Click here to view index

TEXAS
COMMISSION
ON ENVIRONMENTAL
QUALITY

2007 MAY 16 PM 4: 51

CHIEF CLERKS OFFICE

LOWERRE & FREDERICK
ATTORNEYS AT LAW
44 East Avenue, Suite 100
Austin, Texas 78701
(512) 469-6000 • (512) 482-9346 (facsimile)
Mail@LF-LawFirm.com

May 16, 2007

Ms. LaDonna Castañuela
TCEQ
Office of the Chief Clerk, MC-105
P.O. Box 13087
Austin, Texas 78711-3087

Re: Supplemental Brief in Support of Motion to Overturn; TCEQ Docket No. 2007-0598-AIR; Permit Alteration – Permits 4381 and PSD-TX-3, Welsh Power Stations

Dear Ms. Castañuela:

Enclosed please find an original and twelve copies of the *Supplemental Brief in Support of Motion to Overturn* filed on behalf of the Sierra Club and Public Citizen.

Please file stamp one copy and return it with our clerk. If you have any questions or need any additional information, please do not hesitate to call.

Ilan Levin

CC: Service List

TCEQ DOCKET NO. 2007-0598-AIR

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

2007 MAY 16 PM 4:51

CHIEF CLERKS OFFICE

RE: PERMIT ALTERATION	§	**BEFORE THE**
	§	
	§	**TEXAS COMMISSION**
PERMITS 4381 AND PSD-TX-3	§	
	§	**ON**
	§	
WELSH POWER STATION	§	**ENVIRONMENTAL QUALITY**
	§	

TO THE HONORABLE COMMISSIONERS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY:

COME NOW Sierra Club and Public Citizen, and respectfully submit this Supplemental Brief, in response to the TCEQ General Counsel's May 1, 2007 Notice.

It is indisputable that the permittee, American Electric Power ("AEP") and its subsidiaries represented to the United States EPA, and to TCEQ and its predecessors that each of the three Welsh power plant boilers (Units 1, 2, and 3) would be limited to a heat input of 5,156 mmBtu/hour. It is equally indisputable that AEP represented and that TCEQ relied on the representation that coal burned would be limited to 0.5 percent sulfur content, based on the *dry* weight of coal.

Movants submitted several exhibits as attachments to their April 12, 2007 Motion to Overturn (MTO), including the following documents:

MTO Attachment	Title/Description	What it Shows
C	9/23/2005 letter from Public Citizen and Sierra Club to TCEQ re: revision of SWEPCO permit	Movants raised concerns at issue in this pending matter; Explains that sulfur-content permit changes would lead to increased SO2 emissions; Explains that based on this plant's track record, eliminating the heat input limitation would make compliance determinations for particulates almost impossible.
D	4/11/2005 TCEQ ED's Preliminary Report and Petition Recommending that TCEQ Enter and Enforcement Order Assessing Administrative Penalty and Requiring Actions of AEP/SWEPCO	The TCEQ Executive Director, Office of Legal Services, Litigation Division, and Tyler Regional Office enforcement personnel all determined that both the 5,156 mmBtu heat input limit, and the 0.5% (dry-basis) coal sulfur limit are enforceable representations made, specifically, in AEP's 1997 and 1994 permit renewal applications.
E	TNRCC FOP Form OP-ACPS (Compliance Plan and Schedule)	As part of AEP's April 2004 Title V Permit, TCEQ acknowledged (and AEP presumably understood) that a "noncompliance situation" exists, namely, that heat input exceedances violate conditions 2,3, and 4 of the plant's PSD permit.
F	7/19/2004 letter from TCEQ Tyler Regional Office to SWEPCO Plant Manager	Notice of Enforcement for the Welsh plant, including heat input and sulfur content exceedances.
G	8/31/1995 TNRCC letter to SWEPCO re: permit alteration for Permit No. 1166 (i.e. Welsh Unit No. 1)	The TCEQ ED's position is – and always has been -- that "The heat input rate shall not exceed 5156 MMBTU/hr as represented in the original application."
H	5/6/1997 letter from SWEPCO to TNRCC re: Permit No. 1166	The original representation regarding the "maximum heat input of 5156 MMBtu/hr" directly led to the establishment of the particulate matter limit.
I	Permit Renewal Source Analysis and Technical Review (1998)	TCEQ's stated position the last time Permit 4381 (Unit 3) was renewed, in 1998, is that "Low sulfur coal (0.5%S, dry basis) is used as fuel." (*See,* page 3)
J	Portions of February 1997 Application for Renewal for Permit No. 4379	AEP made the same representations in its 1997 renewal application as in the original application.

The purpose of this Supplemental Brief is to submit additional exhibits as evidence that the heat input limit and dry-weight coal sulfur content are critical pollution limits for the Welsh power plant, and to provide additional explanation as to why changing these permit terms are not merely "clarifications" or "alterations," but are instead major amendments that require heightened agency scrutiny and full opportunity for public participation.

The permit at issue here is Permit No. 4381/PSD-TX-3, which is a "consolidated" permit that incorporates the Welsh plant's original EPA-issued PSD authorizations and the three original state authorizations (Permits No. 1166 – Unit 1; No. 4379 – Unit 2; and No. 4381 – Unit 3).

The permit states that "the facilities covered in this permit shall be constructed and operated as specified in the application for the permit." (*See,* Condition 1, citing 30 TAC 116.116)

The Welsh Unit No. 1 permit (No. 1166) was issued October 10, 1973. The permit provides (Condition 4) that the unit will be constructed as represented in the application.

Subsequently, in 1976, AEP filed applications for Units 2 and 3, representing that the Units 2 and 3 application is identical to the Unit 1 application.

Representations in the Original and Renewal Applications

AEP submitted, on July 16, 1973, a Unit No. 1 supplemental application (Form PI-2), which included an engineering report containing detailed construction and operational representations. *See,* Sargent & Lundy report (No. 2858, rev. June 12, 1973). The Sargent & Lundy report unequivocally bases the particulate matter emission rate on "the maximum Unit 1 heat input of 5156 MMBTU/hr." *See,* page 4. The report

unequivocally explains that the modeling for SO2 ground-level impacts was based on 0.5 percent (dry-weight) coal sulfur limit. The Sargent & Lundy report assumed that all the sulfur in the coal went up and out the stack. (*See,* page 6) The sulfur dioxide calculations are based on a dry heating value of coal of 11,780 BTU/lb, and 0.5 percent dry sulfur content of coal. [1]

The following exhibits are attached to this Supplemental Brief:

Attachment	Document	What it Shows
A	TACB Form PI-2, Supplemental Application (SWEPCO Unit 1), with Sargent & Lundy (June 12, 1973) emissions analysis and ground level modeled concentrations.	S&L cover letter, at page 2: "This report is based on… a maximum boiler heat input of 5156 x 10E6 Btu/hr." S&L report at page 3: "Units 1, 2, and 3 are assumed to be identical for all calculations in this report." *See also,* report at p. 4 (re: design parameters and values were assumed for calculation of ground-level concentrations; and S&L report Exhibit 1, showing analysis based on dry weight.
B	May 1, 1976 Applications for Units 2 and 3	Addendum to Form PI-1 (process description) and Table 1 (Emission Sources) state that the requested information is "identical to that accompanying the application for Welsh Unit #1…" *See also* Table 6 (Boilers and Heaters), listing all modeling and emissions assumptions.
C	Portions of Feb. 27, 1997 Renewal for Unit 2	AEP made the same representations regarding heat input and sulfur content of coal as in the original application.
D	Portions of Feb. 27, 1997 Renewal for Unit 2	AEP made the same representations regarding heat input and sulfur content of coal as in the original application.
E	TCEQ Investigation Report Attachment 5, (% Sulfur E-mail) TCEQ Investigation Report Attachment 8, (MMBtu/hr Exceedance Data) TCEQ Investigation Report Attachment 9, (Sulfur Exceedance Data)	AEP's response to NOE re sulfur limit Exceedances are based on reported coal data.[2] Coal sulfur content exceedances.

[1] This rate is derived as follows: Pounds of coal burned each hour (5,156 x 10E6/11,780 = 4.377 x 10E5 #/hr) x 0.5 percent = (2.1885 x 10E3 #/hr). That number is then doubled, since Sulfur has an atomic weight of 32 and Oxygen has an atomic weight of 16, yielding a result of 4.377 x 10E3 #/hr SO2. This is then divided by 5,156 mmBtu (the max. heat input/hour) and the result is 0.8489 #/mmBtu SO2. That is surely the 0.85 #/MMBTU used by Sargent & Lundy in its modeling.

[2] This is significant because AEP has claimed that heat input data derived from continuous emissions monitors is biased high. However, the exceedances are also, as indicated in this Attachment, based on AEP/SWEPCO's own reported coal data.

Deleting the Heat Input Limit and Amending the Coal Sulfur Limit Will Increase Emissions and Create Additional Monitoring and Compliance Problems

Heat input is one of the most important operational limitations on any power plant, because the amount of coal that goes in the front end directly affects how much pollution comes out of the smokestack.

Ironically, after more than twenty years of operation, AEP finds ambiguity in its heat input related permit conditions. But the TCEQ Executive Director has never expressed any doubt that heat input is an operational limitation, as evidenced by the Notice of Enforcement and Preliminary Report and Recommendation. In fact, the *pre-alteration* Special Condition 2 refers clearly to the "heat input limit."

The representations AEP made in the permit applications and renewal applications provide even further evidence that there is no ambiguity in the *pre-alteration* version of Special Conditions 2, 3, and 4. The requirement to abide by all the operational and design parameters in the applications was a clear permit requirement in the original permits (Condition No. 4) as it is in the current permit (Condition 1 and 30 TAC 116.116).

Deleting the heat input limit will lead to additional compliance problems, because heat input may be used to determine compliance with the emissions rates set out in the Maximum Emission Rate Table. *See*, Permit No. 4381/PSD-TX-3 Special Condition 16 (The fuel firing rate, i.e. the heat rate, expressed in mmBtu/hour "may be used to determine compliance with the emissions limitations of Special Condition No. 1."). This permit term is especially important for emission limits such as particulate matter, which are not continuously monitored. AEP conducted a PM stack test in 1980, and then again *more than twenty years later*, in 2004. Thus, in the absence of routine stack tests for PM,

the public has no way of knowing whether the plant is in compliance with particulate matter limits.

A coal sulfur content limit based on dry weight is more restrictive than a limit based on wet weight. A 0.5 percent wet weight limit would typically result in 30 to 40 percent more sulfur dioxide emissions than a 0.5 percent dry weight limit.

In addition, a wet weight basis makes for complicated compliance determinations, because the level of moisture in the coal – and hence the weight of the coal – could fluctuate dramatically based on the weather.

Respectfully,

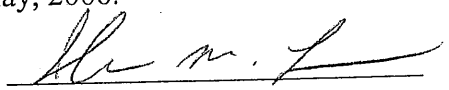
Ilan Levin
Environmental Integrity Project
1002 West Avenue, Suite 300
Austin, Texas 78701
Ph: (512) 619-7287
Fax: (512) 479-8302
Email: ilevin@environmentalintegrity.org

David Frederick
Lowerre & Frederick
44 East Ave., Ste. 100
Austin, TX 78701
PH: 512/469-6000
FAX: 512/482-9345
dof@lf-lawfirm.com
layla@lf-lawfirm.com

ATTORNEYS FOR SIERRA CLUB AND PUBLIC CITIZEN

CERTIFICATE OF SERVICE

I certify that a true and correct copy of the foregoing was *Supplemental Brief* was delivered to the TCEQ's Office of the Chief Clerk, and was served upon the parties identified below by hand delivery, postage prepaid first class U.S. mail, facsimile and/or electronic mail, on this 16th day of May, 2006.



Ilan Levin

Keith Courtney
Winstead, PC
401 Congress Avenue, Suite 2100
Austin, Texas 78701

Stephanie Bergeron
TCEQ Environmental Law Div., MC173
P.O. Box 13087
Austin, TX 78711-3087

Richard A. Hyde
TCEQ Air Permits Division, MC163
P.O. Box 13087
Austin, TX 78711-3087

Blas Coy
TCEQ Office of Public Interest Counsel, MC103
P.O. Box 13087
Austin, TX 78711-3087

Bridget Bohac
TCEQ Office of Public Assistance, MC108
P.O. Box 13087
Austin, TX 78711-3087

List of Attachments

Attachment A	TACB Form PI-2, Supplemental Application (SWEPCO Unit 1), with Sargent & Lundy June 12, 1973) emissions analysis and ground level modeled concentrations
Attachment B	May 1, 1976 Applications for Units 2 and 3
Attachment C	Portions of Feb. 27, 1997 Renewal for Unit 2
Attachment D	Portions of Feb. 27, 1997 Renewal for Unit 2
Attachment E	TCEQ Investigation Report Attachment 5, (% Sulfur E-mail); TCEQ Investigation Report Attachment 8, (MMBtu/hr Exceedance Data) ; TCEQ Investigation Report Attachment 9, (Sulfur Exceedance Data)

Attachment A

e/sh - TACB (72-6) permit

TEXAS AIR CONTROL BOARD

FORM PI-2, SUPPLEMENTAL APPLICATION

This application and all attachments to be submitted in triplicate. Incomplete applications will not be processed. Review of applications and issuance of permits will be accomplished sooner if all necessary information is supplied with the initial application forms.

A. PERMIT TO BE ISSUED TO: SOUTHWESTERN ELECTRIC POWER COMPANY
(Corporation, Company, Government Agency, Firm, etc.)

Mailing address: P. O. Box 1106, Shreveport, Louisiana 71156

Individual authorized to act for applicant: Name: R. A. Neal Title: Manager of Construction

Address: P.O.Box 1106, Shreveport, La. 71156 Telephone: (318) 422-2141

B. LOCATION OF PERMIT UNIT:

Nearest city: Mount Pleasant County: Titus

C. TYPE OF OPERATION OR PROCESS OF PERMIT UNIT:

Name of operation or process of permit unit: Electric Generating Plant - Boiler

Permit unit identification number: Unit #1, Boiler #1

D. PERMIT UNIT SCHEDULE:

Construction expected to begin: November 1, 1973
(Date)

Operation expected to begin: September 1, 1976
(Date)

E. PROVIDE THE REQUESTED INFORMATION LISTED ON THE ATTACHED TABLE(S).

F. I, R. W. Dodson Senior Vice-President
(Name) (Title)

state that I have knowledge of the facts herein set forth and that the same are true and correct to the best of my knowledge and belief. I further state that to the best of my knowledge and belief, the project for which application is made will not in any way violate any provision of the Texas Clean Air Act, Article 4477-5, Vernon's Texas Civil Statutes, as amended, or any of the rules and regulations of the Texas Air Control Board or any local governmental ordinance or resolution enacted pursuant to the Texas Clean Air Act.

DATE July 26, 1973 SIGNATURE R. W. Dodson

Attachment A

SWEPCO 01760

Form PI-1 (71 - 9)

TEXAS AIR CONTROL BOARD

GENERAL APPLICATION

for permit to construct or modify a facility in accordance with regulations of the Texas Air Control Board

(Read Instructions Before Completing)

I. General
A. Permit to be issued to: SOUTHWESTERN ELECTRIC POWER COMPANY
(Corporation, Company, Government Agency, Firm, etc.)
B. Mailing Address: P. O. Box 1106, Shreveport, Louisiana 71156
C. Individual authorized to act for applicant:
Name: R. A. Neal Title: Manager of Construction
Address: P. O. Box 1106, Shreveport, Louisiana 71156
Telephone: 318 - 422-2141

II. Location of Plant or Facilities (Latitude and Longitude must be to the nearest 15 seconds)
(Nearest City) Mount Pleasant (County) Titus
(Latitude) N 33° 03' 30" (Longitude) W 94° 50' 45"

III. Type of Operation or Process
A. Name of Operation or Process: Electric Generating Plant - Boiler
B. Process Unit Identification Number: Unit #1 - Boiler #1
C. Type (check one): Permanent ☒ Portable ☐
D. (See Instructions): 2 Electrostatic Precipitators, Dust Collecting System, See Attachments A, B, C, and D

IV. Applicant Classification (check applicable blocks)

	Yes	No	
A.	☒	☐	New Source
B.	☐	☒	Modification of Existing Source
C.	☐	☒	Change of Location
D.	☐	☒	Change in Ownership
E.	☐	☒	Facility Now Operating Under Permit Number

V. Proposed Start Date of Construction
November 1, 1973
(Month) (Day) (Year)

VI. Has Local Air Pollution Control Program been contacted?
☐ Yes
☒ No
☒ No active local program in the city or county

VII. I, R. W. Dodson, Senior Vice-President
(Name) (Title)
state that I have knowledge of the facts herein set forth and that the same are true and correct to the best of my knowledge and belief. I further state that to the best of my knowledge and belief, the project for which application is made will not in any way violate any law, rule, ordinance, or decree of any duly authorized governmental entity having jurisdiction.
Date: June 25, 1973 Signature: X R. W. Dodson

SWEPCO 01761

SWEPCO 01762

TABLE 1

EMISSION SOURCES

List all sources, including this application, of air contaminants on applicant's property. If applicant has submitted this information in an earlier emission inventory, it will not be necessary to duplicate the requested information. Instead, indicate that this page has been submitted and list only changes from the emission inventory and list new source data.

ALL SOURCES

SOURCE NUMBER (From Plot) Plan	LIST POLLUTANT EMISSIONS (CHEMICAL COMPOSITION) & WT. % OF EACH	FLOW RATE OF EACH LISTED EMISSION	
		GASEOUS	PARTICULATE
See Attachment "E"			
1	H_2, CO_2 and oil vapors after centrifugal separator.	Trace amounts will be vented to atmosphere intermittently.	
2	Water vapor	Safety valves on various steam lines emit water vapor periodically.	
4	Water vapor	Boiler blowdown intermittent use.	

STACKS ONLY

SOURCE NUMBER (From Plot) Plan	STACK HEIGHT ABOVE GROUND (ft.)	STACK INTERNAL DIAMETER AT EXIT (ft.)	TEMP. DEG. (F)	VELOCITY (FT/SEC)	MOIS. %
3	241 ft.	18 ft.	275 F	120 ft/sec	
(Top of stack 25 feet above top of boiler support steel)					

ENCLOSE THE FOLLOWING AVAILABLE INFORMATION:

1. EMISSIONS OTHER THAN THROUGH STACKS (HORIZONTAL VENTS, ETC.)
2. STACK'S HEIGHT ABOVE SUPPORTING OR ADJACENT STRUCTURES
3. DIMENSIONS OF NON-CIRCULAR STACKS
4. RESULTS OF TESTS INDICATING AVERAGE PARTICLE SIZE, DENSITY, ETC.

TABLE 6

BOILERS AND HEATERS

Type of Device: Boiler		Manufacturer: Babcock and Wilcox	
Number from flow diagram:		Model Number:	

CHARACTERISTICS OF INPUT

Type Fuel	Chemical Composition (% by Weight) (dry)	Inlet Air Temp °F (after preheat)	Fuel Flow Rate (scfm* or lb/hr) (dry)	
Coal	Ultimate Analysis Carbon 70.00 Hydrogen 4.86 Oxygen 16.61 Nitrogen .86 Sulphur .50 Ash 7.14 Chlorine .03 100.00 See Attachment "C" previously submitted	Avg. 585°F Max. 651°F	Average 261,100 lb/hr	Design Maximum 437,500 lb/hr
		Gross Heating Value of Fuel (dry) (specify units) 11,780 BTU/lb	Total Air Supplied (scfm*) Average 3,623,000	Design Maximum 4,681,000

HEAT TRANSFER MEDIUM

Type Transfer Medium (Water, oil, etc.)	Temperature °F Input	Temperature °F Output	Pressure (psia) Input	Pressure (psia) Output	Flow Rate (specify units) Ave.	Flow Rate (specify units) Design Max.
Water	(Max) (Water) 488°F	(Max) (S H Steam) 1005°F	2820 psia	2635 psia	60% 2,100,000 lb/hr	3,793,000 lb/hr

OPERATING CHARACTERISTICS

Ave. Fire Box Temp. at max. firing rate	Fire Box Volume (ft.^{3}) (from drawing)	Gas Velocity in Fire Box (ft/sec) at max firing rate	Residence Time in Fire Box at max firing rate (sec)
Approx. 2500 °F	434,000 ft^3	51 ft/sec	Approx. 2 sec

STACK PARAMETERS

Stack Diameters	Stack Height	Stack Gas Velocity (ft/sec) (@Ave. Fuel Flow Rate)	Stack Gas Velocity (ft/sec) (@Max. Fuel Flow Rate)	Stack Gas Temp (°F)
18 feet	241 feet (above ground elev. 240')	87 ft/sec	Design - 120 ft/sec	275° F

CHARACTERISTICS OF OUTPUT

Material	Chemical Composition of Exit Gas Released (% by Volume)
CO_2	12.4%
H_2O	10.3%
O_2	3.3%
N_2	74.0%
NO_x and SO_2	See Attachment "C" previously submitted.

Attach an explanation on how temperature, air flow rate, excess air or other operating variables are controlled.

Also supply an assembly drawing, dimensioned and to scale, in plan, elevation, and as many sections as are needed to show clearly the operation of the combustion unit. Show interior dimensions and features of the equipment necessary to calculate its performance. See Attachment "F" for additional information (5 pages)

* Standard Conditions: 70°F, 14.7 psia

FORM PI-2 (72-9)

TABLE 12

ELECTROSTATIC PRECIPITATORS

Point Number (from Flow Diagram)	Manufacturer & Model No. (if available): Research - Cottrell
Name of Abatement Device: Electrostatic Precipitator	Type of Particulate Controlled: Fly Ash

GAS STREAM CHARACTERISTICS

Flow Rate (acfm)		Gas Stream Temperature (°F)	Particulate Grain Loading (grain/scf) (32°F, 1 atm)	
Design Maximum	Average Expected		Inlet	Outlet
3,025,000	2,281,000	750 °F	Design 2 - 5.0	.02

Pressure Drop (in. H_2O)	Water Vapor Content of Effluent Stream (lb water/lb dry gas)	(Preliminary) I.D. Fan Requirements (hp)	(ft^3/min)
.33	.086	3250 hp	(275°F) (-24.66 in.water) 1097542 ft^3/min

PARTICULATE DISTRIBUTION (By Weight)

Micron Range	Inlet	Outlet
0.0-0.5	3 %	55 %
0.5-1.0	3 %	31.5 %
1.0-5.0	25 %	13.1 %
5-10	12 %	.3 %
10-20	19 %	trace %
over 20	38 %	trace %

PRECIPITATOR CHARACTERISTICS

Number of Stages	Number of Plates	Plate Spacing	Number of Discharge Electrodes	Spacing Between Electrodes and Plates
6 mechanical, 8 electrical	1728	9"	20,352	4.5"

Length of Plates (ft)	Width of Plates	Potential Applied (KV/in)	Cross-sectional Area of Precipitator (ft^2)	Cross-sectional of Inlet Duct (ft^2)
30'	9'	10 KV/in. (rms)	9540 ft^2	1050 ft^2

Precipitator Volume (ft^3)	Residence Time in Precipitator (sec)	Type of Collecting Electrode: ~~Tubular~~ Plate
343,440 ft^3	6.82	9' x 30' x .0359

Method of Frequency of dust removal: Vacuum emptied, mixed with water and pumped to ash pond. Frequency as required up to 16 hr. interval.

Describe frequency and type of rapping employed: (See Attachment Q - 3 sheets) Collector: gravity impact. Freq. & intensity adjustable. Discharge: vibrator - Frequency & intensity adjustable

ADDITIONAL INFORMATION

On separate sheets attach the following:

A. Details regarding principle of operation

B. An assembly drawing (Front and Top View) of the abatement device dimensioned and to scale clearly showing the design, size and shape. See Attachment "R"

If the device has bypasses, safety valves, etc., include in drawing and specify when such bypasses are to be used and under what conditions. No bypasses or safety valves

SWEPCO 01764

ATTACHMENT "B"

WARRANTY DEED

VOL. ____ PAGE ____ 2976 VOL. 380 PAGE 597

THE STATE OF TEXAS X

COUNTY OF TITUS X

KNOW ALL MEN BY THESE PRESENTS:

That we, Terrell W. Connor, Jr. of Parker County, Texas; Sarah Connor Arnett of Dallas County, Texas; George Connor of Baton Rouge Parish, Louisiana; Lev Old Connor of Dallam County, Texas; and Margaret Anne Youngblood of Brown County, Texas, for and in consideration of the sum of Ten ($10.00) Dollars, and other good and valuable consideration, to us in hand paid by Southwestern Electric Power Company, a Delaware Corporation, having its principal office and place of business at 428 Travis Street, Shreveport, Louisiana, being all cash in hand paid, the receipt and sufficiency of which is hereby acknowledged and confessed;

Have Granted, Sold, and Conveyed, and by these presents do Grant, Sell, and Convey unto the said Southwestern Electric Power Company, all that certain tract or parcel of land situated in the County of Titus, State of Texas, being a part of the James Gahagan Survey, Abst. No. 230, and also being all of the 100 acre tract conveyed by Bird Old and Pearl Patton to Sibyl Connor by deed recorded in Vol. 73, page 481, Deed Records of said County, a part of the 255 acre tract conveyed by Pearl Patton and Bird Old to Sibyl Connor by deed recorded in Vol. 111, page 408 of the Deed Records of said County, and a part of the 20 acre tract conveyed by Bird Old to Sibyl Connor by deed recorded in Vol. 146, page 411 of the Deed Records of said County, and bounded as follows:
BEGINNING at a stake for corner, the most northerly northwest corner of the above described 255 acre tract, same also being an interior corner of the Herman Old 249 acre tract;
THENCE SOUTH 89 deg. 35 min. E. along a fence line, 3022.22 ft. to a stake for corner in the center line of Swanano Creek;
THENCE with the meanderings of said creek the following courses and distances:

S 23 deg. 30 min. E. 166.44 ft.
S 60 deg. 11 min. W. 102.58 ft.
S 4 deg. 07 min. W. 111.29 ft.
S 68 deg. 47 min. W. 110.49 ft.
N 54 deg. 15 min. W. 154.03 ft.
S 10 deg. 28 min. W. 66.10 ft.
S 21 deg. 48 min. E. 317.72 ft.
S 48 deg. 57 min. W. 164.44 ft.
S 37 deg. 30 min. W. 108.41 ft.
S 8 deg. 17 min. E. 55.58 ft.
N 76 deg. 47 min. E. 135.59 ft.
S 12 deg. 26 min. E. 269.32 ft.
S 51 deg. 10 min. E. 362.01 ft.
S 39 deg. 29 min. E. 390.01 ft.
S 16 deg. 49 min. W. 235.05 ft.
S 14 deg. 51 min. E. 85.87 ft.
S 58 deg. 09 min. E. 198.96 ft.
S 75 deg. 46 min. W. 73.25 ft.
N 81 deg. 59 min. W. 143.40 ft.
S 23 deg. 30 min. W. 125.40 ft.
S 11 deg. 57 min. E. 106.30 ft.
S 43 deg. 22 min. W. 49.52 ft.
N 47 deg. 45 min. W. 162.11 ft.
S 72 deg. 10 min. W. 120.81 ft.
S 9 deg. 58 min. E. 167.53 ft.
S 54 deg. 34 min. W. 182.86 ft.
S 2 deg. 22 min. E. 194.16 ft.
S 75 deg. 28 min. E. 139.46 ft.
S 51 deg. 34 min. W. 154.46 ft.
S 87 deg. 44 min. W. 101.08 ft.

N 21 deg. 26 min. W. 115.95 ft.
S 5 deg. 37 min. E. 265.28 ft.
S 9 deg. 56 min. E. 81.22 ft.
S 11 deg. 29 min. E. 201.02 ft.
S 70 deg. 21 min. W. 104.06 ft.
N 56 deg. 05 min. W. 139.79 ft.
S 2 deg. 16 min. W. 152.12 ft.
S 59 deg. 54 min. E. 137.56 ft.
N 81 deg. 43 min. W. 111.16 ft.
S 2 deg. 30 min. W. 206.20 ft.
S 68 deg. 12 min. E. 150.78 ft.
S 65 deg. 44 min. W. 189.77 ft.
S 15 deg. 57 min. E. 196.56 ft.
S 63 deg. 09 min. E. 90.79 ft.
S 44 deg. 31 min. W. 84.15 ft.
N 77 deg. 49 min. W. 165.74 ft.
South, 140.00 ft.
East, 171.00 ft.
S 6 deg. 22 min. E. 225.39 ft.
S 45 deg. 56 min. W. 173.97 ft.
S 63 deg. 02 min. E. 253.58 ft.
S 33 deg. 03 min. E. 75.17 ft.
N 65 deg. 04 min. E. 78.29 ft.
S 32 deg. 00 min. E. 47.17 ft.
S 36 deg. 37 min. 41 sec. W. 45.23 ft.

to a stake for corner, the Southeast corner of the above described 100 acre tract;

THENCE WEST along the general course of a fence line, 2293.32 ft. to a stake for corner, the SWC of the said 100 acre tract, same also being the NWC of the Pearl Patton 100 acre tract;

THENCE NORTH 0 deg. 38 min. E. along a fence line and along the west line of the said Connor 100 acre tract, same also being the east line of the Bird Old, Jr. 249 acre tract, 1494.87 ft. to a stake for corner, the NEC of the Old 249 acre tract, same also being the lower SEC of the said Connor 255 acre tract;

THENCE NORTH 89 deg. 15 min. 23 sec. W. along a fence line and along the north line of the said Old tract, 2325.09 ft. to a stake for corner a SWC of the said Connor 255 acre tract, same also being the SEC of the Pearl Patton 10 acre tract;

THENCE NORTH 0 deg. 27 min. W. along a fence line, 283.3 ft. to a stake for corner, the NEC of the said Patton 10 acre tract;

THENCE SOUTH 89 deg. 52 min. W. along the north line of the said Patton 10 acre tract, 417.89 ft. to a stake for corner in the center line of a County Road;

THENCE NORTH 29 deg. 01 min. 46 sec. E. along said center line, 237.96 ft. to an angle point;

THENCE NORTH 15 deg. 24 min. E. continuing along the center line of the said road, 728.0 ft. to a stake for corner in the north line of the above described Connor 20 acre tract, same being the lower south line of the Herman Old 249 acre tract;

THENCE EAST along a fence line, 1785.52 ft. to a stake for corner, the NEC of the said Connor 20 acre tract and the lower SEC of the said Old 249 acre tract;

THENCE NORTH along a fence line, 2140.72 ft. to the place of beginning, and containing 353.29 acres of land;

LESS AND EXCEPT, however, there is reserved to Grantors, their heirs and assigns, all of the oil, gas, sulphur, and other liquid or gaseous hydrocarbons located under the above described land, which may be mined or produced by means of drilling operations which will not materially affect or disturb the surface of said land, nor any of the improvements that may be placed thereon by Company; it being expressly understood that said reservation does not include gravel, iron ore, coal or lignite or other minerals that may be lying at or near the surface of said land.

