08/90 16:00	8/20/07 16:00	383.4	330.407
20/08/90 17:00	8/20/07 17:00	356.4	140.629
20/08/90 18:00	8/20/07 18:00	346.5	10.717
20/08/90 19:00	8/20/07 19:00	384.3	0
20/08/90 20:00	8/20/07 20:00	404.1	0
20/08/90 21:00	8/20/07 21:00	397.8	0
20/08/90 22:00	8/20/07 22:00	270	0
20/08/90 23:00	8/20/07 23:00	276.3	0
21/08/90 00:00	8/21/07 0:00	279.9	0
21/08/90 01:00	8/21/07 1:00	295.2	0
21/08/90 02:00	8/21/07 2:00	296.1	0
21/08/90 03:00	8/21/07 3:00	291.6	0
21/08/90 04:00	8/21/07 4:00	295.2	0
21/08/90 05:00	8/21/07 5:00	337.5	0
21/08/90 06:00	8/21/07 6:00	429.3	92.921
21/08/90 07:00	8/21/07 7:00	409.5	295.691
21/08/90 08:00	8/21/07 8:00	473.4	439.087
21/08/90 09:00	8/21/07 9:00	496.8	620.217
21/08/90 10:00	8/21/07 10:00	510.3	728.654
21/08/90 11:00	8/21/07 11:00	544.5	806.742
21/08/90 12:00	8/21/07 12:00	571.5	793.484
21/08/90 13:00	8/21/07 13:00	538.2	751.921
21/08/90 14:00	8/21/07 14:00	544.5	657.317
21/08/90 15:00	8/21/07 15:00	544.5	513.144
21/08/90 16:00	8/21/07 16:00	535.5	342.837
21/08/90 17:00	8/21/07 17:00	515.7	149.034
21/08/90 18:00	8/21/07 18:00	487.8	7.252
21/08/90 19:00	8/21/07 19:00	532.8	0
21/08/90 20:00	8/21/07 20:00	468.9	0
21/08/90 21:00	8/21/07 21:00	450.9	0

21/08/90 22:00	8/21/07 22:00	306	0
21/08/90 23:00	8/21/07 23:00	299.7	0
22/08/90 00:00	8/22/07 0:00	306.9	0
22/08/90 01:00	8/22/07 1:00	309.6	0
22/08/90 02:00	8/22/07 2:00	297.9	0
22/08/90 03:00	8/22/07 3:00	299.7	0
22/08/90 04:00	8/22/07 4:00	297	0
22/08/90 05:00	8/22/07 5:00	345.6	0
22/08/90 06:00	8/22/07 6:00	471.6	57.946
22/08/90 07:00	8/22/07 7:00	468	253.515
22/08/90 08:00	8/22/07 8:00	584.1	267.026
22/08/90 09:00	8/22/07 9:00	627.3	380.106
22/08/90 10:00	8/22/07 10:00	642.6	677.562
22/08/90 11:00	8/22/07 11:00	628.2	465.792
22/08/90 12:00	8/22/07 12:00	614.7	370.345
22/08/90 13:00	8/22/07 13:00	615.6	446.01
22/08/90 14:00	8/22/07 14:00	617.4	445.581
22/08/90 15:00	8/22/07 15:00	600.3	440.717
22/08/90 16:00	8/22/07 16:00	580.5	261.161
22/08/90 17:00	8/22/07 17:00	562.5	101.953
22/08/90 18:00	8/22/07 18:00	563.4	1.249347
22/08/90 19:00	8/22/07 19:00	597.6	0
22/08/90 20:00	8/22/07 20:00	504	0
22/08/90 21:00	8/22/07 21:00	459.9	0
22/08/90 22:00	8/22/07 22:00	310.5	0
22/08/90 23:00	8/22/07 23:00	304.2	0
23/08/90 00:00	8/23/07 0:00	305.1	0
23/08/90 01:00	8/23/07 1:00	301.5	0
23/08/90 02:00	8/23/07 2:00	300.6	0
23/08/90 03:00	8/23/07 3:00	312.3	0
23/08/90 04:00	8/23/07 4:00	308.7	0
23/08/90 05:00	8/23/07 5:00	347.4	0
23/08/90 06:00	8/23/07 6:00	449.1	79.221
23/08/90 07:00	8/23/07 7:00	495	203.002
23/08/90 08:00	8/23/07 8:00	577.8	332.293
23/08/90 09:00	8/23/07 9:00	623.7	479.865
23/08/90 10:00	8/23/07 10:00	640.8	632.15
23/08/90 11:00	8/23/07 11:00	641.7	737.784
23/08/90 12:00	8/23/07 12:00	641.7	654.911
23/08/90 13:00	8/23/07 13:00	633.6	674.52
23/08/90 14:00	8/23/07 14:00	619.2	639.736
23/08/90 15:00	8/23/07 15:00	600.3	360.548
23/08/90 16:00	8/23/07 16:00	587.7	270.687
23/08/90 17:00	8/23/07 17:00	550.8	165.879
23/08/90 18:00	8/23/07 18:00	559.8	5.533
23/08/90 19:00	8/23/07 19:00	567	0
23/08/90 20:00	8/23/07 20:00	500.4	0

23/08/90 21:00	8/23/07 21:00	468	0
23/08/90 22:00	8/23/07 22:00	333	0
23/08/90 23:00	8/23/07 23:00	327.6	0
24/08/90 00:00	8/24/07 0:00	326.7	0
24/08/90 01:00	8/24/07 1:00	320.4	0
24/08/90 02:00	8/24/07 2:00	311.4	0
24/08/90 03:00	8/24/07 3:00	315.9	0
24/08/90 04:00	8/24/07 4:00	315	0
24/08/90 05:00	8/24/07 5:00	352.8	0
24/08/90 06:00	8/24/07 6:00	450.9	60.305
24/08/90 07:00	8/24/07 7:00	452.7	293.059
24/08/90 08:00	8/24/07 8:00	513	371.779
24/08/90 09:00	8/24/07 9:00	567	526.516
24/08/90 10:00	8/24/07 10:00	582.3	667.097
24/08/90 11:00	8/24/07 11:00	576.9	643.263
24/08/90 12:00	8/24/07 12:00	577.8	653.662
24/08/90 13:00	8/24/07 13:00	563.4	593.871
24/08/90 14:00	8/24/07 14:00	560.7	452.353
24/08/90 15:00	8/24/07 15:00	538.2	278.572
24/08/90 16:00	8/24/07 16:00	504	193.246
24/08/90 17:00	8/24/07 17:00	475.2	34.316
24/08/90 18:00	8/24/07 18:00	461.7	0
24/08/90 19:00	8/24/07 19:00	481.5	0
24/08/90 20:00	8/24/07 20:00	447.3	0
24/08/90 21:00	8/24/07 21:00	439.2	0
24/08/90 22:00	8/24/07 22:00	291.6	0
24/08/90 23:00	8/24/07 23:00	252.9	0
25/08/90 00:00	8/25/07 0:00	264.6	0
25/08/90 01:00	8/25/07 1:00	267.3	0
25/08/90 02:00	8/25/07 2:00	264.6	0
25/08/90 03:00	8/25/07 3:00	261.9	0
25/08/90 04:00	8/25/07 4:00	261.9	0
25/08/90 05:00	8/25/07 5:00	262.8	0
25/08/90 06:00	8/25/07 6:00	271.8	81.081
25/08/90 07:00	8/25/07 7:00	238.5	256.372
25/08/90 08:00	8/25/07 8:00	384.3	412.539
25/08/90 09:00	8/25/07 9:00	406.8	583.722
25/08/90 10:00	8/25/07 10:00	423	659.611
25/08/90 11:00	8/25/07 11:00	421.2	559.844
25/08/90 12:00	8/25/07 12:00	417.6	554.836
25/08/90 13:00	8/25/07 13:00	402.3	620.845
25/08/90 14:00	8/25/07 14:00	396.9	569.356
25/08/90 15:00	8/25/07 15:00	385.2	260.927
25/08/90 16:00	8/25/07 16:00	294.3	135.268
25/08/90 17:00	8/25/07 17:00	293.4	72.809
25/08/90 18:00	8/25/07 18:00	273.6	0
25/08/90 19:00	8/25/07 19:00	328.5	0

25/08/90 20:00	8/25/07 20:00	262.8	0
25/08/90 21:00	8/25/07 21:00	256.5	0
25/08/90 22:00	8/25/07 22:00	256.5	0
25/08/90 23:00	8/25/07 23:00	253.8	0
26/08/90 00:00	8/26/07 0:00	256.5	0
26/08/90 01:00	8/26/07 1:00	258.3	0
26/08/90 02:00	8/26/07 2:00	256.5	0
26/08/90 03:00	8/26/07 3:00	255.6	0
26/08/90 04:00	8/26/07 4:00	256.5	0
26/08/90 05:00	8/26/07 5:00	295.2	0
26/08/90 06:00	8/26/07 6:00	313.2	78.914
26/08/90 07:00	8/26/07 7:00	181.8	223.075
26/08/90 08:00	8/26/07 8:00	179.1	455.508
26/08/90 09:00	8/26/07 9:00	187.2	631.093
26/08/90 10:00	8/26/07 10:00	196.2	735.24
26/08/90 11:00	8/26/07 11:00	205.2	793.409
26/08/90 12:00	8/26/07 12:00	206.1	813.28
26/08/90 13:00	8/26/07 13:00	207	772.594
26/08/90 14:00	8/26/07 14:00	196.2	660.351
26/08/90 15:00	8/26/07 15:00	193.5	562.197
26/08/90 16:00	8/26/07 16:00	191.7	364.098
26/08/90 17:00	8/26/07 17:00	192.6	185.024
26/08/90 18:00	8/26/07 18:00	190.8	0
26/08/90 19:00	8/26/07 19:00	250.2	0
26/08/90 20:00	8/26/07 20:00	271.8	0
26/08/90 21:00	8/26/07 21:00	271.8	0
26/08/90 22:00	8/26/07 22:00	270	0
26/08/90 23:00	8/26/07 23:00	268.2	0
27/08/90 00:00	8/27/07 0:00	275.4	0
27/08/90 01:00	8/27/07 1:00	277.2	0
27/08/90 02:00	8/27/07 2:00	271.8	0
27/08/90 03:00	8/27/07 3:00	270.9	0
27/08/90 04:00	8/27/07 4:00	270.9	0
27/08/90 05:00	8/27/07 5:00	326.7	0
27/08/90 06:00	8/27/07 6:00	407.7	9.112
27/08/90 07:00	8/27/07 7:00	443.7	232.314
27/08/90 08:00	8/27/07 8:00	530.1	235.948
27/08/90 09:00	8/27/07 9:00	592.2	535.152
27/08/90 10:00	8/27/07 10:00	590.4	536.535
27/08/90 11:00	8/27/07 11:00	610.2	710.18
27/08/90 12:00	8/27/07 12:00	611.1	708.659
27/08/90 13:00	8/27/07 13:00	601.2	630.606
27/08/90 14:00	8/27/07 14:00	594	589.142
27/08/90 15:00	8/27/07 15:00	583.2	422.697
27/08/90 16:00	8/27/07 16:00	570.6	267.756
27/08/90 17:00	8/27/07 17:00	553.5	86.149
27/08/90 18:00	8/27/07 18:00	555.3	0

27/08/90 19:00	8/27/07 19:00	576	0
27/08/90 20:00	8/27/07 20:00	521.1	0
27/08/90 21:00	8/27/07 21:00	473.4	0
27/08/90 22:00	8/27/07 22:00	321.3	0
27/08/90 23:00	8/27/07 23:00	326.7	0
28/08/90 00:00	8/28/07 0:00	317.7	0
28/08/90 01:00	8/28/07 1:00	323.1	0
28/08/90 02:00	8/28/07 2:00	318.6	0
28/08/90 03:00	8/28/07 3:00	319.5	0
28/08/90 04:00	8/28/07 4:00	315.9	0
28/08/90 05:00	8/28/07 5:00	361.8	0
28/08/90 06:00	8/28/07 6:00	451.8	52.831
28/08/90 07:00	8/28/07 7:00	457.2	229.666
28/08/90 08:00	8/28/07 8:00	540.9	386.818
28/08/90 09:00	8/28/07 9:00	609.3	504.953
28/08/90 10:00	8/28/07 10:00	621	636.854
28/08/90 11:00	8/28/07 11:00	622.8	829.923
28/08/90 12:00	8/28/07 12:00	629.1	670.864
28/08/90 13:00	8/28/07 13:00	625.5	695.844
28/08/90 14:00	8/28/07 14:00	612.9	618.48
28/08/90 15:00	8/28/07 15:00	606.6	430.09
28/08/90 16:00	8/28/07 16:00	576	381.157
28/08/90 17:00	8/28/07 17:00	548.1	117.329
28/08/90 18:00	8/28/07 18:00	575.1	0
28/08/90 19:00	8/28/07 19:00	606.6	0
28/08/90 20:00	8/28/07 20:00	531.9	0
28/08/90 21:00	8/28/07 21:00	494.1	0
28/08/90 22:00	8/28/07 22:00	325.8	0
28/08/90 23:00	8/28/07 23:00	316.8	0
29/08/90 00:00	8/29/07 0:00	315	0
29/08/90 01:00	8/29/07 1:00	309.6	0
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29/08/90 03:00	8/29/07 3:00	310.5	0
29/08/90 04:00	8/29/07 4:00	314.1	0
29/08/90 05:00	8/29/07 5:00	346.5	0
29/08/90 06:00	8/29/07 6:00	440.1	73.002
29/08/90 07:00	8/29/07 7:00	462.6	151.339
29/08/90 08:00	8/29/07 8:00	551.7	289.191
29/08/90 09:00	8/29/07 9:00	617.4	445.376
29/08/90 10:00	8/29/07 10:00	629.1	569.974
29/08/90 11:00	8/29/07 11:00	634.5	665.526
29/08/90 12:00	8/29/07 12:00	638.1	535.269
29/08/90 13:00	8/29/07 13:00	619.2	346.403
29/08/90 14:00	8/29/07 14:00	601.2	559.856
29/08/90 15:00	8/29/07 15:00	608.4	264.025
29/08/90 16:00	8/29/07 16:00	590.4	186.116
29/08/90 17:00	8/29/07 17:00	572.4	110.249

29/08/90 18:00	8/29/07 18:00	567	0
29/08/90 19:00	8/29/07 19:00	609.3	0
29/08/90 20:00	8/29/07 20:00	519.3	0
29/08/90 21:00	8/29/07 21:00	475.2	0
29/08/90 22:00	8/29/07 22:00	328.5	0
29/08/90 23:00	8/29/07 23:00	333.9	0
30/08/90 00:00	8/30/07 0:00	334.8	0
30/08/90 01:00	8/30/07 1:00	329.4	0
30/08/90 02:00	8/30/07 2:00	320.4	0
30/08/90 03:00	8/30/07 3:00	318.6	0
30/08/90 04:00	8/30/07 4:00	313.2	0
30/08/90 05:00	8/30/07 5:00	346.5	0
30/08/90 06:00	8/30/07 6:00	463.5	38.591
30/08/90 07:00	8/30/07 7:00	493.2	176.304
30/08/90 08:00	8/30/07 8:00	573.3	307.517
30/08/90 09:00	8/30/07 9:00	636.3	263.487
30/08/90 10:00	8/30/07 10:00	641.7	449.314
30/08/90 11:00	8/30/07 11:00	628.2	546.476
30/08/90 12:00	8/30/07 12:00	630.9	552.769
30/08/90 13:00	8/30/07 13:00	613.8	295.431
30/08/90 14:00	8/30/07 14:00	610.2	193.357
30/08/90 15:00	8/30/07 15:00	599.4	260.23
30/08/90 16:00	8/30/07 16:00	570.6	231.343
30/08/90 17:00	8/30/07 17:00	557.1	54.11
30/08/90 18:00	8/30/07 18:00	568.8	0
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30/08/90 21:00	8/30/07 21:00	505.8	0
30/08/90 22:00	8/30/07 22:00	340.2	0
30/08/90 23:00	8/30/07 23:00	339.3	0
31/08/90 00:00	8/31/07 0:00	330.3	0
31/08/90 01:00	8/31/07 1:00	315.9	0
31/08/90 02:00	8/31/07 2:00	312.3	0
31/08/90 03:00	8/31/07 3:00	309.6	0
31/08/90 04:00	8/31/07 4:00	311.4	0
31/08/90 05:00	8/31/07 5:00	338.4	0
31/08/90 06:00	8/31/07 6:00	457.2	65.987
31/08/90 07:00	8/31/07 7:00	474.3	271.738
31/08/90 08:00	8/31/07 8:00	540.9	496.401
31/08/90 09:00	8/31/07 9:00	561.6	604.561
31/08/90 10:00	8/31/07 10:00	576	685.875
31/08/90 11:00	8/31/07 11:00	577.8	748.503
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31/08/90 15:00	8/31/07 15:00	547.2	471.331
31/08/90 16:00	8/31/07 16:00	513.9	326.571

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31/08/90 20:00	8/31/07 20:00	439.2	0
31/08/90 21:00	8/31/07 21:00	421.2	0
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1/9/1990 12:00	9/1/07 12:00	426.6	717.942
1/9/1990 13:00	9/1/07 13:00	423.9	509.968
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2/9/1990 7:00	9/2/07 7:00	184.5	90.727
2/9/1990 8:00	9/2/07 8:00	180.9	192.028
2/9/1990 9:00	9/2/07 9:00	179.1	313.848
2/9/1990 10:00	9/2/07 10:00	178.2	578.925
2/9/1990 11:00	9/2/07 11:00	176.4	340.97
2/9/1990 12:00	9/2/07 12:00	184.5	396.989
2/9/1990 13:00	9/2/07 13:00	204.3	446.848
2/9/1990 14:00	9/2/07 14:00	207	408.1
2/9/1990 15:00	9/2/07 15:00	202.5	324.187