SARGENT & LUNDY
ENGINEERS
FOUNDED BY FREDERICK SARGENT-1891
140 SOUTH DEARBORN STREET
CHICAGO, ILLINOIS 60603
TELEPHONE - FINANCIAL 6-7600
CABLE ADDRESS - SARLUN-CHICAGO

June 12, 1973

Mr. W. H. Holley
Supervisor of Plant Design
Southwestern Electric Power Company
P.O. Box 1106
Shreveport, Louisiana 71102

Dear Mr. Holley:

Enclosed are fifteen copies of the following report:

Report SL-2858
Evaluation of Air Pollution Effects of
Welsh Power Plant
Revised June 12, 1973

This report presents an analysis of the maximum SO_2, NO_x and fly ash emissions and ground-level concentrations anticipated to result from operation of Welsh Power Plant near Cason, Texas and compares these emissions with regulations applicable to the steam generating units at the site.

The anticipated SO_2 emission rate of 0.85 lb/10^6 Btu heat input from each unit would be in compliance with the federal standard of 1.2 lb/10^6 Btu heat input. The boiler specification requires boiler manufacturers to comply with the federal NO_x standard of 0.7 lb/10^6 Btu heat input for fly ash emissions. Thus, each unit burning Wyoming coal will be in compliance with its emission rate standard.

Calculations of ground-level concentrations of sulfur dioxide, nitrogen oxides, and particulate matter show that the maximum concentrations for a 3-unit station would be in compliance with all applicable ambient air quality standards.

COPY

SARGENT & LUNDY
ENGINEERS
CHICAGO

Mr. W. H. Holley

June 12, 1973
Page 2

The operation of the proposed generating station is not anticipated to cause an air pollution problem.

This revised report is based on the latest engineering and boiler design data for Welsh Power Plant. The report is based on 241-foot stack heights for each unit and a maximum boiler heat input of 5156 x 10^6 Btu/hr. The flue gas exit velocity is calculated to be 120 ft/sec.

Yours very truly

Tor Kolflat

T. D. Kolflat
Project Director

TDK/mak
Enclosures

166 | 5156,000,000 Btu
598

8,300 2000
186,000,000

320
16
1920
320
5120

SWEPCO 01768

COPY

EVALUATION OF AIR POLLUTION EFFECTS OF WELSH POWER PLANT

REPORT PREPARED FOR

SOUTHWESTERN ELECTRIC POWER COMPANY

REPORT SL—2858

REVISED JUNE 12, 1973

SARGENT & LUNDY
ENGINEERS
CHICAGO

TABLE OF CONTENTS

		PAGE
I	INTRODUCTION	1
II	PLANT DESCRIPTION	2
	A. Site Description	2
	B. Physical Description of Plant	2
III	METHOD OF CALCULATION	3
IV	REGULATIONS	5
	A. Emission Rates	5
	B. Ground-Level Concentrations	5
V	DISCUSSION OF RESULTS	6
	A. Emission Rates	6
	B. Ground-Level Concentrations	7
	1. Sulfur Dioxide	7
	2. Oxides of Nitrogen	8
	3. Particulate Matter	8
VI	SUMMARY	9
	APPENDIX - METEOROLOGICAL INFORMATION	

LIST OF EXHIBITS

1 - Representative Coal Analysis

2 - Dallas, Texas Meteorological Data

3 - Meteorological Data for Short- and Intermediate-Term Ground-Level Concentrations

4 - Plant Design Parameters

5 - Applicable Regulations

6 - 30-Minute SO_2 Concentration

7 - 3-Hour SO_2 Concentration

8 - 24-Hour SO_2 Concentration

9 - Annual SO_2 Concentration - 1 Unit

10 - Annual SO_2 Concentration - 2 Units

11 - Annual SO_2 Concentration - 3 Units

12 - Annual Oxides of Nitrogen Concentration - 1 Unit

13 - Annual Oxides of Nitrogen Concentration - 2 Units

14 - Annual Oxides of Nitrogen Concentration - 3 Units

15 - 24-Hour Particulate Matter Concentration

16 - Annual Particulate Matter Concentration - 1 Unit

17 - Annual Particulate Matter Concentration - 2 Units

18 - Annual Particulate Matter Concentration - 3 Units

SARGENT & LUNDY
ENGINEERS
CHICAGO

EVALUATION OF AIR POLLUTION EFFECTS OF WELSH POWER PLANT

SOUTHWESTERN ELECTRIC POWER COMPANY

I INTRODUCTION

Southwestern Electric Power Company has proposed Cason, Texas as the site of its new coal-fired generating station. The new station has been designated Welsh Power Plant. The first of three 550 MW generating units is scheduled for commercial operation in February of 1977. The low-sulfur contract coal will be mined in Campbell County, Wyoming.

Regulations adopted recently by the Texas Air Control Board require issuance of a construction permit before on-site construction of a commercial steam generating unit is begun. The criteria for issuance of the construction permit require Southwestern Electric Power to demonstrate that atmospheric emissions from the steam generating unit will be in compliance with emission regulations. Southwestern Electric Power must also demonstrate that ground-level concentrations at the proposed station will be in compliance with ambient air quality standards. Satisfaction of these criteria must be demonstrated by submission of information to the Texas Air Control Board before a permit can be granted.

At the request of Southwestern Electric Power, Sargent & Lundy Engineers conducted an investigation to determine the air pollution status of Welsh Power Plant. The object of the investigation was an evaluation of sulfur dioxide, nitrogen oxides, and fly ash emission rates and ground-level concentrations in terms of the requirements of applicable regulations. The making of such an evaluation will enable determination of the air pollution status of Welsh Power Plant.

Calculations of emissions and ground-level concentrations are based on Wyoming contract coal, as further described later. The evaluation of the air pollution status of the station is based on the revised Texas regulations effective August 31, 1972, the federal emission standards for new coal-fired steam generators, and federal ambient air quality standards for oxides of nitrogen, particulate matter, and sulfur dioxide.

II PLANT DESCRIPTION

A. Site Description

The town of Cason, Texas is located in northeast Texas approximately 110 miles east of Dallas and 120 miles northwest of Shreveport, Louisiana. The town of Cason is located on an indefinite boundary between the Texas counties of Titus and Morris. Both of these counties are located in the Texas portion of the Shreveport, Texarkana, Tyler Interstate Air Quality Control Region. This air quality control region is classified priority II with respect to particulate matter and priority III with respect to sulfur dioxide and oxides of nitrogen as of the December, 1971 survey made by the Texas Air Control Board. Priority II classification for particulate matter indicates that the applicable national secondary ambient air quality standards are exceeded. Priority III classification for sulfur dioxide and oxides of nitrogen indicates that the applicable national secondary ambient air quality standards are not exceeded. The national secondary standards are discussed in Section IV B ("Ground-Level Concentrations").

Topographical maps for the vicinity of Cason have been examined. The maps show that the terrain in the vicinity of Cason is relatively flat. Hilly or mountainous terrain would have to be considered in calculation of ground-level concentrations.

Federal Aviation Administration aeronautical map CG-20, which provides information on aeronautical factors which might affect design stack heights for Welsh Power Plant, has been obtained. Examination of the map showed no apparent aeronautical restriction to stack heights of 241 feet.

Rule 3 of the revised Texas regulations allows the Texas Air Control Board to reduce the allowable emission from each source to less than the emission standard in an area where ambient air quality standards are exceeded. Data substantiating the compliance status of the Cason vicinity should be considered at a future date in conjunction with anticipated station operation.

B. Physical Description of Plant

Welsh Power Plant - Unit 1 is designed to include a 550,000 kW turbine-generator and a coal-fired boiler producing 3,793,000 lb/hr of steam. Unit 1 is scheduled for commercial operation in February of 1977. South-

western is committed to the purchase of a second identical 550,000 kW turbine-generator. The date for commercial operation of Unit 2 is presently not scheduled. Preliminary design studies will include consideration of a third 550,000 kW unit at the site.

Unit 1 flue gases will pass through an electrostatic precipitator for fly ash collection. The precipitator specification requires a fly ash collection efficiency of 99% under maximum continuous boiler full load when the coal analyzed in Exhibit 1 is fired. The precipitator specification requires that the precipitator function as two equal half-sized units, thus allowing for control of fly ash emissions from Unit 1 during the performance of maintenance operations on the precipitator.

After fly ash collection, flue gases will be vented to the atmosphere through a stack. The stack is located on the boiler structural steel and has an effective height of 241 feet. The stack will be designed with sampling stations and appurtenances as required by applicable emission monitoring regulations. Construction and operation of the stack and precipitator will be such as to achieve and maintain permissible levels of plume opacity.

Preliminary design plans for Unit 2 include installation of an electrostatic precipitator and construction of an individual stack. It is anticipated that design plans for Unit 3 would also include installation of an electrostatic precipitator and construction of an individual stack. Units 1, 2, and 3 are assumed to be identical for all calculations in this report.

The coal under contract for Unit 1 will be mined from the Roland and Smith seam in Campbell County, Wyoming. The analysis of this coal is given in Exhibit 1. The coal will be delivered to the station by unit train. Preliminary design plans include an on-site coal storage capacity for 634,000 tons. It appears that the capacity of the Roland and Smith seam is sufficient to provide for three 550,000 kW units over an assumed 40-year unit lifetime. Calculations of sulfur dioxide emissions from each unit are based on the coal analysis given in Exhibit 1.

III METHOD OF CALCULATION

Calculation of ground-level concentrations requires meteorological and plant design data. Although meteorological data for the Cason site itself would be most preferred, data for a meteorologically similar location can be substituted with minimal effect on accuracy. Dallas, Texas meteorological data can be

and are used for calculation of annual average ground-level concentrations at the Cason site because of the unavailability of meteorological data for the site itself. These data are given in Exhibit 2. Meteorological data required for additional ground-level concentration calculations are given in Exhibit 3. An explanation of these data is given in the Appendix.

Calculation of the ground-level concentrations was performed using WINBAG, a computer program developed by Sargent & Lundy and incorporating an atmospheric diffusion model constructed by Pasquill and modified by Gifford. The program incorporates the plume rise theory and the equations of Moses and Carson. Input data to the program include boiler and stack design and meteorological data. Required boiler data include a fuel analysis and design heat input. The nature and extent of required meteorological data varies with the time basis of the ground-level concentration to be calculated. For short-term cases, i.e., up to eight hours, required data consist of a wind speed value and a designation of atmospheric stability class. For long-term cases (e.g., annual averages), wind roses and stability class variations with wind direction are required. For intermediate-term cases (e.g., 24-hour averages), data for construction of a "poorest diffusion day" are required. The poorest diffusion day is a compilation of meteorological parameters which describe the poorest continuous 24-hour period for atmospheric dispersion. Data required for calculation of annual averages are obtained from the National Weather Service Records Center at Asheville, North Carolina. These data are given in Exhibit 2. Short-term and poorest diffusion day data are given in Exhibit 3.

Computer output of ground-level concentration values is represented by curves and isopleths, curves of equal concentration. For short-term cases, the meteorological conditions are assumed to remain constant and apply to any compass direction. A curve of concentration versus distance from stack represents variation of ground-level concentration for both short- and intermediate-term cases. For long-term cases, the variation of concentration with distance is computed for each of 16 wind directions. From the computer output a concentration isopleth is constructed.

Exhibit 4 indicates the design parameters and values which were assumed for calculation of the ground-level concentrations. The maximum Unit 1 heat input of 5156×10^6 Btu/hr was calculated from the Unit 1 heat balance and nominal unit generating capacity. The 80% fraction of total ash converted to fly ash is a standard design assumption for pulverized coal-fired boilers. A fly ash emission rate of 0.1 lb/10^6 Btu heat input is the maximum permissible emission rate for any coal-fired unit at the Welsh site under the federal regulations. A fly ash emission rate of 0.1 lb/10^6 Btu heat input would require an electrostatic pre-

cipitator collection efficiency of 97.9%. The Unit 1 electrostatic precipitator specification requires 99% collection efficiency as determined by the Federal EPA test method or 99.6% as determined by ASME test methods. Unit 1 will be designed to achieve the federal standard for nitrogen oxides emission rate. A nitrogen oxides (NO_x) emission rate of 0.7 lb/10^6 Btu heat input is the maximum permissible rate under the federal regulations. Boiler manufacturers guarantee 0.7 lb/10^6 Btu heat input NO_x emission rate.

IV REGULATIONS

The Texas Air Control Board has adopted revised regulations specifying maximum permissible emission rates and ground-level concentrations of sulfur dioxide, particulate matter, and oxides of nitrogen. These revised regulations are effective August 31, 1972.

A. Emission Rates

The revised Texas regulations state the intention of the Texas Air Control Board to enforce the federal new source performance standards. The federal standards specify maximum permissible emission rates of sulfur dioxide, particulate matter, and oxides of nitrogen from new coal-fired steam generators. Federal standards also specify maximum permissible plume opacity.

The revised Texas regulations include the Texas Air Control Board's own standards for maximum permissible emission rates of sulfur dioxide and particulate matter from coal-fired steam generators. The regulations also give the Board's own maximum permissible plume opacity. The Texas Air Control Board has not proposed an emission rate standard for nitrogen oxides from coal-fired steam generators. The federal standards for sulfur dioxide, fly ash, and plume opacity are more stringent than the Texas Air Control Board's own standards. The federal standards are given in Exhibit 5. These federal standards will apply to each coal-fired unit at the Cason site. Compliance of any unit with the federal standards must be achieved within six months after start-up of the unit. Compliance is achieved when the actual emission rate is less than or equal to the emission rate standard.

B. Ground-Level Concentrations

The revised Texas regulations apply the national primary and secondary ambient air quality standards statewide. The national ambient air quality standards include ambient air quality standards for sulfur dioxide, oxides of nitrogen, and particulate matter. National secondary standards for

sulfur dioxide, oxides of nitrogen, and particulate matter are given in Exhibit 5. The Texas Air Control Board has stated its intention to achieve the national secondary standards within "a reasonable time" after mid-1975. Ambient air quality standards establish maximum permissible ground-level concentrations. Compliance is achieved when the calculated ground-level concentration is less than or equal to the associated ambient air quality standard.

The revised Texas regulations include a short-term sulfur dioxide ground-level concentration standard. This standard is given in Exhibit 5 as 0.4 ppm SO_2 for a 30-minute average. This standard would apply at or beyond the property line of the station.

V DISCUSSION OF RESULTS

A. Emission Rates

A fly ash emission rate of 0.1 lb/10^6 Btu heat input is the maximum permissible rate for each unit at Welsh Power Plant under the federal regulations. A fly ash emission rate of 0.1 lb/10^6 Btu heat input would require an electrostatic precipitator collection efficiency of 97.9% for the Wyoming coal and design data given in Exhibits 1 and 4. The precipitator specification requires a fly ash collection efficiency of 99% for this fuel analysis and design data. It is anticipated that operation of an electrostatic precipitator with a 99% collection efficiency can bring the fly ash emission from any coal-fired unit at Welsh Power Plant into compliance with the federal regulation. Particulate matter ground-level concentrations are calculated on the basis of a fly ash emission rate of 0.1 lb/10^6 Btu heat input for each unit.

The emission rate of sulfur dioxide from each unit is calculated to be 0.85 lb/10^6 Btu heat input for the Wyoming coal analyzed in Exhibit 1. In the calculation, all volatilized sulfur is assumed to be emitted to the atmosphere as sulfur dioxide. The federal standard for sulfur dioxide emission rate is given in Exhibit 5 as 1.2 lb/10^6 Btu heat input. Comparison of the calculated sulfur dioxide emission rate with the federal standard shows that the emission rate of sulfur dioxide from Unit 1, 2, or 3 will be in compliance with the federal standard. The calculation indicates that compliance can be achieved without the use of flue gas desulfurization systems. A sulfur dioxide emission rate of 0.85 lb/10^6 Btu heat input for each unit is assumed for calculation of sulfur dioxide ground-level concentrations.

An oxides of nitrogen (NO_x) emission rate of 0.7 lb/10^6 Btu heat input as NO_2 is the maximum permissible rate for each coal-fired unit under the federal regulations. The factors influencing the formation of NO_x are not completely understood at present, although the formation of NO_x is known to be a function of the furnace flame temperature and oxygen concentration in the vicinity of the flame. Although NO_x control technology is relatively new, it has been shown that improved boiler designs can reduce NO_x emission significantly. Boiler manufacturers guarantee an NO_x emission rate of 0.7 lb/10^6 Btu heat input. An oxides of nitrogen emission rate of 0.7 lb/10^6 Btu heat input is assumed for calculation of ground-level concentrations.

B. Ground-Level Concentrations

Calculations of ground-level concentrations of sulfur dioxide, oxides of nitrogen, and particulate matter have been performed. Calculations have been performed for 30-minute, 3-hour, 24-hour, and annual average ground-level concentrations. Concentrations of sulfur dioxide, oxides of nitrogen, and particulate matter for 1, 2, and 3 units have been determined. Curves and isopleths for 1, 2, and 3 units represent concentrations to be expected at the various stages of site development. Calculations have been made to determine compliance with the ambient air quality standards given in Exhibit 5. Exhibits 6 through 18 present concentrations for 1, 2, and 3 units for the following cases:

Ground-level concentration of	Term
Sulfur Dioxide	30-minute
	3-hour
	24-hour
	Annual
Oxides of Nitrogen	Annual
Particulate Matter	24-hour
	Annual

The following sections discuss the results of these cases.

1. Sulfur Dioxide (SO_2)

Ground-level concentrations of sulfur dioxide are given in Exhibits 6 through 11. Exhibits 6 and 7 present curves of 30-minute and 3-hour SO_2 concentrations versus distance. Each of these curves has been

selected from a family of curves produced by parametrically varying the wind speed. Each of the curves in Exhibits 6 and 7 gives the maximum concentrations for the atmospheric stability class associated with the given curve. Maximum permissible SO_2 ground-level concentrations are given in Exhibit 5. The maximum calculated and maximum permissible SO_2 concentrations from the exhibits are summarized and given in the following table.

Maximum SO_2 Ground-Level Concentrations, ppm

Term	1 Unit	2 Units	3 Units	Permissible
30-minute	0.030	0.060	0.090	0.4
3-hour	0.0216	0.0418	0.0635	0.5
24-hour	0.00115	0.00230	0.00345	0.1
Annual	0.00192	0.00383	0.00575	0.02

The above table shows that a 1-, 2-, or 3-unit station would be in compliance with applicable SO_2 ambient air quality standards.

2. Oxides of Nitrogen (NO_x)

Annual average ground-level concentrations of oxides of nitrogen are given in Exhibits 12, 13, and 14. The maximum permissible NO_x ground-level concentration is given in Exhibit 5. The maximum calculated and maximum permissible NO_x concentrations from the exhibits are summarized and given in the following table.

Maximum NO_x Ground-Level Concentration, micrograms/meter^3

Term	1 Unit	2 Units	3 Units	Permissible
Annual	4.55	9.10	13.4	100

The above table shows that a 1-, 2-, or 3-unit station would be in compliance with applicable NO_x ambient air quality standards.

3. Particulate Matter

Ground-level concentrations of particulate matter are given in Exhibits 15, 16, 17, and 18. The maximum permissible particulate matter

ground-level concentrations are given in Exhibit 5. The maximum calculated and maximum permissible particulate matter concentrations from the exhibits are summarized and given in the following table.

Maximum Particulate Matter Ground-Level Concentration, micrograms/meter^3

Term	1 Unit	2 Units	3 Units	Permissible
24-hour	0.371	0.755	1.08	150
Annual	0.647	1.29	1.91	60

The above table shows that a 1-, 2-, or 3-unit station would be in compliance with applicable particulate matter ambient air quality standards. The calculated particulate matter ground-level concentrations given in the table are based on a precipitator of 97.9% efficiency. These concentrations would decrease slightly for a precipitator of 99% efficiency.

VI SUMMARY

The emission rates of sulfur dioxide, fly ash, and nitrogen oxides will be in compliance with the federal standards of 1.2 lb/10^6 Btu heat input, 0.1 lb/10^6 Btu heat input, and 0.7 lb/10^6 Btu heat input, respectively.

Sulfur dioxide, oxides of nitrogen, and particulate matter ground-level concentrations will easily be in compliance with ambient air quality standards.

It is concluded that each coal-fired unit at Welsh Power Plant will be in compliance with applicable emission standards. Ground-level concentrations at a 1-, 2-, or 3-unit station will be in compliance with applicable ambient air quality standards. Thus, an air pollution problem resulting from operation of a 1-, 2-, or 3-unit coal-fired power plant at Cason, Texas is not anticipated.

SARGENT & LUNDY

BY S.R. Miller
M Ravipudi

EXHIBITS

SARGENT & LUNDY
ENGINEERS
CHICAGO

EXHIBIT 1
SL-2858

REPRESENTATIVE COAL ANALYSIS

Roland and Smith Seams
Campbell County, Wyoming

Proximate Analysis

	As Rec'd, wt %	Dry, wt %
Moisture	30.00	
Volatile Matter	32.50	46.43
Fixed Carbon	32.50	46.43
Ash	5.00	7.14
	100.00	100.00
Sulfur	0.35	0.50
Gross Heating Value, Btu/lb	8,250	11,780

Ultimate Analysis

	Dry, wt %
Carbon	70.00
Hydrogen	4.86
Oxygen	16.61
Nitrogen	0.86
Sulfur	0.50
Ash	7.14
Chlorine	0.03
	100.00

Ash Analysis, wt %

SiO_2	34.0
Al_2O_3	13.0
TiO_2	1.0
Fe_2O_3	6.0
CaO	20.0
MgO	6.0
Na_2O	2.8
K_2O	0.8
SO_3	13.7
Undetermined	2.7
	100.0

Ash Fusibility, °F

	Initial Deformation	Softening (h = w)	Fluid
Reducing	2060	2120	2180
Oxidizing	2070	2160	2220

Grindability

Hardgrove No. = 55

SWEPCO 01782

**** ANNUAL AVERAGE ** * 5 YR DATA * DALLAS/LOVE FIELD 0 1/60 - 12/64 08/24/71 NWRC

**TOTAL NO OF OBS= 43821 **

GROSS WIND ROSE (IN PERCENT OF TOTAL OBS)

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
6.43	4.94	3.48	4.06	3.90	5.55	9.11	14.70	19.30	8.24	4.50	2.36	1.69	2.15	3.42	5.15	1.03

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
6.51	4.98	3.55	4.11	3.94	5.59	9.20	14.77	19.41	8.28	4.57	2.42	1.75	2.20	3.49	5.23

STABILITY INDEX DISTRIBUTION FOR EACH WIND DIRECTION (IN PERCENT OF DIRECTION TOTAL)

INDEX	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
1	0.19	0.25	0.85	0.31	0.83	0.59	0.25	0.24	0.23	0.46	0.55	1.77	1.16	1.26	0.51	0.29
2	2.87	1.95	3.78	4.62	4.80	5.36	3.31	2.28	2.58	3.92	9.38	12.58	19.19	9.06	4.84	3.09
3	6.36	5.98	9.50	9.26	11.68	9.12	8.29	7.56	9.11	15.88	22.21	26.89	22.73	15.15	10.79	9.33
4(D)	30.72	28.33	22.99	22.81	20.68	20.22	19.95	23.68	27.97	42.86	33.98	22.84	18.82	27.72	27.46	32.68
4(N)	33.96	40.69	28.83	28.09	32.06	32.46	30.23	41.21	39.45	22.15	10.96	9.51	8.92	17.51	25.40	28.63
5	12.73	12.23	14.41	18.62	17.71	20.21	22.90	17.24	15.07	9.18	9.53	6.70	7.96	10.48	11.30	8.59
6	9.56	7.78	14.50	13.65	9.72	10.73	12.87	6.67	4.15	4.32	9.33	12.58	12.27	12.28	13.67	12.97
7	3.19	2.15	3.13	2.65	2.51	1.31	2.19	1.12	1.43	1.23	4.05	7.13	8.95	6.54	6.04	4.21

STABILITY INDEX DISTRIBUTION IN PERCENT OF TOTAL OBS

INDEX	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
1	0.01	0.01	0.03	0.01	0.03	0.03	0.02	0.04	0.05	0.04	0.03	0.04	0.02	0.03	0.02	0.02
2	0.19	0.10	0.13	0.19	0.19	0.30	0.30	0.34	0.50	0.32	0.43	0.30	0.34	0.20	0.17	0.16
3	0.41	0.30	0.34	0.38	0.46	0.51	0.76	1.12	1.77	1.31	1.02	0.65	0.40	0.33	0.28	0.49
4(D)	2.00	1.44	0.82	0.94	0.82	1.13	1.84	3.50	5.43	3.55	1.55	0.55	0.33	0.61	0.56	1.71
4(N)	2.21	2.03	1.02	1.15	1.26	1.81	2.78	6.09	7.66	1.83	0.50	0.23	0.16	0.39	0.89	1.51
5	0.83	0.61	0.51	0.76	0.70	1.13	2.11	2.55	2.93	0.76	0.44	0.16	0.14	0.23	0.39	0.45
6	0.65	0.39	0.51	0.56	0.38	0.60	1.18	0.99	0.81	0.36	0.43	0.30	0.21	0.27	0.48	0.68
7	0.21	0.11	0.18	0.11	0.10	0.07	0.20	0.17	0.28	0.10	0.19	0.17	0.16	0.14	0.21	0.22

AVERAGE WIND SPEED FOR EACH STABILITY INDEX AND DIRECTION (IN MPS)

INDEX	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
1	1.86	1.95	1.86	1.95	2.07	2.15	2.12	2.16	2.01	2.20	2.09	1.97	1.92	2.11	2.13	2.02
2	2.81	2.81	2.96	2.93	2.97	3.18	3.03	3.18	3.06	3.20	3.04	3.12	2.69	2.60	2.66	2.71
3	4.81	4.42	3.69	4.19	4.16	4.39	4.42	4.81	5.25	5.36	4.69	4.28	3.69	3.69	3.78	4.51
4(D)	7.11	6.85	5.29	5.26	5.31	5.73	5.86	6.75	7.03	7.32	6.50	5.60	5.83	6.86	7.02	7.34
4(N)	6.75	6.11	4.92	4.90	4.94	5.37	5.65	6.49	6.72	6.46	5.01	4.62	5.30	6.06	6.66	6.90
5	4.05	3.99	3.45	3.71	3.83	3.97	4.07	4.28	4.35	4.16	3.74	3.27	3.42	3.51	3.79	3.92
6	2.51	2.48	2.52	2.56	2.55	2.65	2.62	2.50	2.61	2.64	2.48	2.41	2.26	2.35	2.37	2.48
7	1.01	0.99	0.99	1.04	1.02	1.02	1.02	1.02	1.02	0.99	0.98	1.02	1.00	1.00	1.01	1.02

SARGENT & LUNDY
ENGINEERS
CHICAGO

EXHIBIT 2
SL-2858

DALLAS, TEXAS METEOROLOGICAL DATA

SWEPCO 01783

Attachment B

AEP

Welsh - TACB permits

May 21, 1976

Texas Air Control Board
Permits Section
8520 Shoal Creek Boulevard
Austin, Texas 78758

Gentlemen:

Please find enclosed herewith two copies of the following applications:

Welsh Power Plant - Unit #2 Boiler
Welsh Power Plant - Unit #2 Coal Handling Facilities
Welsh Power Plant - Unit #3 Boiler
Welsh Power Plant - Unit #3 Coal Handling Facilities

It is planned that the generating units to which these applications apply will be substantially duplicate to the Welsh Power Plant - Unit #1 generating unit. In many cases the applications refer to information previously supplied to the Board.

If you need further information with regards to these applications, we will be pleased to supply it.

Very truly yours,

R. A. Neal

Enclosures a/s

cc: Richard Leard w/enclosures

Attachment B

TEXAS AIR CONTROL BOARD
FORM PI-1 GENERAL APPLICATION
(Read Instructions Before Completing.)

I. PERMIT TO BE ISSUED TO: Southwestern Electric Power Company
(Corporation, Company, Government Agency, Firm, etc.)

Mailing address: P. O. Box 1106, Shreveport, Louisiana 71156

Individual authorized to act for applicant: Name: Jay A. Pruett Title: Environmental Coordinator

Address: P. O. Box 1106, Shreveport, LA 71156 Telephone: 318/221-2605

II. LOCATION OF PERMIT UNITS (Latitude and Longitude must be to nearest second):

Name of plant or site: Welsh Street address (if available): None

Nearest city: Mount Pleasant County: Titus Latitude: 33° 03' 30" N (mark) Longitude: 94° 50' 45" W

III. TYPE OF OPERATION OR PROCESS OF PERMIT UNIT:

A. Name of operation or process of permit unit: Electric Generating Plant - Boiler Unit #2 - Boiler #2

B. Permit unit identification number:

C. Type (check one): X Permanent ☐ Portable

D. Operating schedule: Hours/day 24 Days/week 7 Weeks/year 49

IV. PERMIT UNIT CLASSIFICATION (Check applicable blocks):

A. [X] New Permit Unit Proposed start of construction Sept. 1, 1976 (Date) Start of operation March 1, 1980 (Date)

B. [ ] Modification of Permit Unit

C. [ ] Change in Location

D. [ ] Change in Ownership

E. [ ] Permit Unit Now Operating Under Permit Number R

V. If items IV A, B, or C were checked, submit the following information under either A or B:

A. Data requested in B1, B2 and B3 has been previously submitted under Permit No. C-1166

B. 1. Submit three copies of an area map to approximate scale showing the location of the property, the land use designations for adjacent and nearby lands which may be affected by the emission, geographical features such as highways, roads, streams and significant landmarks, distance to the center of nearest city or town if located outside an incorporated municipality. If the property is located within a town or city, a city map may be used to present this information, and if outside a town or city, a county highway map may be used. County highway maps may be ordered either through the Texas Highway Department, Austin, Texas or through the State District Highway Engineer for the county.

B. 2. Give a legal description of the tract of land upon which the plant or facility is located. The term "legal description" means either a metes and bounds description, or the block and lot number of a platted subdivision which would be suitable to effectuate the transfer of title to real property.

B. 3. Submit a plot plan of the property, to scale, showing the boundaries, plant bench mark (latitude-longitude), the location of all emission points of any air contaminants on the property, the distance from each emission point to the nearest boundary line, prevailing wind direction, true north direction, a scale and any other information deemed relevant by the applicant. Identify the emission points by numbers, use the same numbers for those emission points in this permit that will be assigned in the flow diagram and which will be used in present or future emissions inventory questionnaires.

VI. If Item IV.E is not checked, submit the following information: See addendum attached

A. Process Flow Diagram. Prepare and attach a flow diagram identifying significant individual processes and/or operations. Identify (by number) points where raw materials, chemicals, and fuels are introduced, where gaseous emissions and/or airborne particulates may be discharged including intermediate releases where finished products are obtained, and location of pollution control devices.

B. Description of Process. Prepare and attach a written description of each process and of the function of the equipment in the process. (Identify items of equipment by numbers corresponding to flow diagram numbers.) The description must be in sufficient detail to determine the general operation of the process. Particular attention must be given to explaining all stages in the process where there is or may be a discharge of any solid, liquid, or gaseous material(s) into the atmosphere. Estimate number and type of air pollution abatement devices to be used such as electrostatic precipitator, 2 cyclones, 1 incinerator, 2 baghouses, etc.

VII. A copy of the application is being sent to the Regional office of TACB? ☒ Yes ☐ No

A copy of the application is being sent to local city or county Air Pollution Control Program? ☐ Yes ☒ No

VIII. I, John W. Turk, Jr. (Name) Vice President (Title)

state that I have knowledge of the facts herein set forth and that the same are true and correct to the best of my knowledge and belief. I further state that to the best of my knowledge and belief, the project for which application is made will not in any way violate any provision of the Texas Clean Air Act, Article 4477-5, Vernon's Texas Civil Statutes, as amended, or any of the rules and regulations of the Texas Air Control Board or any local governmental ordinance or resolution enacted pursuant to the Texas Clean Air Act.

DATE May 19, 1976 SIGNATURE John W. Turk

SWEPCO 01818

ADDENDUM TO FORM PI-1

Item VI - This required information is identical to that accompanying the application for Welsh Unit #1 (Permit No. C-1166) which was submitted to the Texas Air Control Board on June 25, 1973, with supplemental information submitted on July 26, 1973, and as revised in letter dated May 7, 1976.

SWEPCO 01820

TABLE 1
EMISSION SOURCES

List all sources, including this application, of air contaminants on applicant's property. If applicant has submitted this information in an earlier emission inventory, it will not be necessary to duplicate the requested information. Instead, indicate that this page has been submitted and list only changes from the emission inventory and list new source data.

ALL SOURCES				STACKS ONLY					
EMISSION POINT NUMBER from plot plan	LIST POLLUTANT EMISSIONS (CHEMICAL COMPOSITION) & WT. OF EACH	FLOW RATE OF EACH LISTED EMISSION		EMISSION POINT NUMBER from plot plan	STACK HEIGHT ABOVE GROUND (ft.)	STACK INTERNAL DIAMETER AT EXIT (ft.)	TEMP. DEG. (F)	VELOCITY (FT/SEC)	MOIS. %
		GASEOUS	PARTICULATE						
	Information identical to that accompanying application for Welsh Unit #1								
	(Permit No. C-1166) which was submitted to the Texas Air Control Board on								
	June 25, 1973, with supplemental information submitted on July 26, 1973,								
	and letter dated May 7, 1976.								

ENCLOSE THE FOLLOWING INFORMATION:

1. EMISSIONS OTHER THAN THROUGH STACKS (HORIZONTAL VENTS, ETC.)
2. STACK'S HEIGHT ABOVE SUPPORTING OR ADJACENT STRUCTURES.
3. DIMENSIONS OF NON-CIRCULAR STACKS.
4. RESULTS OF TESTS INDICATING AVERAGE PARTICLE SIZE, DENSITY, ETC.

Particle size: During normal operation, the outlet particle size distribution from Welsh Unit #2 precipitator installation is expected to be as follows:

100% less than 10 microns 99.7% less than 2.5 microns
100% less than 5 microns 80% less than 1 micron

TABLE 6

BOILERS AND HEATERS

Type of Device: Boiler

Manufacturer: Babcock and Wilcox

Number from flow diagram:

Model Number:

CHARACTERISTICS OF INPUT

Type Fuel	Chemical Composition (% by Weight)	Inlet Air Temp °F (after preheat)	Fuel Flow Rate (scfm* or lb/hr)	
Coal	Ultimate Analysis Carbon 70.00% Hydrogen 4.86 Oxygen 16.61 Nitrogen .86 Sulfur .50 Ash 7.14 Chlorine .03 100.00%	Avg. 575°F Max. 635°F	Average 261,100 lb/hr	Design Maximum 437,500 lb/hr (dry)
see attachment "C" of Unit #1 application		Gross Heating Value of Fuel (dry) (specify units) 11,780 BTU/lb	Total Air Supplied and Excess Air Average 770,000 scfm* see addendum % excess (vol)	Design Maximum 1,000,265 scfm* 17 % excess (vol)

HEAT TRANSFER MEDIUM

Type Transfer Medium (Water, oil, etc.)	Temperature °F Input	Temperature °F Output	Pressure (psia) Input	Pressure (psia) Output	Flow Rate (specify units) Average	Flow Rate (specify units) Design Maximum
Water	(max) (water) 488°F	(max) (SH steam) 1005°F	2820 psia	2635 psia	60% 2,100,000 lb/hr	3,793,000 lb/hr

OPERATING CHARACTERISTICS

Ave. Fire Box Temp. at max. firing rate	Fire Box Volume (ft.^{3}), (from drawing)	Gas Velocity in Fire Box (ft/sec) at max firing rate	Residence Time in Fire Box at max firing rate (sec)
Approx. 2500°F	434,000 ft^3	51 ft/sec	Approx 2 sec

STACK PARAMETERS

Stack Diameters	Stack Height	Stack Gas Velocity (ft/sec) (@Ave.Fuel Flow Rate)	Stack Gas Velocity (ft/sec) (@Max.Fuel Flow Rate)	Stack Gas Temp °F	Exhaust scfm
rectangular 12 ft. x 18 ft.	300 feet (above ground elev. 240 MSL)	87 ft/sec	Design - 135 ft/sec	275°F	1,255,978

CHARACTERISTICS OF OUTPUT

Material	Chemical Composition of Exit Gas Released (% by Volume)
CO_2	12.4
H_2O	10.3
O_2	3.3
N_2	74.0
NO_x and SO_2	See attachment "C" (revised as of Nov. 18, 1975) of Unit #1 application

Attach an explanation on how temperature, air flow rate, excess air or other operating variables are controlled.

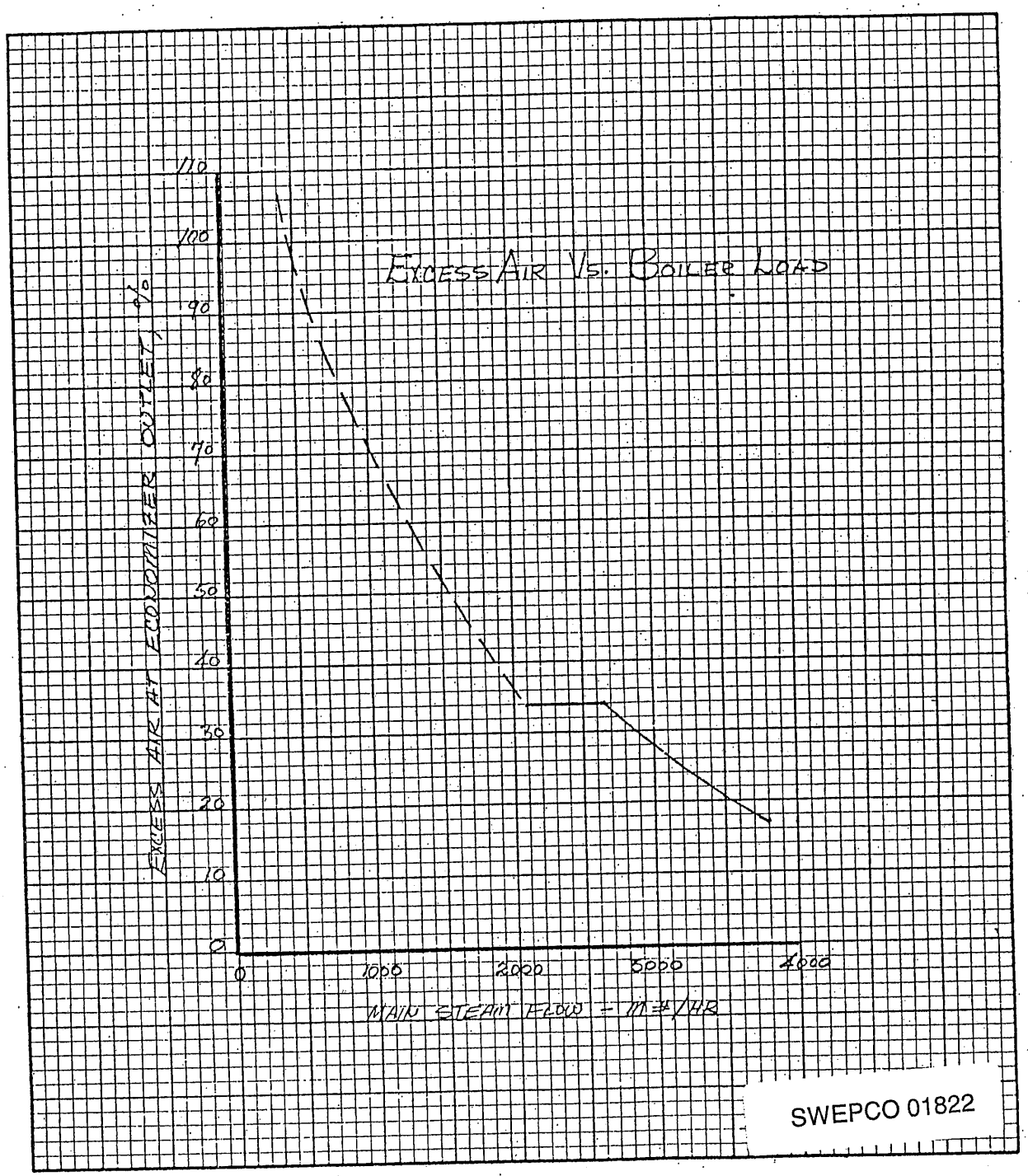
Also supply an assembly drawing, dimensioned and to scale, in plan, elevation, and as many sections as are needed to show clearly the operation of the combustion unit. Show interior dimensions and features of the equipment necessary to calculate in performance. See Attachment "F" of Unit #1 application

* Standard Conditions: 70°F, 14.7 psia

BDS 2159-2

Addendum to Table 6

THE BABCOCK & WILCOX COMPANY
POWER GENERATION DIVISION



SWEPCO 01822

These curves are submitted for the Purchaser's convenience and the performance indicated thereon shall not be offered by the Company nor construed by the Purchaser as a proposal or contract obligation.

DRAWN	DATE	APP'D	THIS DRAWING IS THE PROPERTY OF THE BABCOCK & WILCOX COMPANY AND IS LOANED UPON CONDITION THAT IT IS NOT TO BE REPRODUCED OR COPIED, IN WHOLE OR IN PART, OR USED FOR FURNISHING INFORMATION TO OTHERS, OR FOR ANY OTHER PURPOSE DETRIMENTAL TO THE INTERESTS OF THE BABCOCK & WILCOX COMPANY AND IS TO BE RETURNED UPON REQUEST.	P1-5565-2781
RAC				

TABLE 12

ELECTROSTATIC PRECIPITATORS

Point Number (from Flow Diagram)	Manufacturer & Model No. (if available): Research-Cottrell
Name of Abatement Device: Electrostatic Precipitator	Type of Particulate Controlled: Fly Ash

GAS STREAM CHARACTERISTICS

Flow Rate (acfm)		Gas Stream Temperature (°F)	Particulate Grain Loading (grain/scf)	
Design Maximum	Average Expected		Inlet	Outlet
3,025,000	2,281,000	750°F	Design 2* 5.0 (Preliminary)	.02

Pressure Drop (in. H_2O)	Water Vapor Content of Effluent Stream (lb water/lb dry gas)	I.D. Fan Requirements (hp)	(ft³/min)
.33	.086	5.250 hp	(275°F) (-24.66 in. water) .097542 ft3/min

PARTICULATE DISTRIBUTION (By Weight)

Micron Range	Inlet	Outlet
0.0-0.5	3 %	80 %
0.5-1.0	3 %	%
1.0-5.0	25 %	20 %
5-10	12 %	0 %
10-20	19 %	0 %
over 20	38 %	0 %

PRECIPITATOR CHARACTERISTICS

Number of Stages	Number of Plates	Plate Spacing	Number of Discharge Electrodes	Spacing Between Electrodes and Plates
4 mechanical 8 electrical	1728	9"	20,352	4.5"

Length of Plates (ft)	Width of Plates	Potential Applied (KV/in)	Cross-sectional Area of Precipitator (ft^2)	Cross-sectional of Inlet Duct (ft^2)
30'	9'	10 kV/in. (rms)	9540 ft²	1050 ft²

Precipitator Volume (ft^3)	Residence Time in Precipitator (sec)	Type of Collecting Electrode: Tubular / Plate
343,440 ft³	6.82	9' x 30' x .0359"

Method of Frequency of dust removal from collection hopper:	Vacuum emptied into silo. Frequency as required up to 16 hr. interval
Describe frequency and type of rapping employed. (see Attachment "G" of Unit #1 application)	collector: gravity impact. freq. & intensity adjustable. discharge: freq. and intensity adjustable

ADDITIONAL INFORMATION

SWEPCO 01823

On separate sheets attach the following:

A. Details regarding principle of operation

B. An assembly drawing (Front and Top View) of the abatement device dimensioned and to scale clearly showing the design size and shape. See Attachment "H" of Unit #1 application

If the device has bypasses, safety valves, etc., include in drawing and specify when such bypasses are to be used and under what conditions. No bypasses or safety valves

TEXAS AIR CONTROL BOARD
FORM PI-1 GENERAL APPLICATION
(Read Instructions Before Completing.)

I. PERMIT TO BE ISSUED TO: Southwestern Electric Power Company
(Corporation, Company, Government Agency, Firm, etc.)

Mailing address: P. O. Box 1106, Shreveport, Louisiana 71156

Individual authorized to act for applicant: Name: Jay A. Pruett Title: Environmental Coordinator

Address: P. O. Box 1106, Shreveport, LA 71156 Telephone: 318/221-2605

II. LOCATION OF PERMIT UNITS (Latitude and Longitude must be to nearest second):

Name of plant or site: Welsh Street address (if available): None

Nearest city: Mount Pleasant County: Titus Latitude: 33° 03' 30"N (Coal bench mark) Longitude: 94° 50' 45"W

III. TYPE OF OPERATION OR PROCESS OF PERMIT UNIT:

A. Name of operation or process of permit unit: Electric Generating Plant - Coal Handling Facilities

B. Permit unit identification number: Unit #2 - Coal Handling Facilities

C. Type (check one): X Permanent ☐ Portable

D. Operating schedule: Hours/day 24 Days/week 7 Weeks/year 49

IV. PERMIT UNIT CLASSIFICATION (Check applicable blocks):

A. [X] New Permit Unit: Proposed start of construction Sept. 1, 1976 (Date) Start of operation March 1, 1980 (Date)

B. [ ] Modification of Permit Unit

C. [ ] Change in Location

D. [ ] Change in Ownership

E. [ ] Permit Unit Now Operating Under Permit Number R-

V. If Items IV.A, B, or C were checked, submit the following information under either A or B:

A. Data requested in B1, B2 and B3 has been previously submitted under Permit No. C-1576

B.1. Submit three copies of an area map to approximate scale showing the location of the property, the land use designations for adjacent and nearby lands which may be affected by the emission, geographical features such as highways, roads, streams and significant landmarks, distance to the center of nearest city or town if located outside an incorporated municipality. If the property is located within a town or city, a city map may be used to present this information, and if outside a town or city, a county highway map may be used. County highway maps may be ordered either through the Texas Highway Department, Austin, Texas or through the State District Highway Engineer for the county.

B.2. Give a legal description of the tract of land upon which the plant or facility is located. The term "legal description" means either a metes and bounds description, or the block and lot number of a platted subdivision which would be suitable to effectuate the transfer of title to real property.

B.3. Submit a plot plan of the property, to scale, showing the boundaries, plant bench mark (latitude-longitude), the location of all emission points of any air contaminants on the property, the distance from each emission point to the nearest boundary line, prevailing wind direction, true north direction, a scale and any other information deemed relevant by the applicant. Identify the emission points by numbers, use the same numbers for those emission points in this permit that will be assigned in the flow diagram and which will be used in present or future emissions inventory questionnaires.

VI. If Item IV.E is not checked, submit the following information: See Addendum attached

A. Process Flow Diagram. Prepare and attach a flow diagram identifying significant individual processes and/or operations. Identify (by number) points where raw materials, chemicals, and fuels are introduced, where gaseous emissions and/or airborne particulates may be discharged including intermediate releases where finished products are obtained, and location of pollution control devices.

B. Description of Process. Prepare and attach a written description of each process and of the function of the equipment in the process. (Identify items of equipment by numbers corresponding to flow diagram numbers.) The description must be in sufficient detail to determine the general operation of the process. Particular attention must be given to explaining all stages in the process where there is or may be a discharge of any solid, liquid, or gaseous material(s) into the atmosphere. Estimate number and type of air pollution abatement devices to be used such as 1 electrostatic precipitator, 2 cyclones, 1 incinerator, 2 baghouses, etc.

VII. A copy of the application is being sent to the Regional office of TACB? ☒ Yes ☐ No

A copy of the application is being sent to local city or county Air Pollution Control Program? ☐ Yes ☒ No

VIII. I, John W. Turk, Jr. (Name) Vice President (Title)

state that I have knowledge of the facts herein set forth and that the same are true and correct to the best of my knowledge and belief. I further state that to the best of my knowledge and belief, the project for which application is made will not in any way violate any provision of the Texas Clean Air Act, Article 4477-5, Vernon's Texas Civil Statutes, as amended, or any of the rules and regulations of the Texas Air Control Board or any local governmental ordinance or resolution enacted pursuant to the Texas Clean Air Act.

DATE May 19, 1976 SIGNATURE John W. Turk Jr.

SWEPCO 01824

ADDENDUM TO FORM PI-1

The coal handling facilities for Welsh Power Plant - Unit #1 (Permit C-1576) will be used to supply coal to Unit #2. The conveyors in the tripper room of Unit #1 will be extended to a tripper room over the bunkers of Unit #2. The dust suppression system for the bunkers will be of the same general design as the information submitted with our letter dated May 7, 1976 with regard to Permit C-1576, and related Permit C-1166.

Attachment C

Central and South West Services, Inc.

1616 Woodall Rodgers Freeway
P.O. Box 650164 • Dallas, Texas 75266-0164
(214) 777-1000

February 27, 1997

Mr. James Crocker
Texas Natural Resource Conservation Commission
Office of Air Quality
New Source Review Division (MC-162)
12124 Park 35 Circle
Austin, Texas 78753

RE: Renewal, TNRCC Air Permit No.4379
Welsh Power Station, Unit 2 Boiler
TNRCC Account No. TF-0012-D

Dear Mr. Crocker,

Central and South West Services, Inc. (CSWS) respectfully submits the above referenced permit renewal application on behalf of Southwestern Electric Power Company Inc., a subsidiary of Central and South Corporation.

Should you have any questions regarding this submittal, please contact me at (214)777-1383.

Sincerely,

Patrick Blanchard
Project Administrator
CSWS Environmental Permitting & Remediation

Attachments

xc: Russ Draves, CSWS, Environmental Permitting & Remediation (w/attachments)
Brian Bond, CSWS, Environmental Services, Shreveport (w/attachments)
Jim Trimble, SWEPCO, Welsh Power Station (w/attachments)
Mike Clifton, SWEPCO, Welsh Power Station (w/attachments))
File WSH 10.90.50 (w/attachments)
Charles Murray, TNRCC Region 5 Air Program, Tyler

STATE OF TEXAS §
COUNTY OF TRAVIS §
APR 17 2006
I hereby certify that this is a true and correct copy of a Texas Commission on Environmental Quality document, which is filed in the Records of the Commission. Given under my hand and the seal of office.
Robert D. Cadenhead, Custodian of Records
Texas Commission on Environmental Quality

Attachment C

Central and South West Services, Inc.

Application for Renewal
Permit No. 4379
Welsh Power Station, Unit Two
Titus County, Texas
Account ID No. TF-0012-D

Submitted to:
Texas Natural Resource Conservation Commission
12124 Park 35 Circle
Austin, Texas 78767

Prepared for:
Southwestern Electric Power Company
P.O. Box 21106
Shreveport, Louisiana 71156

Prepared by:
Central And South West Services, Inc.
P.O. Box 660164
Dallas, Texas 75266-0164

February, 1997

Process Description and Air Pollution Abatement Equipment

The Welsh Power Plant is located in Titus County, approximately two miles northwest of Cason, Texas. The facility is comprised of three coal fired units, each with a nameplate capacity of 558 MW.

Unit #2 is a Babcock & Wilcox Company, drum type, pulverized coal-fired boiler, with a continuous capacity of 3,793,000 lb./hr of steam. Fuel for the boiler is sub-bituminous coal, transported to the plant site by railcar. The boiler is designed to accommodate an input of 5,156 mmBtu/hr or, 319 tons/hr of coal, based on a typical coal heat content of 8,250 Btu/lb. Boiler ignition is accomplished through the use of No. 2 fuel oil, supplied from a single 22,000 bbl. storage tank.

Coal is supplied to the six Unit 2 coal bunkers via the coal handling facilities authorized under TNRCC Permit Nos. 1576 and 4380. From these bunkers, coal is fed gravametricly to six feeders, which each in turn supplies an individual pulverizer. At the pulverizer, primary air is introduced and the fuel is pulverized. The pulverized coal is then transported by the primary air to the burners through a system of coal-air piping.

The boiler has a dry bottom from which ash falls to a water-filled ash hopper. Approximately 90% of this ash is hydraulically sluiced to an off site vendor for use as raw material. The remaining ash is hydraulically sluiced through discharge piping to a primary ash settling basin, where the majority of the insoluble suspended solids settle. Partially clarified effluent overflows to a secondary settling basin for additional clarification, and from which, effluent is discharged to the cooling lake.

Suspended fly ash in the combustion gases is controlled by an electrostatic precipitator that controls particulate emissions through electrostatic collection of charged particles. The precipitator consists of four energized fields, which maintain a collection efficiency of 99.6%. Combustion gasses, after passing through the precipitator are emitted to the atmosphere through a 360 foot rectangular stack.

Unit Two Emissions Calculations

Maximum Emissions Estimates							
Pollutant		*Boiler Requirement*		*Emission Factor*		*Emissions*	
						lb/hr	*Ton/yr.*
NO_x	(Oxides of Nitrogen)	5156	MMBtu/Hr[1]	0.7	lb/MMBtu[3]	3,609.2	15,808.3
CO	(Carbon Monoxide)	312.5	Tons coal/Hr[2]	0.5	Lb/Ton[4]	156.3	684.4
VOC	(Volatile Organic Compounds)	312.5	Tons coal/Hr[2]	0.06	lb/Ton[4]	18.8	82
SO_2	(Sulfur Dioxide)	5156	MMBtu/Hr[1]	1.2	lb/MMBtu[5]	6,187.2	27,099.9
PM	(Particulate Matter)	5156	MMBtu/Hr[1]	0.1	lb/MMBtu[6]	515.6	2,258.3

Notes

[1]Boiler design specification of 625,000 lb/hr coal feed rate, and with a typical fuel heat content of 8,250 Btu/lb = 5156 MMBtu/hr

[2]625,000lbs/hr coal / 2,000lbs/ton

[3]NSPS Subpart D 40 CFR 60.44(a)(3)

[4]AP-42 Table 1.1-11

[5]NSPS Subpart D 40CFR60.43(a)(2)

[6]NSPS Subpart D 40CFR60.42(a)(1)

FORM PI-2(74-7)

TABLE 6

BOILERS AND HEATERS

Type of Device: Utility Boiler — Manufacturer: Babcock & Wilcox Company

Number from flow diagram: EPN 2 — Model Number: RB 514

CHARACTERISTICS OF INPUT

Type Fuel	Chemical Composition (% by Weight)	Inlet Air Temp F (after preheat)	Fuel Flow Rate (scfm* or lb/hr)	
Pulverized Coal	Typical Ultimate Analysis Carbon 70.00% Hydrogen 4.86% Oxygen 16.61% Ash 7.14% Sulfur 0.50 % Nitrogen 0.86% Chlorine 0.03%	635	Average 625,000 lb/hr	Design Maximum 625,000 lb/hr
		Gross Heating Value of Fuel	Total Air Supplied and Excess Air	
		(specify units) Typical Value 8,250 Btu/lb	Average ____ scfm* ____ % excess (vol)	Design Maximum 1,000,265 scfm * 17 % excess (vol)

HEAT TRANSFER MEDIUM

Type Transfer Medium (Water, oil, etc.)	Temperature F		Pressure (psia)		Flow Rate (specify units)	
	Input	Output	Input	Output	Average	Design Maximum
Water	488	1005	2820	2635	3,793,000 lb/hr	Same

OPERATING CHARACTERISTICS

Ave. Fire Box Temp. at max. firing rate	Fire Box Volume(ft.^{3}), (from drawing)	Gas Velocity in Fire Box (ft/sec) at max firing rate	Residence Time in Fire Box at max firing rate (sec)
~2,500	434,000	51	~2

STACK PARAMETERS

Stack Diameter	Stack Height	Stack Gas Velocity (ft/sec)		Stack Gas	Exhaust
		(@Ave. Fuel Flow Rate)	(@Max. Fuel Flow Rate)	Temp F	scfm
18' x 12'	360'	170	170	370	1,200,000

CHARACTERISTICS OF OUTPUT

Material	Chemical Composition of Exit Gas Released (% by Volume)
CO_2 H_2O O_2 N_2	12.4% 10.3% 3.3% 74.0% NOx, SO2, CO, and VOC <0.1%, See included Table 1(a)

Attach an explanation on how temperature, air flow rate, excess air or other operating variables are controlled.

Also supply an assembly drawing, dimensioned and to scale, in plan, elevation, and as many sections as are needed to show clearly the operation of the combustion unit. Show interior dimensions and features of the equipment necessary to calculate in performance.

*Standard Conditions: 70 F, 14.7 psia

Attachment D

Central and South West Services, Inc.
1616 Woodall Rodgers Freeway
Dallas, Texas 75202
P.O. Box 660164 · Dallas, Texas 75266-0164
214-777-1000

November 19, 1997

Texas Natural Resource Conservation Commission
Financial Division (MC-162)
P.O. Box 13088
Austin, Texas 78711-3088

RE: Renewal Fee ($10,000)
Renewal, TNRCC Air Permit No.4381
Welsh Power Station, Unit 3 Boiler
TNRCC Account No. TE-0012-D

Central and South West Services, Inc. (CSWS) submits the above referenced permit renewal fee on behalf of West Texas Utilities Company Inc., a subsidiary of Central and South Corporation.

Should you have any questions regarding this submittal, please contact me at (214)777-1383.

Sincerely,

Patrick Blanchard
Project Administrator
CSWS Environmental Permitting & Remediation

Attachments

xc: Russ Draves, CSWS, Environmental Permitting & Remediation (w/attachments)
Jim Trimble, SWEPCO, Welsh Power Station (w/attachments)
Mike Clifton, SWEPCO, Welsh Power Station (w/attachments)
File WSH.10.90.50 (w/attachments)
Charles Murray, TNRCC Region 5 Air Program, Tyler (w/attachments)

STATE OF TEXAS § APR 17 2006
COUNTY OF TRAVIS §
I hereby certify that this is a true and correct copy of a Texas Commission on Environmental Quality document which is filed in the Records of the Commission.
Given under my hand and the seal of office.
Robert D. Cadenhead, Custodian of Records
Texas Commission on Environmental Quality

Attachment D

TNRCC Equipment Tables

FORM PI-2(74-7)

TABLE 6

BOILERS AND HEATERS

Type of Device: Utility Boiler	Manufacturer: Babcock & Wilcox Company
Number from flow diagram: EPN 3	Model Number: RB 514

CHARACTERISTICS OF INPUT

Type Fuel	Chemical Composition (% by Weight)	Inlet Air Temp F (after preheat)	Fuel Flow Rate (scfm* or lb/hr)	
Pulverized Coal	Typical Ultimate Analysis Carbon 70.00% Hydrogen 4.86% Oxygen 16.61% Ash 7.14% Sulfur 0.50 % Nitrogen 0.86% Chlorine 0.03%	635	Average 625,000 lb/hr	Design Maximum 625,000 lb/hr
		Gross Heating Value of Fuel	Total Air Supplied and Excess Air	
		(specify units) Typical Value 8,250 Btu/lb	Average _____ scfm* ____% excess (vol)	Design Maximum 1,000,265 scfm* 17 % excess (vol)

HEAT TRANSFER MEDIUM

Type Transfer Medium	Temperature F		Pressure (psia)		Flow Rate (specify units)	
(Water, oil, etc.)	Input	Output	Input	Output	Average	Design Maximum
Water	488	1005	2820	2635	3,793,000 lb/hr	Same

OPERATING CHARACTERISTICS

Ave. Fire Box Temp.* at max. firing rate	Fire Box Volume(ft.^{3}), (from drawing)	Gas Velocity in Fire Box (ft/sec) at max firing rate	Residence Time in Fire Box at max firing rate (sec)
~2,500	434,000	51	~2

STACK PARAMETERS

Stack Diameter	Stack Height	Stack Gas Velocity (ft/sec)		Stack Gas	Exhaust
		(@Ave. Fuel Flow Rate)	(@Max. Fuel Flow Rate)	Temp F	scfm
18' x 12'	360'	170	170	370	1,200,000

CHARACTERISTICS OF OUTPUT

Material	Chemical Composition of Exit Gas Released (% by Volume)
CO_2 H_2O O_2 N_2	12.4% 10.3% 3.3% 74.0% NOx, SO2, CO, and VOC <0.1%. See included Table 1(a)

Attach an explanation on how temperature, air flow rate, excess air or other operating variables are controlled.

lso supply an assembly drawing, dimensioned and to scale, in plan, elevation, and as many sections as are needed to show clearly the eration of the combustion unit. Show interior dimensions and features of the equipment necessary to calculate in performance.