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2/9/1990 17:00	9/2/07 17:00	186.3	35.06
2/9/1990 18:00	9/2/07 18:00	177.3	0
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3/9/1990 6:00	9/3/07 6:00	408.6	22.922
3/9/1990 7:00	9/3/07 7:00	373.5	123.408
3/9/1990 8:00	9/3/07 8:00	381.6	108.972
3/9/1990 9:00	9/3/07 9:00	385.2	373.968
3/9/1990 10:00	9/3/07 10:00	387	527.083
3/9/1990 11:00	9/3/07 11:00	390.6	371.266
3/9/1990 12:00	9/3/07 12:00	387	261.407
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3/9/1990 14:00	9/3/07 14:00	390.6	125.121
3/9/1990 15:00	9/3/07 15:00	392.4	56.495
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3/9/1990 17:00	9/3/07 17:00	389.7	26.571
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4/9/1990 13:00	9/4/07 13:00	631.8	644.675
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6/9/1990 7:00	9/6/07 7:00	503.1	293.638
6/9/1990 8:00	9/6/07 8:00	587.7	365.402
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6/9/1990 15:00	9/6/07 15:00	582.3	417.919
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8/9/1990 7:00	9/8/07 7:00	235.8	232.924
8/9/1990 8:00	9/8/07 8:00	373.5	364.31
8/9/1990 9:00	9/8/07 9:00	409.5	434.245
8/9/1990 10:00	9/8/07 10:00	426.6	470.227
8/9/1990 11:00	9/8/07 11:00	431.1	556.116
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10/9/1990 10:00	9/10/07 10:00	624.6	703.959
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10/9/1990 21:00	9/10/07 21:00	465.3	0
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11/9/1990 14:00	9/11/07 14:00	615.6	672.732
11/9/1990 15:00	9/11/07 15:00	616.5	524.317
11/9/1990 16:00	9/11/07 16:00	574.2	312.3
11/9/1990 17:00	9/11/07 17:00	547.2	99.298
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11/9/1990 21:00	9/11/07 21:00	504	0
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12/9/1990 3:00	9/12/07 3:00	283.5	0
12/9/1990 4:00	9/12/07 4:00	285.3	0
12/9/1990 5:00	9/12/07 5:00	349.2	0
12/9/1990 6:00	9/12/07 6:00	480.6	43.601
12/9/1990 7:00	9/12/07 7:00	450.9	255.241
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12/9/1990 9:00	9/12/07 9:00	618.3	633.04
12/9/1990 10:00	9/12/07 10:00	620.1	747.208

12/9/1990 11:00	9/12/07 11:00	626.4	792.345
12/9/1990 12:00	9/12/07 12:00	639	815.101
12/9/1990 13:00	9/12/07 13:00	624.6	768.814
12/9/1990 14:00	9/12/07 14:00	621	664.301
12/9/1990 15:00	9/12/07 15:00	614.7	510.788
12/9/1990 16:00	9/12/07 16:00	581.4	314.819
12/9/1990 17:00	9/12/07 17:00	571.5	94.179
12/9/1990 18:00	9/12/07 18:00	585.9	0
12/9/1990 19:00	9/12/07 19:00	622.8	0
12/9/1990 20:00	9/12/07 20:00	584.1	0
12/9/1990 21:00	9/12/07 21:00	549.9	0
12/9/1990 22:00	9/12/07 22:00	382.5	0
12/9/1990 23:00	9/12/07 23:00	370.8	0
13/09/90 00:00	9/13/07 0:00	373.5	0
13/09/90 01:00	9/13/07 1:00	367.2	0
13/09/90 02:00	9/13/07 2:00	355.5	0
13/09/90 03:00	9/13/07 3:00	369	0
13/09/90 04:00	9/13/07 4:00	363.6	0
13/09/90 05:00	9/13/07 5:00	393.3	0
13/09/90 06:00	9/13/07 6:00	506.7	42.365
13/09/90 07:00	9/13/07 7:00	478.8	276.333
13/09/90 08:00	9/13/07 8:00	590.4	504.596
13/09/90 09:00	9/13/07 9:00	629.1	672.755
13/09/90 10:00	9/13/07 10:00	632.7	770.635
13/09/90 11:00	9/13/07 11:00	633.6	839.138
13/09/90 12:00	9/13/07 12:00	653.4	834.019
13/09/90 13:00	9/13/07 13:00	632.7	790.498
13/09/90 14:00	9/13/07 14:00	606.6	685.135
13/09/90 15:00	9/13/07 15:00	573.3	516.248
13/09/90 16:00	9/13/07 16:00	559.8	326.439
13/09/90 17:00	9/13/07 17:00	534.6	60.608
13/09/90 18:00	9/13/07 18:00	538.2	0
13/09/90 19:00	9/13/07 19:00	576.9	0
13/09/90 20:00	9/13/07 20:00	543.6	0
13/09/90 21:00	9/13/07 21:00	503.1	0
13/09/90 22:00	9/13/07 22:00	334.8	0
13/09/90 23:00	9/13/07 23:00	332.1	0
14/09/90 00:00	9/14/07 0:00	327.6	0
14/09/90 01:00	9/14/07 1:00	335.7	0
14/09/90 02:00	9/14/07 2:00	333.9	0
14/09/90 03:00	9/14/07 3:00	339.3	0
14/09/90 04:00	9/14/07 4:00	324.9	0
14/09/90 05:00	9/14/07 5:00	354.6	0
14/09/90 06:00	9/14/07 6:00	491.4	40.464
14/09/90 07:00	9/14/07 7:00	463.5	240.012
14/09/90 08:00	9/14/07 8:00	541.8	420.648
14/09/90 09:00	9/14/07 9:00	590.4	633.976

14/09/90 10:00	9/14/07 10:00	603.9	725.72
14/09/90 11:00	9/14/07 11:00	583.2	784.533
14/09/90 12:00	9/14/07 12:00	599.4	794.877
14/09/90 13:00	9/14/07 13:00	596.7	722.089
14/09/90 14:00	9/14/07 14:00	589.5	610.741
14/09/90 15:00	9/14/07 15:00	565.2	524.78
14/09/90 16:00	9/14/07 16:00	526.5	276.884
14/09/90 17:00	9/14/07 17:00	490.5	95.36
14/09/90 18:00	9/14/07 18:00	481.5	0
14/09/90 19:00	9/14/07 19:00	529.2	0
14/09/90 20:00	9/14/07 20:00	502.2	0
14/09/90 21:00	9/14/07 21:00	468	0
14/09/90 22:00	9/14/07 22:00	346.5	0
14/09/90 23:00	9/14/07 23:00	347.4	0
15/09/90 00:00	9/15/07 0:00	341.1	0
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15/09/90 02:00	9/15/07 2:00	349.2	0
15/09/90 03:00	9/15/07 3:00	345.6	0
15/09/90 04:00	9/15/07 4:00	333.9	0
15/09/90 05:00	9/15/07 5:00	305.1	0
15/09/90 06:00	9/15/07 6:00	307.8	37.747
15/09/90 07:00	9/15/07 7:00	247.5	263.498
15/09/90 08:00	9/15/07 8:00	389.7	371.889
15/09/90 09:00	9/15/07 9:00	414	579.496
15/09/90 10:00	9/15/07 10:00	424.8	660.933
15/09/90 11:00	9/15/07 11:00	433.8	738.228
15/09/90 12:00	9/15/07 12:00	439.2	731.088
15/09/90 13:00	9/15/07 13:00	423	703.137
15/09/90 14:00	9/15/07 14:00	413.1	628.348
15/09/90 15:00	9/15/07 15:00	391.5	425.689
15/09/90 16:00	9/15/07 16:00	302.4	216.731
15/09/90 17:00	9/15/07 17:00	287.1	89.412
15/09/90 18:00	9/15/07 18:00	285.3	0
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15/09/90 20:00	9/15/07 20:00	291.6	0
15/09/90 21:00	9/15/07 21:00	285.3	0
15/09/90 22:00	9/15/07 22:00	285.3	0
15/09/90 23:00	9/15/07 23:00	281.7	0
16/09/90 00:00	9/16/07 0:00	279	0
16/09/90 01:00	9/16/07 1:00	286.2	0
16/09/90 02:00	9/16/07 2:00	287.1	0
16/09/90 03:00	9/16/07 3:00	279	0
16/09/90 04:00	9/16/07 4:00	281.7	0
16/09/90 05:00	9/16/07 5:00	323.1	0
16/09/90 06:00	9/16/07 6:00	374.4	36.578
16/09/90 07:00	9/16/07 7:00	209.7	260.929
16/09/90 08:00	9/16/07 8:00	213.3	466.617

16/09/90 09:00	9/16/07 9:00	216	656.54
16/09/90 10:00	9/16/07 10:00	215.1	774.511
16/09/90 11:00	9/16/07 11:00	218.7	829.083
16/09/90 12:00	9/16/07 12:00	218.7	830.609
16/09/90 13:00	9/16/07 13:00	225.9	779.645
16/09/90 14:00	9/16/07 14:00	224.1	653.667
16/09/90 15:00	9/16/07 15:00	227.7	460.223
16/09/90 16:00	9/16/07 16:00	216.9	280.253
16/09/90 17:00	9/16/07 17:00	207.9	93.432
16/09/90 18:00	9/16/07 18:00	207.9	0
16/09/90 19:00	9/16/07 19:00	264.6	0
16/09/90 20:00	9/16/07 20:00	274.5	0
16/09/90 21:00	9/16/07 21:00	272.7	0
16/09/90 22:00	9/16/07 22:00	276.3	0
16/09/90 23:00	9/16/07 23:00	268.2	0
17/09/90 00:00	9/17/07 0:00	274.5	0
17/09/90 01:00	9/17/07 1:00	279.9	0
17/09/90 02:00	9/17/07 2:00	266.4	0
17/09/90 03:00	9/17/07 3:00	272.7	0
17/09/90 04:00	9/17/07 4:00	272.7	0
17/09/90 05:00	9/17/07 5:00	327.6	0
17/09/90 06:00	9/17/07 6:00	460.8	34.927
17/09/90 07:00	9/17/07 7:00	466.2	192.821
17/09/90 08:00	9/17/07 8:00	554.4	374.469
17/09/90 09:00	9/17/07 9:00	605.7	470.245
17/09/90 10:00	9/17/07 10:00	622.8	547.315
17/09/90 11:00	9/17/07 11:00	619.2	590.427
17/09/90 12:00	9/17/07 12:00	616.5	602.777
17/09/90 13:00	9/17/07 13:00	603	414.508
17/09/90 14:00	9/17/07 14:00	598.5	465.34
17/09/90 15:00	9/17/07 15:00	592.2	365.534
17/09/90 16:00	9/17/07 16:00	565.2	166.465
17/09/90 17:00	9/17/07 17:00	548.1	54.898
17/09/90 18:00	9/17/07 18:00	547.2	0
17/09/90 19:00	9/17/07 19:00	574.2	0
17/09/90 20:00	9/17/07 20:00	558.9	0
17/09/90 21:00	9/17/07 21:00	503.1	0
17/09/90 22:00	9/17/07 22:00	337.5	0
17/09/90 23:00	9/17/07 23:00	346.5	0
18/09/90 00:00	9/18/07 0:00	336.6	0
18/09/90 01:00	9/18/07 1:00	351	0
18/09/90 02:00	9/18/07 2:00	342	0
18/09/90 03:00	9/18/07 3:00	339.3	0
18/09/90 04:00	9/18/07 4:00	351.9	0
18/09/90 05:00	9/18/07 5:00	392.4	0
18/09/90 06:00	9/18/07 6:00	487.8	18.999
18/09/90 07:00	9/18/07 7:00	444.6	49.846

18/09/90 08:00	9/18/07 8:00	568.8	186.068
18/09/90 09:00	9/18/07 9:00	630.9	356.962
18/09/90 10:00	9/18/07 10:00	649.8	375.335
18/09/90 11:00	9/18/07 11:00	636.3	627.855
18/09/90 12:00	9/18/07 12:00	630	380.327
18/09/90 13:00	9/18/07 13:00	623.7	547.528
18/09/90 14:00	9/18/07 14:00	600.3	344.244
18/09/90 15:00	9/18/07 15:00	595.8	217.329
18/09/90 16:00	9/18/07 16:00	554.4	154.831
18/09/90 17:00	9/18/07 17:00	554.4	24.616
18/09/90 18:00	9/18/07 18:00	577.8	0
18/09/90 19:00	9/18/07 19:00	609.3	0
18/09/90 20:00	9/18/07 20:00	575.1	0
18/09/90 21:00	9/18/07 21:00	536.4	0
18/09/90 22:00	9/18/07 22:00	356.4	0
18/09/90 23:00	9/18/07 23:00	349.2	0
19/09/90 00:00	9/19/07 0:00	349.2	0
19/09/90 01:00	9/19/07 1:00	367.2	0
19/09/90 02:00	9/19/07 2:00	358.2	0
19/09/90 03:00	9/19/07 3:00	358.2	0
19/09/90 04:00	9/19/07 4:00	350.1	0
19/09/90 05:00	9/19/07 5:00	384.3	0
19/09/90 06:00	9/19/07 6:00	481.5	31.487
19/09/90 07:00	9/19/07 7:00	443.7	242.764
19/09/90 08:00	9/19/07 8:00	551.7	441.247
19/09/90 09:00	9/19/07 9:00	586.8	622.427
19/09/90 10:00	9/19/07 10:00	605.7	752.51
19/09/90 11:00	9/19/07 11:00	609.3	789.467
19/09/90 12:00	9/19/07 12:00	605.7	781.453
19/09/90 13:00	9/19/07 13:00	614.7	707.715
19/09/90 14:00	9/19/07 14:00	614.7	612.055
19/09/90 15:00	9/19/07 15:00	607.5	480.078
19/09/90 16:00	9/19/07 16:00	582.3	215.12
19/09/90 17:00	9/19/07 17:00	544.5	80.169
19/09/90 18:00	9/19/07 18:00	549.9	0
19/09/90 19:00	9/19/07 19:00	603	0
19/09/90 20:00	9/19/07 20:00	558.9	0
19/09/90 21:00	9/19/07 21:00	512.1	0
19/09/90 22:00	9/19/07 22:00	363.6	0
19/09/90 23:00	9/19/07 23:00	351.9	0
20/09/90 00:00	9/20/07 0:00	347.4	0
20/09/90 01:00	9/20/07 1:00	358.2	0
20/09/90 02:00	9/20/07 2:00	359.1	0
20/09/90 03:00	9/20/07 3:00	355.5	0
20/09/90 04:00	9/20/07 4:00	351	0
20/09/90 05:00	9/20/07 5:00	380.7	0
20/09/90 06:00	9/20/07 6:00	484.2	29.972

20/09/90 07:00	9/20/07 7:00	451.8	218.184
20/09/90 08:00	9/20/07 8:00	559.8	389.846
20/09/90 09:00	9/20/07 9:00	620.1	576.295
20/09/90 10:00	9/20/07 10:00	630	676.213
20/09/90 11:00	9/20/07 11:00	636.3	751.42
20/09/90 12:00	9/20/07 12:00	626.4	745.736
20/09/90 13:00	9/20/07 13:00	606.6	682.64
20/09/90 14:00	9/20/07 14:00	602.1	591.927
20/09/90 15:00	9/20/07 15:00	611.1	454.123
20/09/90 16:00	9/20/07 16:00	570.6	246.82
20/09/90 17:00	9/20/07 17:00	533.7	51.121
20/09/90 18:00	9/20/07 18:00	534.6	0
20/09/90 19:00	9/20/07 19:00	578.7	0
20/09/90 20:00	9/20/07 20:00	540	0
20/09/90 21:00	9/20/07 21:00	504.9	0
20/09/90 22:00	9/20/07 22:00	342.9	0
20/09/90 23:00	9/20/07 23:00	342	0
21/09/90 00:00	9/21/07 0:00	341.1	0
21/09/90 01:00	9/21/07 1:00	340.2	0
21/09/90 02:00	9/21/07 2:00	342.9	0
21/09/90 03:00	9/21/07 3:00	338.4	0
21/09/90 04:00	9/21/07 4:00	339.3	0
21/09/90 05:00	9/21/07 5:00	369.9	0
21/09/90 06:00	9/21/07 6:00	478.8	28.25
21/09/90 07:00	9/21/07 7:00	450	155.767
21/09/90 08:00	9/21/07 8:00	534.6	178.947
21/09/90 09:00	9/21/07 9:00	599.4	415.041
21/09/90 10:00	9/21/07 10:00	602.1	550.015
21/09/90 11:00	9/21/07 11:00	602.1	643.587
21/09/90 12:00	9/21/07 12:00	602.1	684.584
21/09/90 13:00	9/21/07 13:00	597.6	593.63
21/09/90 14:00	9/21/07 14:00	582.3	463.776
21/09/90 15:00	9/21/07 15:00	562.5	330.91
21/09/90 16:00	9/21/07 16:00	538.2	154.341
21/09/90 17:00	9/21/07 17:00	490.5	19.254
21/09/90 18:00	9/21/07 18:00	491.4	0
21/09/90 19:00	9/21/07 19:00	543.6	0
21/09/90 20:00	9/21/07 20:00	486	0
21/09/90 21:00	9/21/07 21:00	459.9	0
21/09/90 22:00	9/21/07 22:00	314.1	0
21/09/90 23:00	9/21/07 23:00	324.9	0
22/09/90 00:00	9/22/07 0:00	327.6	0
22/09/90 01:00	9/22/07 1:00	327.6	0
22/09/90 02:00	9/22/07 2:00	327.6	0
22/09/90 03:00	9/22/07 3:00	323.1	0
22/09/90 04:00	9/22/07 4:00	323.1	0
22/09/90 05:00	9/22/07 5:00	285.3	0

22/09/90 06:00	9/22/07 6:00	311.4	26.665
22/09/90 07:00	9/22/07 7:00	252	148.688
22/09/90 08:00	9/22/07 8:00	415.8	256.652
22/09/90 09:00	9/22/07 9:00	424.8	364.991
22/09/90 10:00	9/22/07 10:00	426.6	451.747
22/09/90 11:00	9/22/07 11:00	426.6	406.248
22/09/90 12:00	9/22/07 12:00	426.6	458.288
22/09/90 13:00	9/22/07 13:00	412.2	443.871
22/09/90 14:00	9/22/07 14:00	424.8	356.425
22/09/90 15:00	9/22/07 15:00	405	270.297
22/09/90 16:00	9/22/07 16:00	289.8	111.052
22/09/90 17:00	9/22/07 17:00	286.2	24.442
22/09/90 18:00	9/22/07 18:00	297.9	0
22/09/90 19:00	9/22/07 19:00	355.5	0
22/09/90 20:00	9/22/07 20:00	270	0
22/09/90 21:00	9/22/07 21:00	269.1	0
22/09/90 22:00	9/22/07 22:00	266.4	0
22/09/90 23:00	9/22/07 23:00	266.4	0
23/09/90 00:00	9/23/07 0:00	269.1	0
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23/09/90 04:00	9/23/07 4:00	266.4	0
23/09/90 05:00	9/23/07 5:00	308.7	0
23/09/90 06:00	9/23/07 6:00	388.8	0
23/09/90 07:00	9/23/07 7:00	197.1	92.803
23/09/90 08:00	9/23/07 8:00	189	139.354
23/09/90 09:00	9/23/07 9:00	207	196.724
23/09/90 10:00	9/23/07 10:00	209.7	108.245
23/09/90 11:00	9/23/07 11:00	205.2	207.631
23/09/90 12:00	9/23/07 12:00	210.6	286.527
23/09/90 13:00	9/23/07 13:00	207.9	178.749
23/09/90 14:00	9/23/07 14:00	207	228.002
23/09/90 15:00	9/23/07 15:00	185.4	124.92
23/09/90 16:00	9/23/07 16:00	180.9	32.431
23/09/90 17:00	9/23/07 17:00	178.2	0
23/09/90 18:00	9/23/07 18:00	189.9	0
23/09/90 19:00	9/23/07 19:00	261	0
23/09/90 20:00	9/23/07 20:00	263.7	0
23/09/90 21:00	9/23/07 21:00	260.1	0
23/09/90 22:00	9/23/07 22:00	261	0
23/09/90 23:00	9/23/07 23:00	260.1	0
24/09/90 00:00	9/24/07 0:00	267.3	0
24/09/90 01:00	9/24/07 1:00	265.5	0
24/09/90 02:00	9/24/07 2:00	262.8	0
24/09/90 03:00	9/24/07 3:00	259.2	0
24/09/90 04:00	9/24/07 4:00	258.3	0