*Standard Conditions: 70 F, 14.7 psia

Welsh Power Station Unit Three Emissions Calculations

Maximum Emissions Limitations							
Pollutant		*Boiler Requirement*		*Emission Factor*		*Emissions lb/hr*	*Emissions Ton/yr.*
Representations						Limitations	
NO_x	(Oxides of Nitrogen)	5156	MMBtu/Hr[1]	0.7	lb/MMBtu[3]	3,609	15,808
CO	(Carbon Monoxide)	312.5	Tons coal/Hr[2]	0.5	Lb/Ton[4]	156	684
VOC	(Volatile Organic Compounds)	312.5	Tons coal/Hr[2]	0.06	lb/Ton[4]	19	82
SO_2	(Sulfur Dioxide)	5156	MMBtu/Hr[1]	1.20	lb/MMBtu[3]	6,187	27,100
PM	(Particulate Matter)	5156	MMBtu/Hr[1]	0.10	lb/MMBtu[3]	516	2,258

Notes

[1] Boiler design specification of 625,000 lb/hr coal feed rate, and with a typical fuel heat content of 8,250 Btu/lb = 5156 MMBtu/hr

[2] 625,000lbs/hr coal / 2,000lbs/ton

[3] NSPS Subpart D

[4] AP-42 Table 1.1-11

Attachment E

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

TCEQ

Attachment 5

% Sulfur E-mail

WELSH POWER PLANT
SOUTHWESTERN ELECTRIC POWER COMPANY
RN100213370
CN602411597
1187 COUNTY ROAD 4865
PITTSBURG TEXAS
TITUS COUNTY

INVESTIGATION NUMBER: 278307
INVESTIGATORS: C. LANE, G. ORR
INVESTIGATION DATE: MAY 25, 2004

Attachment E

Att 5, pg 1 of 1

Celeste Lane - SO2 & % Sulfur

From: <jkmeyer@aep.com>
To: <clane@tceq.state.tx.us>
Date: 6/8/2004 12:07 PM
Subject: SO2 & % Sulfur

Celeste, on the 6 dates that you gave me to look into for SO2 exceedances the following was determined from CEMs data:

8-10-03 Unit #1
Unit offline 8-10-03 @ approximately 11:30 11:00 exceedance
Unit online 8-12-03 @ approximately 06:00

3-23-02 Unit #1
Unit offline 3-23-02 @ 02:00 OK
Unit online 4-1-02 @ 13:00

9-28-01 Unit #1
Unit offline 9-28-01 @ 22:00 - Flow data for 23:00 hrs - exceedance 23:00
Unit online 11/17/01 @ 04:00

2-17-02 Unit #2
Unit offline 2-17-02 @ 14:30 OK
Unit online 2-18-02 @ 00:30

5-20-01 Unit #2 - Unit Trip
Unit offline 5- 20-01 @ 23:00 Flow data Constant From 23:00 - 01:00
Unit online 5-21-01 @ 00:45

10-19-02 Unit #3
Unit offline 10-19-02 @ 08:30 OK
Unit online 10-21-02 @ 21:15

At times when the unit is down small negative #'s show up in the SO2 and CO2 analyzers - plugging these into the formula two negatives give a positive readout on the #/mmbtu for SO2. This is a function of EA2 software that it is no longer an issue with the new ESC software: The formula is as follows:

data.SO2#/mmBtuHr = data.SO2_ppm * FcCoal (1800) / data.CO2 * 1.660e-7 * 100

I will fax you the raw data for 8-10-03 as you requested. E is for edit and under Part 75 we can edit back to zero.

% Sulfur
We checked our spreadsheet data with the numbers from the lab reports and the numbers you have are correct, however the analysis from point of origin indicates the following:

Jan 21, 2002 - Train unloaded prior day .36% sulfur. The maximum from all trains unloaded in January is .40%.
Nov 28, 2001 - Trains unloaded prior day .43% and .34% sulfur. The maximum from all trains unloaded in November is .43%.

Please let me know if you have any questions.

Jennifer K. Meyer

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

TCEQ

Attachment 8

MMBtu/hr Exceedance Data

WELSH POWER PLANT
SOUTHWESTERN ELECTRIC POWER COMPANY
RN100213370
CN602411597
1187 COUNTY ROAD 4865
PITTSBURG TEXAS
TITUS COUNTY

INVESTIGATION NUMBER: 278307
INVESTIGATORS: C. LANE, G. ORR
INVESTIGATION DATE: MAY 25, 2004

	Unit #1		Unit #2		Unit #3		
Date (Mo/Yr)	Days Exceed/ Days Oper	Monthly Daily Max (MMBtu)	Days Exceed/ Days Oper	Monthly Daily Max (MMBtu)	Days Exceed/ Days Oper	Monthly Daily Max (MMBtu)	
4/04	5/18	133,688	0/30		2/16	125,543	
3/04	3/27	126,988	0/11		0/23		
2/04	12/29	129,904	1/21	124,185	3/27	129,998	
1/04	8/31	134,807	2/30	124,808	3/31	131,842	
12/03	1/11	132,447	4 0/21 133		11 2/21 132	130,195	
11/03	30 1/6 122	126,194	1/20 2/30 1/10	125,725	1/20 2/30	124,856	
10/03	16/31	138,434	3/22	127,590	2/24	129,096	
09/03	9/30	133,099	3/30	126,613	2/28	126,395	
08/03	17/25	132,090	13/30	143,654	17/30	131,932	
07/03	20/31	133,430	11/31	128,602	14/31	131,946	
06/03	7/30	129,418	1/30	125,079	2/29	125,704	
05/03	5/27	124,910	4/30	130,772	3/30	127,894	
04/03	5/26	129,121	1/6	123,813	6/31	130,379	
03/03	17/31	131,464	7/28	128,278	7/23	131,642	
02/03	8/28	132,224	1/28	124,520	8/28	127,937	
01/03	11/30	131,127	9/31	127,163	8/31	129,765	
12/02	3/30	131,783	1/31	125,711	3/31	133,376	
11/02	2/30	131,783	0/30		2/30	139,105	
10/02	4/25	133,897	1/26	128,036	4/29	130,301	
09/02	6/29	129,839	2/29	129,730	8/28	141,746	
08/02	13/30	134,547	4/31	141,262	8/31	143,571	
07/02	9/31	143,139	6/31	131,009	3/31	130,138	
06/02	8/30	139,683	0/30		0/30		
05/02	3/18	137,819	0/17		3/29	126,817	
04/02	7/30	127,616	4/30	128,046	0/3		
03/02	5/24	130,712	6/31	128,505	7/30	135,324	
02/02	2/28	143,987	5/28	136,637	4/27	138,567	
01/02	8/31	131,031	4/31	127,673	3/31	127,174	

	Unit #1		Unit #2		Unit #3		
Date (Mo/Yr)	Days Exceed/ Days Oper	Monthly Daily Max (MMBtu)	Days Exceed/ Days Oper	Monthly Daily Max (MMBtu)	Days Exceed/ Days Oper	Monthly Daily Max (MMBtu)	
12/01	3/31	126,033	4/31	130,652	8/31	136,537	
11/01	1/15	126,708	6/24	134,789	10/30	142,204	
10/01	0/0		6/31	129,308	6/31	134,956	
09/01	6/28	129,973	4/30	127,452	4/26	135,712	
08/01	18/31	133,705	12/31	137,765	13/31	130,387	
07/01	17/31	134,802	13/31	131,297	14/30	138,407	
06/01	5/28	128,057	2/30	127,313	3/30	127,604	
05/01	16/31	133,689	10/30	132,325	4/22	129,600	
04/01	21/30	135,799	0/25		27/30	133,488	
03/01	17/23	138,428	24/31	139,573	25/31	135,822	
02/01	9/28	131,720	13/28	134,434	13/28	134,511	
01/01	11/31	136,728	6/31	129,731	16/31	138,753	

Year	Days Exceed/ Days Oper	% Oper Time Exceeding	Days Exceed/ Days Oper	% Oper Time Exceeding	Days Exceed/ Days Oper	% Oper Time Exceeding	
2004*	28/105	26.7	3/92	3.3	8/97	8.2	* 4 Months
2003	111/307	36.2	55/317	17.4	68/336	20.2	
2002	70/336	20.8	33/345	9.5	45/330	13.6	
2001	124/307	40.4	100/353	28.3	143/351	40.7	
Total†	333/1055	31.6	191/1107	17.3	264/1114	23.7	† 40 Months

All Units have a permit limit of 5156 Million British Thermal Units Per Hour (MMBtu/hr)

Daily limit would be 123,744 MMBtu

The number of days exceeded is based on exceeding the daily limits, and therefore the 24 hour average indicates that the hourly limit was exceeded every hour of the day.

7412.10 Tons x 2000 lb/Ton x 8241 Btu/lb x 1 MMBtu/10^6 Btu = 122,166.2

5156 MMBtu/Hr x 24 Hrs = 123,744 MMBtu

SWEPCO
WELSH
April 2004

	Unit #1						Unit #2						Unit #3						Starting Inv.	1053262.214
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	7412.10	30.58	4.86	0.30	8,241	122,162	7037.95	29.74	5.15	0.27	8,341	117,407	0.00					0	14,669.650	1,053,481.814
2	7318.50	30.61	4.72	0.38	8,242	120,642	6536.80	29.74	5.15	0.27	8,341	109,047	0.00					0	14,587.850	1,054,214.364
3	7043.65	31.49	4.49	0.36	8,178	115,207	6968.85	31.52	4.42	0.36	8,168	113,846	0.00					0	29,618.100	1,069,819.964
4	6817.10	31.59	4.47	0.32	8,154	111,171	6526.90	28.16	5.65	0.36	8,487	110,786	0.00					0	27,701.000	1,084,176.964
5	7106.50	31.59	4.47	0.32	8,154	115,890	6678.80	29.74	5.15	0.27	8,341	111,416	0.00					0	28,613.350	1,099,005.014
6	7239.00	28.47	4.60	0.24	8,561	123,948	6960.05	29.74	5.15	0.27	8,341	116,107	0.00					0	13,154.000	1,097,959.964
7	7270.25	28.47	4.60	0.24	8,561	124,483	7017.50	29.74	5.15	0.27	8,341	117,066	0.00					0	29,576.150	1,113,248.364
8	7431.95	32.26	4.58	0.32	8,105	120,467	7176.55	31.61	4.72	0.31	8,138	116,805	0.00					0	12,611.325	1,111,251.189
9	7528.10	25.52	5.05	0.35	8,879	133,688	7313.80	31.46	4.79	0.30	8,144	119,130	0.00					0	0.000	1,096,409.289
10	7394.35	31.51	5.02	0.39	8,102	119,824	7093.95	30.92	4.85	0.32	8,228	116,741	0.00					0	29,650.475	1,111,571.464
11	6915.25	31.53	4.92	0.37	8,134	112,500	6689.55	31.47	4.85	0.30	8,178	109,420	0.00					0	12,802.000	1,110,768.664
12	7595.60	30.05	5.32	0.27	8,329	126,529	7257.55	30.78	4.57	0.30	8,238	119,580	0.00					0	0.000	1,095,915.514
13	7499.95	30.05	5.32	0.27	8,329	124,935	7173.75	30.30	4.78	0.32	8,322	119,398	0.00					0	26,297.350	1,107,539.164
14	6905.05	28.77	5.63	0.36	8,418	116,260	6962.80	30.54	4.75	0.35	8,277	115,256	0.00					0	12,879.950	1,106,551.264
15	6796.65	28.77	5.63	0.36	8,418	114,435	6987.90	30.47	4.63	0.33	8,348	116,665	52.85	30.37	4.79	0.30	8,296	877	12,678.575	1,105,392.439
16	6317.60	28.77	5.63	0.36	8,418	106,369	6789.15	30.47	4.63	0.33	8,348	113,347	3855.35	30.02	4.86	0.40	8,353	64,407	14,943.825	1,103,374.164
17	0.00					0	6849.80	30.47	4.63	0.33	8,348	114,360	7322.85	29.86	5.16	0.27	8,307	121,658	15,065.000	1,104,[illegible]514
18	0.00					0	6884.80	31.26	4.86	0.29	8,219	113,179	7190.80	30.48	4.99	0.35	8,233	118,410	14,356.850	1,10[illegible]4
19	0.00					0	6829.75	31.29	4.98	0.34	8,196	111,958	7030.55	30.48	4.99	0.35	8,233	115,771	25,441.675	1,110[illegible]39
20	0.00					0	7236.40	32.35	4.72	0.37	8,095	117,162	7144.90	31.31	4.62	0.32	8,209	117,307	0.000	1,101,747.839
21	0.00					0	7022.65	30.21	4.92	0.34	8,358	117,397	6941.90	30.64	4.70	0.35	8,282	114,986	25,953.125	1,113,736.414
22	0.00					0	6998.10	30.52	4.60	0.34	8,343	116,770	7064.30	29.66	4.77	0.35	8,415	118,894	25,330.325	1,125,004.339
23	0.00					0	7248.30	29.22	4.69	0.38	8,483	122,970	7429.65	30.34	4.64	0.37	8,348	124,046	14,425.675	1,124,752.064
24	0.00					0	6933.40	29.22	4.69	0.38	8,483	117,628	2570.55	30.01	4.69	0.33	8,376	43,063	15,087.000	1,130,335.114
25	0.00					0	6248.45	29.22	4.69	0.38	8,483	106,007	7156.45	33.08	4.64	0.39	7,996	114,441	15,158.600	1,132,088.814
26	0.00					0	6994.65	30.85	4.81	0.40	8,272	115,719	7001.30	30.37	4.79	0.30	8,296	116,164	27,890.850	1,145,983.714
27	0.00					0	7158.25	28.91	5.22	0.33	8,448	120,940	7443.10	30.37	4.79	0.30	8,296	123,494	12,684.000	1,144,066.364
28	0.00					0	6624.05	28.91	5.22	0.33	8,448	111,915	7060.30	30.37	4.79	0.30	8,296	117,143	14,633.200	1,145,015.214
29	47.00	28.77	5.63	0.36	8,418	791	7072.75	28.91	5.22	0.33	8,448	119,496	7135.15	30.37	4.79	0.30	8,296	118,384	38,939.250	1,169,699.564
30	3327.45	28.77	5.63	0.36	8,418	56,024	7178.85	28.91	5.22	0.33	8,448	121,288	7507.50	29.99	4.65	0.34	8,361	125,543	0.000	1,151,685.764
31						0						0						0		1,151,685.764
Total	117966.05	29.97	4.97	0.33	8,330	1,965,325	208452.05	30.23	4.89	0.33	8,320	3,468,803	99907.50	30.52	4.80	0.33	8,281	1,654,586	524,749.150	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	5345.76	1,965,325

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 2	41.72	3,468,803

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 3	4912.32	1,654,586

* Fuel key
B = blended oil
2 = #2 Fuel Oil

	6.00	4
	5.85	5
		6

Rt 8, Box 42

SWEPCO
WELSH
March 2004

	Unit 1						Unit 2						Unit 3						Starting Inv. 916215.239	
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	6891.30	29.36	4.86	0.23	8,413	115,948	0.00					0	6614.75	30.03	4.65	0.28	8,330	110,207	27,529.525	930,238.714
2	7041.35	30.23	4.58	0.26	8,329	117,290	0.00					0	7275.25	29.79	4.95	0.23	8,350	121,491	13,081.000	929,003.114
3	7629.00	30.37	4.55	0.31	8,323	126,988	0.00					0	7289.25	30.63	4.65	0.29	8,273	120,601	27,461.375	941,546.239
4	7462.15	31.60	4.88	0.37	8,113	121,082	0.00					0	7206.20	30.60	4.95	0.28	8,222	118,492	13,315.875	940,193.764
5	6611.40	31.28	5.07	0.31	8,129	107,485	0.00					0	4881.00	30.96	4.96	0.28	8,169	79,748	15,097.000	943,798.364
6	0.00					0	0.00					0	6918.00	31.83	4.80	0.22	8,083	111,830	15,234.600	952,114.964
7	38.05	31.28	5.07	0.31	8,129	619	0.00					0	4992.05	33.42	4.73	0.36	7,897	78,849	12,900.375	959,985.239
8	0.00					0	0.00					0	7345.80	30.07	4.50	0.32	8,384	123,180	13,114.000	965,753.439
9	0.00					0	0.00					0	6928.30	27.90	4.11	0.23	8,737	121,064	13,167.000	971,992.139
10	0.00					0	0.00					0	6989.00	28.96	4.50	0.23	8,562	119,680	14,590.975	979,594.114
11	142.25	31.28	5.07	0.31	8,129	2,313	0.00					0	7004.65	28.96	4.50	0.23	8,562	119,948	14,722.300	987,169.514
12	5840.05	29.65	4.60	0.21	8,459	98,797	0.00					0	6855.20	28.96	4.50	0.23	8,562	117,389	27,095.125	1,001,569.389
13	7309.95	30.70	4.88	0.20	8,276	120,992	0.00					0	6897.50	29.94	5.02	0.33	8,354	115,243	15,478.000	1,002,839.939
14	7039.35	30.70	4.88	0.20	8,276	116,514	0.00					0	6698.55	29.64	4.96	0.31	8,430	112,942	14,993.700	1,004,095.739
15	7471.75	30.70	4.88	0.20	8,276	123,671	0.00					0	7411.55	32.20	4.89	0.36	8,023	118,924	27,246.350	1,016,458.789
16	7316.45	30.92	4.54	0.35	8,251	120,739	0.00					0	7116.05	31.97	4.91	0.35	8,006	113,947	13,028.000	1,015,054.289
17	7102.55	31.03	4.72	0.37	8,192	116,374	0.00					0	6968.95	31.03	5.04	0.39	8,171	113,882	14,593.400	1,01[illegible]9
18	7637.90	31.49	4.83	0.40	8,136	124,279	0.00					0	7027.85	30.94	4.96	0.36	8,188	115,093	14,509.200	1,01[illegible]9
19	7090.10	29.49	5.12	0.28	8,326	118,061	175.90	30.66	4.87	0.30	8,234	2,897	6827.95	30.18	5.13	0.36	8,249	112,649	28,553.600	1,029,6[illegible]289
20	7438.85	30.61	4.96	0.36	8,231	122,453	2224.15	29.44	4.86	0.38	8,388	37,310	6930.60	30.18	5.13	0.36	8,249	114,343	0.000	1,013,285.689
21	6730.30	30.70	4.89	0.32	8,265	111,246	6471.60	28.85	6.54	0.25	8,256	106,864	701.25	30.18	5.13	0.36	8,249	11,569	15,227.000	1,014,609.539
22	7477.55	30.70	4.89	0.32	8,265	123,598	6083.75	28.85	6.54	0.25	8,256	100,460	0.00					0	0.000	1,001,048.239
23	7420.00	30.70	4.89	0.32	8,265	122,647	0.00					0	0.00					0	28,257.000	1,021,885.239
24	6995.65	30.70	4.89	0.32	8,265	115,632	0.00					0	0.00					0	27,047.925	1,041,937.514
25	7389.35	30.04	4.95	0.34	8,327	123,061	26.70	28.85	6.54	0.25	8,256	441	0.00					0	14,602.200	1,049,123.664
26	7178.75	31.72	4.80	0.36	8,125	116,648	4455.50	28.85	6.54	0.25	8,256	73,573	0.00					0	28,972.700	1,066,462.114
27	7007.75	31.72	4.80	0.36	8,125	113,869	6660.00	29.09	4.49	0.27	8,492	113,109	0.00					0	27,010.000	1,079,804.364
28	7267.25	30.15	4.83	0.27	8,337	121,169	6348.10	30.33	4.77	0.31	8,335	105,821	0.00					0	0.000	1,066,189.014
29	7678.85	31.11	4.41	0.31	8,288	127,280	6914.15	31.10	4.25	0.23	8,311	114,925	0.00					0	29,997.000	1,081,593.014
30	7158.35	30.77	4.27	0.24	8,331	119,272	6938.95	30.24	4.45	0.26	8,384	116,351	0.00					0	0.000	1,067,495.714
31	7181.15	30.77	4.27	0.24	8,331	119,652	7052.35	30.24	4.45	0.26	8,384	118,252	0.00					0	0.000	1,053,262.214
Total	179547.40	30.70	4.77	0.30	8,264	2,967,676	53351.15	29.74	5.15	0.27	8,341	890,002	136879.70	30.37	4.79	0.30	8,296	2,271,070	506,825.225	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	4656.40	2,967,676
Unit # 2	5898.06	890,002
Unit # 3	366.66	2,271,070

* Fuel key
B = blended oil
2 = #2 Fuel Oil

	6.00	4
	5.85	5
		6

Att 8, Pg 42

SWEPCO
WELSH
February 2004

	Unit #1						Unit #2						Unit #3						Starting Inv	972051.589
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	6761.30	30.50	5.03	0.21	8,265	111,766	6187.30	29.78	4.55	0.21	8,429	104,304	6263.80	32.02	4.95	0.30	8,081	101,239	30,360.950	983,200.139
2	7150.75	30.57	4.55	0.28	8,343	119,322	6919.90	29.44	6.41	0.32	8,248	114,157	7053.25	31.92	5.63	0.29	8,045	113,490	12,899.625	974,975.864
3	7596.50	30.88	4.56	0.29	8,298	X 126,070	7440.15	32.25	4.64	0.30	8,106	120,616	7463.50	30.98	5.30	0.30	8,164	121,869	12,540.000	965,015.714
4	7731.60	30.71	5.79	0.27	8,092	X 125,134	7179.15	27.65	5.04	0.31	8,162	117,196	7434.85	30.06	4.95	0.24	8,353	X 124,211	0.000	942,670.114
5	7869.45	31.46	4.84	0.32	8,163	X 128,478	7578.15	32.11	5.04	0.31	8,043	121,909	7781.25	30.06	4.95	0.24	8,353	X 129,998	13,863.900	933,305.164
6	7627.25	29.89	5.02	0.30	8,320	X 126,917	7053.65	30.14	4.90	0.28	8,337	117,619	7175.50	30.06	4.95	0.24	8,353	119,878	41,931.375	953,380.139
7	7378.55	32.04	5.01	0.38	8,055	118,866	6932.15	30.14	4.90	0.28	8,337	115,593	7445.25	28.79	5.53	0.29	8,402	125,117	15,153.000	946,777.189
8	7563.60	31.80	4.90	0.35	8,091	122,402	6753.45	31.76	5.03	0.33	8,070	108,998	7140.15	29.51	5.01	0.32	8,374	119,587	0.000	925,319.989
9	7194.30	32.98	4.60	0.35	7,978	114,796	6898.50	31.58	4.74	0.30	8,162	112,615	6853.40	30.05	4.75	0.32	8,338	114,294	12,788.000	917,161.789
10	6567.85	31.85	5.08	0.38	8,077	106,093	6262.80	30.83	4.78	0.27	8,226	103,037	6250.90	30.69	5.08	0.37	8,223	102,801	26,777.900	924,858.139
11	7338.40	31.57	4.69	0.28	8,167	119,861	6984.35	29.10	4.76	0.28	8,427	117,719	7097.50	27.61	4.64	0.29	8,660	122,928	0.000	903,437.889
12	7889.25	31.17	4.54	0.29	8,233	X 129,904	7516.90	30.59	4.65	0.28	8,260	X 124,185	7602.90	31.01	4.68	0.29	8,233	X 125,195	12,915.000	893,343.839
13	7768.20	30.52	4.79	0.29	8,296	X 128,887	7423.75	30.15	4.62	0.29	8,328	123,653	5534.25	27.99	5.02	0.29	8,622	95,435	0.000	872,617.639
14	7946.95	32.19	4.77	0.38	8,056	X 128,039	7460.25	31.23	4.52	0.32	8,224	122,703	0.00					0	14,542.100	871,752.539
15	7218.20	30.67	5.17	0.37	8,243	118,995	1810.95	31.23	4.52	0.32	8,224	29,786	329.45	27.99	5.02	0.29	8,622	5,681	30,037.825	892,431.764
16	7681.20	29.95	4.95	0.27	8,366	X 128,529	593.80	31.23	4.52	0.32	8,224	9,767	6504.35	31.02	5.65	0.39	8,094	105,287	26,650.125	904,302.539
17	6957.90	30.70	5.04	0.38	8,239	114,647	6749.30	31.23	4.52	0.32	8,224	111,010	6768.05	29.86	5.18	0.37	8,327	112,710	13,070.000	89[illegible]
18	6196.70	29.95	4.95	0.27	8,366	103,689	6663.05	29.73	4.92	0.38	8,455	112,672	6945.55	30.03	5.04	0.36	8,396	116,623	13,355.100	89[illegible]
19	6706.85	29.95	4.95	0.27	8,366	112,225	6066.40	32.07	4.87	0.30	8,094	98,198	6212.75	30.06	4.95	0.24	8,353	103,794	12,812.000	884,2[illegible].089
20	6153.65	29.95	4.95	0.27	8,366	102,968	5907.85	32.07	4.87	0.30	8,094	95,631	6331.65	30.06	4.95	0.24	8,353	105,780	0.000	865,879.939
21	7175.00	29.95	4.95	0.27	8,366	120,058	32.55	32.07	4.87	0.30	8,094	527	7176.30	30.06	4.95	0.24	8,353	119,891	30,039.425	881,535.514
22	6667.70	29.95	4.95	0.27	8,366	111,570	0.00					0	6520.70	30.06	4.95	0.24	8,353	108,939	0.000	868,347.114
23	7195.35	30.31	4.68	0.39	8,374	120,507	0.00					0	4211.45	30.06	4.95	0.24	8,353	70,359	42,133.500	899,073.814
24	7579.80	30.11	4.53	0.28	8,408	X 127,457	0.00					0	54.85	30.06	4.95	0.24	8,353	916	13,075.000	904,514.164
25	7315.45	30.73	4.80	0.39	8,275	121,076	0.00					0	5854.75	29.33	4.74	0.29	8,479	99,286	13,328.775	904,672.739
26	7573.85	30.14	4.90	0.40	8,354	X 126,539	0.00					0	7370.50	30.42	4.81	0.33	8,335	122,866	13,147.350	902,875.739
27	7408.70	29.11	4.78	0.31	8,516	X 126,185	0.00					0	7192.15	29.90	4.83	0.28	8,383	120,582	15,104.000	903,378.889
28	7154.15	30.38	5.14	0.32	8,307	121,849	0.00					0	7304.85	30.06	4.95	0.24	8,353	122,039	27,488.825	916,408.714
29	7469.25	29.94	4.99	0.36	8,377	X 124,095	0.00					0	7358.80	30.06	4.95	0.24	8,353	122,940	0.000	901,580.664
30						0						0						0		901,580.664
31						0						0						0		901,580.664
Total	210837.70	30.70	4.89	0.32	8,265	3,484,974	126414.35	30.66	4.87	0.30	8,234	2,081,895	177232.65	30.07	5.02	0.29	8,333	2,953,734	444,013.775	

	Total for Month by Unit	
	Oil MMBTU	Coal MMBTU
Unit # 1	675.08	3,484,974

	Total for Month by Unit	
	Oil MMBTU	Coal MMBTU
Unit # 2	2659.02	2,081,895

	Total for Month by Unit	
	Oil MMBTU	Coal MMBTU
Unit # 3	2385.32	2,953,734

* Fuel key
B = blended oil 6.00
2 = #2 Fuel Oil 5.85

4
5
6

A7 8
8 5 pg 42

Column Calc. Welsh

WELSH

SWEPCO
WELSH
January 2004

	Unit #1						Unit #2						Unit #3						Starting Inv.	1035499.864
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	5943.15	31.09	4.90	0.29	8,227	97759 8,227	6405.20	29.52	5.53	0.22	8,344	106,886	60.40	29.34	4.83	0.25	8,471	1,023	27,567.000	1,050,658.114
2	5561.25	27.27	5.14	0.26	8,666	96388 8,666	5306.30	29.24	5.13	0.20	8,418	89,337	5412.05	29.34	4.83	0.25	8,471	91,687	27,905.125	1,062,283.639
3	6118.85	31.10	4.70	0.25	8,236	100728 8,236	5899.25	29.86	4.55	0.23	8,446	99,649	5944.25	29.34	4.83	0.25	8,471	100,704		1,044,321.289
4	115.05	31.10	4.70	0.25	8,236	8,236	6592.60	30.25	4.67	0.25	8,341	109,977	6525.10	29.34	4.83	0.25	8,471	110,544	12,923.650	1,044,012.189
5	4443.25	29.95	5.09	0.26	8,363	8,363	7414.35	29.28	5.22	0.26	8,409	124,689	7564.45	31.33	5.34	0.27	8,132	123,030	12,859.000	1,037,449.139
6	7564.90	25.69	5.17	0.38	8,910	134,860 8,910	7465.50	29.79	5.18	0.25	8,359	124,808	7553.95	27.32	4.96	0.28	8,727	131,842	28,641.525	1,043,506.314
7	7511.95	30.12	5.05	0.27	8,331	125,164 8,331	7198.30	29.82	5.29	0.25	8,333	119,961	7415.10	30.70	5.02	0.31	8,289	122,925	0.000	1,021,380.964
8	7584.80	30.02	5.09	0.27	8,375	127,046 8,375	6618.80	31.53	4.87	0.25	8,186	108,362	7540.00	32.60	4.90	0.24	8,122	122,475	15,173.000	1,014,810.364
9	7449.85	29.09	5.39	0.24	8,396	125,098 8,396	565.55	31.53	4.87	0.25	8,186	9,259	7400.10	31.25	6.03	0.23	8,056	119,229	23,296.350	1,022,691.214
10	7542.20	30.36	5.60	0.23	8,216	123,543 8,216	0.00					0	7557.05	28.66	6.71	0.25	8,277	125,093	14,774.000	1,022,365.964
11	7085.15	29.79	5.83	0.24	8,275	8,275	2222.60	31.53	4.87	0.25	8,186	36,388	7083.70	29.12	5.97	0.28	8,180	115,895	0.000	1,005,974.514
12	6914.25	30.53	4.98	0.28	8,318	8,318	6554.40	30.75	5.37	0.22	8,237	107,978	7019.85	29.12	5.97	0.28	8,180	114,850	12,911.000	998,397.014
13	6424.00	31.07	5.15	0.29	8,220	8,220	6268.35	30.07	5.42	0.20	8,296	104,001	6325.75	29.12	5.97	0.28	8,180	103,494	13,548.000	992,926.914
14	6694.50	30.26	4.89	0.26	8,355	8,355	5998.65	30.07	5.42	0.20	8,296	99,527	6323.75	29.48	4.73	0.23	8,441	106,754	14,993.125	988,903.139
15	6281.80	28.60	4.80	0.24	8,580	8,580	6220.25	29.97	4.78	0.22	8,401	104,511	6120.30	30.58	5.11	0.25	8,261	101,124	28,957.000	999,237.789
16	6677.05	28.60	4.80	0.24	8,580	8,580	6468.20	30.14	4.68	0.24	8,386	108,484	6550.75	33.30	4.62	0.31	8,011	104,956	14,665.175	994,206.964
17	6458.55	28.60	4.80	0.24	8,580	8,580	6021.95	32.63	4.59	0.29	8,076	97,262	6114.75	31.05	4.61	0.21	8,269	101,121	27,671.600	1,00[illegible]
18	6719.55	28.60	4.80	0.24	8,580	8,580	6666.60	31.41	4.93	0.27	8,175	108,999	6764.25	31.62	4.42	0.24	8,231	111,684	0.000	98[illegible]
19	7532.40	31.81	4.68	0.21	8,173	123124 8,173	7208.15	28.88	4.87	0.22	8,532	122,993	7226.75	29.75	5.07	0.20	8,391	121,281	13,022.000	974,[illegible]
20	7611.05	30.47	4.94	0.28	8,274	125948 8,274	7298.50	31.42	4.99	0.36	8,169	119,243	7338.90	31.42	5.05	0.33	8,171	119,937	41,036.500	992,955.664
21	7231.80	31.19	4.89	0.34	8,221	8,221	6710.75	29.71	5.13	0.21	8,392	112,632	6862.10	31.39	5.00	0.36	8,170	112,131	28,212.350	1,000,363.364
22	7180.90	30.69	4.51	0.26	8,350	8,350	6701.85	29.71	5.13	0.21	8,392	112,482	6739.60	31.79	4.66	0.31	8,227	110,898	30,101.925	1,009,842.939
23	7114.35	30.75	4.52	0.23	8,292	8,292	7103.15	29.71	5.13	0.21	8,392	119,218	7198.45	31.92	4.94	0.29	8,085	116,395	15,232.000	1,003,658.989
24	6623.00	29.78	5.08	0.28	8,344	8,344	6546.75	30.74	4.75	0.26	8,248	107,990	6571.90	29.24	4.99	0.24	8,421	110,686	0.000	983,917.339
25	6998.50	32.29	4.64	0.31	8,086	8,086	6717.90	31.88	4.59	0.28	8,144	109,425	6728.35	31.83	4.87	0.33	8,091	108,875	27,284.500	990,757.089
26	7177.15	31.02	4.25	0.32	8,314	8,314	7079.40	28.73	4.80	0.26	8,548	121,026	7231.10	30.40	4.48	0.32	8,367	121,010	27,205.200	996,474.639
27	7685.55	30.23	5.07	0.41	8,314	127796 8,314	7446.10	28.73	4.80	0.26	8,548	127,295	7250.50	29.66	5.09	0.48	8,368	121,351	27,994.825	1,002,087.314
28	7241.00	30.99	4.82	0.30	8,219	8,219	7157.45	28.73	4.80	0.26	8,548	122,360	7376.00	28.09	4.69	0.32	8,587	126,675	0.000	980,312.864
29	7326.85	29.45	4.98	0.24	8,401	8,401	7240.30	29.69	4.82	0.26	8,387	121,449	7189.05	30.27	4.60	0.24	8,345	119,980	13,143.000	971,699.664
30	7343.20	29.33	4.94	0.22	8,432	123836 8,432	7122.55	29.62	4.71	0.19	8,433	120,124	7270.85	30.48	5.04	0.21	8,235	119,750	44,590.475	994,553.539
31	7632.45	29.33	4.94	0.22	8,432	128714 8,432	7324.60	29.53	4.65	0.20	8,446	123,731	7544.90	31.55	4.91	0.32	8,149	122,968	0.000	972,051.589
Total	207788.30	29.95	4.95	0.27	8,366	3,476,894	191544.30	30.06	4.95	0.24	8,353	3,200,048	207824.00	30.38	5.08	0.28	8,277	3,440,368	543,708.325	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	1831.90	3,476,894

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 2	2396.66	3,200,048

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 3	687.96	3,440,368

* Fuel key
B = blended oil
2 = #2 Fuel Oil

	6.00	4
	5.85	5
		6

AT 8, 5 6 of 42

SWEPCO
WELSH
December2003

	Unit 1						Unit 2						Unit 3						Starting Inv.
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered
1	6033.10	26.85	4.39	0.21	8,869	0	6245.15	26.99	4.53	0.22	8,828	110,263	6274.60	28.81	4.29	0.23	8,645	108,491	0.000
2	6686.75	29.53	4.47	0.21	8,515	113,880	6768.55	28.86	4.64	0.24	8,582	116,180	6923.40	28.27	5.23	0.22	8,577	118,768	26,481.950
3	6710.40	31.09	4.59	0.22	8,246	110,664	6802.65	24.93	4.79	0.23	9,049	123,112	6934.10	24.19	5.18	0.24	9,098	126,169	30,436.000
4	4516.20	31.09	4.59	0.22	8,246	74,479	6312.75	30.81	4.23	0.23	8,369	105,669	4476.00	24.19	5.18	0.24	9,098	81,443	15,027.000
5	0.00					0	5234.50	27.78	5.19	0.23	8,602	90,057	0.00					0	0.000
6	0.00					0	5220.50	29.36	4.68	0.25	8,436	88,080	0.00					0	26,305.150
7	0.00					0	5255.50	28.58	4.71	0.31	8,555	89,924	0.00					0	13,190.000
8	0.00					0	5120.55	27.65	5.10	0.24	8,653	88,615	0.00					0	0.000
9	0.00					0	5124.55	29.17	4.71	0.25	8,480	86,914	0.00					0	0.000
10	0.00					0	5236.35	27.11	5.56	0.24	8,636	90,442	0.00					0	28,147.200
11	0.00					0	5289.95	30.39	4.79	0.28	8,359	88,441	0.00					0	15,212.000
12	0.00					0	5263.25	30.39	4.79	0.28	8,359	87,994	0.00					0	29,431.175
13	0.00					0	5334.90	30.39	4.79	0.28	8,359	89,192	0.00					0	0.000
14	0.00					0	5362.80	30.39	4.79	0.28	8,359	89,659	0.00					0	0.000
15	0.00					0	5302.25	28.00	4.84	0.28	8,460	89,715	66.20	31.38	4.54	0.23	8,182	1,083	12,935.000
16	637.30	30.82	4.63	0.27	8,207	10,461	5301.25	32.62	4.59	0.25	8,055	85,401	2635.80	31.38	4.54	0.23	8,182	43,132	13,841.800
17	6602.05	27.86	5.07	0.26	8,602	113,576	5272.25	29.70	4.76	0.27	8,456	89,166	6273.70	30.83	4.79	0.35	8,269	103,759	0.000
18	7199.35	23.71	4.70	0.22	9,199	132,447	5208.35	21.30	5.09	0.23	9,511	99,071	7360.95	27.22	4.46	0.22	8,844	130,195	30,216.000
19	7129.55	28.50	4.64	0.19	8,645	123,268	4637.40	30.39	4.79	0.28	8,359	77,531	6950.05	30.19	4.49	0.20	8,422	117,069	15,232.000
20	5421.10	28.50	4.64	0.19	8,645	93,729	0.00					0	6860.35	30.40	4.95	0.30	8,314	114,081	12,783.000
21	4042.35	28.50	4.64	0.19	8,645	69,891	0.00					0	6475.10	30.40	4.95	0.30	8,314	107,674	0.000
22	6492.90	29.92	4.70	0.21	8,401	109,099	0.00					0	6290.50	30.40	4.95	0.30	8,314	104,605	13,193.000
23	6192.70	26.65	5.13	0.18	8,800	108,989	0.00					0	6165.75	30.40	4.95	0.30	8,314	102,530	28,214.700
24	5795.65	28.37	5.05	0.18	8,593	99,604	0.00					0	6617.50	30.40	4.95	0.30	8,314	110,042	28,697.050
25	6750.95	24.86	5.07	0.33	9,043	122,101	0.00					0	6429.65	29.90	4.53	0.21	8,462	108,810	0.000
26	6368.70	28.31	4.68	0.29	8,648	110,149	0.00					0	6554.65	28.33	4.90	0.22	8,567	112,306	15,055.000
27	5982.70	28.50	4.63	0.30	8,619	103,124	0.00					0	5942.50	28.68	4.83	0.19	8,479	100,774	15,005.000
28	6336.90	28.50	4.63	0.30	8,619	109,230	0.00					0	6102.45	29.84	4.75	0.21	8,405	102,583	0.000
29	7043.50	31.53	5.00	0.26	8,226	115,883	0.00					0	6952.65	29.32	5.08	0.21	8,412	116,969	12,896.125
30	7418.55	30.72	5.16	0.25	8,229	122,093	757.30	30.39	4.79	0.28	8,359	12,661	7343.30	31.97	4.76	0.25	8,151	119,709	41,377.400
31	6354.00	30.72	5.16	0.25	8,229	104,573	5806.20	30.39	4.79	0.28	8,359	97,072	5496.10	31.97	4.76	0.25	8,151	89,597	14,982.675
Total	119714.70	28.60	4.80	0.24	8,580	2,054,253	110856.95	28.73	4.80	0.26	8,548	1,895,159	125125.30	29.34	4.83	0.25	8,471	2,119,790	438,659.225

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	7763.28	2,054,253
Unit # 2	6798.68	1,895,159
Unit # 3	5821.34	2,119,790

* Fuel key

B = blended oil	6.00
2 = #2 Fuel Oil	5.85

AT 8, 8 of 42

WELSH

SWEPCO
WELSH
NOVEMBER 2003

	Unit # 1						Unit # 2						Unit # 3						Starting Inv.	831944.539
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	283.70	29.76	4.84	0.30	8,399	4,766	7008.50	31.35	4.86	0.26	8,209	115,068	8648.95	29.67	5.70	0.26	8,295	110,302	27,655.375	845,658.764
2	0.00					0	6968.50	30.52	4.57	0.34	8,351	116,388	7152.15	31.07	4.94	0.33	8,233	117,770	13,160.950	844,699.064
3	0.00					0	7212.40	30.97	4.78	0.32	8,270	119,294	7402.00	30.58	4.56	0.32	8,342	123,489	13,373.000	843,457.664
4	0.00					0	7022.40	25.68	5.74	0.30	8,787	123,413	7067.85	29.11	5.07	0.26	8,427	119,127	13,471.000	842,838.414
5	0.00					0	6990.40	30.84	5.00	0.21	8,235	115,127	6741.90	29.11	5.07	0.26	8,427	113,633	13,181.550	842,267.664
6	0.00					0	7483.50	32.92	4.61	0.27	8,035	120,260	13.05	29.11	5.07	0.26	8,427	220	12,818.000	847,589.114
7	0.00					0	6965.45	30.73	4.81	0.24	8,390	116,875	4518.75	29.11	5.07	0.26	8,427	76,162	28,112.700	864,217.814
8	0.00					0	7155.95	30.04	4.62	0.25	8,478	121,332	7407.75	29.11	5.07	0.26	8,427	* 124,856	30,131.425	879,785.339
9	0.00					0	6401.80	30.20	4.52	0.26	8,463	108,356	6210.25	29.11	5.07	0.26	8,427	104,672	13,127.400	880,300.689
10	0.00					0	5737.15	30.48	5.42	0.33	8,310	95,352	6127.20	29.11	5.07	0.26	8,427	103,272	29,653.125	898,089.464
11	0.00					0	6381.75	29.63	5.07	0.31	8,427	107,557	6777.45	30.57	5.15	0.28	8,284	112,292	13,227.000	898,157.264
12	0.00					0	6669.65	31.98	5.08	0.30	8,118	108,290	6805.20	29.69	5.87	0.27	8,330	113,381	28,697.325	913,379.739
13	0.00					0	6861.80	32.28	4.81	0.34	8,177	112,223	6454.00	31.59	4.97	0.32	8,178	105,565	27,357.650	927,421.589
14	0.00					0	7468.60	30.48	4.93	0.35	8,363	* 124,916	7520.35	32.09	4.81	0.35	8,156	122,678	12,946.550	925,379.189
15	0.00					0	6525.55	29.99	4.80	0.33	8,434	110,077	6508.40	30.66	4.77	0.37	8,364	108,877	27,975.125	940,320.364
16	0.00					0	6102.60	32.08	4.65	0.26	8,204	100,133	6101.50	31.44	4.66	0.27	8,240	100,558	0.000	928,116.264
17	0.00					0	6525.55	32.08	4.65	0.26	8,204	107,073	6401.90	30.01	4.69	0.26	8,461	108,337	15,108.000	930,296.814
18	0.00					0	6611.25	32.08	4.65	0.26	8,204	108,479	7093.50	31.78	4.63	0.32	8,237	116,858	29,681.050	946,273.114
19	0.00					0	7228.25	32.08	4.65	0.26	8,204	118,603	7294.75	32.03	4.51	0.27	8,235	120,143	12,799.000	944,549.114
20	0.00					0	6996.50	29.64	4.37	0.27	8,466	118,739	7005.95	31.67	4.36	0.25	8,139	114,047	28,448.000	958,994.664
21	0.00					0	6883.70	28.45	4.50	0.30	8,561	117,868	6914.00	31.34	4.84	0.38	8,216	113,615	27,628.425	972,825.389
22	0.00					0	6718.05	28.28	4.11	0.28	8,719	117,155	7145.35	29.10	4.84	0.38	8,513	121,652	29,736.900	988,698.889
23	0.00					0	6192.45	26.49	4.95	0.30	8,853	109,641	6674.75	29.12	4.80	0.36	8,513	113,643	0.000	975,833.689
24	0.00					0	7492.85	31.85	4.52	0.34	8,151	122,148	7457.60	31.65	4.73	0.36	8,121	121,131	0.000	960,881.239
25	0.00					0	7623.10	30.95	4.60	0.32	8,246	* 125,725	7595.45	31.60	4.80	0.39	8,161	* 123,979	0.000	945,662.689
26	47.05	29.76	4.84	0.30	8,399	790	7012.60	31.26	4.83	0.32	8,198	114,974	6482.95	29.39	4.71	0.26	8,470	109,822	12,927.000	945,047.089
27	3240.50	29.76	4.84	0.30	8,399	54,435	5825.90	28.94	5.03	0.26	8,479	98,799	5365.90	28.19	6.64	0.25	8,314	89,221	30,220.000	960,834.789
28	6642.70	29.76	4.84	0.30	8,399	111,587	5813.15	29.70	5.25	0.21	8,376	97,386	5220.50	30.72	4.76	0.28	8,285	86,501	12,939.600	956,098.039
29	7512.20	29.76	4.84	0.30	8,399	* 126,194	6986.30	30.27	4.94	0.24	8,358	116,786	40.80	31.49	4.82	0.28	8,209	670	0.000	941,558.739
30	6071.75	25.00	4.74	0.25	9,055	109,962	6008.35	28.21	4.73	0.21	8,633	103,740	3588.05	31.49	4.82	0.28	8,209	58,910	26,647.000	952,537.589
31						0						0						0	-	952,537.589
Total	23797.90	28.54	4.81	0.29	8,567	407,735	202874.00	30.39	4.79	0.28	8,359	3,391,777	183738.20	30.40	4.95	0.30	8,314	3,055,382	531,003.150	[redacted]

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	4853.94	407,735

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 2	255.22	3,391,777

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 3	2407.30	3,055,382

* Fuel key
B = blended oil
2 = #2 Fuel Oil

6,000
5,851

AT 8
8-8-42

SWEPCO
WELSH
OCTOBER/2003

	Unit #1						Unit #2						Unit #3						Starting Inv.,	700515.789
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	6546.60	30.72	4.75	0.30	8,259	108,134	6382.30	29.30	4.37	0.27	8,528	108,860	6703.10	29.36	4.82	0.26	8,444	113,198	30,464.550	711,348.339
2	6583.95	30.72	4.75	0.30	8,259	108,750	5995.00	29.30	4.37	0.27	8,528	102,254	6485.90	29.36	4.82	0.26	8,444	109,530	13,125.000	705,408.489
3	7150.85	30.72	4.75	0.30	8,259	118,114	6841.85	32.64	4.85	0.27	8,029	109,862	6376.55	29.36	4.82	0.26	8,444	107,683	29,449.600	714,488.839
4	7671.95	30.72	4.75	0.30	8,259	* 126,721	7237.45	30.67	13.08	0.30	8,108	117,364	52.05	29.36	4.82	0.26	8,444	879	26,750.300	726,277.689
5	6849.70	30.72	4.75	0.30	8,259	113,140	6664.20	31.64	4.57	0.25	8,211	109,438	0.00					0	13,251.000	726,014.789
6	7171.00	35.15	4.72	0.30	7,717	110,677	5188.10	31.64	4.57	0.25	8,211	85,198	0.00					0	0.000	713,655.689
7	7764.20	30.02	4.69	0.26	8,348	* 129,636	0.00					0	0.00					0	15,223.100	721,114.589
8	7688.85	30.02	4.69	0.26	8,348	* 128,378	0.00					0	0.00					0	30,478.725	743,904.464
9	7632.20	28.54	5.44	0.35	8,448	* 128,949	0.00					0	0.00					0	13,021.000	749,293.264
10	7784.80	30.39	5.31	0.28	8,198	* 127,635	0.00					0	133.55	29.36	4.82	0.26	8,444	2,255	13,062.150	754,437.064
11	7829.80	31.17	4.88	0.33	8,211	* 128,587	0.00					0	0.00					0	28,074.375	774,681.639
12	7794.75	30.57	4.95	0.35	8,271	* 128,946	0.00					0	0.00					0	26,482.000	793,368.889
13	7671.85	31.31	5.05	0.34	8,197	* 125,767	0.00					0	353.60	29.36	4.82	0.26	8,444	5,971	15,146.175	800,489.614
14	7705.50	28.31	5.20	0.34	8,549	* 131,754	0.00					0	6326.70	29.36	4.82	0.26	8,444	106,841	0.000	786,457.414
15	7163.90	30.21	5.21	0.33	8,347	119,597	0.00					0	7059.50	29.36	4.82	0.26	8,444	119,217	30,467.300	802,701.314
16	7585.00	29.74	4.65	0.31	8,401	* 127,450	845.25	28.73	4.36	0.23	8,559	14,470	7401.00	29.96	4.97	0.31	8,332	123,327	28,140.000	815,010.064
17	6935.45	30.21	4.68	0.30	8,353	115,864	6339.50	28.74	4.42	0.22	8,550	108,404	6626.65	30.18	4.61	0.22	8,330	110,393	14,971.050	810 [illegible]
18	6082.30	29.78	4.81	0.29	8,365	101,751	6306.35	28.29	4.23	0.22	8,617	108,686	6001.70	31.52	4.27	0.27	8,246	98,979	27,706.275	819 [illegible]
19	6616.35	29.83	4.37	0.30	8,453	111,850	6424.65	27.67	4.30	0.23	8,669	111,391	6615.70	28.59	4.51	0.31	8,552	113,159	26,914.000	826,6[illegible].739
20	7125.15	30.31	4.58	0.32	8,340	118,842	6847.15	27.79	4.66	0.29	8,635	118,248	6983.65	28.72	4.76	0.30	8,506	118,800	13,144.000	818,840.789
21	6989.85	26.37	4.47	0.30	8,831	123,458	6808.10	31.08	4.52	0.30	8,214	111,849	6907.85	27.03	4.72	0.24	8,730	120,606	0.000	798,134.989
22	7202.65	28.21	4.79	0.26	8,659	* 124,736	6891.00	31.08	4.52	0.30	8,214	113,211	7132.65	30.23	4.85	0.29	8,317	118,649	15,016.025	791,924.714
23	7127.25	28.21	4.79	0.26	8,659	123,430	7123.55	31.08	4.52	0.30	8,214	117,031	7216.75	24.91	5.05	0.30	8,944	* 129,096	28,229.900	798,687.064
24	7564.65	28.21	4.79	0.26	8,659	* 131,005	7335.85	31.08	4.52	0.30	8,214	120,519	7614.00	30.63	5.02	0.31	8,277	* 126,047	30,488.275	806,660.839
25	7151.80	28.21	4.79	0.26	8,659	123,855	7029.35	30.40	4.86	0.32	8,337	117,202	7086.75	28.74	5.33	0.31	8,476	120,130	27,640.900	813,033.839
26	7993.65	28.21	4.79	0.26	8,659	* 138,434	7684.15	32.13	4.59	0.34	8,171	* 125,577	6815.65	28.13	5.16	0.26	8,606	117,318	26,311.750	816,852.139
27	7521.90	29.55	4.61	0.30	8,494	* 127,781	7243.05	29.14	5.09	0.28	8,507	123,229	2621.85	29.84	4.89	0.30	8,447	44,292	13,154.000	812,619.339
28	7552.95	26.63	5.20	0.31	8,792	* 132,806	7266.90	26.78	5.08	0.27	8,779	* 127,590	2590.15	26.75	4.92	0.32	8,827	45,728	0.000	795,209.339
29	7166.35	29.15	4.88	0.24	8,493	121,721	6980.20	31.73	4.69	0.28	8,156	113,858	2642.55	32.05	4.91	0.35	8,141	43,027	13,169.500	791,589.739
30	7492.00	30.06	4.92	0.33	8,360	* 125,272	7244.90	31.55	4.55	0.30	8,224	119,168	1469.35	32.05	4.91	0.35	8,141	23,924	27,940.300	803,323.789
31	7417.80	30.81	4.85	0.31	8,250	122,399	7383.25	29.83	4.78	0.36	8,388	* 123,862	2302.25	30.30	4.96	0.33	8,326	38,337		786,220.489
Total	226535.00	29.76	4.84	0.30	8,399	3,805,443	144062.10	30.19	5.04	0.28	8,355	2,407,271	121519.45	29.16	4.85	0.28	8,465	2,057,389	577,821.250	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	521.50	3,805,443
Unit # 2	4990.16	2,407,271
Unit # 3	4961.60	2,057,389

* Fuel key
B = blended oil
2 = #2 Fuel Oil

6.00	4
5.85	5
	6

AT 8, 19 8/9/42

SWEPCO
WELSH
SEPT.2003

	Unit 1						Unit 2						Unit 3						Starting Inv.	814943.739
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	7862.05	31.72	4.92	0.37	8,103	* 127,407	56.25	29.87	4.60	0.25	8,339	938	35.60	28.86	5.56	0.24	8,344	594	15,241.275	822,231.114
2	8298.20	35.50	4.77	0.36	7,608	* 126,269	4890.25	31.12	4.66	0.28	8,178	79,981	0.00					0	28,359.125	837,401.789
3	7794.45	32.41	4.53	0.31	8,069	* 125,783	7364.85	30.91	4.72	0.38	8,232	121,257	3617.40	30.19	5.48	0.21	8,215	59,431	0.000	818,625.089
4	7867.25	32.88	4.71	0.29	7,981	* 125,583	7442.85	31.53	4.50	0.26	8,192	121,939	7732.55	31.44	4.56	0.26	8,173	* 126,395	0.000	795,582.439
5	7321.65	31.94	4.78	0.31	8,071	118,184	6928.30	31.51	4.60	0.28	8,179	113,332	7127.15	31.14	4.51	0.26	8,250	117,597	39,755.100	813,960.439
6	7217.75	28.92	5.14	0.27	8,434	121,749	6820.90	29.40	5.70	0.26	8,251	112,553	6000.15	29.52	4.81	0.25	8,396	100,752	29,682.925	823,604.564
7	7088.25	29.93	5.07	0.26	8,320	117,944	6723.25	30.64	4.70	0.26	8,305	111,675	5852.10	29.74	4.78	0.26	8,348	97,705	12,975.450	816,916.414
8	7185.35	29.93	5.07	0.26	8,320	119,559	6946.20	32.41	4.55	0.29	8,051	111,841	6140.25	29.35	4.93	0.27	8,373	102,828	0.000	796,644.614
9	7100.55	29.93	5.07	0.26	8,320	118,148	6821.50	28.93	4.68	0.24	8,469	115,543	5993.50	31.02	5.07	0.33	8,110	97,219	15,182.625	791,911.689
10	7715.15	29.93	5.07	0.26	8,320	* 128,375	7370.90	28.87	4.54	0.24	8,490	* 125,160	6188.00	30.61	4.73	0.33	8,233	101,889	28,331.575	798,969.214
11	7958.65	29.49	4.96	0.32	8,362	* 133,099	7498.55	29.41	4.51	0.29	8,443	* 126,613	6293.95	28.92	4.56	0.34	8,452	106,391	13,321.325	790,539.389
12	6796.90	27.23	4.46	0.24	8,728	118,641	6533.00	26.29	4.49	0.28	8,816	115,190	5926.05	29.99	4.65	0.26	8,321	98,627	12,908.000	784,191.439
13	7842.85	30.65	4.31	0.26	8,294	* 130,093	7066.25	29.08	4.46	0.21	8,471	119,714	7348.00	32.76	4.27	0.31	8,015	117,787	28,404.250	790,338.589
14	7246.85	30.64	4.86	0.26	8,104	117,456	6952.00	28.24	4.60	0.19	8,540	118,742	7091.15	32.83	4.73	0.29	7,971	113,044	13,948.000	782,996.589
15	7484.10	32.83	4.62	0.34	7,969	119,275	7179.75	33.75	4.59	0.34	7,861	112,874	7281.05	30.18	4.68	0.25	8,300	120,863	12,956.950	774,008.639
16	7102.00	31.52	4.67	0.30	8,153	115,798	6966.60	30.33	4.66	0.34	8,252	114,982	7124.35	30.53	4.84	0.31	8,257	117,647	29,811.250	782,626.939
17	7406.80	31.52	4.67	0.30	8,153	120,768	7042.55	30.26	4.84	0.33	8,291	116,782	6882.80	28.82	4.77	0.25	8,500	117,003	0.000	76[illegible]9
18	1599.85	31.52	4.67	0.30	8,153	26,086	7366.20	30.26	4.84	0.33	8,291	122,148	7405.10	28.82	4.77	0.25	8,500	* 125,881	12,820.000	75[illegible]9
19	2382.25	30.74	4.92	0.36	8,267	39,390	6384.45	30.26	4.84	0.33	8,291	105,869	6635.50	28.82	4.77	0.25	8,500	112,799	13,308.775	755,[illegible]214
20	7153.35	30.74	4.92	0.36	8,267	118,278	6766.85	30.26	4.84	0.33	8,291	112,210	6869.75	33.10	4.50	0.28	7,988	109,754	13,619.625	748,479.889
21	6795.80	30.74	4.92	0.36	8,267	112,366	6529.70	30.26	4.84	0.33	8,291	108,277	6620.60	32.65	4.41	0.28	8,093	107,158	26,305.825	754,839.614
22	7610.30	29.37	4.80	0.31	8,438	* 128,427	7245.35	28.01	4.65	0.31	8,632	* 125,090	588.10	32.65	4.41	0.28	8,093	9,519	0.000	739,395.864
23	7357.15	29.26	4.67	0.31	8,416	* 123,838	6991.70	30.78	4.35	0.28	8,356	116,849	0.00					0	15,341.000	740,388.014
24	7362.45	29.73	4.52	0.23	8,497	125,111	6944.70	27.83	5.40	0.31	8,559	118,886	673.35	28.72	5.32	0.28	8,492	11,436	15,244.375	740,651.889
25	7057.90	29.40	5.05	0.27	8,378	118,259	6734.70	32.75	4.30	0.26	8,091	108,979	7146.35	28.72	5.32	0.28	8,492	121,367	12,507.000	732,219.939
26	7250.65	29.91	4.82	0.29	8,388	121,641	6985.00	30.73	4.78	0.28	8,305	116,023	7008.50	28.72	5.32	0.28	8,492	119,026	28,191.275	739,167.064
27	7184.00	31.23	4.42	0.29	8,290	119,111	6652.25	33.22	4.57	0.28	7,996	106,381	7005.10	31.23	4.54	0.30	8,283	116,050	26,874.500	745,200.214
28	6099.10	30.51	4.39	0.27	8,409	102,574	6198.75	33.22	4.57	0.28	7,996	99,129	6234.70	32.83	4.13	0.25	8,146	101,573	13,395.500	740,063.164
29	6613.30	30.51	4.39	0.27	8,409	111,222	6386.05	30.33	4.72	0.26	8,356	106,725	6438.45	29.95	4.40	0.27	8,447	108,775	14,624.400	735,249.764
30	6834.95	30.51	4.39	0.27	8,409	114,949	6773.55	30.33	4.72	0.26	8,356	113,201	6955.70	29.30	4.80	0.32	8,529	118,650	15,107.225	729,792.789
31						0						0						0		729,792.789
Total	208589.85	30.72	4.75	0.30	8,259	3,445,384	198563.20	30.36	4.70	0.29	8,307	3,298,884	166215.25	30.47	4.72	0.28	8,296	2,757,759	488,217.350	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	1552.18	3,445,384