24/09/90 05:00	9/24/07 5:00	333	0
24/09/90 06:00	9/24/07 6:00	513	22.925
24/09/90 07:00	9/24/07 7:00	481.5	229.49
24/09/90 08:00	9/24/07 8:00	576	385.633
24/09/90 09:00	9/24/07 9:00	641.7	534.933
24/09/90 10:00	9/24/07 10:00	631.8	633.02
24/09/90 11:00	9/24/07 11:00	633.6	712.562
24/09/90 12:00	9/24/07 12:00	647.1	724.426
24/09/90 13:00	9/24/07 13:00	631.8	702.383
24/09/90 14:00	9/24/07 14:00	628.2	568.854
24/09/90 15:00	9/24/07 15:00	627.3	439.226
24/09/90 16:00	9/24/07 16:00	603.9	193.834
24/09/90 17:00	9/24/07 17:00	590.4	30.908
24/09/90 18:00	9/24/07 18:00	591.3	0
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24/09/90 20:00	9/24/07 20:00	549.9	0
24/09/90 21:00	9/24/07 21:00	504.9	0
24/09/90 22:00	9/24/07 22:00	322.2	0
24/09/90 23:00	9/24/07 23:00	322.2	0
25/09/90 00:00	9/25/07 0:00	309.6	0
25/09/90 01:00	9/25/07 1:00	306	0
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25/09/90 03:00	9/25/07 3:00	316.8	0
25/09/90 04:00	9/25/07 4:00	325.8	0
25/09/90 05:00	9/25/07 5:00	355.5	0
25/09/90 06:00	9/25/07 6:00	492.3	0
25/09/90 07:00	9/25/07 7:00	475.2	51.317
25/09/90 08:00	9/25/07 8:00	594	132.083
25/09/90 09:00	9/25/07 9:00	665.1	224.263
25/09/90 10:00	9/25/07 10:00	670.5	306.099
25/09/90 11:00	9/25/07 11:00	673.2	140.212
25/09/90 12:00	9/25/07 12:00	666	100.105
25/09/90 13:00	9/25/07 13:00	661.5	131.72
25/09/90 14:00	9/25/07 14:00	648	83.582
25/09/90 15:00	9/25/07 15:00	642.6	47.702
25/09/90 16:00	9/25/07 16:00	596.7	73.475
25/09/90 17:00	9/25/07 17:00	576.9	0
25/09/90 18:00	9/25/07 18:00	591.3	0
25/09/90 19:00	9/25/07 19:00	639	0
25/09/90 20:00	9/25/07 20:00	555.3	0
25/09/90 21:00	9/25/07 21:00	522.9	0
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25/09/90 23:00	9/25/07 23:00	329.4	0
26/09/90 00:00	9/26/07 0:00	328.5	0
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26/09/90 07:00	9/26/07 7:00	519.3	165.54
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26/09/90 09:00	9/26/07 9:00	647.1	318.913
26/09/90 10:00	9/26/07 10:00	661.5	398.594
26/09/90 11:00	9/26/07 11:00	666	536.726
26/09/90 12:00	9/26/07 12:00	665.1	443.899
26/09/90 13:00	9/26/07 13:00	659.7	379.125
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26/09/90 15:00	9/26/07 15:00	662.4	134.409
26/09/90 16:00	9/26/07 16:00	634.5	185.404
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26/09/90 19:00	9/26/07 19:00	672.3	0
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5/10/1990 21:00	10/5/07 21:00	473.4	0
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6/10/1990 13:00	10/6/07 13:00	461.7	125.416
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6/10/1990 20:00	10/6/07 20:00	269.1	0
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7/10/1990 11:00	10/7/07 11:00	193.5	624.278
7/10/1990 12:00	10/7/07 12:00	204.3	571.209
7/10/1990 13:00	10/7/07 13:00	212.4	469.23
7/10/1990 14:00	10/7/07 14:00	209.7	424.372
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7/10/1990 16:00	10/7/07 16:00	190.8	174.661
7/10/1990 17:00	10/7/07 17:00	183.6	0
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8/10/1990 8:00	10/8/07 8:00	609.3	276.314
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8/10/1990 11:00	10/8/07 11:00	674.1	473.296
8/10/1990 12:00	10/8/07 12:00	674.1	305.11
8/10/1990 13:00	10/8/07 13:00	651.6	323.566
8/10/1990 14:00	10/8/07 14:00	639	201.477
8/10/1990 15:00	10/8/07 15:00	636.3	198.473
8/10/1990 16:00	10/8/07 16:00	618.3	91.527
8/10/1990 17:00	10/8/07 17:00	603.9	0
8/10/1990 18:00	10/8/07 18:00	614.7	0
8/10/1990 19:00	10/8/07 19:00	639.9	0
8/10/1990 20:00	10/8/07 20:00	561.6	0
8/10/1990 21:00	10/8/07 21:00	511.2	0
8/10/1990 22:00	10/8/07 22:00	318.6	0
8/10/1990 23:00	10/8/07 23:00	324	0
9/10/1990 0:00	10/9/07 0:00	323.1	0
9/10/1990 1:00	10/9/07 1:00	317.7	0
9/10/1990 2:00	10/9/07 2:00	331.2	0
9/10/1990 3:00	10/9/07 3:00	316.8	0
9/10/1990 4:00	10/9/07 4:00	313.2	0
9/10/1990 5:00	10/9/07 5:00	346.5	0
9/10/1990 6:00	10/9/07 6:00	498.6	0
9/10/1990 7:00	10/9/07 7:00	470.7	119.484
9/10/1990 8:00	10/9/07 8:00	562.5	273.425
9/10/1990 9:00	10/9/07 9:00	618.3	438.21
9/10/1990 10:00	10/9/07 10:00	628.2	573.235
9/10/1990 11:00	10/9/07 11:00	646.2	474.753
9/10/1990 12:00	10/9/07 12:00	641.7	532.352
9/10/1990 13:00	10/9/07 13:00	672.3	564.758
9/10/1990 14:00	10/9/07 14:00	619.2	516.66
9/10/1990 15:00	10/9/07 15:00	617.4	255.667
9/10/1990 16:00	10/9/07 16:00	570.6	82.25
9/10/1990 17:00	10/9/07 17:00	576	0
9/10/1990 18:00	10/9/07 18:00	612	0
9/10/1990 19:00	10/9/07 19:00	635.4	0
9/10/1990 20:00	10/9/07 20:00	559.8	0

9/10/1990 21:00	10/9/07 21:00	516.6	0
9/10/1990 22:00	10/9/07 22:00	329.4	0
9/10/1990 23:00	10/9/07 23:00	335.7	0
10/10/1990 0:00	10/10/07 0:00	335.7	0
10/10/1990 1:00	10/10/07 1:00	324	0
10/10/1990 2:00	10/10/07 2:00	322.2	0
10/10/1990 3:00	10/10/07 3:00	323.1	0
10/10/1990 4:00	10/10/07 4:00	326.7	0
10/10/1990 5:00	10/10/07 5:00	354.6	0
10/10/1990 6:00	10/10/07 6:00	504	0
10/10/1990 7:00	10/10/07 7:00	487.8	115.686
10/10/1990 8:00	10/10/07 8:00	550.8	319.376
10/10/1990 9:00	10/10/07 9:00	595.8	506.485
10/10/1990 10:00	10/10/07 10:00	637.2	521.418
10/10/1990 11:00	10/10/07 11:00	647.1	574.583
10/10/1990 12:00	10/10/07 12:00	652.5	676.422
10/10/1990 13:00	10/10/07 13:00	637.2	613.103
10/10/1990 14:00	10/10/07 14:00	639.9	483.748
10/10/1990 15:00	10/10/07 15:00	625.5	305.949
10/10/1990 16:00	10/10/07 16:00	601.2	122.244
10/10/1990 17:00	10/10/07 17:00	577.8	0
10/10/1990 18:00	10/10/07 18:00	594	0
10/10/1990 19:00	10/10/07 19:00	610.2	0
10/10/1990 20:00	10/10/07 20:00	555.3	0
10/10/1990 21:00	10/10/07 21:00	510.3	0
10/10/1990 22:00	10/10/07 22:00	337.5	0
10/10/1990 23:00	10/10/07 23:00	333.9	0
11/10/1990 0:00	10/11/07 0:00	336.6	0
11/10/1990 1:00	10/11/07 1:00	322.2	0
11/10/1990 2:00	10/11/07 2:00	335.7	0
11/10/1990 3:00	10/11/07 3:00	345.6	0
11/10/1990 4:00	10/11/07 4:00	338.4	0
11/10/1990 5:00	10/11/07 5:00	372.6	0
11/10/1990 6:00	10/11/07 6:00	522.9	0
11/10/1990 7:00	10/11/07 7:00	499.5	155.224
11/10/1990 8:00	10/11/07 8:00	575.1	399.176
11/10/1990 9:00	10/11/07 9:00	638.1	540.8
11/10/1990 10:00	10/11/07 10:00	651.6	633.794
11/10/1990 11:00	10/11/07 11:00	654.3	672.845
11/10/1990 12:00	10/11/07 12:00	646.2	641.662
11/10/1990 13:00	10/11/07 13:00	633.6	633.915
11/10/1990 14:00	10/11/07 14:00	624.6	551.004
11/10/1990 15:00	10/11/07 15:00	620.1	305.292
11/10/1990 16:00	10/11/07 16:00	586.8	123.91
11/10/1990 17:00	10/11/07 17:00	547.2	0
11/10/1990 18:00	10/11/07 18:00	559.8	0
11/10/1990 19:00	10/11/07 19:00	578.7	0

11/10/1990 20:00	10/11/07 20:00	541.8	0
11/10/1990 21:00	10/11/07 21:00	502.2	0
11/10/1990 22:00	10/11/07 22:00	345.6	0
11/10/1990 23:00	10/11/07 23:00	344.7	0
12/10/1990 0:00	10/12/07 0:00	346.5	0
12/10/1990 1:00	10/12/07 1:00	338.4	0
12/10/1990 2:00	10/12/07 2:00	341.1	0
12/10/1990 3:00	10/12/07 3:00	348.3	0
12/10/1990 4:00	10/12/07 4:00	342	0
12/10/1990 5:00	10/12/07 5:00	357.3	0
12/10/1990 6:00	10/12/07 6:00	519.3	0
12/10/1990 7:00	10/12/07 7:00	505.8	106.869
12/10/1990 8:00	10/12/07 8:00	547.2	351.918
12/10/1990 9:00	10/12/07 9:00	569.7	427.401
12/10/1990 10:00	10/12/07 10:00	594	649.385
12/10/1990 11:00	10/12/07 11:00	601.2	656.189
12/10/1990 12:00	10/12/07 12:00	613.8	627.117
12/10/1990 13:00	10/12/07 13:00	615.6	582.369
12/10/1990 14:00	10/12/07 14:00	594.9	477.715
12/10/1990 15:00	10/12/07 15:00	561.6	400.109
12/10/1990 16:00	10/12/07 16:00	523.8	181.19
12/10/1990 17:00	10/12/07 17:00	495.9	0
12/10/1990 18:00	10/12/07 18:00	512.1	0
12/10/1990 19:00	10/12/07 19:00	546.3	0
12/10/1990 20:00	10/12/07 20:00	486	0
12/10/1990 21:00	10/12/07 21:00	465.3	0
12/10/1990 22:00	10/12/07 22:00	304.2	0
12/10/1990 23:00	10/12/07 23:00	300.6	0
13/10/90 00:00	10/13/07 0:00	300.6	0
13/10/90 01:00	10/13/07 1:00	309.6	0
13/10/90 02:00	10/13/07 2:00	315.9	0
13/10/90 03:00	10/13/07 3:00	306	0
13/10/90 04:00	10/13/07 4:00	309.6	0
13/10/90 05:00	10/13/07 5:00	288.9	0
13/10/90 06:00	10/13/07 6:00	311.4	0
13/10/90 07:00	10/13/07 7:00	288.9	176.065
13/10/90 08:00	10/13/07 8:00	427.5	380.008
13/10/90 09:00	10/13/07 9:00	464.4	580.888
13/10/90 10:00	10/13/07 10:00	480.6	673.899
13/10/90 11:00	10/13/07 11:00	478.8	734.672
13/10/90 12:00	10/13/07 12:00	477.9	715.763
13/10/90 13:00	10/13/07 13:00	456.3	660.694
13/10/90 14:00	10/13/07 14:00	466.2	568.325
13/10/90 15:00	10/13/07 15:00	433.8	334.475
13/10/90 16:00	10/13/07 16:00	327.6	160.122
13/10/90 17:00	10/13/07 17:00	326.7	0
13/10/90 18:00	10/13/07 18:00	349.2	0

13/10/90 19:00	10/13/07 19:00	394.2	0
13/10/90 20:00	10/13/07 20:00	292.5	0
13/10/90 21:00	10/13/07 21:00	288	0
13/10/90 22:00	10/13/07 22:00	278.1	0
13/10/90 23:00	10/13/07 23:00	268.2	0
14/10/90 00:00	10/14/07 0:00	267.3	0
14/10/90 01:00	10/14/07 1:00	264.6	0
14/10/90 02:00	10/14/07 2:00	265.5	0
14/10/90 03:00	10/14/07 3:00	264.6	0
14/10/90 04:00	10/14/07 4:00	263.7	0
14/10/90 05:00	10/14/07 5:00	306	0
14/10/90 06:00	10/14/07 6:00	379.8	5.686
14/10/90 07:00	10/14/07 7:00	214.2	184.987
14/10/90 08:00	10/14/07 8:00	183.6	394.538
14/10/90 09:00	10/14/07 9:00	186.3	573.378
14/10/90 10:00	10/14/07 10:00	191.7	668.411
14/10/90 11:00	10/14/07 11:00	206.1	721.101
14/10/90 12:00	10/14/07 12:00	213.3	697.62
14/10/90 13:00	10/14/07 13:00	213.3	640.605
14/10/90 14:00	10/14/07 14:00	208.8	506.974
14/10/90 15:00	10/14/07 15:00	199.8	354.98
14/10/90 16:00	10/14/07 16:00	185.4	178.165
14/10/90 17:00	10/14/07 17:00	181.8	0
14/10/90 18:00	10/14/07 18:00	211.5	0
14/10/90 19:00	10/14/07 19:00	253.8	0
14/10/90 20:00	10/14/07 20:00	253.8	0
14/10/90 21:00	10/14/07 21:00	255.6	0
14/10/90 22:00	10/14/07 22:00	253.8	0
14/10/90 23:00	10/14/07 23:00	252	0
15/10/90 00:00	10/15/07 0:00	259.2	0
15/10/90 01:00	10/15/07 1:00	259.2	0
15/10/90 02:00	10/15/07 2:00	254.7	0
15/10/90 03:00	10/15/07 3:00	254.7	0
15/10/90 04:00	10/15/07 4:00	254.7	0
15/10/90 05:00	10/15/07 5:00	314.1	0
15/10/90 06:00	10/15/07 6:00	500.4	0.12554
15/10/90 07:00	10/15/07 7:00	471.6	165.771
15/10/90 08:00	10/15/07 8:00	559.8	384.793
15/10/90 09:00	10/15/07 9:00	597.6	516.187
15/10/90 10:00	10/15/07 10:00	621.9	653.385
15/10/90 11:00	10/15/07 11:00	627.3	693.032
15/10/90 12:00	10/15/07 12:00	621.9	692.123
15/10/90 13:00	10/15/07 13:00	609.3	596.692
15/10/90 14:00	10/15/07 14:00	628.2	516.203
15/10/90 15:00	10/15/07 15:00	603	391.424
15/10/90 16:00	10/15/07 16:00	562.5	176.834
15/10/90 17:00	10/15/07 17:00	531.9	0

15/10/90 18:00	10/15/07 18:00	567.9	0
15/10/90 19:00	10/15/07 19:00	600.3	0
15/10/90 20:00	10/15/07 20:00	549	0
15/10/90 21:00	10/15/07 21:00	501.3	0
15/10/90 22:00	10/15/07 22:00	341.1	0
15/10/90 23:00	10/15/07 23:00	333.9	0
16/10/90 00:00	10/16/07 0:00	335.7	0
16/10/90 01:00	10/16/07 1:00	325.8	0
16/10/90 02:00	10/16/07 2:00	325.8	0
16/10/90 03:00	10/16/07 3:00	324	0
16/10/90 04:00	10/16/07 4:00	317.7	0
16/10/90 05:00	10/16/07 5:00	360	0
16/10/90 06:00	10/16/07 6:00	490.5	0
16/10/90 07:00	10/16/07 7:00	476.1	152.78
16/10/90 08:00	10/16/07 8:00	562.5	292.596
16/10/90 09:00	10/16/07 9:00	611.1	440.55
16/10/90 10:00	10/16/07 10:00	623.7	613.131
16/10/90 11:00	10/16/07 11:00	630.9	574.351
16/10/90 12:00	10/16/07 12:00	636.3	653.317
16/10/90 13:00	10/16/07 13:00	614.7	559.688
16/10/90 14:00	10/16/07 14:00	594.9	432.734
16/10/90 15:00	10/16/07 15:00	600.3	241.626
16/10/90 16:00	10/16/07 16:00	548.1	148.353
16/10/90 17:00	10/16/07 17:00	534.6	0
16/10/90 18:00	10/16/07 18:00	567	0
16/10/90 19:00	10/16/07 19:00	591.3	0
16/10/90 20:00	10/16/07 20:00	544.5	0
16/10/90 21:00	10/16/07 21:00	506.7	0
16/10/90 22:00	10/16/07 22:00	356.4	0
16/10/90 23:00	10/16/07 23:00	359.1	0
17/10/90 00:00	10/17/07 0:00	356.4	0
17/10/90 01:00	10/17/07 1:00	346.5	0
17/10/90 02:00	10/17/07 2:00	342.9	0
17/10/90 03:00	10/17/07 3:00	340.2	0
17/10/90 04:00	10/17/07 4:00	329.4	0
17/10/90 05:00	10/17/07 5:00	361.8	0
17/10/90 06:00	10/17/07 6:00	486.9	0
17/10/90 07:00	10/17/07 7:00	493.2	185.628
17/10/90 08:00	10/17/07 8:00	567	401.645
17/10/90 09:00	10/17/07 9:00	620.1	596.301
17/10/90 10:00	10/17/07 10:00	636.3	676.025
17/10/90 11:00	10/17/07 11:00	626.4	743.186
17/10/90 12:00	10/17/07 12:00	639	719.579
17/10/90 13:00	10/17/07 13:00	630.9	660.693
17/10/90 14:00	10/17/07 14:00	634.5	576.872
17/10/90 15:00	10/17/07 15:00	630	302.651
17/10/90 16:00	10/17/07 16:00	603.9	162.745