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 2	1861.02	3,298,884

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 3	2595.88	2,757,759

* Fuel key
B = blended oil 6.00
2 = #2 Fuel Oil 5.85

4
5
6

Att 8, Pg 10 of 42

SWEPCO
WELSH
August 2003

	Unit #1						Unit #2						Unit #3						Starting Inv: 880170.764	
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	7597.35	28.63	4.94	0.27	8,395	127,563	7291.00	30.28	4.80	0.25	8,130	118,554	7492.35	32.23	4.73	0.36	8,007	119,983	30,024.900	887,814.964
2	7730.35	30.92	4.54	0.31	8,207	126,884	7314.10	32.67	4.52	0.27	7,948	116,263	7653.00	30.83	4.59	0.30	8,172	125,078	0.000	865,117.514
3	7499.10	31.10	4.62	0.37	8,176	122,619	7237.65	31.76	4.68	0.28	8,052	116,558	7444.10	29.97	4.61	0.30	8,261	122,987	41,624.375	884,561.039
4	7472.05	31.54	4.90	0.36	8,050	120,296	7291.40	30.04	5.02	0.40	8,247	120,258	7426.25	29.97	4.61	0.30	8,261	122,692	0.000	862,371.339
5	7963.00	30.33	5.21	0.40	8,182	130,308	7709.20	28.87	5.12	0.40	8,369	129,032	7985.50	29.97	4.61	0.30	8,261	131,932	15,191.325	853,904.964
6	7947.40	31.20	4.97	0.30	8,141	129,403	7413.95	30.78	4.88	0.28	8,173	121,193	7630.50	29.97	4.61	0.30	8,261	126,067	13,701.075	844,614.189
7	8001.95	31.79	4.76	0.37	8,122	129,982	7662.20	24.18	5.34	0.43	8,898	136,351	7833.55	31.73	4.96	0.38	8,024	125,715	12,927.000	834,043.489
8	7994.75	32.00	4.65	0.37	8,052	128,751	7582.15	28.41	5.03	0.40	8,399	127,360	7037.80	31.92	4.95	0.29	8,002	112,637	0.000	811,428.789
9	7789.60	32.06	4.69	0.37	8,017	124,905	7348.90	26.81	5.11	0.41	8,608	126,524	0.00					0	14,933.000	811,223.289
10	2859.60	32.06	4.69	0.37	8,017	45,853	6878.60	29.90	4.54	0.23	8,329	114,588	58.10	31.92	4.95	0.29	8,002	930	26,675.125	828,102.114
11	0.00					0	7230.15	29.32	4.71	0.33	8,336	120,539	5784.35	31.60	4.79	0.32	8,004	92,600	0.000	815,087.614
12	3840.10	30.53	4.48	0.27	8,212	63,071	7366.35	32.84	5.03	0.42	7,850	115,659	7438.75	31.41	4.64	0.30	8,095	120,437	29,812.700	826,255.114
13	0.00					0	7284.85	32.38	4.96	0.38	7,923	115,431	7452.05	32.67	4.85	0.38	7,917	118,000	13,698.825	825,217.039
14	5026.75	29.27	4.27	0.28	8,538	85,836	7171.45	32.16	4.60	0.37	8,090	116,032	7393.25	32.67	4.85	0.38	7,917	117,068	15,067.050	820,692.639
15	7646.70	28.61	4.08	0.24	8,637	132,090	7155.10	30.26	5.03	0.31	8,306	118,864	7325.85	32.67	4.85	0.38	7,917	116,001	12,889.000	811,453.989
16	7272.15	27.42	5.10	0.22	8,632	125,551	7267.10	30.26	5.03	0.31	8,306	120,725	7316.65	28.34	4.29	0.24	8,638	126,399	12,952.275	802,550.364
17	7479.35	28.64	4.70	0.29	8,450	126,401	6909.35	30.26	5.03	0.31	8,306	114,782	7262.55	30.74	4.51	0.26	8,322	120,875	30,164.525	81[illegible]39
18	7838.05	30.43	5.09	0.46	8,256	129,417	7575.20	19.69	6.08	0.41	9,350	141,654	7627.45	29.75	4.65	0.36	8,392	128,019	13,077.225	80[illegible]54
19	7826.80	31.75	4.75	0.30	8,004	125,284	7647.90	18.96	5.95	0.42	9,392	143,654	7850.90	31.11	4.63	0.36	8,195	128,671	0.000	777[illegible].564
20	7843.50	30.88	4.50	0.29	8,254	129,488	7573.50	21.21	5.52	0.43	9,197	139,310	7552.05	30.83	4.74	0.40	8,223	124,197	14,713.000	769,518.514
21	7888.50	31.79	4.54	0.32	8,138	128,385	7690.65	33.11	4.62	0.37	7,965	122,509	7953.25	32.14	4.70	0.36	8,090	126,689	27,243.925	773,230.039
22	7337.80	30.88	4.66	0.35	8,256	121,159	7491.00	32.04	4.53	0.38	8,108	121,473	7732.50	32.95	4.41	0.32	8,013	123,914	29,744.450	780,413.189
23	0.00					0	7096.25	26.48	5.04	0.45	8,763	124,371	7809.35	31.56	4.83	0.22	8,109	126,653	30,972.000	796,479.589
24	0.00					0	6843.00	29.11	4.67	0.17	8,431	115,386	6980.10	30.91	4.82	0.23	8,204	114,532	12,953.025	795,609.514
25	0.00					0	7636.35	29.11	4.67	0.17	8,431	128,764	7830.60	30.91	4.82	0.23	8,204	128,487	28,353.975	808,496.539
26	0.00					0	7591.55	29.11	4.67	0.17	8,431	128,008	7871.60	30.91	4.82	0.23	8,204	129,160	15,211.000	808,244.389
27	3322.20	30.88	4.66	0.35	8,256	54,855	7429.70	29.11	4.67	0.17	8,431	125,279	7581.30	28.86	5.56	0.24	8,344	126,509	14,695.000	804,606.189
28	7948.10	32.81	4.47	0.37	7,995	127,090	7544.75	29.04	4.90	0.29	8,371	126,308	7705.45	28.86	5.56	0.24	8,344	128,581	14,468.375	795,876.264
29	7880.85	30.85	5.04	0.32	8,158	128,591	7603.80	29.87	4.60	0.25	8,339	126,811	7707.50	28.86	5.56	0.24	8,344	128,615	25,815.075	798,499.189
30	7714.90	32.27	5.11	0.33	7,997	123,393	2381.00	29.87	4.60	0.25	8,339	39,709	7483.50	28.86	5.56	0.24	8,344	124,877	15,215.000	796,134.789
31	7698.05	31.67	5.10	0.33	8,058	124,059	0.00					0	490.15	28.86	5.56	0.24	8,344	8,179	26,997.150	814,943.739
Total	177418.95	30.83	4.76	0.33	8,204	2,911,235	216218.15	28.87	4.94	0.33	8,399	3,631,949	210710.30	30.82	4.83	0.30	8,183	3,448,486	539,120.375	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	3554.04	2,911,235
Unit # 2	494.48	3,631,949
Unit # 3	1162.84	3,448,486

* Fuel key
B = blended oil
2 = #2 Fuel Oil

	6.00	4
	5.85	5
		6

AT 8,
BS 11 of 12

WELSH

SWEPCO
WELSH
JULY 2003

	Unit #1						Unit #2						Unit #3						Starting Inv	974835.964
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	7665.10	30.08	4.68	0.27	8,337	127,812	7256.05	31.63	4.46	0.28	8,117	117,796	7448.95	37.87	4.26	0.34	7,414	110,456	14,947.550	964,413.414
2	4892.70	30.08	4.68	0.27	8,337	81,584	7351.60	31.29	4.91	0.35	8,121	119,406	7559.15	31.31	5.02	0.30	8,098	122,430	15,079.725	959,689.689
3	7463.30	31.62	5.27	0.38	8,059	120,294	7170.00	31.50	5.10	0.37	8,120	116,435	7315.30	31.92	5.40	0.37	8,006	117,126	29,198.550	966,939.639
4	7602.40	29.64	5.27	0.30	8,285	125,965	7195.90	29.55	5.31	0.41	8,281	119,180	7428.50	30.09	5.14	0.41	8,264	122,772	28,844.875	973,557.714
5	7373.55	30.09	5.36	0.31	8,225	121,294	7123.95	31.55	5.10	0.37	7,972	113,589	7391.80	29.33	4.74	0.32	8,376	123,833	41,329.950	992,998.364
6	7099.20	30.09	5.36	0.31	8,225	116,781	6666.25	31.01	5.07	0.39	8,163	108,837	6874.20	30.14	4.83	0.30	8,308	114,226	12,918.675	985,277.389
7	7754.25	28.65	4.69	0.27	8,520	132,127	7276.25	30.20	4.50	0.27	8,406	122,329	7534.10	31.23	4.91	0.34	8,180	123,260	15,126.300	977,839.089
8	7673.95	29.51	4.91	0.34	8,459	129,833	7393.10	29.46	4.74	0.33	8,371	123,779	7732.50	31.94	4.37	0.31	8,159	126,174	0.000	955,039.539
9	7434.75	30.33	4.64	0.33	8,345	124,090	7106.00	31.49	4.57	0.35	8,188	116,374	7405.10	31.94	4.37	0.31	8,159	120,832	30,671.000	963,764.689
10	7254.85	30.33	4.64	0.33	8,345	121,088	7028.60	25.48	5.04	0.27	8,869	124,674	7410.35	29.30	5.54	0.28	8,399	124,486	0.000	942,070.889
11	7884.55	32.90	5.02	0.36	7,909	124,716	7589.70	29.42	4.72	0.36	8,472	128,602	7823.60	29.44	4.97	0.42	8,433	131,946	28,810.450	947,583.489
12	7659.55	30.56	4.64	0.34	8,321	127,477	7382.10	32.81	4.94	0.34	8,007	118,210	7505.15	29.44	4.97	0.42	8,433	126,575	26,677.350	951,714.039
13	7378.45	27.90	4.55	0.28	8,661	127,810	7357.90	28.02	4.65	0.24	8,616	126,796	7452.25	29.44	4.97	0.42	8,433	125,683	43,042.000	972,567.439
14	7340.95	28.61	4.28	0.23	8,571	125,844	7005.60	27.60	4.33	0.22	8,678	121,596	7190.60	28.50	4.17	0.22	8,584	123,443	12,930.225	963,960.514
15	7459.10	28.60	4.51	0.32	8,530	127,257	7139.40	25.28	4.64	0.24	8,942	127,685	7425.15	26.47	4.32	0.24	8,777	130,340	0.000	941,936.864
16	7766.40	30.89	4.70	0.29	8,192	127,247	7385.30	29.01	4.38	0.21	8,445	124,735	7395.25	29.92	4.60	0.23	8,414	124,442	15,181.225	934,57[illegible]139
17	7686.30	29.15	4.75	0.34	8,435	129,669	7465.05	29.96	4.65	0.34	8,332	124,391	7635.45	28.32	4.96	0.39	8,513	130,004	15,432.000	927[illegible]9
18	7742.65	29.07	4.91	0.29	8,378	129,741	7437.25	30.21	4.62	0.25	8,287	123,261	7581.00	30.73	4.69	0.25	8,175	123,951	14,591.325	918[illegible]4
19	7990.30	30.64	4.69	0.37	8,251	131,858	7574.00	28.99	5.24	0.35	8,325	126,112	7728.75	30.79	4.75	0.41	8,194	126,662	28,705.400	924,4[illegible].114
20	7499.80	30.36	5.07	0.39	8,222	123,334	7206.75	30.55	4.83	0.37	8,208	118,302	7595.95	31.64	4.73	0.34	8,098	123,017	26,062.500	928,219.114
21	1070.60	31.05	4.52	0.39	8,253	17,672	7604.05	30.66	4.92	0.42	8,226	125,101	7824.85	30.39	4.67	0.29	8,318	130,176	26,724.850	938,444.464
22	89.90	31.12	5.32	0.39	8,088	1,454	7583.10	30.85	4.48	0.30	8,239	124,952	7821.40	30.39	4.67	0.29	8,318	130,119	14,982.000	937,932.064
23	5821.15	30.69	4.82	0.37	8,259	96,153	6994.45	30.13	4.62	0.30	8,338	116,642	7154.15	30.39	4.67	0.29	8,318	119,018	28,050.200	946,012.514
24	7292.30	30.08	4.68	0.27	8,337	121,596	6936.80	30.13	4.62	0.30	8,338	115,680	7090.15	29.52	5.09	0.32	8,410	119,254	0.000	924,693.264
25	7366.75	30.08	4.68	0.27	8,337	122,837	7172.95	30.13	4.62	0.30	8,338	119,618	7347.75	29.80	4.72	0.38	8,362	123,184	15,337.000	918,142.814
26	7508.65	30.08	4.68	0.27	8,337	125,203	7218.65	30.13	4.62	0.30	8,338	120,380	7362.75	30.78	4.51	0.38	8,296	122,157	28,647.900	924,700.664
27	7555.35	30.08	4.68	0.27	8,337	125,982	7276.85	30.13	4.62	0.30	8,338	121,351	7080.00	29.72	4.88	0.40	8,377	118,618	13,131.850	915,920.314
28	7885.85	29.02	4.67	0.29	8,460	133,430	7503.10	29.42	4.67	0.24	8,315	124,771	7699.35	29.78	4.87	0.35	8,351	128,591	12,892.000	905,724.014
29	7631.30	31.37	4.41	0.29	8,217	125,411	7335.80	30.34	5.13	0.44	8,226	120,685	7471.20	30.15	5.00	0.43	8,279	123,710	28,858.300	912,144.014
30	7538.45	28.58	4.51	0.27	8,556	129,001	7276.75	31.25	4.60	0.29	8,116	118,122	7443.75	30.49	4.83	0.36	8,271	123,140	12,928.250	902,813.314
31	7691.95	30.12	4.65	0.33	8,316	127,929	7351.30	29.26	4.89	0.33	8,292	121,907	7599.30	33.53	4.83	0.34	8,271	125,713	0.000	880,170.764
Total	216074.35	29.98	4.77	0.31	8,336	3,602,488	225364.55	29.92	4.76	0.32	8,323	3,751,299	231327.75	30.48	4.79	0.34	8,290	3,835,340	581,101.450	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	2192.96	3,602,488

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 2	143.36	3,751,299

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 3	214.62	3,835,340

* Fuel key
B = blended oil
2 = #2 Fuel Oil

6.00 4
5.85 5
6

AT 8,
Pg 12 of 92

SWEPCO
WELSH
JUNE 2003

	Unit #1						Unit #2						Unit #3						Starting Inv.: 992774.189	
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	4722.30	28.69	4.69	0.27	8,482	80,108	6658.90	27.66	5.02	0.39	8,636	115,009	6826.75	29.97	4.50	0.26	8,376	114,361	13,324.000	987,890.239
2	7448.75	29.14	4.48	0.22	8,499	126,614	7009.50	27.64	4.46	0.27	8,671	121,559	7156.65	28.25	5.22	0.21	8,488	121,497	30,562.000	996,837.339
3	7102.40	29.65	4.59	0.23	8,446	119,971	6789.35	29.76	4.59	0.22	8,418	114,305	6956.05	30.32	4.38	0.22	8,405	116,934	27,955.475	1,003,945.014
4	7281.10	29.65	4.59	0.23	8,446	122,989	6475.80	32.88	4.57	0.33	7,987	103,450	6645.45	31.42	4.88	0.32	8,174	108,646	41,196.475	1,024,739.139
5	6420.70	30.74	4.61	0.27	8,308	106,683	6217.20	27.33	5.09	0.28	8,639	107,422	6288.70	30.44	4.65	0.35	8,321	104,656	0.000	1,005,812.539
6	7034.95	30.82	4.92	0.21	8,200	115,377	6739.00	27.53	5.01	0.26	8,609	116,031	6908.00	30.32	4.44	0.30	8,370	115,639	13,058.000	998,188.589
7	7069.40	30.82	4.92	0.21	8,200	115,942	6757.65	30.63	4.54	0.30	8,311	112,329	6951.50	30.97	4.64	0.32	8,211	114,323	0.000	977,400.039
8	6767.85	30.82	4.92	0.21	8,200	110,996	6458.20	31.03	4.72	0.26	8,282	106,978	6588.05	31.09	4.69	0.31	8,291	109,240	28,401.300	985,987.239
9	7199.45	30.48	4.61	0.22	8,290	119,364	6908.95	29.06	4.39	0.24	8,498	117,426	7041.10	27.12	4.55	0.24	8,745	123,149	29,671.675	994,509.414
10	7314.90	31.13	5.53	0.32	8,088	118,321	7127.05	32.45	4.82	0.30	8,043	114,649	7313.60	27.92	5.00	0.25	8,594	125,704	15,467.000	988,220.864
11	6649.90	30.07	5.70	0.31	8,259	109,842	6896.35	30.63	4.44	0.27	8,285	114,279	7147.40	29.73	4.82	0.22	8,399	120,068	28,115.725	995,642.939
12	6403.20	30.10	4.70	0.35	8,344	106,853	6556.00	30.87	4.43	0.33	8,258	108,273	6698.75	31.73	4.39	0.35	8,157	109,284	28,045.575	1,004,030.564
13	7224.20	32.09	4.44	0.34	8,100	117,036	6805.50	30.14	4.59	0.36	8,326	113,325	6199.05	31.03	4.85	0.36	8,198	101,645	28,279.000	1,012,080.814
14	7087.80	32.27	4.13	0.25	8,131	115,262	7356.25	28.83	4.61	0.21	8,502	125,079	0.00					0	12,932.900	1,010,569.664
15	7521.50	30.29	4.23	0.28	8,369	125,902	7230.00	31.32	4.13	0.28	8,237	119,108	1944.95	31.03	4.85	0.36	8,198	31,891	30,173.150	1,024,046.364
16	7233.85	30.29	4.23	0.28	8,369	121,087	6823.00	30.14	5.10	0.35	8,342	113,835	7222.35	30.17	4.37	0.27	8,438	121,877	15,042.000	1,017,809.164
17	7353.50	30.29	4.23	0.28	8,369	123,090	7100.65	31.97	4.14	0.28	8,153	115,784	7256.05	30.38	4.47	0.23	8,343	121,074	14,464.175	1,010 9
18	7208.05	28.56	4.68	0.28	8,521	122,841	6916.05	29.58	4.67	0.24	8,417	116,419	7055.30	30.38	4.47	0.23	8,343	117,724	29,025.325	1,018 4
19	7518.40	27.76	4.70	0.26	8,607	129,418	7158.15	31.36	4.41	0.32	8,199	117,374	7223.30	30.54	4.69	0.26	8,312	120,086	0.000	996,509.214
20	7578.45	28.95	5.10	0.28	8,467	128,332	7206.65	29.44	4.45	0.29	8,420	121,359	7340.90	31.24	4.33	0.30	8,239	120,957	27,488.550	1,001,871.764
21	7361.70	28.75	4.39	0.32	8,565	126,111	7078.80	29.88	4.62	0.32	8,359	118,347	7225.20	30.25	4.61	0.30	8,311	120,092	28,128.375	1,008,334.439
22	7021.60	28.36	4.40	0.28	8,589	120,624	6645.00	29.57	4.51	0.29	8,396	111,582	6749.05	29.62	4.62	0.29	8,410	113,516	13,000.050	1,000,918.839
23	7584.85	32.75	4.37	0.31	8,036	121,908	7187.20	32.45	4.92	0.38	8,021	115,300	7383.80	30.38	4.72	0.38	8,294	122,482	15,169.450	993,932.439
24	7767.40	30.59	6.05	0.30	8,106	125,919	7362.75	30.96	4.75	0.35	8,208	120,864	7542.10	27.61	6.39	0.30	8,537	128,771	15,346.000	986,606.189
25	7837.20	30.18	4.31	0.26	8,243	129,203	7334.50	32.13	4.36	0.32	8,103	118,869	7572.30	30.58	4.79	0.35	8,255	125,024	28,855.325	992,717.514
26	7438.95	30.51	4.21	0.25	8,334	123,992	7246.35	29.14	4.85	0.34	8,428	122,144	7270.95	31.58	4.59	0.32	8,127	118,176	29,031.425	999,792.689
27	6969.70	29.64	4.56	0.29	8,430	117,513	6671.75	26.54	4.90	0.33	8,697	116,048	7254.45	31.44	4.50	0.36	8,239	119,532	13,060.525	991,957.314
28	7283.65	30.53	4.54	0.32	8,272	120,501	6825.45	30.98	4.62	0.34	8,215	112,144	7058.40	32.27	4.20	0.28	8,124	114,688	15,231.000	986,020.814
29	7055.25	29.06	4.82	0.23	8,449	119,225	6784.30	29.94	4.46	0.25	8,372	113,594	6861.20	32.27	4.20	0.28	8,124	111,484	27,685.400	993,005.464
30	7227.55	29.06	4.82	0.23	8,449	122,137	6856.65	31.40	4.53	0.32	8,179	112,159	7085.30	32.19	4.65	0.37	8,071	114,370	0.000	971,835.964
31						0						0						0		971,835.964
Total	213688.50	30.08	4.68	0.27	8,337	3,563,160	207182.95	30.13	4.62	0.30	8,338	3,455,046	198776.65	30.39	4.67	0.29	8,318	3,306,893	598,709.875	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	1502.34	3,563,160

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 2	379.82	3,455,046

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 3	940.80	3,306,893

* Fuel key
B = blended oil 6.00 4
2 = #2 Fuel Oil 5.85 5
6

A78
B13 of 42

SWEPCO
WELSH
MAY 2003

	Unit #1						Unit #2						Unit #3						Starting Inv.	1140069.714
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	0.00					0	6878.10	30.10	5.40	0.30	8,270	113,764	7292.85	30.40	5.00	0.30	8,286	120,857	0.000	1,125,898.764
2	0.00					0	7193.00	30.10	5.40	0.30	8,270	118,972	7326.35	30.40	5.00	0.30	8,286	121,412	13,662.675	1,125,042.089
3	0.00					0	6795.70	32.09	4.86	0.30	8,393	114,077	6938.65	30.40	5.00	0.30	8,286	114,987	29,893.225	1,141,200.964
4	0.00					0	6944.90	32.09	4.86	0.30	8,393	116,582	7108.05	29.24	4.67	0.31	8,453	120,163	0.000	1,127,148.014
5	93.00	31.00	4.80	0.30	8,241	1,533	7315.90	24.86	5.49	0.22	8,913	* 130,408	7456.15	31.39	4.40	0.21	8,220	122,575	15,210.000	1,127,492.964
6	7.75	31.00	4.80	0.30	8,241	128	6874.25	24.56	5.68	0.21	8,940	122,909	7020.00	31.99	4.73	0.33	7,991	112,193	43,016.825	1,156,607.789
7	757.50	31.00	4.80	0.30	8,241	12,485	7176.35	30.61	5.54	0.20	8,315	119,336	7389.75	32.82	4.74	0.33	7,839	115,863	0.000	1,141,284.189
8	4216.35	31.73	4.58	0.26	8,144	68,678	7389.65	31.58	4.96	0.32	8,117	119,962	7632.45	31.48	4.74	0.34	8,145	* 124,336	0.000	1,122,045.739
9	6826.45	31.19	4.77	0.26	8,202	111,978	7086.75	31.63	5.10	0.29	8,107	114,902	7246.20	31.64	4.63	0.32	8,142	117,991	0.000	1,100,886.339
10	129.30	31.19	4.77	0.26	8,202	2,121	7610.50	30.10	5.40	0.30	8,270	* 125,878	7836.90	31.62	4.80	0.29	8,160	* 127,894	14,627.025	1,099,936.664
11	3793.25	32.75	4.57	0.26	8,019	60,837	6314.25	30.10	5.40	0.30	8,270	104,438	6567.05	30.95	5.76	0.25	8,109	106,501	15,206.000	1,098,468.114
12	6855.25	32.75	4.57	0.26	8,019	109,946	6616.80	30.10	5.40	0.30	8,270	109,442	6813.85	30.31	4.54	0.25	8,329	113,509	28,234.575	1,106,416.789
13	6688.15	32.75	4.57	0.26	8,019	107,266	6498.05	30.10	5.40	0.30	8,270	107,478	6594.35	30.31	4.54	0.25	8,329	109,853	27,524.675	1,114,160.914
14	7141.10	32.75	4.57	0.26	8,019	114,531	7018.50	31.41	5.10	0.35	8,131	114,138	7221.05	32.03	4.82	0.33	8,114	117,178	0.000	1,092,780.264
15	7473.25	31.90	4.49	0.32	8,140	121,671	7206.45	30.56	4.28	0.28	8,379	120,767	7368.30	30.60	4.58	0.33	8,301	122,321	0.000	1,070,732.264
16	7082.85	30.13	4.96	0.27	8,270	117,150	6933.40	26.98	5.37	0.35	8,667	120,182	7192.25	30.37	4.51	0.31	8,337	119,918	0.000	1,049,523.764
17	6992.75	30.56	4.45	0.31	8,346	116,727	6775.50	29.85	4.41	0.30	8,459	114,623	6738.75	30.11	4.65	0.32	8,335	112,329	14,623.575	1,04[illegible]
18	6889.65	29.53	4.78	0.38	8,400	115,752	6640.50	30.22	4.72	0.31	8,329	110,614	6476.75	30.11	4.65	0.32	8,335	107,962	13,539.075	1,03[illegible]
19	6949.70	27.38	4.75	0.27	8,693	120,826	6686.05	30.86	4.90	0.26	8,210	109,784	6806.55	27.40	4.66	0.28	8,679	118,151	30,436.000	1,047,100.214
20	7393.45	29.64	4.64	0.28	8,374	* 123,820	6683.50	29.59	4.68	0.27	8,406	112,361	7307.15	30.59	4.44	0.25	8,214	120,048	27,370.625	1,053,152.739
21	7388.50	32.23	4.71	0.29	8,078	119,374	6995.75	30.97	4.61	0.35	8,231	115,158	7244.55	31.68	4.47	0.34	8,123	117,696	13,059.375	1,044,583.314
22	7391.45	30.46	4.88	0.30	8,291	122,558	6997.95	29.04	4.75	0.30	8,471	118,560	7364.80	30.35	4.95	0.35	8,298	122,228	0.000	1,022,829.114
23	7071.80	26.81	4.38	0.26	8,832	* 124,910	6808.60	29.16	4.69	0.28	8,463	115,238	7116.65	28.52	4.80	0.32	8,541	121,563	28,200.350	1,030,032.414
24	7247.95	28.27	4.65	0.33	8,576	* 124,323	6616.05	28.44	4.80	0.32	8,535	112,936	7087.75	30.16	4.44	0.32	8,345	118,294	0.000	1,009,080.664
25	6911.00	29.72	4.60	0.34	8,407	116,208	6992.50	28.59	4.73	0.31	8,527	119,256	7496.05	30.40	5.00	0.30	8,286	124,225	15,116.000	1,002,797.114
26	6878.00	28.08	4.37	0.26	8,627	118,667	6714.65	25.02	4.95	0.31	8,942	120,082	6898.10	30.40	5.00	0.30	8,286	114,315	28,707.375	1,011,013.739
27	7371.70	30.73	4.72	0.34	8,294	122,285	7085.50	25.02	4.95	0.31	8,942	* 126,714	7298.15	30.40	5.00	0.30	8,286	120,945	29,601.650	1,018,860.039
28	7542.20	30.84	4.72	0.34	8,270	* 124,748	7312.40	25.02	4.95	0.31	8,942	* 130,772	7451.00	30.40	5.00	0.30	8,286	123,478	25,988.700	1,022,543.139
29	7588.90	31.00	4.93	0.30	8,175	* 124,083	7271.40	30.05	4.89	0.35	8,328	121,105	7403.00	29.52	4.66	0.36	8,428	* 124,786	0.000	1,000,279.839
30	7097.45	29.27	4.56	0.25	8,486	120,455	6942.95	30.80	4.77	0.36	8,242	114,449	7009.70	29.25	4.65	0.28	8,444	118,387	27,595.800	1,006,825.539
31	164.20	29.27	4.56	0.25	8,486	2,787	6840.70	30.66	4.88	0.33	8,245	112,800	7046.45	28.82	4.68	0.31	8,496	119,736	0.000	992,774.189
Total	151942.90	30.41	4.65	0.29	8,312	2,525,847	215216.55	29.36	5.01	0.30	8,428	3,627,688	221749.60	30.47	4.76	0.30	8,279	3,671,693	441,613.525	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	4840.36	2,525,847

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 2	355.74	3,627,688

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 3	150.50	3,671,693

* Fuel key
B = blended oil 6.00 4
2 = #2 Fuel Oil 5.85 5
6

A 18
8/14/03

SWEPCO
WELSH
APRIL 2003

	Unit #1						Unit #2						Unit #3						Starting Inv.	1147432.814
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	6961.85	28.34	4.37	0.25	8,630	120,163	0.00					0	7168.05	28.44	4.85	0.30	8,536	122,379	14,591.375	1,147,894.289
2	7586.10	31.96	5.08	0.35	8,067	122,389	0.00					0	7559.95	31.92	4.73	0.33	8,126	122,871	14,583.625	1,147,331.864
3	7279.55	31.67	4.80	0.38	8,174	119,000	0.00					0	7288.50	32.64	4.92	0.38	8,059	117,475	15,083.000	1,147,846.814
4	7320.80	31.49	4.76	0.30	8,202	120,091	0.00					0	7282.50	30.49	4.78	0.31	8,294	120,797	29,064.550	1,162,308.064
5	7038.05	30.49	4.56	0.33	8,350	117,541	0.00					0	7110.05	31.94	4.72	0.36	8,127	115,566	28,198.425	1,176,358.389
6	7336.10	34.31	4.58	0.36	7,843	115,067	0.00					0	7282.50	29.97	4.87	0.33	8,368	121,874	0.000	1,161,739.789
7	7330.10	30.58	4.66	0.31	8,328	122,085	0.00					0	7350.30	30.14	4.82	0.33	8,304	122,074	0.000	1,147,059.389
8	7667.05	30.58	4.66	0.31	8,328	X 127,697	0.00					0	7628.85	31.54	4.71	0.31	8,149	X 124,328	0.000	1,131,763.489
9	7752.60	30.58	4.66	0.31	8,328	X 129,121	0.00					0	7330.35	33.27	4.43	0.27	7,998	117,255	0.000	1,116,680.539
10	7638.80	29.94	4.60	0.29	8,377	X 127,985	0.00					0	7457.90	27.31	4.83	0.32	8,741	X 130,379	14,370.675	1,115,954.514
11	7422.95	31.89	4.99	0.43	8,126	120,631	0.00					0	7064.40	32.39	4.80	0.37	8,057	113,833	29,177.700	1,130,644.864
12	6869.45	32.95	4.60	0.38	7,943	109,130	0.00					0	6849.25	30.60	4.81	0.42	8,326	114,057	15,050.775	1,131,976.939
13	6739.70	31.08	4.85	0.43	8,279	111,596	0.00					0	6378.25	30.60	4.81	0.42	8,326	106,214	28,181.725	1,147,040.714
14	7054.25	30.82	4.50	0.35	8,305	117,165	0.00					0	6142.20	30.60	4.81	0.42	8,326	102,283	0.000	1,133,844.264
15	7456.70	31.16	5.40	0.35	8,149	121,529	0.00					0	7288.75	29.75	5.09	0.31	8,367	121,968	15,359.000	1,134,457.814
16	7267.90	29.88	5.51	0.28	8,262	120,088	0.00					0	7122.80	29.34	5.84	0.26	8,366	119,174	0.000	1,120,067.114
17	7232.50	30.53	5.01	0.30	8,238	119,156	0.00					0	7121.85	29.34	5.84	0.26	8,366	119,158	0.000	1,105[illegible]4
18	6921.30	30.53	5.22	0.28	8,190	113,366	0.00					0	6816.15	29.70	5.15	0.23	8,341	113,709	13,668.575	1,105[illegible]9
19	6719.05	30.45	4.69	0.28	8,324	111,853	0.00					0	6634.10	27.25	6.31	0.26	8,495	112,713	29,783.850	1,122,0[illegible]389
20	6196.95	31.97	4.46	0.27	8,184	101,436	0.00					0	6120.50	27.25	6.29	0.28	8,403	102,858	30,348.600	1,140,105.739
21	7656.45	30.90	4.49	0.26	8,294	X 126,998	0.00					0	7663.00	30.14	4.63	0.32	8,360	X 128,132	15,205.150	1,139,991.439
22	7368.05	30.90	4.49	0.26	8,294	122,214	0.00					0	7293.40	32.20	4.09	0.27	8,204	119,663	12,930.200	1,138,260.189
23	7369.45	30.90	4.49	0.26	8,294	122,237	0.00					0	7304.00	31.00	4.67	0.34	8,191	119,659	0.000	1,123,586.739
24	7644.80	30.62	4.90	0.30	8,224	X 125,745	0.00					0	7526.65	30.39	4.60	0.30	8,296	X 124,885	0.000	1,108,415.289
25	5429.70	30.32	4.85	0.31	8,328	90,439	908.00	31.59	5.16	0.40	8,081	14,675	7589.80	30.93	4.86	0.28	8,245	X 125,156	13,677.275	1,108,165.064
26	128.45	30.32	4.85	0.31	8,328	2,139	5708.55	31.21	4.95	0.39	8,194	93,550	7206.25	32.10	4.53	0.36	8,129	117,165	30,183.500	1,125,305.314
27	0.00					0	7128.25	31.56	5.39	0.44	8,061	114,927	6880.90	29.68	5.48	0.27	8,253	113,582	15,213.000	1,126,509.164
28	0.00					0	6790.25	28.60	5.70	0.25	8,346	113,843	6952.45	30.56	5.81	0.24	8,201	114,040	14,982.000	1,127,748.464
29	0.00					0	6775.40	29.77	5.26	0.27	8,290	112,334	7054.95	28.51	5.53	0.26	8,423	118,850	12,913.050	1,126,831.164
30	0.00					0	7312.70	29.12	5.39	0.24	8,466	X 123,813	7539.75	30.06	5.36	0.28	8,250	X 124,411	28,091.000	1,140,069.714
31						0						0						0		1,140,069.714
Total	179388.65	31.00	4.77	0.32	8,241	2,956,862	34623.15	30.06	5.35	0.32	8,270	572,642	214008.35	30.36	5.02	0.31	8,286	3,546,505	420,657.050	