17/10/90 17:00	10/17/07 17:00	572.4	0
17/10/90 18:00	10/17/07 18:00	582.3	0
17/10/90 19:00	10/17/07 19:00	601.2	0
17/10/90 20:00	10/17/07 20:00	539.1	0
17/10/90 21:00	10/17/07 21:00	489.6	0
17/10/90 22:00	10/17/07 22:00	349.2	0
17/10/90 23:00	10/17/07 23:00	351	0
18/10/90 00:00	10/18/07 0:00	340.2	0
18/10/90 01:00	10/18/07 1:00	329.4	0
18/10/90 02:00	10/18/07 2:00	341.1	0
18/10/90 03:00	10/18/07 3:00	351	0
18/10/90 04:00	10/18/07 4:00	342.9	0
18/10/90 05:00	10/18/07 5:00	377.1	0
18/10/90 06:00	10/18/07 6:00	490.5	0
18/10/90 07:00	10/18/07 7:00	481.5	53.633
18/10/90 08:00	10/18/07 8:00	594.9	201.07
18/10/90 09:00	10/18/07 9:00	653.4	428.779
18/10/90 10:00	10/18/07 10:00	667.8	343.206
18/10/90 11:00	10/18/07 11:00	665.1	370.379
18/10/90 12:00	10/18/07 12:00	671.4	348.509
18/10/90 13:00	10/18/07 13:00	662.4	307.346
18/10/90 14:00	10/18/07 14:00	639	136.728
18/10/90 15:00	10/18/07 15:00	634.5	169.955
18/10/90 16:00	10/18/07 16:00	606.6	84.936
18/10/90 17:00	10/18/07 17:00	574.2	0
18/10/90 18:00	10/18/07 18:00	606.6	0
18/10/90 19:00	10/18/07 19:00	621.9	0
18/10/90 20:00	10/18/07 20:00	567.9	0
18/10/90 21:00	10/18/07 21:00	530.1	0
18/10/90 22:00	10/18/07 22:00	376.2	0
18/10/90 23:00	10/18/07 23:00	378.9	0
19/10/90 00:00	10/19/07 0:00	375.3	0
19/10/90 01:00	10/19/07 1:00	361.8	0
19/10/90 02:00	10/19/07 2:00	362.7	0
19/10/90 03:00	10/19/07 3:00	360	0
19/10/90 04:00	10/19/07 4:00	346.5	0
19/10/90 05:00	10/19/07 5:00	362.7	0
19/10/90 06:00	10/19/07 6:00	529.2	0
19/10/90 07:00	10/19/07 7:00	526.5	147.25
19/10/90 08:00	10/19/07 8:00	558.9	178.992
19/10/90 09:00	10/19/07 9:00	587.7	195.043
19/10/90 10:00	10/19/07 10:00	608.4	268.302
19/10/90 11:00	10/19/07 11:00	630.9	407.709
19/10/90 12:00	10/19/07 12:00	628.2	516.637
19/10/90 13:00	10/19/07 13:00	621.9	401.674
19/10/90 14:00	10/19/07 14:00	582.3	324.424
19/10/90 15:00	10/19/07 15:00	576	175.142

19/10/90 16:00	10/19/07 16:00	534.6	59.81
19/10/90 17:00	10/19/07 17:00	508.5	0
19/10/90 18:00	10/19/07 18:00	526.5	0
19/10/90 19:00	10/19/07 19:00	568.8	0
19/10/90 20:00	10/19/07 20:00	507.6	0
19/10/90 21:00	10/19/07 21:00	482.4	0
19/10/90 22:00	10/19/07 22:00	350.1	0
19/10/90 23:00	10/19/07 23:00	360.9	0
20/10/90 00:00	10/20/07 0:00	353.7	0
20/10/90 01:00	10/20/07 1:00	350.1	0
20/10/90 02:00	10/20/07 2:00	357.3	0
20/10/90 03:00	10/20/07 3:00	357.3	0
20/10/90 04:00	10/20/07 4:00	347.4	0
20/10/90 05:00	10/20/07 5:00	320.4	0
20/10/90 06:00	10/20/07 6:00	331.2	0
20/10/90 07:00	10/20/07 7:00	302.4	150.385
20/10/90 08:00	10/20/07 8:00	399.6	218.561
20/10/90 09:00	10/20/07 9:00	430.2	384.516
20/10/90 10:00	10/20/07 10:00	443.7	467.359
20/10/90 11:00	10/20/07 11:00	458.1	629.956
20/10/90 12:00	10/20/07 12:00	454.5	483.453
20/10/90 13:00	10/20/07 13:00	450.9	330.528
20/10/90 14:00	10/20/07 14:00	442.8	265.08
20/10/90 15:00	10/20/07 15:00	431.1	216.595
20/10/90 16:00	10/20/07 16:00	341.1	118.755
20/10/90 17:00	10/20/07 17:00	324	0
20/10/90 18:00	10/20/07 18:00	341.1	0
20/10/90 19:00	10/20/07 19:00	382.5	0
20/10/90 20:00	10/20/07 20:00	313.2	0
20/10/90 21:00	10/20/07 21:00	306.9	0
20/10/90 22:00	10/20/07 22:00	296.1	0
20/10/90 23:00	10/20/07 23:00	296.1	0
21/10/90 00:00	10/21/07 0:00	297	0
21/10/90 01:00	10/21/07 1:00	297.9	0
21/10/90 02:00	10/21/07 2:00	298.8	0
21/10/90 03:00	10/21/07 3:00	297.9	0
21/10/90 04:00	10/21/07 4:00	299.7	0
21/10/90 05:00	10/21/07 5:00	341.1	0
21/10/90 06:00	10/21/07 6:00	386.1	0
21/10/90 07:00	10/21/07 7:00	253.8	130.997
21/10/90 08:00	10/21/07 8:00	224.1	174.046
21/10/90 09:00	10/21/07 9:00	225.9	167.916
21/10/90 10:00	10/21/07 10:00	227.7	299.166
21/10/90 11:00	10/21/07 11:00	234	321.761
21/10/90 12:00	10/21/07 12:00	230.4	331.112
21/10/90 13:00	10/21/07 13:00	234	318.197
21/10/90 14:00	10/21/07 14:00	232.2	172.844

21/10/90 15:00	10/21/07 15:00	217.8	46.901
21/10/90 16:00	10/21/07 16:00	200.7	101.881
21/10/90 17:00	10/21/07 17:00	193.5	0
21/10/90 18:00	10/21/07 18:00	226.8	0
21/10/90 19:00	10/21/07 19:00	274.5	0
21/10/90 20:00	10/21/07 20:00	277.2	0
21/10/90 21:00	10/21/07 21:00	273.6	0
21/10/90 22:00	10/21/07 22:00	270.9	0
21/10/90 23:00	10/21/07 23:00	270	0
22/10/90 00:00	10/22/07 0:00	276.3	0
22/10/90 01:00	10/22/07 1:00	274.5	0
22/10/90 02:00	10/22/07 2:00	270	0
22/10/90 03:00	10/22/07 3:00	274.5	0
22/10/90 04:00	10/22/07 4:00	271.8	0
22/10/90 05:00	10/22/07 5:00	325.8	0
22/10/90 06:00	10/22/07 6:00	484.2	0
22/10/90 07:00	10/22/07 7:00	512.1	59.454
22/10/90 08:00	10/22/07 8:00	579.6	152.384
22/10/90 09:00	10/22/07 9:00	657.9	294.696
22/10/90 10:00	10/22/07 10:00	678.6	186.93
22/10/90 11:00	10/22/07 11:00	669.6	293.579
22/10/90 12:00	10/22/07 12:00	669.6	298.155
22/10/90 13:00	10/22/07 13:00	659.7	285.575
22/10/90 14:00	10/22/07 14:00	647.1	226.167
22/10/90 15:00	10/22/07 15:00	638.1	189.457
22/10/90 16:00	10/22/07 16:00	603.9	50.645
22/10/90 17:00	10/22/07 17:00	586.8	0
22/10/90 18:00	10/22/07 18:00	610.2	0
22/10/90 19:00	10/22/07 19:00	639.9	0
22/10/90 20:00	10/22/07 20:00	550.8	0
22/10/90 21:00	10/22/07 21:00	499.5	0
22/10/90 22:00	10/22/07 22:00	334.8	0
22/10/90 23:00	10/22/07 23:00	341.1	0
23/10/90 00:00	10/23/07 0:00	325.8	0
23/10/90 01:00	10/23/07 1:00	323.1	0
23/10/90 02:00	10/23/07 2:00	329.4	0
23/10/90 03:00	10/23/07 3:00	327.6	0
23/10/90 04:00	10/23/07 4:00	329.4	0
23/10/90 05:00	10/23/07 5:00	355.5	0
23/10/90 06:00	10/23/07 6:00	520.2	0
23/10/90 07:00	10/23/07 7:00	517.5	67.759
23/10/90 08:00	10/23/07 8:00	604.8	193.126
23/10/90 09:00	10/23/07 9:00	662.4	384.522
23/10/90 10:00	10/23/07 10:00	666	436.659
23/10/90 11:00	10/23/07 11:00	684.9	471.825
23/10/90 12:00	10/23/07 12:00	679.5	491.964
23/10/90 13:00	10/23/07 13:00	687.6	553.799

23/10/90 14:00	10/23/07 14:00	681.3	369.094
23/10/90 15:00	10/23/07 15:00	665.1	262.025
23/10/90 16:00	10/23/07 16:00	626.4	32.085
23/10/90 17:00	10/23/07 17:00	590.4	0
23/10/90 18:00	10/23/07 18:00	633.6	0
23/10/90 19:00	10/23/07 19:00	648	0
23/10/90 20:00	10/23/07 20:00	563.4	0
23/10/90 21:00	10/23/07 21:00	519.3	0
23/10/90 22:00	10/23/07 22:00	337.5	0
23/10/90 23:00	10/23/07 23:00	334.8	0
24/10/90 00:00	10/24/07 0:00	333.9	0
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24/10/90 02:00	10/24/07 2:00	333	0
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24/10/90 04:00	10/24/07 4:00	329.4	0
24/10/90 05:00	10/24/07 5:00	356.4	0
24/10/90 06:00	10/24/07 6:00	527.4	0
24/10/90 07:00	10/24/07 7:00	500.4	98.273
24/10/90 08:00	10/24/07 8:00	506.7	292.54
24/10/90 09:00	10/24/07 9:00	535.5	449.103
24/10/90 10:00	10/24/07 10:00	547.2	561.642
24/10/90 11:00	10/24/07 11:00	559.8	497.167
24/10/90 12:00	10/24/07 12:00	556.2	582.979
24/10/90 13:00	10/24/07 13:00	545.4	540.854
24/10/90 14:00	10/24/07 14:00	554.4	425.135
24/10/90 15:00	10/24/07 15:00	545.4	271.794
24/10/90 16:00	10/24/07 16:00	540	94.417
24/10/90 17:00	10/24/07 17:00	513	0
24/10/90 18:00	10/24/07 18:00	540	0
24/10/90 19:00	10/24/07 19:00	581.4	0
24/10/90 20:00	10/24/07 20:00	502.2	0
24/10/90 21:00	10/24/07 21:00	481.5	0
24/10/90 22:00	10/24/07 22:00	335.7	0
24/10/90 23:00	10/24/07 23:00	338.4	0
25/10/90 00:00	10/25/07 0:00	339.3	0
25/10/90 01:00	10/25/07 1:00	340.2	0
25/10/90 02:00	10/25/07 2:00	335.7	0
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25/10/90 04:00	10/25/07 4:00	334.8	0
25/10/90 05:00	10/25/07 5:00	353.7	0
25/10/90 06:00	10/25/07 6:00	532.8	0
25/10/90 07:00	10/25/07 7:00	524.7	5.757
25/10/90 08:00	10/25/07 8:00	591.3	54.252
25/10/90 09:00	10/25/07 9:00	659.7	11.265
25/10/90 10:00	10/25/07 10:00	654.3	227.683
25/10/90 11:00	10/25/07 11:00	666.9	411.493
25/10/90 12:00	10/25/07 12:00	676.8	481.67

25/10/90 13:00	10/25/07 13:00	650.7	334.424
25/10/90 14:00	10/25/07 14:00	624.6	400.992
25/10/90 15:00	10/25/07 15:00	619.2	173.62
25/10/90 16:00	10/25/07 16:00	600.3	19.453
25/10/90 17:00	10/25/07 17:00	555.3	0
25/10/90 18:00	10/25/07 18:00	584.1	0
25/10/90 19:00	10/25/07 19:00	589.5	0
25/10/90 20:00	10/25/07 20:00	546.3	0
25/10/90 21:00	10/25/07 21:00	504.9	0
25/10/90 22:00	10/25/07 22:00	342	0
25/10/90 23:00	10/25/07 23:00	340.2	0
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26/10/90 03:00	10/26/07 3:00	349.2	0
26/10/90 04:00	10/26/07 4:00	342.9	0
26/10/90 05:00	10/26/07 5:00	357.3	0
26/10/90 06:00	10/26/07 6:00	504	0
26/10/90 07:00	10/26/07 7:00	506.7	128.633
26/10/90 08:00	10/26/07 8:00	558.9	235.329
26/10/90 09:00	10/26/07 9:00	572.4	328.706
26/10/90 10:00	10/26/07 10:00	599.4	572.045
26/10/90 11:00	10/26/07 11:00	601.2	595.022
26/10/90 12:00	10/26/07 12:00	576.9	645.722
26/10/90 13:00	10/26/07 13:00	568.8	576.137
26/10/90 14:00	10/26/07 14:00	574.2	319.337
26/10/90 15:00	10/26/07 15:00	558.9	238.183
26/10/90 16:00	10/26/07 16:00	538.2	73.811
26/10/90 17:00	10/26/07 17:00	504	0
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26/10/90 19:00	10/26/07 19:00	550.8	0
26/10/90 20:00	10/26/07 20:00	507.6	0
26/10/90 21:00	10/26/07 21:00	489.6	0
26/10/90 22:00	10/26/07 22:00	331.2	0
26/10/90 23:00	10/26/07 23:00	323.1	0
27/10/90 00:00	10/27/07 0:00	315	0
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27/10/90 02:00	10/27/07 2:00	317.7	0
27/10/90 03:00	10/27/07 3:00	315	0
27/10/90 04:00	10/27/07 4:00	315.9	0
27/10/90 05:00	10/27/07 5:00	287.1	0
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27/10/90 07:00	10/27/07 7:00	279	138.495
27/10/90 08:00	10/27/07 8:00	387	259.765
27/10/90 09:00	10/27/07 9:00	419.4	447.238
27/10/90 10:00	10/27/07 10:00	422.1	459.4
27/10/90 11:00	10/27/07 11:00	434.7	522.233

27/10/90 12:00	10/27/07 12:00	447.3	599.426
27/10/90 13:00	10/27/07 13:00	443.7	526.392
27/10/90 14:00	10/27/07 14:00	432.9	378.061
27/10/90 15:00	10/27/07 15:00	415.8	202.033
27/10/90 16:00	10/27/07 16:00	308.7	58.705
27/10/90 17:00	10/27/07 17:00	281.7	0
27/10/90 18:00	10/27/07 18:00	311.4	0
27/10/90 19:00	10/27/07 19:00	334.8	0
27/10/90 20:00	10/27/07 20:00	266.4	0
27/10/90 21:00	10/27/07 21:00	257.4	0
27/10/90 22:00	10/27/07 22:00	258.3	0
27/10/90 23:00	10/27/07 23:00	254.7	0
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28/10/90 03:00	10/28/07 3:00	257.4	0
28/10/90 04:00	10/28/07 4:00	261	0
28/10/90 05:00	10/28/07 5:00	261.9	0
28/10/90 06:00	10/28/07 6:00	297	0
28/10/90 07:00	10/28/07 7:00	360.9	85.676
28/10/90 08:00	10/28/07 8:00	206.1	113.98
28/10/90 09:00	10/28/07 9:00	193.5	240.215
28/10/90 10:00	10/28/07 10:00	194.4	270.96
28/10/90 11:00	10/28/07 11:00	208.8	499.497
28/10/90 12:00	10/28/07 12:00	214.2	562.659
28/10/90 13:00	10/28/07 13:00	207	498.675
28/10/90 14:00	10/28/07 14:00	201.6	376.229
28/10/90 15:00	10/28/07 15:00	200.7	272.624
28/10/90 16:00	10/28/07 16:00	197.1	72.806
28/10/90 17:00	10/28/07 17:00	188.1	0
28/10/90 18:00	10/28/07 18:00	207.9	0
28/10/90 19:00	10/28/07 19:00	243.9	0
28/10/90 20:00	10/28/07 20:00	259.2	0
28/10/90 21:00	10/28/07 21:00	254.7	0
28/10/90 22:00	10/28/07 22:00	253.8	0
28/10/90 23:00	10/28/07 23:00	252	0
29/10/90 00:00	10/29/07 0:00	254.7	0
29/10/90 01:00	10/29/07 1:00	256.5	0
29/10/90 02:00	10/29/07 2:00	252	0
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29/10/90 04:00	10/29/07 4:00	251.1	0
29/10/90 05:00	10/29/07 5:00	257.4	0
29/10/90 06:00	10/29/07 6:00	324	0
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29/10/90 08:00	10/29/07 8:00	585.9	252.298
29/10/90 09:00	10/29/07 9:00	645.3	420.042
29/10/90 10:00	10/29/07 10:00	657	440.348