	Total for Month by Unit	
	Oil MMBTU	Coal MMBTU
Unit # 1	444.08	2,956,862

	Total for Month by Unit	
	Oil MMBTU	Coal MMBTU
Unit # 2	4662.84	572,642

	Total for Month by Unit	
	Oil MMBTU	Coal MMBTU
Unit # 3	141.26	3,546,505

* Fuel key
B = blended oil 6.00
2 = #2 Fuel Oil 5.85

4
5
6

A7 8,
B 15 of 42

SWEPCO
WELSH
March 2003

	Unit # 1						Unit # 2						Unit # 3						Starting Inv.	1122025.064
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	7347.15	29.64	4.84	0.33	8,435	123,954	6789.00	30.26	4.88	0.33	8,356	113,451	7394.10	31.21	4.81	0.32	8,266	122,247	27,804.700	1,128,299.514
2	7301.25	29.53	4.63	0.28	8,559	124,981	7304.50	30.53	4.81	0.33	8,304	121,313	7499.25	29.05	5.05	0.27	8,495	127,407	28,490.450	1,134,684.964
3	7395.80	29.48	4.81	0.35	8,431	124,704	7574.05	30.53	4.81	0.33	8,304	125,790	7703.90	30.67	4.54	0.28	8,340	128,507	30,412.950	1,142,424.164
4	7366.50	31.00	4.50	0.29	8,286	122,084	7113.20	30.53	4.81	0.33	8,304	118,136	7347.70	29.94	4.71	0.32	8,426	123,826	12,898.550	1,133,495.314
5	7715.65	31.00	4.50	0.29	8,286	127,874	7512.90	32.03	4.60	0.34	8,097	121,665	7811.50	29.94	4.71	0.32	8,426	131,642	14,524.100	1,124,979.164
6	7416.70	28.79	5.06	0.34	8,438	125,167	7346.95	30.51	4.72	0.31	8,258	121,343	7831.45	29.98	4.98	0.40	8,318	130,285	0.000	1,102,384.064
7	7019.55	28.79	5.06	0.34	8,438	118,465	6761.15	28.05	4.49	0.21	8,625	116,627	6978.05	29.97	4.78	0.36	8,333	116,297	45,220.050	1,126,845.364
8	5992.70	28.79	5.06	0.34	8,438	101,135	5820.80	30.89	4.19	0.27	8,340	97,092	6296.25	29.95	5.33	0.31	8,253	103,926	15,224.000	1,123,959.614
9	6492.05	28.79	5.06	0.34	8,438	109,563	6434.50	30.12	5.14	0.39	8,307	106,906	7077.00	28.72	5.38	0.26	8,464	119,796	26,451.425	1,130,407.489
10	7449.30	29.74	4.66	0.33	8,484	126,407	7012.20	30.59	4.63	0.31	8,322	116,713	7091.90	31.10	4.84	0.34	8,227	116,693	30,237.750	1,139,091.839
11	6877.70	32.02	4.36	0.33	8,173	112,425	6593.00	30.96	4.39	0.32	8,289	109,300	5920.10	30.15	4.79	0.37	8,371	99,119	27,617.250	1,147,318.289
12	6895.40	30.95	4.52	0.31	8,324	114,795	6646.50	29.66	4.54	0.38	8,529	113,370	6606.10	32.48	4.50	0.40	8,137	107,508	12,507.625	1,139,677.914
13	6321.05	30.80	4.67	0.30	8,304	104,982	6503.10	29.63	4.72	0.35	8,395	109,190	6176.60	29.08	4.89	0.34	8,573	105,908	15,344.000	1,136,021.164
14	6556.10	30.79	4.51	0.26	8,347	109,443	6772.80	32.55	4.22	0.22	8,116	109,935	6954.35	31.25	4.64	0.35	8,257	114,841	15,146.000	1,130,883.914
15	7135.30	30.28	4.65	0.33	8,373	119,481	6769.90	30.38	4.83	0.22	8,345	112,990	6864.30	29.91	4.83	0.29	8,399	115,310	14,897.000	1,125,011.414
16	7036.45	30.88	4.66	0.34	8,055	113,363	6894.40	31.25	4.39	0.30	8,248	113,727	6912.20	30.00	4.88	0.35	8,421	116,416	44,664.075	1,148,832.439
17	7314.00	32.00	4.41	0.33	8,211	120,114	7193.35	30.88	4.73	0.31	8,281	119,141	7154.45	30.00	4.88	0.35	8,421	120,496	29,953.400	1,157[illegible]39
18	7598.45	31.17	4.54	0.31	8,290	125,989	7380.95	29.13	4.71	0.33	8,489	125,321	53.70	30.00	4.88	0.35	8,421	904	25,766.950	1,16[illegible]39
19	7638.45	32.15	4.53	0.38	8,151	124,516	7494.70	30.67	4.44	0.34	8,340	125,011	0.00					0	30,375.800	1,183,[illegible].539
20	7749.75	31.24	4.73	0.30	8,248	127,838	7660.15	30.06	4.59	0.28	8,373	128,278	0.00					0	12,525.475	1,180,216.114
21	6636.85	30.66	4.66	0.28	8,284	109,965	6996.05	31.44	4.54	0.26	8,174	114,378	0.00					0	15,222.000	1,181,805.214
22	7844.25	29.84	4.91	0.29	8,380	131,464	7697.05	31.28	4.68	0.27	8,266	127,252	0.00					0	0.000	1,166,263.914
23	7450.20	29.96	4.89	0.28	8,365	124,646	7243.90	29.45	4.83	0.29	8,475	122,783	0.00					0	0.000	1,151,569.814
24	7863.15	30.76	4.80	0.30	8,364	131,542	7571.50	31.06	4.54	0.31	8,283	125,423	0.00					0	0.000	1,136,135.164
25	7551.60	29.83	4.81	0.30	8,409	127,009	7514.35	31.35	4.91	0.28	8,181	122,949	0.00					0	0.000	1,121,069.214
26	7716.80	31.37	4.54	0.31	8,278	127,763	7551.10	30.90	4.49	0.31	8,277	125,003	0.00					0	29,891.925	1,135,692.339
27	7745.50	30.50	4.48	0.26	8,293	128,466	7566.35	30.90	4.49	0.31	8,277	125,256	30.00	30.00	4.88	0.35	8,421	505	29,442.600	1,149,793.089
28	6855.45	34.45	4.38	0.34	8,315	114,006	6713.35	30.90	4.49	0.31	8,277	111,135	1780.40	30.00	4.88	0.35	8,421	29,986	28,292.750	1,162,736.639
29	7083.70	30.50	4.48	0.26	8,293	117,490	0.00					0	6484.65	28.79	4.37	0.25	8,582	111,296	15,082.000	1,164,250.289
30	7528.00	30.50	4.48	0.26	8,293	124,859	0.00					0	7380.05	28.79	4.37	0.25	8,582	126,664	13,218.725	1,162,560.964
31	7642.00	31.58	4.36	0.28	8,193	125,227	0.00					0	7486.15	28.65	4.66	0.33	8,551	128,032	0.000	1,147,432.814
Total	224537.00	30.58	4.66	0.31	8,328	3,739,717	198431.75	30.60	4.63	0.30	8,314	3,299,477	142834.15	29.98	4.80	0.32	8,393	2,397,610	591,210.650	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	284.62	3,739,717
Unit # 2	126.84	3,299,477
Unit # 3	1815.24	2,397,610

* Fuel key
B = blended oil
2 = #2 Fuel Oil

	6.00	4
	5.85	5
		6

A18
B16 A2

SWEPCO
WELSH
FEBRUARY 2003

	Unit 1						Unit 2						Unit 3						Starting Inv.	1105209.489
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	7167.15	29.99	4.78	0.29	8,366	119,925	7063.00	31.20	4.67	0.26	8,219	116,102	7583.50	29.06	5.07	0.29	8,336	* 126,436	0.000	1,083,395.839
2	6123.60	29.99	4.78	0.29	8,366	102,464	5936.80	30.17	4.20	0.23	8,379	99,486	6387.65	29.06	5.07	0.29	8,336	106,498	30,391.925	1,095,339.714
3	6633.05	28.69	5.87	0.41	8,392	111,329	6752.85	29.36	4.58	0.23	8,459	114,247	7034.15	28.81	4.38	0.24	8,583	120,750	12,994.775	1,087,914.439
4	7503.75	29.54	5.26	0.36	8,372	* 125,636	7427.75	30.51	4.67	0.34	8,303	123,348	7273.65	33.05	5.42	0.33	7,907	115,020	28,133.175	1,093,842.464
5	7384.60	31.60	5.08	0.36	8,104	119,887	7280.75	33.20	4.77	0.37	7,964	115,963	7446.75	33.17	4.70	0.35	7,974	118,759	26,995.975	1,098,726.339
6	7582.85	30.25	4.95	0.30	8,288	* 125,691	7335.00	31.17	4.50	0.31	8,221	120,606	7593.40	29.79	4.46	0.33	8,424	* 127,937	15,344.000	1,091,559.089
7	7144.25	31.30	4.55	0.33	8,226	117,540	6990.85	30.49	4.74	0.31	8,265	115,559	7248.05	30.20	4.53	0.29	8,320	120,613	0.000	1,070,175.939
8	7587.00	30.70	4.65	0.37	8,294	* 125,858	7412.15	30.15	4.62	0.35	8,341	123,651	7566.30	31.22	4.62	0.37	8,238	* 124,664	42,832.175	1,090,442.664
9	6872.50	29.35	4.92	0.31	8,395	115,395	6950.85	28.45	4.61	0.29	8,544	118,776	6956.50	29.62	4.73	0.30	8,396	116,811	15,225.000	1,084,887.814
10	6821.80	30.38	4.88	0.34	8,307	113,336	6983.80	31.93	4.67	0.34	8,132	113,579	6988.25	31.92	4.78	0.36	8,095	113,146	14,582.825	1,078,676.789
11	6548.05	30.38	4.88	0.34	8,307	108,788	6448.45	32.16	4.56	0.33	8,158	105,212	6819.50	31.50	4.61	0.34	8,239	112,379	40,969.775	1,099,830.564
12	6988.15	30.38	4.88	0.34	8,307	116,100	6913.85	29.06	4.24	0.31	8,557	118,327	7014.00	29.79	5.08	0.28	8,330	116,847	30,520.000	1,109,434.564
13	7064.90	29.30	4.88	0.28	8,448	119,362	6962.90	30.14	4.14	0.26	8,382	116,720	7176.70	30.02	4.48	0.27	8,416	120,800	27,928.750	1,116,158.814
14	6417.75	29.68	4.54	0.26	8,412	107,973	6090.80	31.01	4.45	0.30	8,245	100,436	6704.90	28.87	4.90	0.26	8,434	113,092	28,613.000	1,125,558.364
15	6776.10	28.63	4.88	0.26	8,518	115,431	6589.00	29.78	4.54	0.26	8,413	110,863	6719.05	30.67	4.84	0.35	8,210	110,332	0.000	1,105,474.214
16	7446.55	28.09	4.99	0.25	8,577	* 127,737	7143.75	28.91	4.43	0.25	8,556	122,241	7346.35	31.20	5.12	0.33	8,174	120,095	30,079.000	1,113,616.564
17	7663.20	27.57	4.83	0.26	8,627	* 132,224	7433.65	30.75	4.35	0.28	8,375	* 124,520	7633.25	29.29	5.60	0.25	8,337	* 127,270	13,149.775	1,104 [illegible]
18	7556.60	30.06	5.21	0.25	8,248	* 124,652	7402.10	30.50	5.50	0.24	8,209	121,532	7540.35	30.92	4.52	0.26	8,307	* 125,271	40,597.975	1,122. [illegible]
19	7230.90	31.16	4.96	0.41	8,200	118,584	7063.60	31.69	4.94	0.31	8,123	114,758	7453.75	31.20	5.10	0.26	8,125	121,130	29,943.000	1,130,329.914
20	7358.10	32.36	4.71	0.38	8,090	119,060	7155.80	31.26	4.49	0.28	8,226	117,734	7656.85	31.20	5.10	0.26	8,125	* 124,430	15,320.000	1,123,479.164
21	6909.30	31.75	4.43	0.26	8,178	113,006	6817.50	31.30	5.09	0.28	8,147	111,085	7076.10	31.20	5.10	0.26	8,125	114,993	40,753.625	1,143,429.889
22	7283.05	29.08	4.65	0.28	8,458	123,196	6988.45	31.30	5.09	0.28	8,147	113,871	7302.45	32.44	4.29	0.30	8,086	118,097	30,016.050	1,151,871.989
23	7661.20	32.44	4.54	0.27	8,084	* 123,866	7431.20	31.30	5.09	0.28	8,147	121,085	7607.45	32.33	4.51	0.26	8,118	123,510	15,101.000	1,144,273.139
24	7454.95	31.37	4.74	0.29	8,171	121,823	7312.65	32.20	4.79	0.26	8,036	117,533	7610.15	30.48	4.87	0.27	8,278	* 125,988	15,344.000	1,137,239.389
25	7262.25	34.04	4.32	0.26	8,322	120,873	7140.15	32.26	4.97	0.29	8,014	114,439	7851.60	32.71	4.45	0.28	8,057	* 126,520	12,916.000	1,127,901.389
26	7453.20	34.04	4.32	0.26	8,322	* 124,051	7470.15	32.26	4.97	0.29	8,263	123,452	7309.10	32.71	4.45	0.28	8,239	120,439	14,572.100	1,120,241.039
27	7167.00	34.04	4.32	0.26	8,322	119,288	7318.85	32.26	4.97	0.29	8,263	120,951	7173.55	32.71	4.45	0.28	8,239	118,206	15,201.000	1,113,782.639
28	7086.25	34.04	4.32	0.26	8,322	117,944	7359.00	32.26	4.97	0.29	8,263	121,615	7273.45	32.71	4.45	0.28	8,239	119,852	29,961.125	1,122,025.064
29						0						0						0		1,122,025.064
30						0						0						0		1,122,025.064
31						0						0						0		1,122,025.064
Total	200148.05	30.74	4.79	0.30	8,321	3,330,818	197175.65	30.98	4.71	0.29	8,261	3,257,690	203346.75	31.01	4.77	0.29	8,237	3,349,886	617,486.025	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	246.26	3,330,818
Unit # 2	250.46	3,257,690
Unit # 3	60.62	3,349,886

* Fuel key
B = blended oil
2 = #2 Fuel Oil

	6.00	4
	5.85	5
		6

Att 8, p 17 of 42

SWEPCO
WELSH
JANUARY 2003

	Unit #1						Unit #2						Unit #3						Starting Inv:	1076263.139
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	6094.45	31.94	4.76	0.31	8,124	99,025	3293.00	32.09	4.74	0.26	8,121	53,483	6566.85	30.51	5.14	0.32	8,207	107,793	42,854.775	1,103,163.614
2	7253.55	30.63	4.83	0.31	8,365	121,346	7025.60	29.47	4.64	0.30	8,474	119,069	7180.30	30.99	4.60	0.29	8,225	118,110	28,254.225	1,109,958.389
3	7336.05	30.69	4.58	0.31	8,247	121,000	6818.95	27.58	4.85	0.24	8,674	118,291	7204.60	29.56	4.83	0.25	8,451	121,777	30,082.600	1,118,681.389
4	6768.00	28.45	4.72	0.21	8,580	116,135	6850.85	31.66	4.18	0.36	8,202	112,383	6786.95	30.81	4.49	0.33	8,319	112,928	12,905.100	1,111,180.689
5	6204.90	29.69	4.87	0.31	8,376	103,943	6005.95	29.67	4.79	0.33	8,415	101,083	6380.00	30.24	4.87	0.41	8,321	106,177	14,869.000	1,107,458.839
6	6919.10	29.91	5.32	0.22	8,255	114,238	7040.10	30.04	4.88	0.24	8,328	117,257	6991.90	32.07	4.34	0.30	8,146	113,909	26,281.350	1,112,789.089
7	7320.70	32.22	4.51	0.28	8,103	118,643	7270.35	32.31	4.31	0.29	8,087	117,585	7275.00	30.06	4.55	0.23	8,369	121,765	13,031.450	1,103,954.489
8	7367.20	30.77	4.26	0.30	8,315	122,513	7278.55	32.21	4.26	0.32	8,133	118,391	6946.35	28.03	4.60	0.21	8,611	119,628	28,175.300	1,110,537.689
9	7355.75	30.14	4.24	0.23	8,426	123,952	7357.55	31.33	4.52	0.27	8,254	121,459	7217.05	30.57	4.73	0.27	8,236	118,874	30,649.000	1,119,256.339
10	7274.05	27.79	4.39	0.24	8,667	126,094	6990.70	27.39	4.86	0.24	8,667	121,173	7230.15	28.68	5.21	0.23	8,443	122,092	14,616.225	1,112,377.664
11	7753.95	29.27	4.63	0.22	8,455	131,127	7556.00	30.85	4.89	0.28	8,221	124,241	7742.45	30.31	4.57	0.33	8,356	129,394	28,529.500	1,117,854.764
12	7270.35	28.13	4.83	0.24	8,582	124,788	7119.15	27.83	5.04	0.24	8,582	122,197	7181.60	28.68	5.21	0.23	8,443	121,272	28,936.000	1,125,219.664
13	7738.80	29.85	4.57	0.31	8,388	129,832	7423.00	30.34	4.40	0.25	8,373	124,313	7623.95	30.31	4.57	0.33	8,356	127,413	26,259.775	1,128,693.689
14	7559.15	29.46	4.59	0.32	8,501	128,527	7428.80	30.34	4.40	0.25	8,373	124,410	7611.75	29.71	4.89	0.33	8,447	128,587	15,038.900	1,121,132.889
15	7688.80	30.90	4.48	0.33	8,259	127,009	7569.00	31.81	4.29	0.34	8,176	123,769	6816.90	29.71	4.89	0.33	8,447	115,159	28,122.500	1,127,180.689
16	7740.25	28.96	5.79	0.27	8,377	129,684	7540.05	23.66	4.89	0.26	8,351	125,934	11.80	29.71	4.89	0.33	8,447	199	43,783.500	1,155,672.089
17	7383.10	28.49	4.93	0.30	8,551	126,263	7296.05	29.04	4.86	0.27	8,463	123,493	3825.85	31.18	4.53	0.34	8,218	62,881	0.000	1,137[illegible]39
18	7193.55	28.96	5.00	0.31	8,480	121,999	6921.70	30.66	4.55	0.30	8,308	115,015	7307.10	14.81	6.65	0.35	8,420	123,052	15,367.000	1,131[illegible]9
19	6691.45	29.16	4.73	0.38	8,504	113,813	6729.65	25.70	5.78	0.27	8,760	117,905	6833.75	16.68	6.62	0.39	8,420	115,080	28,540.100	1,139,[illegible]989
20	6285.60	28.82	5.57	0.30	8,405	105,665	6365.55	32.75	5.33	0.38	7,953	101,254	6693.60	29.78	4.99	0.33	8,316	111,326	27,508.950	1,147,561.189
21	5768.15	30.48	5.05	0.37	8,289	95,620	6502.00	31.11	4.90	0.39	8,206	106,709	6983.15	30.10	4.80	0.31	8,350	116,613	42,005.825	1,170,313.714
22	0.00					0	7598.45	28.93	5.29	0.31	8,368	127,163	7777.20	30.43	5.38	0.25	8,223	127,896	15,037.625	1,169,975.689
23	151.90	30.48	5.05	0.37	8,289	2,518	7716.25	30.82	4.90	0.28	8,202	126,573	7890.80	30.43	5.38	0.25	8,223	129,765	28,484.175	1,182,700.914
24	5947.70	31.76	4.95	0.29	8,067	95,960	7385.00	29.40	4.68	0.26	8,409	124,199	7181.70	30.43	5.38	0.25	8,223	118,103	13,708.000	1,175,894.514
25	7353.65	29.26	4.89	0.21	8,418	123,804	7202.50	30.22	5.15	0.23	8,242	118,723	7564.40	30.43	5.38	0.25	8,223	124,397	30,102.550	1,183,876.514
26	7354.30	31.22	4.44	0.25	8,295	122,010	6896.00	30.40	4.78	0.25	8,290	114,341	7066.80	30.43	5.38	0.25	8,223	116,214	30,510.350	1,193,069.764
27	7503.10	28.72	5.04	0.24	8,519	127,833	7364.40	31.21	4.51	0.28	8,206	120,867	7625.60	30.43	5.38	0.25	8,223	125,403	14,573.025	1,185,149.689
28	7225.75	29.39	4.61	0.26	8,480	122,551	7077.75	30.96	4.50	0.31	8,261	116,939	7470.25	30.43	5.38	0.25	8,223	122,849	26,322.275	1,189,698.214
29	6533.50	33.39	4.88	0.41	7,949	105,464	6516.50	30.96	4.50	0.31	8,261	107,666	6879.65	28.92	5.19	0.34	8,479	116,665	13,488.100	1,183,156.664
30	7327.65	30.89	4.85	0.24	8,286	121,434	7587.35	30.56	4.77	0.31	8,303	125,992	7524.45	30.22	4.98	0.24	8,241	124,017	30,489.300	1,191,206.514
31	6877.30	31.11	4.65	0.34	8,224	113,117	6771.60	30.38	4.64	0.33	8,316	112,624	7062.95	27.33	4.89	0.29	8,695	122,821	27,501.925	1,197,996.589
Total	205341.75	29.99	4.78	0.29	8,366	3,435,904	216498.35	30.01	4.74	0.29	8,325	3,604,500	212454.85	29.06	5.07	0.29	8,336	3,542,160	756,028.400	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	3896.06	3,435,904

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 2	1597.68	3,604,500

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 3	1602.58	3,542,160

* Fuel key
B = blended oil
2 = #2 Fuel Oil

	6.00	4
	5.85	5
		6

AT 8,
8/18/42

SWEPCO
WELSH
DECEMBER 2002

	Unit #1						Unit #2						Unit #3						Starting Inv.	1058649.864
	Tons	%	%	%		MMBtu	Tons	%	%	%		MMBtu	Tons	%	%	%		MMBtu	Tons	Ending
	Burned	Moisture	Ash	Sulfur	BTU/lb	Burned	Burned	Moisture	Ash	Sulfur	BTU/lb	Burned	Burned	Moisture	Ash	Sulfur	BTU/lb	Burned	Delivered	Inventory
1	6638.90	29.48	4.46	0.24	8,516	113,074	6391.75	30.61	4.67	0.30	8,306	106,177	6863.90	30.90	5.17	0.29	8,191	112,442	12,987.100	1,051,742.414
2	7145.25	29.33	7.37	0.34	8,136	116,274	6892.80	28.62	4.23	0.26	8,601	118,576	7037.45	30.84	5.00	0.35	8,213	115,593	28,423.000	1,059,089.914
3	6893.55	29.26	7.03	0.37	8,185	112,844	4908.15	28.43	4.74	0.29	8,612	84,534	6743.05	28.63	4.56	0.25	8,555	115,375	15,167.000	1,055,712.164
4	7431.75	28.24	6.52	0.35	8,404	124,912	7180.80	29.39	6.09	0.34	8,311	119,358	7318.55	30.32	5.61	0.32	8,268	121,024	14,470.000	1,048,251.064
5	7363.00	29.39	5.43	0.27	8,329	122,649	7266.70	28.43	4.84	0.26	8,555	124,332	7250.80	29.17	4.73	0.24	8,506	123,346	28,281.325	1,054,551.889
6	7054.05	29.45	5.17	0.26	8,389	118,358	6821.70	28.84	4.57	0.24	8,563	116,832	6974.00	28.90	5.24	0.22	8,464	118,060	15,104.000	1,048,906.139
7	7162.70	28.34	5.37	0.28	8,538	122,315	6933.70	28.83	4.68	0.26	8,542	118,450	7045.65	28.80	5.19	0.22	8,487	119,587	0.000	1,027,764.089
8	7029.25	28.36	5.05	0.26	8,550	120,194	6914.70	29.73	4.56	0.25	8,448	116,826	7137.95	30.36	5.21	0.25	8,287	118,309	26,310.850	1,032,993.039
9	7324.15	32.73	4.97	0.33	7,991	117,062	7048.75	30.67	4.85	0.29	8,220	115,877	7128.15	31.87	5.32	0.25	7,998	114,015	27,937.375	1,039,429.364
10	7419.90	33.23	4.69	0.33	7,924	117,593	7579.00	33.66	4.92	0.30	7,718	116,985	7710.85	33.55	4.44	0.29	7,951	122,620	41,539.975	1,058,259.589
11	0.00					0	7319.70	30.67	4.85	0.29	8,220	120,332	7386.95	32.58	4.72	0.27	8,011	118,357	15,223.000	1,058,775.939
12	2610.50	31.68	4.92	0.30	8,094	42,260	7207.85	30.67	4.85	0.29	8,220	118,493	7375.45	29.40	5.44	0.25	8,321	122,741	0.000	1,041,582.139
13	7357.30	31.68	4.92	0.30	8,094	119,105	7214.70	30.67	4.85	0.29	8,220	118,605	7325.90	29.40	5.44	0.25	8,321	121,917	28,300.600	1,047,984.839
14	7512.05	29.93	4.59	0.25	8,361	125,616	443.95	30.67	4.85	0.29	8,220	7,298	7443.00	33.08	4.29	0.22	7,988	118,902	0.000	1,032,585.839
15	7200.15	29.93	4.59	0.25	8,361	120,400	205.40	30.67	4.85	0.29	8,220	3,377	7139.75	30.53	4.74	0.21	8,327	118,909	13,383.075	1,031,423.614
16	7176.00	30.63	4.91	0.25	8,298	119,092	6635.80	33.76	4.31	0.20	7,983	105,951	7098.50	30.18	5.01	0.29	8,301	117,854	26,037.075	1,036,550.389
17	6888.65	31.99	4.42	0.24	8,214	113,172	6751.85	31.53	4.30	0.21	8,249	111,392	6738.30	29.20	4.96	0.29	8,443	113,783	43,248.325	1,059,419.914
18	6490.70	31.97	4.13	0.20	8,225	106,772	6537.05	31.56	4.27	0.21	8,236	107,677	6845.45	32.03	4.50	0.28	8,164	111,779	28,600.475	1,06[illegible]189
19	6754.10	30.96	4.85	0.23	8,293	112,027	6741.30	31.31	4.90	0.21	8,205	110,621	6823.65	31.71	4.94	0.22	8,118	110,794	0.000	1,04[illegible]39
20	6923.90	30.64	5.45	0.25	8,248	114,210	7132.75	33.09	5.17	0.23	7,906	112,776	7042.85	32.44	4.93	0.24	7,996	112,623	29,658.500	1,056,[illegible].139
21	6521.70	32.78	4.79	0.24	8,003	104,389	6704.00	29.23	4.78	0.24	8,482	113,721	7224.50	32.58	5.22	0.23	7,958	114,979	13,060.375	1,048,997.314
22	6209.10	31.30	4.77	0.25	8,187	101,668	6263.25	34.33	4.47	0.28	7,842	98,236	6686.05	31.98	4.70	0.30	8,113	108,484	28,799.000	1,058,637.914
23	6834.65	31.30	4.77	0.25	8,187	111,911	6580.55	24.89	4.57	0.25	9,035	118,909	4949.25	27.67	4.90	0.31	8,661	85,732	0.000	1,040,273.464
24	7286.20	31.30	4.77	0.25	8,167	119,305	7210.60	29.35	4.66	0.34	8,459	121,985	7423.60	26.03	4.95	0.34	8,868	131,661	27,330.175	1,045,683.239
25	7211.00	23.93	4.75	0.28	9,138	131,783	7078.15	26.08	4.81	0.19	8,880	125,711	7295.45	26.03	4.95	0.34	8,868	129,388	42,846.275	1,066,944.914
26	7216.00	32.02	4.43	0.20	8,138	117,444	7102.85	30.27	5.62	0.25	8,204	116,539	7520.30	26.03	4.95	0.34	8,868	133,376	28,573.300	1,073,679.064
27	7406.00	32.02	4.43	0.20	8,138	120,537	7136.35	30.27	5.62	0.25	8,204	117,088	7450.90	31.68	4.81	0.26	8,170	121,904	29,651.875	1,081,327.689
28	7118.35	32.02	4.43	0.20	8,138	115,855	7286.20	30.27	5.62	0.25	8,204	119,547	7506.30	31.82	4.94	0.27	8,170	122,658	13,043.000	1,072,459.839
29	6437.70	32.02	4.43	0.20	8,138	104,777	6890.80	30.27	5.62	0.25	8,204	113,060	6614.00	32.42	4.86	0.26	8,083	106,921	13,455.025	1,065,972.364
30	6446.25	29.96	4.94	0.23	8,347	107,620	6104.65	30.61	4.83	0.19	8,270	100,974	6657.50	31.08	4.73	0.26	8,226	109,534	15,163.000	1,061,926.964
31	6715.50	31.39	5.00	0.28	8,147	109,425	12.85	30.61	4.83	0.19	8,270	213	7099.85	31.43	5.26	0.33	8,121	115,322	28,164.375	1,076,263.139
Total	205778.30	30.54	5.02	0.26	8,268	3,402,645	192498.65	30.23	4.88	0.26	8,313	3,200,452	218867.85	30.43	4.96	0.27	8,288	3,627,991	634,758.075	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	2015.72	3,402,645
Unit # 2	4471.04	3,200,452
Unit # 3	457.38	3,627,991