29/10/90 11:00	10/29/07 11:00	624.6	531.984
29/10/90 12:00	10/29/07 12:00	621.9	614.408
29/10/90 13:00	10/29/07 13:00	612.9	581.539
29/10/90 14:00	10/29/07 14:00	615.6	342.602
29/10/90 15:00	10/29/07 15:00	624.6	249.279
29/10/90 16:00	10/29/07 16:00	605.7	89.397
29/10/90 17:00	10/29/07 17:00	567.9	0
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29/10/90 19:00	10/29/07 19:00	600.3	0
29/10/90 20:00	10/29/07 20:00	557.1	0
29/10/90 21:00	10/29/07 21:00	517.5	0
29/10/90 22:00	10/29/07 22:00	357.3	0
29/10/90 23:00	10/29/07 23:00	358.2	0
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30/10/90 03:00	10/30/07 3:00	333	0
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30/10/90 09:00	10/30/07 9:00	630	415.899
30/10/90 10:00	10/30/07 10:00	657	512.842
30/10/90 11:00	10/30/07 11:00	653.4	609.02
30/10/90 12:00	10/30/07 12:00	642.6	650.762
30/10/90 13:00	10/30/07 13:00	632.7	531.778
30/10/90 14:00	10/30/07 14:00	612	502.091
30/10/90 15:00	10/30/07 15:00	593.1	294.381
30/10/90 16:00	10/30/07 16:00	578.7	76.192
30/10/90 17:00	10/30/07 17:00	558	0
30/10/90 18:00	10/30/07 18:00	609.3	0
30/10/90 19:00	10/30/07 19:00	604.8	0
30/10/90 20:00	10/30/07 20:00	552.6	0
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30/10/90 22:00	10/30/07 22:00	348.3	0
30/10/90 23:00	10/30/07 23:00	356.4	0
31/10/90 00:00	10/31/07 0:00	335.7	0
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31/10/90 02:00	10/31/07 2:00	324.9	0
31/10/90 03:00	10/31/07 3:00	333.9	0
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31/10/90 05:00	10/31/07 5:00	351	0
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31/10/90 07:00	10/31/07 7:00	509.4	53.826
31/10/90 08:00	10/31/07 8:00	566.1	283.756
31/10/90 09:00	10/31/07 9:00	603.9	472.396

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31/10/90 11:00	10/31/07 11:00	630.9	609.766
31/10/90 12:00	10/31/07 12:00	636.3	540.887
31/10/90 13:00	10/31/07 13:00	628.2	527.7
31/10/90 14:00	10/31/07 14:00	623.7	416.757
31/10/90 15:00	10/31/07 15:00	633.6	252.672
31/10/90 16:00	10/31/07 16:00	591.3	55.212
31/10/90 17:00	10/31/07 17:00	561.6	0
31/10/90 18:00	10/31/07 18:00	598.5	0
31/10/90 19:00	10/31/07 19:00	603	0
31/10/90 20:00	10/31/07 20:00	558	0
31/10/90 21:00	10/31/07 21:00	513.9	0
31/10/90 22:00	10/31/07 22:00	372.6	0
31/10/90 23:00	10/31/07 23:00	363.6	0
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1/11/1990 11:00	11/1/07 11:00	639	508.839
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1/11/1990 13:00	11/1/07 13:00	624.6	446.153
1/11/1990 14:00	11/1/07 14:00	613.8	308.053
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1/11/1990 16:00	11/1/07 16:00	591.3	79.896
1/11/1990 17:00	11/1/07 17:00	547.2	0
1/11/1990 18:00	11/1/07 18:00	603.9	0
1/11/1990 19:00	11/1/07 19:00	608.4	0
1/11/1990 20:00	11/1/07 20:00	550.8	0
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1/11/1990 23:00	11/1/07 23:00	375.3	0
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2/11/1990 2:00	11/2/07 2:00	352.8	0
2/11/1990 3:00	11/2/07 3:00	350.1	0
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2/11/1990 5:00	11/2/07 5:00	374.4	0
2/11/1990 6:00	11/2/07 6:00	515.7	0
2/11/1990 7:00	11/2/07 7:00	491.4	86.811
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2/11/1990 10:00	11/2/07 10:00	599.4	490.102
2/11/1990 11:00	11/2/07 11:00	603	609.016
2/11/1990 12:00	11/2/07 12:00	612	591.123
2/11/1990 13:00	11/2/07 13:00	612	530.438
2/11/1990 14:00	11/2/07 14:00	603	420.775
2/11/1990 15:00	11/2/07 15:00	586.8	287.208
2/11/1990 16:00	11/2/07 16:00	558	75.459
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2/11/1990 19:00	11/2/07 19:00	580.5	0
2/11/1990 20:00	11/2/07 20:00	513	0
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3/11/1990 5:00	11/3/07 5:00	311.4	0
3/11/1990 6:00	11/3/07 6:00	351	0
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3/11/1990 8:00	11/3/07 8:00	444.6	252.322
3/11/1990 9:00	11/3/07 9:00	468.9	518.478
3/11/1990 10:00	11/3/07 10:00	484.2	580.484
3/11/1990 11:00	11/3/07 11:00	488.7	665.895
3/11/1990 12:00	11/3/07 12:00	489.6	591.752
3/11/1990 13:00	11/3/07 13:00	484.2	535.514
3/11/1990 14:00	11/3/07 14:00	479.7	420.469
3/11/1990 15:00	11/3/07 15:00	441	270.283
3/11/1990 16:00	11/3/07 16:00	354.6	85.558
3/11/1990 17:00	11/3/07 17:00	327.6	0
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3/11/1990 19:00	11/3/07 19:00	386.1	0
3/11/1990 20:00	11/3/07 20:00	286.2	0
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3/11/1990 22:00	11/3/07 22:00	280.8	0
3/11/1990 23:00	11/3/07 23:00	268.2	0
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17/11/90 06:00	11/17/07 6:00	327.6	0
17/11/90 07:00	11/17/07 7:00	273.6	0
17/11/90 08:00	11/17/07 8:00	423	19.232
17/11/90 09:00	11/17/07 9:00	455.4	44.01
17/11/90 10:00	11/17/07 10:00	457.2	32.028
17/11/90 11:00	11/17/07 11:00	459.9	122.231
17/11/90 12:00	11/17/07 12:00	454.5	200.558
17/11/90 13:00	11/17/07 13:00	444.6	229.631
17/11/90 14:00	11/17/07 14:00	432.9	139.868
17/11/90 15:00	11/17/07 15:00	417.6	137.31
17/11/90 16:00	11/17/07 16:00	319.5	0
17/11/90 17:00	11/17/07 17:00	376.2	0
17/11/90 18:00	11/17/07 18:00	374.4	0
17/11/90 19:00	11/17/07 19:00	370.8	0
17/11/90 20:00	11/17/07 20:00	304.2	0
17/11/90 21:00	11/17/07 21:00	290.7	0
17/11/90 22:00	11/17/07 22:00	291.6	0
17/11/90 23:00	11/17/07 23:00	288	0
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18/11/90 03:00	11/18/07 3:00	282.6	0
18/11/90 04:00	11/18/07 4:00	288.9	0
18/11/90 05:00	11/18/07 5:00	330.3	0
18/11/90 06:00	11/18/07 6:00	410.4	0
18/11/90 07:00	11/18/07 7:00	216	0
18/11/90 08:00	11/18/07 8:00	205.2	14.402
18/11/90 09:00	11/18/07 9:00	210.6	49.11
18/11/90 10:00	11/18/07 10:00	218.7	151.072
18/11/90 11:00	11/18/07 11:00	218.7	192.141
18/11/90 12:00	11/18/07 12:00	223.2	173.393
18/11/90 13:00	11/18/07 13:00	225	63.465
18/11/90 14:00	11/18/07 14:00	232.2	176.925
18/11/90 15:00	11/18/07 15:00	225.9	26.997
18/11/90 16:00	11/18/07 16:00	234.9	0
18/11/90 17:00	11/18/07 17:00	295.2	0
18/11/90 18:00	11/18/07 18:00	291.6	0
18/11/90 19:00	11/18/07 19:00	295.2	0
18/11/90 20:00	11/18/07 20:00	289.8	0
18/11/90 21:00	11/18/07 21:00	286.2	0
18/11/90 22:00	11/18/07 22:00	288.9	0
18/11/90 23:00	11/18/07 23:00	287.1	0
19/11/90 00:00	11/19/07 0:00	290.7	0
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19/11/90 09:00	11/19/07 9:00	645.3	154.348
19/11/90 10:00	11/19/07 10:00	661.5	300.199
19/11/90 11:00	11/19/07 11:00	656.1	480.756
19/11/90 12:00	11/19/07 12:00	675.9	492.216
19/11/90 13:00	11/19/07 13:00	646.2	267.327
19/11/90 14:00	11/19/07 14:00	648	196.678
19/11/90 15:00	11/19/07 15:00	633.6	98.796
19/11/90 16:00	11/19/07 16:00	624.6	4.673
19/11/90 17:00	11/19/07 17:00	684.9	0
19/11/90 18:00	11/19/07 18:00	686.7	0
19/11/90 19:00	11/19/07 19:00	655.2	0
19/11/90 20:00	11/19/07 20:00	619.2	0
19/11/90 21:00	11/19/07 21:00	545.4	0
19/11/90 22:00	11/19/07 22:00	358.2	0
19/11/90 23:00	11/19/07 23:00	351.9	0

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20/11/90 09:00	11/20/07 9:00	644.4	264.847
20/11/90 10:00	11/20/07 10:00	645.3	365.121
20/11/90 11:00	11/20/07 11:00	640.8	509.721
20/11/90 12:00	11/20/07 12:00	654.3	469.576
20/11/90 13:00	11/20/07 13:00	623.7	434.611
20/11/90 14:00	11/20/07 14:00	617.4	368.524
20/11/90 15:00	11/20/07 15:00	629.1	95.139
20/11/90 16:00	11/20/07 16:00	600.3	0
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20/11/90 18:00	11/20/07 18:00	659.7	0
20/11/90 19:00	11/20/07 19:00	643.5	0
20/11/90 20:00	11/20/07 20:00	561.6	0
20/11/90 21:00	11/20/07 21:00	510.3	0
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20/11/90 23:00	11/20/07 23:00	318.6	0
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21/11/90 08:00	11/21/07 8:00	550.8	170.508
21/11/90 09:00	11/21/07 9:00	593.1	290.643
21/11/90 10:00	11/21/07 10:00	612	428.634
21/11/90 11:00	11/21/07 11:00	603.9	537.573
21/11/90 12:00	11/21/07 12:00	605.7	532.322
21/11/90 13:00	11/21/07 13:00	585	439.727
21/11/90 14:00	11/21/07 14:00	583.2	350.152
21/11/90 15:00	11/21/07 15:00	545.4	181.303
21/11/90 16:00	11/21/07 16:00	540.9	33.551
21/11/90 17:00	11/21/07 17:00	586.8	0
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21/11/90 19:00	11/21/07 19:00	573.3	0
21/11/90 20:00	11/21/07 20:00	491.4	0
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22/11/90 00:00	11/22/07 0:00	245.7	0
22/11/90 01:00	11/22/07 1:00	245.7	0
22/11/90 02:00	11/22/07 2:00	245.7	0
22/11/90 03:00	11/22/07 3:00	245.7	0
22/11/90 04:00	11/22/07 4:00	247.5	0
22/11/90 05:00	11/22/07 5:00	306.9	0
22/11/90 06:00	11/22/07 6:00	459	0
22/11/90 07:00	11/22/07 7:00	379.8	15.734
22/11/90 08:00	11/22/07 8:00	368.1	63.224
22/11/90 09:00	11/22/07 9:00	366.3	261.753
22/11/90 10:00	11/22/07 10:00	369	282.004
22/11/90 11:00	11/22/07 11:00	372.6	403.261
22/11/90 12:00	11/22/07 12:00	380.7	560.239
22/11/90 13:00	11/22/07 13:00	396.9	430.851
22/11/90 14:00	11/22/07 14:00	390.6	257.589
22/11/90 15:00	11/22/07 15:00	365.4	131.885
22/11/90 16:00	11/22/07 16:00	396	27.18
22/11/90 17:00	11/22/07 17:00	443.7	0
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22/11/90 20:00	11/22/07 20:00	409.5	0
22/11/90 21:00	11/22/07 21:00	398.7	0
22/11/90 22:00	11/22/07 22:00	245.7	0
22/11/90 23:00	11/22/07 23:00	244.8	0
23/11/90 00:00	11/23/07 0:00	248.4	0
23/11/90 01:00	11/23/07 1:00	248.4	0
23/11/90 02:00	11/23/07 2:00	247.5	0
23/11/90 03:00	11/23/07 3:00	246.6	0
23/11/90 04:00	11/23/07 4:00	251.1	0
23/11/90 05:00	11/23/07 5:00	307.8	0
23/11/90 06:00	11/23/07 6:00	466.2	0
23/11/90 07:00	11/23/07 7:00	387	44.597
23/11/90 08:00	11/23/07 8:00	371.7	179.975
23/11/90 09:00	11/23/07 9:00	373.5	259.889
23/11/90 10:00	11/23/07 10:00	386.1	276.121
23/11/90 11:00	11/23/07 11:00	402.3	383.17
23/11/90 12:00	11/23/07 12:00	390.6	512.343
23/11/90 13:00	11/23/07 13:00	402.3	352.484
23/11/90 14:00	11/23/07 14:00	414	239.505
23/11/90 15:00	11/23/07 15:00	413.1	110.749
23/11/90 16:00	11/23/07 16:00	423	7.153
23/11/90 17:00	11/23/07 17:00	488.7	0
23/11/90 18:00	11/23/07 18:00	488.7	0
23/11/90 19:00	11/23/07 19:00	481.5	0
23/11/90 20:00	11/23/07 20:00	424.8	0
23/11/90 21:00	11/23/07 21:00	406.8	0

23/11/90 22:00	11/23/07 22:00	249.3	0
23/11/90 23:00	11/23/07 23:00	246.6	0
24/11/90 00:00	11/24/07 0:00	250.2	0
24/11/90 01:00	11/24/07 1:00	250.2	0
24/11/90 02:00	11/24/07 2:00	250.2	0
24/11/90 03:00	11/24/07 3:00	251.1	0
24/11/90 04:00	11/24/07 4:00	253.8	0
24/11/90 05:00	11/24/07 5:00	257.4	0
24/11/90 06:00	11/24/07 6:00	292.5	0
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24/11/90 08:00	11/24/07 8:00	377.1	101.827
24/11/90 09:00	11/24/07 9:00	382.5	253.448
24/11/90 10:00	11/24/07 10:00	390.6	392.073
24/11/90 11:00	11/24/07 11:00	388.8	454.881
24/11/90 12:00	11/24/07 12:00	406.8	541.16
24/11/90 13:00	11/24/07 13:00	381.6	375.949
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24/11/90 15:00	11/24/07 15:00	365.4	119.111
24/11/90 16:00	11/24/07 16:00	285.3	28.032
24/11/90 17:00	11/24/07 17:00	351.9	0
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24/11/90 19:00	11/24/07 19:00	333	0
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24/11/90 21:00	11/24/07 21:00	249.3	0
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24/11/90 23:00	11/24/07 23:00	243	0
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25/11/90 02:00	11/25/07 2:00	242.1	0
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25/11/90 04:00	11/25/07 4:00	244.8	0
25/11/90 05:00	11/25/07 5:00	289.8	0
25/11/90 06:00	11/25/07 6:00	367.2	0
25/11/90 07:00	11/25/07 7:00	174.6	37.247
25/11/90 08:00	11/25/07 8:00	162	184.532
25/11/90 09:00	11/25/07 9:00	163.8	354.974
25/11/90 10:00	11/25/07 10:00	162	420.958
25/11/90 11:00	11/25/07 11:00	166.5	500.775
25/11/90 12:00	11/25/07 12:00	178.2	455.274
25/11/90 13:00	11/25/07 13:00	180	344.984
25/11/90 14:00	11/25/07 14:00	175.5	228.135
25/11/90 15:00	11/25/07 15:00	168.3	118.172
25/11/90 16:00	11/25/07 16:00	176.4	15.776
25/11/90 17:00	11/25/07 17:00	242.1	0
25/11/90 18:00	11/25/07 18:00	243.9	0
25/11/90 19:00	11/25/07 19:00	243.9	0
25/11/90 20:00	11/25/07 20:00	244.8	0

25/11/90 21:00	11/25/07 21:00	240.3	0
25/11/90 22:00	11/25/07 22:00	239.4	0
25/11/90 23:00	11/25/07 23:00	241.2	0
26/11/90 00:00	11/26/07 0:00	243.9	0
26/11/90 01:00	11/26/07 1:00	242.1	0
26/11/90 02:00	11/26/07 2:00	237.6	0
26/11/90 03:00	11/26/07 3:00	238.5	0
26/11/90 04:00	11/26/07 4:00	241.2	0
26/11/90 05:00	11/26/07 5:00	304.2	0
26/11/90 06:00	11/26/07 6:00	495.9	0
26/11/90 07:00	11/26/07 7:00	474.3	29.07684
26/11/90 08:00	11/26/07 8:00	568.8	163.911
26/11/90 09:00	11/26/07 9:00	628.2	290.805
26/11/90 10:00	11/26/07 10:00	616.5	384.533
26/11/90 11:00	11/26/07 11:00	619.2	500.195
26/11/90 12:00	11/26/07 12:00	621.9	419.292
26/11/90 13:00	11/26/07 13:00	618.3	375.246
26/11/90 14:00	11/26/07 14:00	628.2	346.211
26/11/90 15:00	11/26/07 15:00	614.7	236.285
26/11/90 16:00	11/26/07 16:00	598.5	30.826
26/11/90 17:00	11/26/07 17:00	642.6	0
26/11/90 18:00	11/26/07 18:00	649.8	0
26/11/90 19:00	11/26/07 19:00	614.7	0
26/11/90 20:00	11/26/07 20:00	554.4	0
26/11/90 21:00	11/26/07 21:00	489.6	0
26/11/90 22:00	11/26/07 22:00	313.2	0
26/11/90 23:00	11/26/07 23:00	315	0
27/11/90 00:00	11/27/07 0:00	307.8	0
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27/11/90 10:00	11/27/07 10:00	620.1	287.987
27/11/90 11:00	11/27/07 11:00	614.7	473.986
27/11/90 12:00	11/27/07 12:00	627.3	407.994
27/11/90 13:00	11/27/07 13:00	609.3	359.537
27/11/90 14:00	11/27/07 14:00	595.8	234.062
27/11/90 15:00	11/27/07 15:00	596.7	187.129
27/11/90 16:00	11/27/07 16:00	576	23.52
27/11/90 17:00	11/27/07 17:00	639.9	0
27/11/90 18:00	11/27/07 18:00	656.1	0
27/11/90 19:00	11/27/07 19:00	627.3	0

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27/11/90 22:00	11/27/07 22:00	338.4	0
27/11/90 23:00	11/27/07 23:00	334.8	0
28/11/90 00:00	11/28/07 0:00	329.4	0
28/11/90 01:00	11/28/07 1:00	325.8	0
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28/11/90 06:00	11/28/07 6:00	494.1	0
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28/11/90 08:00	11/28/07 8:00	544.5	79.522
28/11/90 09:00	11/28/07 9:00	594.9	218.036
28/11/90 10:00	11/28/07 10:00	626.4	388.972
28/11/90 11:00	11/28/07 11:00	630	487.032
28/11/90 12:00	11/28/07 12:00	630	501.809
28/11/90 13:00	11/28/07 13:00	623.7	336.518
28/11/90 14:00	11/28/07 14:00	636.3	159.929
28/11/90 15:00	11/28/07 15:00	615.6	123.02
28/11/90 16:00	11/28/07 16:00	606.6	15.144
28/11/90 17:00	11/28/07 17:00	658.8	0
28/11/90 18:00	11/28/07 18:00	655.2	0
28/11/90 19:00	11/28/07 19:00	622.8	0
28/11/90 20:00	11/28/07 20:00	565.2	0
28/11/90 21:00	11/28/07 21:00	493.2	0
28/11/90 22:00	11/28/07 22:00	328.5	0
28/11/90 23:00	11/28/07 23:00	328.5	0
29/11/90 00:00	11/29/07 0:00	316.8	0
29/11/90 01:00	11/29/07 1:00	311.4	0
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29/11/90 03:00	11/29/07 3:00	297	0
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29/11/90 05:00	11/29/07 5:00	330.3	0
29/11/90 06:00	11/29/07 6:00	501.3	0
29/11/90 07:00	11/29/07 7:00	455.4	15.302
29/11/90 08:00	11/29/07 8:00	558	113.859
29/11/90 09:00	11/29/07 9:00	630	247.001
29/11/90 10:00	11/29/07 10:00	628.2	300.224
29/11/90 11:00	11/29/07 11:00	619.2	328.206
29/11/90 12:00	11/29/07 12:00	618.3	519.236
29/11/90 13:00	11/29/07 13:00	621	441.616
29/11/90 14:00	11/29/07 14:00	606.6	206.794
29/11/90 15:00	11/29/07 15:00	603.9	135.075
29/11/90 16:00	11/29/07 16:00	599.4	1.3574
29/11/90 17:00	11/29/07 17:00	632.7	0
29/11/90 18:00	11/29/07 18:00	616.5	0

29/11/90 19:00	11/29/07 19:00	609.3	0
29/11/90 20:00	11/29/07 20:00	559.8	0
29/11/90 21:00	11/29/07 21:00	513.9	0
29/11/90 22:00	11/29/07 22:00	343.8	0
29/11/90 23:00	11/29/07 23:00	336.6	0
30/11/90 00:00	11/30/07 0:00	336.6	0
30/11/90 01:00	11/30/07 1:00	333	0
30/11/90 02:00	11/30/07 2:00	325.8	0
30/11/90 03:00	11/30/07 3:00	316.8	0
30/11/90 04:00	11/30/07 4:00	309.6	0
30/11/90 05:00	11/30/07 5:00	349.2	0
30/11/90 06:00	11/30/07 6:00	535.5	0
30/11/90 07:00	11/30/07 7:00	499.5	0
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13/12/90 14:00	12/13/07 14:00	641.7	206.911
13/12/90 15:00	12/13/07 15:00	628.2	152.527
13/12/90 16:00	12/13/07 16:00	614.7	1.7077
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13/12/90 19:00	12/13/07 19:00	646.2	0
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13/12/90 22:00	12/13/07 22:00	352.8	0
13/12/90 23:00	12/13/07 23:00	336.6	0
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14/12/90 07:00	12/14/07 7:00	495	0
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14/12/90 13:00	12/14/07 13:00	609.3	237.212
14/12/90 14:00	12/14/07 14:00	574.2	165.45
14/12/90 15:00	12/14/07 15:00	549.9	135.4
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14/12/90 23:00	12/14/07 23:00	334.8	0
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16/12/90 13:00	12/16/07 13:00	194.4	324.031
16/12/90 14:00	12/16/07 14:00	187.2	213.192
16/12/90 15:00	12/16/07 15:00	176.4	133.111
16/12/90 16:00	12/16/07 16:00	194.4	38.432
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16/12/90 21:00	12/16/07 21:00	252	0
16/12/90 22:00	12/16/07 22:00	252	0
16/12/90 23:00	12/16/07 23:00	251.1	0
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17/12/90 05:00	12/17/07 5:00	313.2	0
17/12/90 06:00	12/17/07 6:00	502.2	0
17/12/90 07:00	12/17/07 7:00	490.5	0
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17/12/90 09:00	12/17/07 9:00	644.4	275.782

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17/12/90 12:00	12/17/07 12:00	649.8	422.376
17/12/90 13:00	12/17/07 13:00	638.1	331.969
17/12/90 14:00	12/17/07 14:00	622.8	370.023
17/12/90 15:00	12/17/07 15:00	610.2	206.524
17/12/90 16:00	12/17/07 16:00	612.9	26.182
17/12/90 17:00	12/17/07 17:00	662.4	0
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17/12/90 19:00	12/17/07 19:00	622.8	0
17/12/90 20:00	12/17/07 20:00	559.8	0
17/12/90 21:00	12/17/07 21:00	514.8	0
17/12/90 22:00	12/17/07 22:00	331.2	0
17/12/90 23:00	12/17/07 23:00	321.3	0
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18/12/90 02:00	12/18/07 2:00	307.8	0
18/12/90 03:00	12/18/07 3:00	316.8	0
18/12/90 04:00	12/18/07 4:00	313.2	0
18/12/90 05:00	12/18/07 5:00	349.2	0
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18/12/90 07:00	12/18/07 7:00	487.8	0
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18/12/90 09:00	12/18/07 9:00	658.8	227.037
18/12/90 10:00	12/18/07 10:00	658.8	494.279
18/12/90 11:00	12/18/07 11:00	664.2	529.545
18/12/90 12:00	12/18/07 12:00	648	384.182
18/12/90 13:00	12/18/07 13:00	644.4	493.096
18/12/90 14:00	12/18/07 14:00	615.6	346.378
18/12/90 15:00	12/18/07 15:00	586.8	184.92
18/12/90 16:00	12/18/07 16:00	581.4	22.977
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18/12/90 22:00	12/18/07 22:00	354.6	0
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19/12/90 10:00	12/19/07 10:00	603	106.692
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19/12/90 13:00	12/19/07 13:00	590.4	4.0699
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19/12/90 15:00	12/19/07 15:00	572.4	24.397
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19/12/90 18:00	12/19/07 18:00	600.3	0
19/12/90 19:00	12/19/07 19:00	593.1	0
19/12/90 20:00	12/19/07 20:00	537.3	0
19/12/90 21:00	12/19/07 21:00	501.3	0
19/12/90 22:00	12/19/07 22:00	341.1	0
19/12/90 23:00	12/19/07 23:00	342	0
20/12/90 00:00	12/20/07 0:00	343.8	0
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20/12/90 02:00	12/20/07 2:00	309.6	0
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20/12/90 10:00	12/20/07 10:00	587.7	316.853
20/12/90 11:00	12/20/07 11:00	576.9	400.131
20/12/90 12:00	12/20/07 12:00	574.2	515.858
20/12/90 13:00	12/20/07 13:00	559.8	261.512
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20/12/90 17:00	12/20/07 17:00	592.2	0
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20/12/90 19:00	12/20/07 19:00	576	0
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21/12/90 05:00	12/21/07 5:00	323.1	0
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21/12/90 10:00	12/21/07 10:00	559.8	196.72
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21/12/90 14:00	12/21/07 14:00	343.8	91.45
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21/12/90 21:00	12/21/07 21:00	310.5	0
21/12/90 22:00	12/21/07 22:00	241.2	0
21/12/90 23:00	12/21/07 23:00	237.6	0
22/12/90 00:00	12/22/07 0:00	240.3	0
22/12/90 01:00	12/22/07 1:00	243	0
22/12/90 02:00	12/22/07 2:00	240.3	0
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22/12/90 09:00	12/22/07 9:00	243.9	173.489
22/12/90 10:00	12/22/07 10:00	254.7	270.445
22/12/90 11:00	12/22/07 11:00	243.9	251.149
22/12/90 12:00	12/22/07 12:00	239.4	234.207
22/12/90 13:00	12/22/07 13:00	243.9	357.843
22/12/90 14:00	12/22/07 14:00	246.6	122.156
22/12/90 15:00	12/22/07 15:00	233.1	91.538
22/12/90 16:00	12/22/07 16:00	175.5	0
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22/12/90 18:00	12/22/07 18:00	237.6	0
22/12/90 19:00	12/22/07 19:00	234	0
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22/12/90 21:00	12/22/07 21:00	229.5	0
22/12/90 22:00	12/22/07 22:00	230.4	0
22/12/90 23:00	12/22/07 23:00	224.1	0
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23/12/90 01:00	12/23/07 1:00	225.9	0
23/12/90 02:00	12/23/07 2:00	225.9	0
23/12/90 03:00	12/23/07 3:00	225.9	0
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23/12/90 11:00	12/23/07 11:00	155.7	404.113
23/12/90 12:00	12/23/07 12:00	154.8	420.722
23/12/90 13:00	12/23/07 13:00	153	267.916
23/12/90 14:00	12/23/07 14:00	153	262.746
23/12/90 15:00	12/23/07 15:00	153	153.264
23/12/90 16:00	12/23/07 16:00	162.9	37.336
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23/12/90 23:00	12/23/07 23:00	223.2	0
24/12/90 00:00	12/24/07 0:00	225.9	0
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24/12/90 11:00	12/24/07 11:00	209.7	231.596
24/12/90 12:00	12/24/07 12:00	213.3	327.334
24/12/90 13:00	12/24/07 13:00	217.8	314.283
24/12/90 14:00	12/24/07 14:00	222.3	251.856
24/12/90 15:00	12/24/07 15:00	219.6	149.878
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24/12/90 22:00	12/24/07 22:00	222.3	0
24/12/90 23:00	12/24/07 23:00	222.3	0
25/12/90 00:00	12/25/07 0:00	221.4	0
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25/12/90 02:00	12/25/07 2:00	223.2	0
25/12/90 03:00	12/25/07 3:00	225	0
25/12/90 04:00	12/25/07 4:00	232.2	0
25/12/90 05:00	12/25/07 5:00	270.9	0

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25/12/90 08:00	12/25/07 8:00	214.2	31.565
25/12/90 09:00	12/25/07 9:00	206.1	95.592
25/12/90 10:00	12/25/07 10:00	204.3	226.513
25/12/90 11:00	12/25/07 11:00	206.1	452.888
25/12/90 12:00	12/25/07 12:00	207.9	418.11
25/12/90 13:00	12/25/07 13:00	207	259.075
25/12/90 14:00	12/25/07 14:00	203.4	375.587
25/12/90 15:00	12/25/07 15:00	206.1	226.435
25/12/90 16:00	12/25/07 16:00	216.9	45.835
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25/12/90 19:00	12/25/07 19:00	276.3	0
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25/12/90 21:00	12/25/07 21:00	272.7	0
25/12/90 22:00	12/25/07 22:00	219.6	0
25/12/90 23:00	12/25/07 23:00	221.4	0
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26/12/90 03:00	12/26/07 3:00	225.9	0
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26/12/90 05:00	12/26/07 5:00	268.2	0
26/12/90 06:00	12/26/07 6:00	371.7	0
26/12/90 07:00	12/26/07 7:00	234	0
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26/12/90 09:00	12/26/07 9:00	221.4	365.771
26/12/90 10:00	12/26/07 10:00	239.4	336.649
26/12/90 11:00	12/26/07 11:00	239.4	435.501
26/12/90 12:00	12/26/07 12:00	233.1	460.592
26/12/90 13:00	12/26/07 13:00	225.9	555.28
26/12/90 14:00	12/26/07 14:00	224.1	418.402
26/12/90 15:00	12/26/07 15:00	226.8	128.648
26/12/90 16:00	12/26/07 16:00	234	40.722
26/12/90 17:00	12/26/07 17:00	288.9	0
26/12/90 18:00	12/26/07 18:00	293.4	0
26/12/90 19:00	12/26/07 19:00	288.9	0
26/12/90 20:00	12/26/07 20:00	290.7	0
26/12/90 21:00	12/26/07 21:00	281.7	0
26/12/90 22:00	12/26/07 22:00	227.7	0
26/12/90 23:00	12/26/07 23:00	228.6	0
27/12/90 00:00	12/27/07 0:00	228.6	0
27/12/90 01:00	12/27/07 1:00	227.7	0
27/12/90 02:00	12/27/07 2:00	233.1	0
27/12/90 03:00	12/27/07 3:00	234.9	0
27/12/90 04:00	12/27/07 4:00	247.5	0

27/12/90 05:00	12/27/07 5:00	277.2	0
27/12/90 06:00	12/27/07 6:00	380.7	0
27/12/90 07:00	12/27/07 7:00	258.3	0
27/12/90 08:00	12/27/07 8:00	243	135.062
27/12/90 09:00	12/27/07 9:00	246.6	241.141
27/12/90 10:00	12/27/07 10:00	245.7	298.872
27/12/90 11:00	12/27/07 11:00	237.6	294.243
27/12/90 12:00	12/27/07 12:00	234.9	265.339
27/12/90 13:00	12/27/07 13:00	232.2	311.703
27/12/90 14:00	12/27/07 14:00	242.1	204.189
27/12/90 15:00	12/27/07 15:00	245.7	227.573
27/12/90 16:00	12/27/07 16:00	259.2	21.119
27/12/90 17:00	12/27/07 17:00	315.9	0
27/12/90 18:00	12/27/07 18:00	311.4	0
27/12/90 19:00	12/27/07 19:00	308.7	0
27/12/90 20:00	12/27/07 20:00	306.9	0
27/12/90 21:00	12/27/07 21:00	306.9	0
27/12/90 22:00	12/27/07 22:00	244.8	0
27/12/90 23:00	12/27/07 23:00	244.8	0
28/12/90 00:00	12/28/07 0:00	243	0
28/12/90 01:00	12/28/07 1:00	243.9	0
28/12/90 02:00	12/28/07 2:00	245.7	0
28/12/90 03:00	12/28/07 3:00	245.7	0
28/12/90 04:00	12/28/07 4:00	252.9	0
28/12/90 05:00	12/28/07 5:00	295.2	0
28/12/90 06:00	12/28/07 6:00	396	0
28/12/90 07:00	12/28/07 7:00	265.5	0
28/12/90 08:00	12/28/07 8:00	257.4	130.625
28/12/90 09:00	12/28/07 9:00	249.3	250.736
28/12/90 10:00	12/28/07 10:00	271.8	397.312
28/12/90 11:00	12/28/07 11:00	272.7	385.088
28/12/90 12:00	12/28/07 12:00	277.2	445.344
28/12/90 13:00	12/28/07 13:00	268.2	480.459
28/12/90 14:00	12/28/07 14:00	264.6	273.837
28/12/90 15:00	12/28/07 15:00	251.1	144.078
28/12/90 16:00	12/28/07 16:00	266.4	33.371
28/12/90 17:00	12/28/07 17:00	325.8	0
28/12/90 18:00	12/28/07 18:00	322.2	0
28/12/90 19:00	12/28/07 19:00	325.8	0
28/12/90 20:00	12/28/07 20:00	311.4	0
28/12/90 21:00	12/28/07 21:00	292.5	0
28/12/90 22:00	12/28/07 22:00	227.7	0
28/12/90 23:00	12/28/07 23:00	224.1	0
29/12/90 00:00	12/29/07 0:00	224.1	0
29/12/90 01:00	12/29/07 1:00	223.2	0
29/12/90 02:00	12/29/07 2:00	224.1	0
29/12/90 03:00	12/29/07 3:00	225	0

29/12/90 04:00	12/29/07 4:00	234.9	0
29/12/90 05:00	12/29/07 5:00	266.4	0
29/12/90 06:00	12/29/07 6:00	295.2	0
29/12/90 07:00	12/29/07 7:00	183.6	0
29/12/90 08:00	12/29/07 8:00	244.8	84.89
29/12/90 09:00	12/29/07 9:00	225	309.287
29/12/90 10:00	12/29/07 10:00	214.2	403.784
29/12/90 11:00	12/29/07 11:00	212.4	472.582
29/12/90 12:00	12/29/07 12:00	214.2	416.783
29/12/90 13:00	12/29/07 13:00	215.1	393.695
29/12/90 14:00	12/29/07 14:00	213.3	247.133
29/12/90 15:00	12/29/07 15:00	224.1	193.933
29/12/90 16:00	12/29/07 16:00	184.5	51.457
29/12/90 17:00	12/29/07 17:00	234	0
29/12/90 18:00	12/29/07 18:00	234.9	0
29/12/90 19:00	12/29/07 19:00	236.7	0
29/12/90 20:00	12/29/07 20:00	234	0
29/12/90 21:00	12/29/07 21:00	227.7	0
29/12/90 22:00	12/29/07 22:00	225	0
29/12/90 23:00	12/29/07 23:00	224.1	0
30/12/90 00:00	12/30/07 0:00	225	0
30/12/90 01:00	12/30/07 1:00	222.3	0
30/12/90 02:00	12/30/07 2:00	223.2	0
30/12/90 03:00	12/30/07 3:00	225	0
30/12/90 04:00	12/30/07 4:00	235.8	0
30/12/90 05:00	12/30/07 5:00	273.6	0
30/12/90 06:00	12/30/07 6:00	354.6	0
30/12/90 07:00	12/30/07 7:00	171	0
30/12/90 08:00	12/30/07 8:00	153	172.368
30/12/90 09:00	12/30/07 9:00	153.9	366.35
30/12/90 10:00	12/30/07 10:00	156.6	449.697
30/12/90 11:00	12/30/07 11:00	154.8	561.271
30/12/90 12:00	12/30/07 12:00	154.8	547.313
30/12/90 13:00	12/30/07 13:00	159.3	472.534
30/12/90 14:00	12/30/07 14:00	156.6	377.446
30/12/90 15:00	12/30/07 15:00	157.5	214.693
30/12/90 16:00	12/30/07 16:00	172.8	53.243
30/12/90 17:00	12/30/07 17:00	231.3	0
30/12/90 18:00	12/30/07 18:00	231.3	0
30/12/90 19:00	12/30/07 19:00	230.4	0
30/12/90 20:00	12/30/07 20:00	229.5	0
30/12/90 21:00	12/30/07 21:00	226.8	0
30/12/90 22:00	12/30/07 22:00	225.9	0
30/12/90 23:00	12/30/07 23:00	225	0
31/12/90 00:00	12/31/07 0:00	228.6	0
31/12/90 01:00	12/31/07 1:00	230.4	0
31/12/90 02:00	12/31/07 2:00	226.8	0

31/12/90 03:00	12/31/07 3:00	227.7	0
31/12/90 04:00	12/31/07 4:00	239.4	0
31/12/90 05:00	12/31/07 5:00	274.5	0
31/12/90 06:00	12/31/07 6:00	377.1	0
31/12/90 07:00	12/31/07 7:00	254.7	0
31/12/90 08:00	12/31/07 8:00	238.5	0
31/12/90 09:00	12/31/07 9:00	242.1	3.1901
31/12/90 10:00	12/31/07 10:00	237.6	34.448
31/12/90 11:00	12/31/07 11:00	248.4	4.0965
31/12/90 12:00	12/31/07 12:00	262.8	13.478
31/12/90 13:00	12/31/07 13:00	257.4	22.227
31/12/90 14:00	12/31/07 14:00	253.8	8.695
31/12/90 15:00	12/31/07 15:00	232.2	0
31/12/90 16:00	12/31/07 16:00	246.6	0
31/12/90 17:00	12/31/07 17:00	300.6	0
31/12/90 18:00	12/31/07 18:00	294.3	0
31/12/90 19:00	12/31/07 19:00	301.5	0
31/12/90 20:00	12/31/07 20:00	293.4	0
31/12/90 21:00	12/31/07 21:00	284.4	0
31/12/90 22:00	12/31/07 22:00	225.9	0
31/12/90 23:00	12/31/07 23:00	229.5	0



APPENDIX G

# **Community College League of California – Chevron ES Response**

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## Merritt PV System

- Chevron ES is a DESIGN/BUILT general contractor that specializes in delivering energy efficiency and renewable energy projects to the public sector including community colleges, k-12 schools, local and state governments, and the deferral government. Our business model does not follow the typical ESCO business rather, we focus in delivering projects based on the design/built approach with the additional benefits of guaranteeing performance and energy production or savings to our clients. Chevron ES can be described as a “Performance Contractor”
- Costs associated with not installing the PV system at Merritt College in 2008
  - System size: 1.2 MH
  - Lost Annual production: 1,549,000 kWh/yr
  - Lost CSI Incentives: \$464,700 (difference between step 5 and step 6 = \$0.06/kWh\* 5 years) Please refer to <http://www.csi-trigger.com>
  - Lost revenues: \$216,860
- DSA Permitting: Chevron ES is the only solar integrator in the State of California with three (3) DSA pre-approved solar canopies design. This allow Chevron ES and our clients to speed up the permitting process up to six (6) months, which in turn reduces the construction time by up to 12 months. Additional benefits include the reduction in labor by the district personnel involve in the contraction of this system, since they do not have to manage the project for that period; another benefit worth mentioning is the increase in standardization and quality of the installation.
- Cost of PV system installed in government agencies: The California Solar Initiative offers free of charge a complete detailed description of the solar PV system that apply for incentives in the Investor Own Utilities territories. You may obtain the statistics from the website indicated below:

<http://californiasolarstatistics.ca.gov>

Exhibit A illustrates a summary of the data available at this location. Based on the installed systems reported, the average cost of a PV system installed in 2009 is \$7.9/watt; Chevron ES cost indicated to the district is \$7.00/watt.

- Chevron ES responses to the district’s consultant are included below.
  - a) Identifying information (e.g., manufacturer, model) for the PV system components (e.g., inverters, PV panels);

**Panel:**

**Manufacturer: Suntech**  
**Model: STP210-18/Ub-1**

**Inverter:**

**Manufacturer: SatCon Technology**  
**Models: PVS-375**

- b) Performance-related information (e.g., for PV modules, their efficiencies, PTC ratings, industry track record, independent verification of performance claims) on all significant system components;

**Panel:**

**Efficiency: 13.6%**

**PTC Ratings: 171.4 watts**

**Inverter:**

**Weighted Efficiency: 96%**

**Electrical energy generated by the proposed Merritt PS Solar systems was determined using the PVSYST software (verified by PVWatts). The panel and inverter performance used by PVSYST in the calculations were independently verified by the Photon Magazine lab..**

- c) Size of area covered by each PV system and greater detail regarding system placement;

**Parking Canopy Structure System (361.6kW) ~ 29,500 sqft**

**The panels will be mounted on a T structure which will be placed between parking lot stalls and the height of the lowest end will be 9 ft tall. The system will be tilted 5 degrees.**

**Hillside Ground Mount PV System (838.4kW) ~ 84,500 sqft**

**The panels will be mounted on a rack raised by a pole and the height of the lowest end will be 2 ft - 11 in tall. The system will be tilted 5 degrees.**

**See exhibit B.**

- d) Description of utility interconnection issues posed by the proposed placement of the PV systems;

**Chevron ES do not expect any issues with the utility interconnection. Underground conduit was installed a year ago at the Parking Lot C to accommodate the new PV systems and before the parking was resurfaced. The hillside PV system will be connected to the substation by Bldg "A", no issues were discovered by the Chevron ES team during the site walk.**

- e) Analytical and empirical support of all electricity output performance claims, including working versions of the models used to calculate these claims;

**Chevron ES uses PVSYST analytical and empirical software to calculate the electricity output performance claims, including working versions of the models used to calculate these claims. Example of calculation result attached below.**

**A working model of the PVSYST is available to the district; PCCD may need to buy a license from the University of Geneve in order to run the model.**

### Grid-Connected System: Simulation parameters

**Project :** Merritt College

**Geographical Site** Oakland **Country** USA

**Situation** Latitude 37.7°N Longitude 122.2°W  
 Time defined as Legal Time Time zone UT+8 Altitude 1 m  
 Albedo 0.20

**Meteo data :** Oakland , synthetic hourly data

**Simulation variant :** Hillside Inverter 1

Simulation date 30/09/09 18h07

**Simulation parameters**

**Heterogeneous field, double orientation**

	Array#1 tilt 5°	Proportion of array #1 27 %	Array#1 azimuth -25°
	Array#2 tilt 5°	Array#2 azimuth 15°	

**Horizon** Free Horizon

**Near Shadings** No Shadings

**PV Array Characteristics**

PV module Si-poly	Model STP 200-18/Ub		
	Manufacturer Suntech		
Number of PV modules	In series 16 modules	In parallel 131 strings	
Total number of PV modules	Nb. modules 2096	Unit Nom. Power 200 Wp	
Array global power	Nominal (STC) 419 kWp	At operating cond. 377 kWp (50°C)	
Array operating characteristics (50°C)	U mpp 385 V	I mpp 979 A	
Total area	Module area 3081 m²		

**PV Array loss factors**

Heat Loss Factor	ko (const) 29.0 W/m²K	kv (wind) 0.0 W/m²K / m/s	NOCT 45 °C
=> Nominal Oper. Coll. Temp. (800 W/m², Tamb=20°C, wind 1 m/s)			
Wiring Ohmic Loss	Global array res. 12.9 mOhm	Loss Fraction 3.0 % at STC	
Series Diode Loss	Voltage Drop 0.7 V	Loss Fraction 0.2 % at STC	
Array Soiling Losses		Loss Fraction 5.0 %	
Module Quality Loss		Loss Fraction 3.0 %	
Module Mismatch Losses		Loss Fraction 2.0 % at MPP	
Incidence effect, ASHRAE parametrization	IAM = 1-bo (1/cos i - 1)	bo Parameter 0.05	

**System Parameter** System type Grid-Connected System

**Inverter** Model PowerGate Plus PVS-375

	Manufacturer Satcon		
Inverter Characteristics	Operating Voltage 305-600 V	Unit Nom. Power 375 kW AC	
Repartition on fields	Field #1 35 strings on the mixed inverter		
	Field #2 96 strings on the mixed inverter		

**User's needs :** Unlimited load (grid)

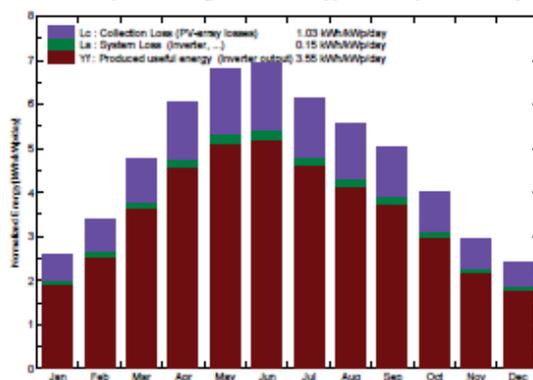
### Grid-Connected System: Main results

**Project :** Merritt College  
**Simulation variant :** Hillside Inverter 1

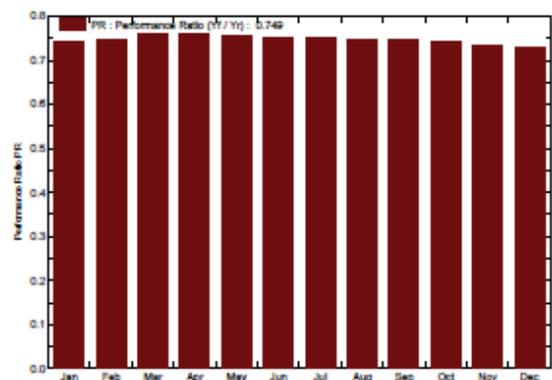
<b>Main system parameters</b>		<b>System type</b>	Grid-Connected	
PV Field Orientation	Double orientation/ field #1(27 %	tilt5°, azimuth-25°	field #2	tilt5°, azimuth15°
PV modules		Model	Pnom	200 Wp
PV Array		Nb. of modules	Pnom total	<b>419 kWp</b>
Inverter		Model	Pnom	375 kW ac
User's needs	Unlimited load (grid)			

<b>Main simulation results</b>		<b>Produced Energy</b>	542 MWh/year	<b>Specific</b>	1294 kWh/kWp/year
<b>System Production</b>		<b>Performance Ratio PR</b>	74.9 %		

**Normalized productions (per installed kWp): Nominal power 419 kWp**



**Performance Ratio PR**



#### Hillside Inverter 1 Balances and main results

	GlobHor kWh/m²	T Amb °C	GlobInc kWh/m²	GlobEff kWh/m²	EArray kWh	EOutInv kWh	EffArrR %	EffSysR %
January	73.5	9.80	79.8	75.5	26239	24921	10.66	10.13
February	89.0	11.60	95.2	90.6	31218	29791	10.64	10.15
March	141.7	12.80	148.1	142.3	49178	47226	10.77	10.35
April	177.3	14.00	181.8	175.6	60116	57810	10.73	10.32
May	209.9	15.20	211.2	204.4	69483	66776	10.68	10.26
June	208.5	16.30	208.6	202.0	68333	65687	10.63	10.22
July	190.0	16.90	190.6	184.1	62455	59968	10.63	10.21
August	170.2	17.30	172.6	166.5	56324	54076	10.59	10.17
September	145.5	17.40	150.6	144.8	49037	47035	10.56	10.13
October	116.9	16.20	124.5	118.9	40531	38835	10.57	10.12
November	81.3	12.70	88.7	83.9	28715	27318	10.50	9.99
December	67.6	9.90	75.2	70.5	24319	23029	10.50	9.94
Year	1671.4	14.19	1727.1	1659.3	565947	542472	10.63	10.19

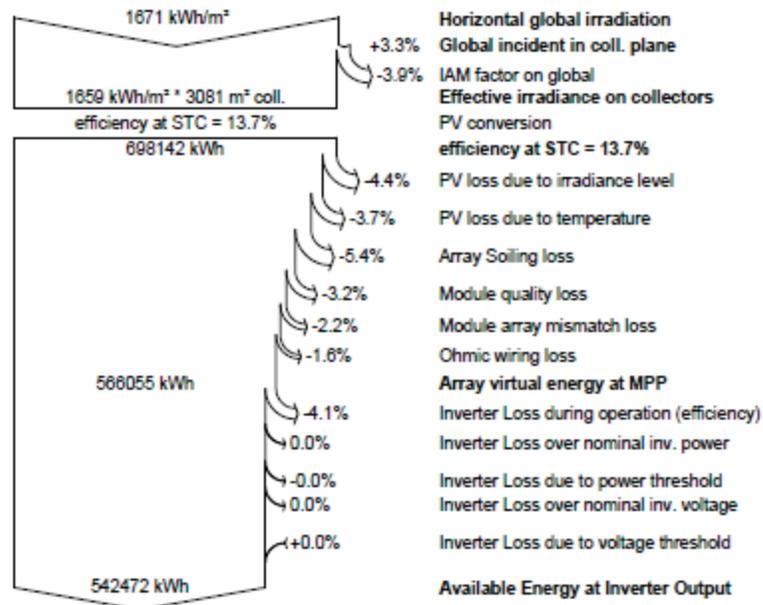
Legends: GlobHor Horizontal global irradiation      EArray Effective energy at the output of the array  
 T Amb Ambient Temperature      EOutInv Available Energy at Inverter Output  
 GlobInc Global incident in coll. plane      EffArrR Effic. Eout array / rough area  
 GlobEff Effective Global, corr. for IAM and shadings      EffSysR Effic. Eout system / rough area

### Grid-Connected System: Loss diagram

**Project :** Merritt College  
**Simulation variant :** Hillside Inverter 1

<b>Main system parameters</b>		<b>System type</b>	<b>Grid-Connected</b>		
PV Field Orientation	Double orientation/ field #1(27 %	tilt5°, azimuth-25°	field #2	tilt5°, azimuth15°	
PV modules		Model	STP 200-18/Ub	Pnom	200 Wp
PV Array		Nb. of modules	2096	Pnom total	419 kWp
Inverter		Model	PowerGate Plus PVS-375	Pnom	375 kW ac
User's needs	Unlimited load (grid)				

**Loss diagram over the whole year**



f) Analytical and empirical support for cost effectiveness claims;  
**Chevron ES utilizes hourly electricity data for a minimum of one year to determine the electricity savings for that year, the Chevron ES engineering team also calculates the cost savings based on the actual cost of power for the specific hour. Electricity cost escalation rates are determined from historical data available from PG&E. An annual panel degradation factor of 0.7% will be included in the annual estimated electricity production from the panels.**

g) Explicit assumptions regarding net energy metered quantities of electricity produced by the solar PV system;  
**Chevron ES obtained hourly electricity usage for Merritt College from PG&E, production from the solar system is subtracted from each hourly usage data, if production > usage, Chevron ES model assumes the overproduction will be net-metered by PG&E, which in turn will reimburse the college for the production at an equivalent rate.**

h) Detailed description and demonstration of proven track record of ongoing performance monitoring system and services;  
**Chevron ES offers performance monitoring as part of our comprehensive services. The offer includes real-time web based monitoring equipment and ongoing services as long as the district desires. Our team will monitor the Merritt PV system 24/7, If there is a failure of any system component, an alarm is sent to the Chevron ES maintenance team, and the district, the team will troubleshoot the problems and resolve it immediately.**

**You may contact John Cimino from Milpitas Unified School District for additional information on Chevron ES monitoring services.**

i) Empirical verification of performance claims for systems previously installed by Chevron ES;  
**Our current systems installed and monitored by Chevron ES in the N. CA region have exceeded estimated production by up to 5%.**

**You may contact John Cimino from Milpitas Unified School District for additional information.**

**EXHIBIT A**

Program Administrator	Incentive Type	Incentive Step	\$/watt nameplate	Current Incentive Application Status	Host Customer Sector	System Owner Sector	Host Customer Physical Address City	Host Customer Physical Address County	Host Customer Physical Address State	Host Customer Physical Address ZipCode	Solar Contractor Company Name	PV Module#1 Manufacturer
PG&E	EPBB	Step 5	5.93	Completed	Commercial	Commercial	Fresno	Fresno	CA	93726	Sol-Tek Industries	BP Solar
PG&E	EPBB	Step 6	6.57	Completed	Commercial	Commercial	San Jose	Santa Clara	CA	95126	K2 Solar, Inc.	Sharp
PG&E	EPBB	Step 6	6.88	Completed	Government	Commercial	Bakersfield	Kern	CA	93308	REC Solar, Inc.	Evergreen Solar
PG&E	EPBB	Step 6	6.93	Completed	Commercial	Commercial	Fresno	Fresno	CA	93727	SunPower Corporation, Systems	SunPower
PG&E	EPBB	Step 5	7.09	Completed	Commercial	Commercial	Emeryville	Alameda	CA	94608	Borrego Solar Systems, Inc.	Sharp
PG&E	EPBB	Step 5	7.10	Completed	Commercial	Commercial	Santa Maria	Santa Barbara	CA	93454	REC Solar, Inc.	Mitsubishi Electric
PG&E	EPBB	Step 5	7.16	Completed	Non-Profit	Non-Profit	San Pablo	Contra Costa	CA	94806	REGrid Power, Inc.	Sharp
PG&E	EPBB	Step 5	7.20	Completed	Commercial	Commercial	Paso Robles	San Luis Obispo	CA	93446	REC Solar, Inc.	REC ScanModule
PG&E	EPBB	Step 6	7.29	Completed	Government	Government	Castro Valley	Alameda	CA	94552	Pacific Solar Energy	Sharp
PG&E	EPBB	Step 6	7.52	Completed	Commercial	Commercial	Philo	Mendocino	CA	95466	SolarCraft Services, Inc.	SunPower
PG&E	EPBB	Step 6	7.52	Completed	Commercial	Commercial	Willows	Glenn	CA	95988	Premier Power Renewable Energy, Inc.	Suntech Power
PG&E	EPBB	Step 6	7.89	Completed	Government	Government	Fairfax	Marin	CA	94930	SPG Solar, Inc.	Suntech Power
PG&E	EPBB	Step 6	8.49	Completed	Commercial	Commercial	Glenn	Glenn	CA	95943	Chico Electric	Mitsubishi Electric
PG&E	EPBB	Step 5	8.66	Completed	Commercial	Commercial	San Francisco	San Francisco	CA	94110	Sun Light and Power	Mitsubishi Electric
PG&E	EPBB	Step 6	9.06	Completed	Non-Profit	Non-Profit	Pittsburg	Contra Costa	CA	94565	Sun Light and Power	Mitsubishi Electric
PG&E	EPBB	Step 5	9.15	Completed	Commercial	Commercial	San Luis Obispo	San Luis Obispo	CA	93405	Electricraft, Inc	SolarWorld
PG&E	EPBB	Step 5	9.60	Completed	Commercial	Commercial	San Francisco	San Francisco	CA	94103	Self-Install (Same as Host Customer)	Sharp
PG&E	EPBB	Step 5	12.57	Completed	Government	Government	San Rafael	Marin	CA	94901	SolarCraft Services, Inc.	Mitsubishi Electric

MIN	5.93 \$/watt
MAX	12.57 \$/watt
AVERAGE	7.91 \$/watt

PROJECTS WITH CONFIRMED CSI RESERVATION  
PG and E SERVICE TERRITORY

Program Administrator	Incentive Type	Incentive Step	\$/Watt nameplate	Current Incentive Application Status	Host Customer Sector	System Owner Sector	Host Customer Physical Address City	Host Customer Physical Address County	Host Customer Physical Address State	Host Customer Physical Address ZipCode	Solar Contractor Company Name	PV Module#1 Manufacturer
PG&E	Five YearPBI	Step 6	2.41	Confirmed Reservation	Government	Government	Tomales	Marin	CA	94971	American Solar Corporation	Evergreen Solar
PG&E	Five YearPBI	Step 6	2.65	Confirmed Reservation	Commercial	Commercial	Fremont	Alameda	CA	94538	Shamrock Renewable Group Inc.	Evergreen Solar
PG&E	Five YearPBI	Step 6	3.58	Confirmed Reservation	Commercial	Commercial	Suisun City	Solano	CA	94585	Team-Solar, Inc.	Solar Semiconductor
PG&E	Five YearPBI	Step 5	4.04	Confirmed Reservation	Commercial	Commercial	Napa	Napa	CA	94559	Self-Install (Same as Host Customer)	Suntech Power
PG&E	EPBB	Step 6	4.09	Confirmed Reservation	Commercial	Commercial	Fresno	Fresno	CA	93710	Valley Unique Electric DBA Solar Ur BP Solar	Suntech Power
PG&E	Five YearPBI	Step 6	4.48	Confirmed Reservation	Government	Government	Novato	Marin	CA	94947	Petersen-Dean, Inc. DBA Petersen-Sharp	Sharp
PG&E	EPBB	Step 7	4.61	Confirmed Reservation	Commercial	Commercial	South San Francisco	San Mateo	CA	94080	Marin Solar, Inc.	Sharp
PG&E	Five YearPBI	Step 6	4.70	Confirmed Reservation	Government	Government	Novato	Marin	CA	94945	Petersen-Dean, Inc. DBA Petersen-Sharp	Suntech Power
PG&E	Five YearPBI	Step 6	4.83	Confirmed Reservation	Government	Government	Hayward	Alameda	CA	94544	Team-Solar, Inc.	Sanyo Electric
PG&E	Five YearPBI	Step 6	4.85	Confirmed Reservation	Commercial	Commercial	Chowchilla	Madera	CA	93610	BAP Power Corporation	Suntech Power
PG&E	EPBB	Step 6	5.43	Confirmed Reservation	Commercial	Commercial	Chowchilla	Madera	CA	93610	R T Maher Construction and Solar H	Suntech Power
PG&E	Five YearPBI	Step 6	5.66	Confirmed Reservation	Commercial	Commercial	Healdsburg	Sonoma	CA	95448	Warren Brown Construction	Suntech Power
PG&E	Five YearPBI	Step 6	5.79	Confirmed Reservation	Non-Profit	Non-Profit			CA		Pacific Solar Energy	Schoff Solar
PG&E	Five YearPBI	Step 5	5.82	Confirmed Reservation	Commercial	Commercial	Livermore	Alameda	CA	94551	SunPower Corporation, Systems	SunPower
PG&E	Five YearPBI	Step 6	5.90	Confirmed Reservation	Commercial	Commercial	Livermore	Alameda	CA	94550	SolarCity	First Solar
PG&E	EPBB	Step 5	5.90	Confirmed Reservation	Commercial	Commercial	Bakersfield	Kern	CA	93307	Econo Air	Suntech Power
PG&E	Five YearPBI	Step 5	5.91	Confirmed Reservation	Commercial	Commercial	Livermore	Alameda	CA	94551	BASS Electric	Suntech Power
PG&E	Five YearPBI	Step 6	6.01	Confirmed Reservation	Commercial	Commercial	Chico	Butte	CA	95928	Chico Electric	Suntech Power
PG&E	Five YearPBI	Step 6	6.24	Confirmed Reservation	Commercial	Commercial	Fresno	Fresno	CA	93710	Lifestyle Solar Inc.	Suntech Power
PG&E	Five YearPBI	Step 6	6.25	Confirmed Reservation	Commercial	Commercial	Fresno	Fresno	CA	93710	Lifestyle Solar Inc.	Sharp
PG&E	Five YearPBI	Step 6	6.25	Confirmed Reservation	Commercial	Commercial	Fresno	Fresno	CA	93710	Lifestyle Solar Inc.	Sharp
PG&E	Five YearPBI	Step 6	6.25	Confirmed Reservation	Commercial	Commercial	Fresno	Fresno	CA	93710	Lifestyle Solar Inc.	Sharp
PG&E	Five YearPBI	Step 5	6.27	Confirmed Reservation	Commercial	Commercial	Huron	Fresno	CA	93234	SPG Solar, Inc.	Suntech Power
PG&E	Five YearPBI	Step 5	6.33	Confirmed Reservation	Commercial	Commercial	Five Points	Fresno	CA	93624	SPG Solar, Inc.	Mitsubishi Electric
PG&E	Five YearPBI	Step 5	6.33	Confirmed Reservation	Commercial	Commercial	Los Banos	Merced	CA	93635	SPG Solar, Inc.	Suntech Power
PG&E	EPBB	Step 6	6.35	Confirmed Reservation	Non-Profit	Non-Profit	Campbell	Santa Clara	CA	95008	SolarCity	First Solar
PG&E	Five YearPBI	Step 6	6.43	Confirmed Reservation	Government	Commercial	Orinda	Contra Costa	CA	94563	Team-Solar, Inc.	Sanyo Electric
PG&E	EPBB	Step 6	6.45	Confirmed Reservation	Non-Profit	Non-Profit	Danville	Contra Costa	CA	94506	Sky Power Systems	Suntech Power
PG&E	Five YearPBI	Step 6	6.50	Confirmed Reservation	Non-Profit	Non-Profit	San Francisco	San Francisco	CA	94132	SolarCity	First Solar
PG&E	EPBB	Step 6	6.59	Confirmed Reservation	Commercial	Commercial	Santa Rosa	Sonoma	CA	95403	SPG Solar, Inc.	Kyocera Solar
PG&E	EPBB	Step 6	6.60	Confirmed Reservation	Non-Profit	Non-Profit	San Rafael	Marin	CA	94901	SolarCity	First Solar
PG&E	EPBB	Step 6	6.62	Confirmed Reservation	Commercial	Commercial	Orland	Glenn	CA	95963	Alternative Eneve Systems Inc.	SunPower
PG&E	EPBB	Step 6	6.64	Confirmed Reservation	Commercial	Commercial	San Jose	Santa Clara	CA	95133	K2 Solar, Inc.	Evergreen Solar
PG&E	EPBB	Step 6	6.73	Confirmed Reservation	Commercial	Commercial	Santa Rosa	Sonoma	CA	95403	SPG Solar, Inc.	Kyocera Solar
PG&E	Five YearPBI	Step 6	6.80	Confirmed Reservation	Commercial	Commercial	Burlingame	San Mateo	CA	94010	SolarCity	First Solar
PG&E	EPBB	Step 6	6.82	Confirmed Reservation	Commercial	Commercial	Paso Robles	San Luis Obispo	CA	93446	PHAT Energy Corporation	Suntech Power
PG&E	Five YearPBI	Step 6	6.96	Confirmed Reservation	Government	Government	Santa Rosa	Sonoma	CA	95401	SolarCraft Services, Inc.	SunPower
PG&E	EPBB	Step 5	7.00	Confirmed Reservation	Commercial	Commercial	Santa Maria	Santa Barbara	CA	93454	SolarCity	First Solar
PG&E	EPBB	Step 6	7.00	Confirmed Reservation	Commercial	Commercial	Bakersfield	Kern	CA	93306	BAP Power Corporation	Suntech Power
PG&E	EPBB	Step 6	7.07	Confirmed Reservation	Non-Profit	Non-Profit	Laytonville	Mendocino	CA	95454	Gaia Energy Systems	Sharp
PG&E	Five YearPBI	Step 6	7.13	Confirmed Reservation	Commercial	Commercial	Santa Rosa	Sonoma	CA	95403	American Solar Corporation	Sharp
PG&E	EPBB	Step 6	7.15	Confirmed Reservation	Government	Government	Oroville	Butte	CA	95965	SPG Solar, Inc.	Solyndra
PG&E	EPBB	Step 5	7.25	Confirmed Reservation	Government	Government	Greenbrae	Marin	CA	94904	SPG Solar, Inc.	Kyocera Solar
PG&E	EPBB	Step 6	7.29	Confirmed Reservation	Non-Profit	Commercial	Glovis	Fresno	CA	93611	SolarCity	First Solar
PG&E	Five YearPBI	Step 6	7.34	Confirmed Reservation	Government	Government	Stockton	San Joaquin	CA	95206	Premier Power Renewable Energy,	Suntech Power
PG&E	EPBB	Step 6	7.43	Confirmed Reservation	Non-Profit	Non-Profit	Saint Helena	Napa	CA	94574	SolarCraft Services, Inc.	SunPower
PG&E	EPBB	Step 6	7.75	Confirmed Reservation	Commercial	Commercial	Merced	Merced	CA	95340	SunWorks Power and Electric	Open Energy
PG&E	EPBB	Step 6	7.77	Confirmed Reservation	Non-Profit	Non-Profit	Ross	Marin	CA	94957	Sun Light and Power	SunPower
PG&E	EPBB	Step 5	7.80	Confirmed Reservation	Commercial	Commercial	Napa	Napa	CA	94559	SolarCity	Sanyo Electric
PG&E	EPBB	Step 6	7.90	Confirmed Reservation	Non-Profit	Non-Profit	Bohles	Marin	CA	94924	American Solar Corporation	Evergreen Solar
PG&E	EPBB	Step 5	7.95	Confirmed Reservation	Government	Government	San Francisco	San Francisco	CA	94115	Marin Solar, Inc.	SunPower
PG&E	EPBB	Step 6	8.02	Confirmed Reservation	Commercial	Commercial	Morgan Hill	San Jose	CA	95037	Independent Energy Systems, Inc.	SunPower
PG&E	EPBB	Step 6	8.14	Confirmed Reservation	Commercial	Commercial	American Canyon	Santa Clara	CA	94503	Excel Solar & Electric, Inc.	SunPower
PG&E	Five YearPBI	Step 5	8.50	Confirmed Reservation	Government	Commercial	Sausalito	Marin	CA	94965	SolarCity	Sanyo Electric
PG&E	Five YearPBI	Step 6	8.56	Confirmed Reservation	Government	Government	Sebastopol	Sonoma	CA	95472	Sebastopol Heat and Cool, Inc.	Evergreen Solar
PG&E	EPBB	Step 5	8.79	Confirmed Reservation	Government	Government	Yountville	Napa	CA	94599	Marin Solar, Inc.	Sharp
PG&E	EPBB	Step 6	8.97	Confirmed Reservation	Commercial	Commercial	Santa Rosa	Sonoma	CA	95403	SolarCraft Services, Inc.	Sanyo Electric
PG&E	EPBB	Step 7	11.43	Confirmed Reservation	Non-Profit	Non-Profit	Atherton	San Mateo	CA	94027	Cupertino Electric, Inc.	Sharp
PG&E	EPBB	Step 5	11.50	Confirmed Reservation	Commercial	Commercial	Kingsburg	Fresno	CA	93631	SolarCity	First Solar

MIN	2.41 \$/watt
MAX	11.50 \$/watt
AVE	6.58 \$/watt

REV	DATE	BY	DESCRIPTION

NO.	DATE	BY	DESCRIPTION

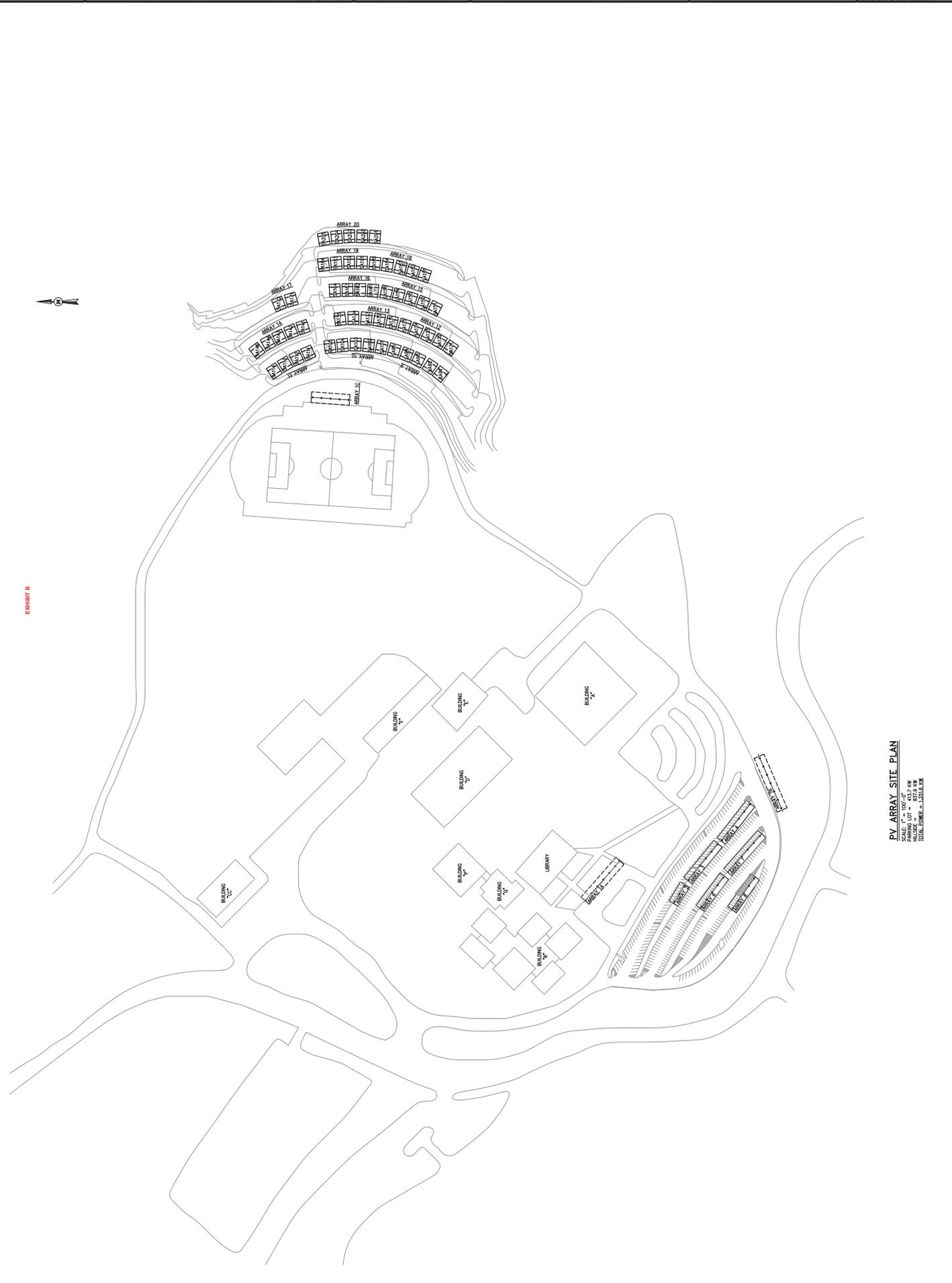


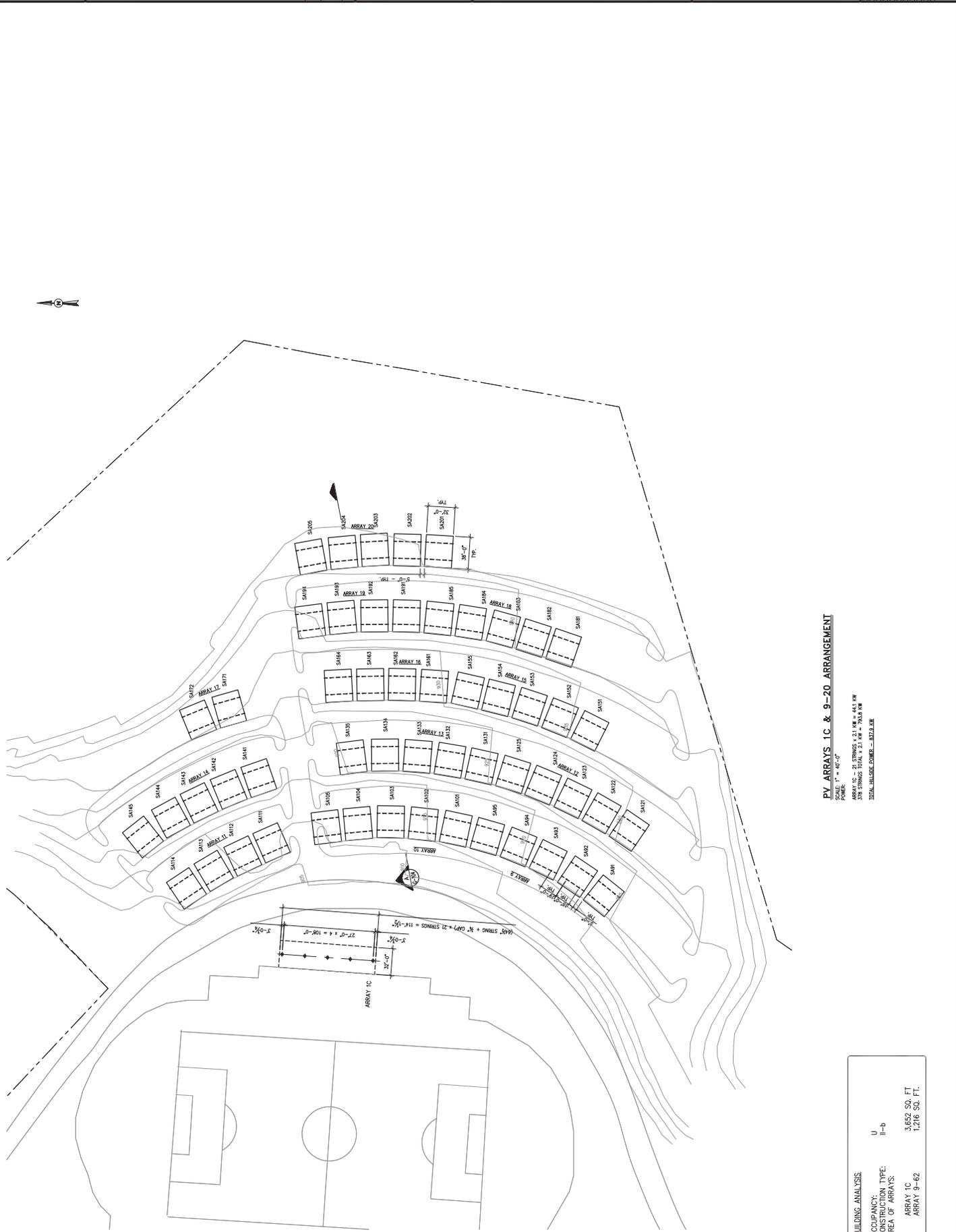
EXHIBIT B

**PV ARRAY SITE PLAN**  
 SCALE: 1" = 100'-0"  
 PARKING LOT = 413.7 SF  
 TOTAL ARRAY = 1,258.8 SF



REV	DATE	BY	DESCRIPTION

NO.	DATE	BY	DESCRIPTION



**PV ARRAYS 1C & 9-20 ARRANGEMENT**

SCALE: 1" = 40'-0"  
 ARRAY 1C - 21 STRINGS x 2.1 KW = 44.1 KW  
 378 STRINGS TOTAL x 2.1 KW = 793.8 KW  
 TOTAL HILLSIDE COVER = 832.8 KW

BUILDING ANALYSIS:	U
OCCUPANCY:	II-b
CONSTRUCTION TYPE:	1,652 SQ. FT.
AREA OF ARRAYS:	1,216 SQ. FT.
ARRAY 1C	
ARRAY 9-20	