2339728.05	2296548.35	2220981.00

* Fuel key
B = blended oil
2 = #2 Fuel Oil

	6.00	4
	5.85	5
		6

AT 8, 19 Jan 03

SWEPCO
WELSH
NOVEMBER 2002

	Unit #1						Unit #2						Unit #3						Starting Inv.	1003317.164
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	6885.85	30.99	4.51	0.29	8,313	114,484	6963.85	31.33	4.16	0.24	8,301	115,612	6945.90	30.31	4.66	0.25	8,381	116,433	25,897.775	1,008,419.339
2	6269.05	24.61	4.84	0.30	9,089	113,955	6617.20	33.58	4.12	0.25	8,046	106,485	6738.45	31.40	4.59	0.29	8,250	111,190	0.000	988,794.639
3	5780.55	26.33	4.72	0.29	8,871	102,553	6438.35	31.71	4.28	0.24	8,228	105,949	6147.25	31.25	4.03	0.24	8,269	101,664	30,521.425	1,000,949.914
4	6472.00	30.37	4.27	0.26	8,419	108,970	6945.10	31.90	4.24	0.24	8,221	114,195	6554.10	30.32	4.72	0.26	8,311	108,940	12,998.000	993,976.714
5	7138.80	30.37	4.27	0.26	8,419	120,197	7238.35	31.90	4.24	0.24	8,221	119,017	6544.55	30.32	4.72	0.26	8,311	108,781	12,723.400	985,778.414
6	7360.05	29.44	4.87	0.26	8,428	124,054	7173.80	30.30	5.12	0.23	8,281	118,806	7083.90	29.63	4.85	0.25	8,404	119,068	29,647.000	993,807.664
7	6423.05	28.19	5.23	0.24	8,547	109,801	7053.05	30.30	5.12	0.23	8,281	116,806	6332.25	10.29	7.79	0.37	10,182	128,951	12,972.025	986,971.339
8	6920.45	31.05	4.35	0.27	8,171	113,092	6731.25	30.30	5.12	0.23	8,281	111,477	6839.65	10.94	7.50	0.36	10,169	139,105	28,401.300	994,881.289
9	6613.20	31.05	4.35	0.27	8,171	108,071	5989.65	30.30	5.12	0.23	8,281	99,195	6601.30	31.59	5.33	0.26	8,062	106,435	25,777.175	1,001,454.314
10	6404.20	29.72	5.17	0.25	8,319	106,555	6003.25	29.32	4.87	0.29	8,444	101,381	6354.15	31.55	4.60	0.22	8,193	104,116	0.000	982,692.714
11	6478.15	29.03	5.17	0.26	8,507	110,220	5861.60	29.32	4.87	0.29	8,444	98,989	6380.90	31.55	4.60	0.22	8,193	104,554	28,210.725	992,182.789
12	6598.60	29.03	5.17	0.26	8,507	112,270	6464.30	29.32	4.87	0.28	8,444	109,167	6582.80	30.90	5.31	0.23	8,174	107,614	30,875.450	1,003,412.539
13	7039.60	27.58	4.88	0.24	8,682	122,235	6766.40	32.51	4.60	0.34	8,043	108,839	6617.50	31.11	4.73	0.23	8,258	109,269	29,770.350	1,012,759.389
14	7126.10	31.76	5.49	0.29	8,057	114,829	6918.30	32.44	4.65	0.33	8,075	111,735	7003.75	32.40	4.69	0.29	8,084	113,233	13,048.975	1,004,760.214
15	6344.90	30.83	4.69	0.26	8,313	105,492	6217.25	32.58	4.38	0.25	8,095	100,663	6626.35	30.64	4.58	0.22	8,301	110,014	28,428.175	1,013,999.889
16	6755.45	29.94	4.62	0.24	8,416	113,704	6426.50	31.47	4.71	0.30	8,221	105,658	6624.15	30.71	4.90	0.29	8,269	109,553	26,296.550	1,020,490.339
17	6999.05	30.70	4.45	0.29	8,423	117,905	6545.25	33.85	4.33	0.31	7,978	104,431	7126.05	32.30	4.83	0.31	8,052	114,764	28,752.125	1,02[illegible]14
18	7219.60	30.70	4.45	0.29	8,423	121,621	7000.20	32.43	4.82	0.29	8,054	112,761	7122.10	23.00	6.32	0.33	8,935	127,266	12,937.650	1,02[illegible]34
19	6589.75	30.70	4.45	0.29	8,423	111,010	6195.05	32.43	4.82	0.29	8,054	99,792	6586.70	21.94	6.02	0.30	9,160	120,670	28,010.875	1,028,[illegible].239
20	6703.70	30.40	4.41	0.21	8,393	112,523	6800.80	31.68	5.21	0.27	8,019	109,071	6715.80	29.91	4.68	0.22	8,404	112,881	14,423.000	1,023,009.939
21	6997.70	30.78	5.01	0.38	8,218	115,018	6847.75	31.57	4.67	0.33	8,153	111,665	6985.30	29.91	4.68	0.22	8,404	117,411	13,064.200	1,015,243.389
22	6711.40	30.32	6.25	0.23	8,142	109,290	6482.40	31.15	4.67	0.32	8,205	106,373	6930.80	29.91	4.68	0.22	8,404	116,495	28,352.550	1,023,471.339
23	6484.40	31.89	4.70	0.26	8,177	106,047	6286.75	30.85	4.67	0.31	8,208	103,198	6915.90	29.91	4.68	0.22	8,404	116,244	13,211.225	1,016,995.514
24	6296.00	29.19	4.89	0.25	8,475	106,721	6158.60	30.22	4.75	0.33	8,288	102,088	6233.25	29.91	4.68	0.22	8,404	104,770	28,621.225	1,026,928.889
25	7176.35	30.35	4.53	0.32	8,342	119,724	6958.95	31.19	4.67	0.34	8,220	114,401	7020.45	32.45	4.73	0.31	8,036	112,832	41,236.225	1,047,009.364
26	7054.15	29.20	4.40	0.24	8,519	120,188	6929.00	29.66	4.42	0.23	8,476	117,462	6980.10	31.08	4.57	0.30	8,268	115,429	15,209.000	1,041,255.114
27	7228.55	28.77	4.47	0.21	8,582	124,068	7025.50	29.57	4.50	0.25	8,492	119,319	7151.45	29.80	4.59	0.24	8,458	120,970	29,949.250	1,049,798.864
28	6659.95	28.77	4.47	0.21	8,582	114,309	6384.40	29.98	5.01	0.33	8,366	106,821	6382.55	29.80	4.59	0.24	8,458	107,964	15,237.000	1,045,608.964
29	6959.15	29.67	4.98	0.25	8,408	117,031	6943.25	27.33	5.92	0.29	8,574	119,064	168.90	29.80	4.59	0.24	8,458	2,857	13,064.425	1,044,602.089
30	6605.50	27.86	4.89	0.24	8,662	114,429	6355.80	27.96	4.41	0.23	8,719	110,832	1234.90	29.80	4.59	0.24	8,458	20,889	28,243.975	1,058,649.864
31						0						0						0		1,058,649.864
Total	202295.25	29.69	4.76	0.26	8,429	3,410,369	198721.90	30.96	4.71	0.28	8,256	3,281,254	189531.20	28.77	5.02	0.26	8,469	3,210,383	645,881.050	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	578.34	3,410,369

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 2	632.66	3,281,254

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 3	1000.02	3,210,383

* Fuel key
B = blended oil 6.00 4
2 = #2 Fuel Oil 5.85 5
6

AT 8
8/20/02

SWEPCO
WELSH
OCTOBER 2002

	Unit #1						Unit #2						Unit #3						Starting Inv.	878233.864
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	0.00					0	0.00					0	7246.80	27.75	4.86	0.25	8,620	124,931	15,109.000	886,096.064
2	0.00					0	560.35	28.50	4.67	0.21	8,529	9,558	6704.30	29.16	4.20	0.23	8,545	114,575	12,946.700	891,778.114
3	0.00					0	5884.55	28.63	5.44	0.21	8,400	98,861	6668.40	29.16	4.20	0.23	8,545	113,962	13,040.275	892,265.439
4	0.00					0	7524.70	32.25	5.05	0.30	8,050	121,152	7438.75	29.16	4.20	0.23	8,545	127,127	14,743.300	892,045.289
5	1216.95	29.33	5.33	0.27	8,290	20,176	6914.35	32.25	5.05	0.30	8,050	111,325	6908.65	29.16	4.20	0.23	8,545	118,067	28,441.950	905,447.289
6	7332.55	30.38	5.33	0.29	8,229	120,674	168.75	32.25	5.05	0.30	8,050	2,717	6826.45	29.16	4.20	0.23	8,545	116,663	27,997.350	919,116.889
7	6570.15	31.43	6.10	0.43	8,053	105,814	0.00					0	6491.00	32.05	4.73	0.29	8,124	105,468	12,973.000	919,028.739
8	7129.30	27.21	6.33	0.45	8,524	121,537	0.00					0	6840.70	31.70	4.61	0.28	8,152	111,533	15,111.000	920,169.739
9	6888.25	18.50	5.51	0.34	9,719	133,897	0.00					0	6662.60	32.33	4.83	0.32	8,044	107,182	25,971.050	932,589.939
10	7089.25	27.21	6.04	0.39	8,590	121,789	0.00					0	7155.25	31.66	4.34	0.25	8,225	117,707	0.000	918,345.439
11	6940.85	26.65	5.82	0.37	8,655	120,152	0.00					0	6882.65	30.82	4.37	0.25	8,279	113,965	0.000	904,521.939
12	7003.35	29.44	4.38	0.29	8,474	118,700	919.90	32.25	5.05	0.30	8,050	14,811	6924.50	28.94	4.42	0.22	8,524	118,054	29,825.000	919,499.189
13	6302.45	28.06	4.57	0.26	9,318	117,449	6604.85	29.83	4.63	0.26	8,325	109,970	6323.35	29.50	7.12	0.22	8,065	102,001	25,745.575	926,014.114
14	6810.45	34.62	6.37	0.34	7,535	102,632	6663.35	29.83	4.63	0.26	8,325	110,944	6716.35	29.50	7.12	0.22	8,065	108,340	28,437.675	934,261.639
15	6629.70	30.80	5.98	0.26	8,056	106,820	6552.10	29.83	4.63	0.26	8,325	109,092	7080.80	29.50	7.12	0.22	8,065	114,219	28,339.375	942,338.414
16	6688.75	30.80	5.98	0.26	8,056	107,771	6488.25	29.83	4.63	0.26	8,325	108,029	6834.80	29.48	4.50	0.21	8,427	115,190	28,051.450	950,378.064
17	6720.85	26.65	4.87	0.28	8,957	120,397	6565.05	29.83	4.63	0.26	8,325	109,307	6555.20	29.48	4.50	0.21	8,427	110,477	12,906.100	94[illegible]
18	7305.10	26.65	4.87	0.28	8,957	130,863	7134.45	29.83	4.63	0.26	8,325	118,788	6978.25	29.48	4.50	0.21	8,427	117,607	30,574.550	952[illegible]
19	7048.65	26.65	4.87	0.28	8,957	126,269	6870.65	29.83	4.63	0.26	8,325	114,396	2352.35	29.48	4.50	0.21	8,427	39,645	14,780.000	951,[illegible].164
20	6554.50	26.65	4.87	0.28	8,957	117,417	6811.75	29.83	4.63	0.26	8,325	113,415	0.00					0	12,695.000	950,436.914
21	6798.15	28.54	6.95	0.30	8,234	111,956	6722.15	32.04	4.35	0.26	8,177	109,938	0.00					0	41,276.350	978,192.964
22	7022.95	30.61	5.57	0.29	8,900	125,007	6877.25	30.04	4.57	0.28	8,426	115,899	3229.35	28.53	4.78	0.26	8,634	55,766	12,816.275	973,879.689
23	6809.20	30.61	5.57	0.29	8,900	121,202	6694.75	28.94	5.14	0.30	8,493	113,718	7165.10	28.92	4.96	0.28	8,547	122,477	28,285.650	981,496.289
24	6399.65	24.66	6.14	0.26	8,903	113,948	6866.25	31.19	4.75	0.23	8,190	112,471	7064.75	29.94	4.48	0.29	8,481	119,829	12,918.575	974,084.214
25	0.00					0	6997.90	31.67	4.59	0.32	8,185	114,560	7206.65	31.66	4.84	0.29	8,168	117,725	0.000	959,879.664
26	0.00					0	7296.65	31.24	4.46	0.30	8,253	120,440	7516.15	30.08	4.44	0.27	8,406	126,363	14,719.325	959,786.189
27	187.90	24.66	6.14	0.26	8,903	3,346	7612.85	30.11	4.47	0.34	8,409	128,036	7864.15	31.21	4.43	0.33	8,285	130,301	29,946.425	974,067.714
28	7008.50	33.56	5.09	0.29	7,893	110,631	6678.90	30.11	4.47	0.34	8,409	112,329	6989.10	31.21	4.43	0.33	8,285	115,803	25,847.175	979,238.389
29	7276.95	33.91	5.26	0.29	7,796	113,459	6725.50	30.11	4.47	0.34	8,409	113,113	7210.05	31.21	4.43	0.33	8,285	119,463	30,574.000	988,599.889
30	7209.15	32.48	5.33	0.29	7,991	115,211	6889.40	30.11	4.47	0.34	8,409	115,869	7208.35	31.21	4.43	0.33	8,285	119,435	28,038.475	995,331.464
31	7167.00	30.42	4.29	0.25	8,523	122,175	6531.55	31.33	4.16	0.24	8,301	108,435	6820.80	29.81	4.28	0.26	8,495	115,890	28,505.050	1,003,317.164
Total	160110.55	29.00	5.48	0.31	8,523	2,729,290	151556.20	30.43	4.66	0.28	8,304	2,517,172	193865.60	30.09	4.75	0.26	8,356	3,239,765	630,615.650	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	4187.12	2,729,290

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 2	4107.88	2,517,172

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 3	1263.08	3,239,765

* Fuel key
B = blended oil
2 = #2 Fuel Oil

	6.00	4
	5.85	5
		6

AT 8,
AL 21 of 92

SWEPCO
WELSH
September 2002

	Unit #1						Unit #2						Unit #3						Starting Inv.	787383.414
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	6986.50	31.26	4.88	0.37	8,174	114,222	0.00					0	7302.45	19.01	5.04	0.29	9,705	X 141,746	15,206.700	788,301.164
2	7030.10	29.33	5.53	0.34	8,312	116,870	1042.00	24.54	4.66	0.26	9,039	18,837	7576.60	29.76	4.90	0.39	8,365	X 126,753	27,595.275	800,247.739
3	6903.65	30.87	5.88	0.31	8,035	110,948	6158.05	28.59	5.24	0.26	8,473	104,350	6958.65	28.82	5.00	0.33	8,451	117,616	14,344.225	794,571.614
4	7107.65	19.90	7.63	0.32	9,134	X 129,839	7049.95	30.95	4.84	0.33	8,200	115,614	7566.80	30.27	4.92	0.36	8,321	X 125,930	13,112.525	785,959.739
5	7529.45	30.91	4.37	0.29	8,295	X 124,913	7309.05	24.42	5.80	0.34	8,875	X 129,730	7687.60	30.31	4.62	0.30	8,370	X 128,686	25,699.950	789,133.589
6	7030.55	23.68	5.51	0.32	8,989	X 126,397	6998.45	29.00	4.87	0.27	8,492	118,868	7290.60	30.01	4.71	0.25	8,382	122,220	29,673.000	797,486.989
7	6854.35	26.29	5.19	0.25	8,741	119,833	5262.15	23.94	5.26	0.29	9,028	95,011	7102.85	28.98	5.30	0.27	8,449	120,029	13,469.000	791,736.639
8	7076.05	30.85	5.55	0.26	8,082	114,380	6248.15	28.73	4.96	0.25	8,453	105,631	1381.10	28.98	5.30	0.27	8,449	23,339	15,193.650	792,224.989
9	7392.70	28.46	5.33	0.27	8,495	X 125,609	7252.60	30.77	4.46	0.28	8,364	121,327	0.00					0	13,250.550	790,830.239
10	7451.85	30.46	4.38	0.25	8,343	X 124,336	7359.05	31.23	4.46	0.27	8,234	121,184	0.00					0	27,679.800	803,699.139
11	7389.55	31.11	4.81	0.27	8,217	121,439	7231.15	31.23	4.46	0.27	8,234	119,077	391.95	28.98	5.30	0.27	8,449	6,623	28,614.450	817,300.939
12	7053.95	31.40	4.51	0.26	8,282	116,836	6669.85	32.21	4.64	0.29	8,123	108,360	5959.25	14.45	6.30	0.30	9,872	117,662	28,036.000	825,653.889
13	6855.60	31.50	4.82	0.24	8,223	112,746	6715.25	31.66	4.44	0.28	8,225	110,470	6599.10	16.35	6.39	0.29	9,725	X 128,351	27,737.500	833,221.439
14	6620.05	29.93	5.13	0.28	8,357	110,646	6557.15	28.46	5.03	0.21	8,522	111,766	6571.75	15.10	6.35	0.31	9,792	X 128,700	30,032.000	843,504.489
15	6881.20	29.93	5.13	0.28	8,357	115,010	6867.20	28.46	5.03	0.21	8,522	117,050	6869.20	15.10	6.35	0.31	9,792	X 134,526	25,834.400	848,721.289
16	7141.45	30.98	4.27	0.25	8,262	118,001	7058.75	31.64	4.37	2.49	8,203	115,801	6993.90	30.59	4.90	0.30	8,268	115,653	28,246.475	855,773.664
17	4999.50	31.73	4.25	0.29	8,236	82,348	7070.30	30.84	4.61	0.28	8,309	117,491	7055.00	32.96	5.37	0.30	7,892	111,362	13,041.500	849 [illegible] 364
18	3042.75	30.86	4.64	0.27	8,322	50,641	7427.75	30.75	4.33	0.25	8,390	X 124,640	7401.65	30.19	4.48	0.25	8,410	X 124,494	28,011.775	85[illegible] 19
19	7492.55	31.42	4.54	0.27	8,270	X 123,925	7307.40	30.63	4.35	0.26	8,360	122,182	7280.65	30.37	4.52	0.27	8,392	122,195	12,788.000	850,[illegible] 89
20	6919.25	30.24	4.81	0.25	8,004	110,768	6838.80	31.34	4.68	0.23	8,203	112,195	6768.30	30.52	4.75	0.24	8,287	112,185	12,481.000	842,492.039
21	6704.00	30.98	4.32	0.27	8,301	111,300	6783.40	32.67	4.55	0.37	8,058	109,318	6518.00	22.56	4.46	0.31	8,295	108,139	27,604.675	850,091.314
22	6258.40	31.11	4.44	0.28	8,273	103,554	6242.25	32.01	4.16	0.27	8,225	102,687	6234.20	31.36	4.33	0.30	8,247	102,825	15,231.000	846,587.464
23	6182.40	22.00	4.78	0.30	9,398	116,204	6085.65	27.83	4.27	0.18	8,735	106,313	6076.10	28.75	4.63	0.20	8,552	103,931	30,508.000	858,751.314
24	6272.65	28.64	5.35	0.39	8,569	107,503	6481.25	27.87	4.25	0.23	8,661	112,274	6339.25	29.59	4.66	0.22	8,366	106,074	15,112.000	854,770.164
25	6630.10	31.71	5.13	0.43	8,124	107,728	6553.40	32.12	5.25	0.39	8,082	105,935	6604.00	28.10	4.90	0.23	8,513	112,436	27,484.475	862,467.139
26	7054.45	31.98	4.77	0.31	8,115	114,490	6841.35	31.17	4.45	0.26	8,232	112,630	7133.15	31.72	4.58	0.30	8,187	116,797	27,797.625	869,235.814
27	6431.00	31.98	4.77	0.31	8,115	104,372	7054.35	31.16	4.37	0.26	8,218	115,946	7091.65	31.16	4.37	0.26	8,218	116,559	28,088.750	876,747.564
28	95.65	31.98	4.77	0.31	8,115	1,552	7199.15	31.34	4.46	0.24	8,223	118,392	7213.10	31.34	4.46	0.24	8,223	118,621	12,805.000	875,044.664
29	14.60	31.98	4.77	0.31	8,115	237	6947.85	30.48	4.44	0.25	8,322	115,639	6903.65	31.34	4.46	0.24	8,223	113,532	28,199.050	889,377.614
30	0.00					0	3950.35	30.48	4.44	0.25	8,322	65,749	7193.40	31.34	4.46	0.24	8,223	118,297	0.000	878,233.864
31						0						0						0		878,233.864
Total	181401.95	29.59	5.00	0.29	8,370	3,036,646	188562.05	30.10	4.66	0.35	8,365	3,154,469	182063.90	27.48	4.96	0.28	8,583	3,125,282	642,878.350	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	2996.84	3,036,646

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 2	1813.00	3,154,469

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 3	1178.24	3,125,282

* Fuel key
B = blended oil
2 = #2 Fuel Oil

	6.00	4
	5.85	5
		6

AP 8, B 22 of 42

SWEPCO
WELSH
AUGUST 2002

	Unit #1						Unit #2						Unit #3						Starting Inv.	900763.964
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	7360.45	33.81	4.94	0.29	7,815	115,045	7162.45	30.65	4.64	0.33	8,263	118,363	7401.30	28.11	4.89	0.31	8,667	128,289	14,766.250	893,606.014
2	7511.75	30.73	5.28	0.38	8,126	122,087	7401.00	30.42	4.83	0.28	8,280	122,554	7594.30	30.78	4.81	0.30	8,280	125,768	26,191.625	897,290.589
3	7397.85	26.21	5.96	0.31	8,610	127,385	7115.00	30.42	4.99	0.33	8,261	117,549	7316.25	30.52	4.80	0.29	8,263	120,907	0.000	875,461.489
4	7479.60	33.08	5.40	0.31	7,826	117,076	7358.25	31.43	4.65	0.31	8,192	120,552	7438.65	30.42	4.83	0.32	8,287	123,295	13,491.850	866,676.839
5	7194.70	33.08	5.40	0.31	7,826	112,616	7156.85	27.52	5.64	0.31	8,552	122,405	7359.50	28.40	5.43	0.23	8,481	124,837	12,177.000	857,142.789
6	7015.80	33.08	5.40	0.31	7,826	109,816	6588.05	26.25	5.59	0.30	8,689	114,493	6992.75	29.82	5.53	0.31	8,244	115,297	29,670.000	866,216.189
7	7175.90	20.03	5.91	0.30	9,375	134,547	6582.90	30.25	5.36	0.33	8,226	108,305	6922.35	28.07	6.61	0.24	8,341	115,472	14,774.000	860,309.039
8	7085.20	25.35	5.79	0.29	8,754	124,045	6615.05	28.11	4.45	0.23	8,631	114,185	6958.20	25.35	5.79	0.29	8,754	121,821	12,929.000	852,579.589
9	7000.50	22.15	5.85	0.36	9,144	128,031	6655.45	29.59	4.31	0.22	8,468	112,718	6985.25	29.89	4.40	0.21	8,408	117,463	28,083.725	860,022.114
10	7350.30	24.73	5.89	0.33	8,822	129,692	6919.05	29.95	5.08	0.34	8,320	115,131	7284.50	31.07	4.44	0.29	8,262	120,364	15,773.300	854,241.564
11	7331.65	27.23	5.56	0.36	8,553	125,421	6976.45	31.43	4.65	0.31	8,192	114,297	7279.25	30.70	4.46	0.32	8,308	120,952	0.000	832,654.214
12	7920.70	32.95	5.73	0.31	7,815	123,794	6715.15	27.52	5.64	0.31	8,552	114,850	7764.95	30.39	4.75	0.33	8,309	129,035	26,478.350	836,731.764
13	7477.80	31.03	5.95	0.26	8,022	119,981	7017.75	26.25	5.59	0.30	8,689	121,960	7507.35	30.39	4.75	0.33	8,309	124,754	25,824.775	840,553.639
14	6706.05	33.23	7.18	0.23	7,603	101,972	6518.00	30.25	5.36	0.33	8,226	107,237	6752.90	30.42	4.86	0.26	8,239	111,270	44,582.325	865,159.014
15	0.00					0	6987.70	30.08	5.38	0.29	8,260	115,435	7270.00	30.17	4.77	0.27	8,308	120,803	13,140.000	864,041.314
16	102.45	33.23	7.18	0.23	7,603	1,558	7007.85	29.46	5.11	0.26	8,374	117,364	7380.45	30.10	4.77	0.21	8,341	123,126	0.000	849,550.564
17	9.10	33.23	7.18	0.23	7,603	138	6751.55	27.11	5.43	0.25	8,600	116,128	7139.35	30.16	4.82	0.30	8,310	118,649	27,870.025	86[illegible]79
18	4032.20	35.00	6.61	0.23	7,417	59,810	6777.40	24.12	5.76	0.34	8,912	120,796	7113.70	31.63	4.58	0.34	8,166	116,179	0.000	84[illegible]9
19	7420.55	30.53	5.73	0.28	8,165	121,175	6985.95	21.26	6.76	0.34	9,102	127,176	7434.05	31.50	5.53	0.30	8,017	119,202	12,980.625	836,7[illegible].364
20	7351.15	28.38	5.63	0.30	8,419	123,781	7163.25	15.50	6.13	0.35	9,860	141,262	7167.75	30.45	4.97	0.29	8,240	118,130	15,216.875	830,272.089
21	7498.05	28.72	5.02	0.29	8,705	130,542	7068.20	13.63	6.91	0.39	9,967	140,894	7442.75	30.07	5.34	0.28	8,276	123,193	27,488.000	835,751.089
22	7504.35	28.14	5.04	0.33	8,440	126,668	7223.95	26.83	5.53	0.35	8,589	124,090	7371.80	29.95	5.08	0.24	8,272	121,952	12,811.775	826,462.764
23	7580.85	26.39	6.54	0.28	8,568	129,909	7328.55	29.86	5.58	0.36	8,238	120,740	7663.70	27.82	5.17	0.30	8,536	130,835	28,122.225	832,011.889
24	6638.00	26.10	6.60	0.33	8,582	113,936	6144.75	28.77	6.35	0.39	8,375	102,924	7468.00	29.83	5.08	0.31	8,311	124,134	15,111.000	826,872.139
25	6928.95	27.47	6.65	0.26	8,400	116,401	6848.95	23.52	6.62	0.35	8,873	121,536	7071.05	30.98	5.01	0.30	8,127	114,938	13,241.425	819,264.614
26	7283.35	27.76	4.93	0.36	8,534	124,308	7209.60	30.14	4.73	0.29	8,327	120,071	7433.70	30.50	5.03	0.31	8,249	122,640	14,339.325	811,677.289
27	7286.70	28.30	4.96	0.34	8,478	123,552	7229.95	29.90	4.58	0.25	8,310	120,166	7431.80	31.98	4.64	0.25	8,084	120,155	0.000	789,728.839
28	6968.05	21.46	5.63	0.34	9,194	128,127	6942.10	30.41	4.67	0.26	8,282	114,989	7368.00	30.64	4.23	0.24	8,331	122,764	12,976.075	781,426.764
29	6986.80	29.37	5.34	0.26	8,301	115,998	6928.45	28.14	4.94	0.32	8,545	118,411	7491.85	19.84	6.23	0.36	9,582	143,571	27,460.150	787,479.814
30	7078.05	31.31	5.20	0.27	8,099	114,656	6970.65	29.10	4.66	0.22	8,452	117,829	7198.75	28.63	4.25	0.21	8,594	123,736	27,872.000	794,104.364
31	6606.20	25.35	5.56	0.32	8,761	115,751	6211.10	28.79	4.74	0.24	8,467	105,177	7166.65	30.73	4.61	0.30	8,253	118,294	13,263.000	787,383.414
Total	199283.05	28.55	5.68	0.31	8,375	3,337,819	214561.35	27.63	5.31	0.31	8,551	3,669,589	226170.85	29.65	4.98	0.29	8,361	3,781,829	526,634.700	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	3358.46	3,337,819

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 2	602.28	3,669,589

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 3	262.08	3,781,829

* Fuel key

B = blended oil	6.00	4
2 = #2 Fuel Oil	5.85	5
		6

Aug 8, 23 of 92

SWEPCO
WELSH
JULY 2002

	Unit 1						Unit 2						Unit 3						Starting Inv.	1009745.314
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	6902.75	23.81	7.82	0.26	8,579	118,432	6783.90	27.46	8.80	0.29	8,068	109,462	6733.15	30.02	6.00	0.30	8,121	109,354	27,924.350	1,017,249.864
2	7172.00	25.38	7.97	0.25	8,341	119,646	7011.10	27.83	7.57	0.22	8,225	115,337	7177.15	29.91	4.86	0.37	8,307	119,247	14,874.000	1,010,763.614
3	7052.30	22.98	7.78	0.22	8,621	121,589	6902.70	27.39	7.47	0.23	8,239	113,740	6986.10	30.24	5.25	0.26	8,167	114,114	26,345.475	1,016,167.989
4	7554.45	26.72	7.17	0.25	8,400	126,922	7395.85	31.32	4.58	0.30	8,144	120,467	7499.45	30.25	5.18	0.27	8,237	123,539	0.000	993,718.239
5	7297.55	29.13	4.99	0.27	8,344	121,779	7128.25	29.99	4.64	0.27	8,297	118,290	7245.20	30.25	5.18	0.27	8,237	119,351	25,989.000	998,036.239
6	7185.35	20.91	6.17	0.27	9,239	132,769	7279.25	28.87	4.72	0.31	8,466	123,258	7176.50	30.25	5.18	0.27	8,237	118,219	27,875.600	1,004,270.739
7	6837.45	26.06	5.16	0.28	8,721	119,264	6944.15	29.23	4.73	0.32	8,366	116,184	6706.75	30.25	5.18	0.27	8,237	110,481	14,349.000	998,131.389
8	7723.80	33.74	4.66	0.31	7,885	121,810	7705.55	28.87	4.80	0.25	8,501	131,009	7890.70	30.42	5.11	0.27	8,246	130,138	26,157.625	1,000,968.964
9	7391.05	30.65	5.37	0.32	8,139	120,318	7540.25	30.96	5.07	0.44	8,184	123,419	7196.30	27.99	4.94	0.25	8,588	123,606	29,750.325	1,008,591.689
10	7358.85	30.92	4.88	0.28	8,222	121,011	7529.25	30.56	4.57	0.28	8,315	125,210	7397.95	29.26	4.73	0.27	8,471	125,338	12,941.000	999,246.639
11	7304.70	30.92	4.88	0.28	8,222	120,120	6895.75	29.00	5.02	0.29	8,431	116,277	7012.65	29.43	4.88	0.28	8,409	117,936	13,375.175	991,408.714
12	7333.25	30.92	4.88	0.28	8,222	120,590	7226.40	29.24	5.09	0.30	8,410	121,553	7283.60	30.32	4.56	0.32	8,313	121,095	13,030.000	982,595.464
13	7207.35	29.90	4.63	0.29	8,345	120,296	7018.00	34.06	5.11	0.29	7,720	108,361	7094.25	29.42	4.28	0.29	8,459	120,024	15,182.000	976,457.864
14	7232.75	29.90	4.63	0.29	8,345	120,720	7005.85	31.43	4.76	0.37	8,134	113,967	7164.90	29.42	4.28	0.29	8,459	121,220	12,971.050	968,025.414
15	6962.15	29.21	4.70	0.28	8,400	116,971	6801.65	29.43	4.52	0.27	8,416	114,491	6933.15	29.58	4.65	0.30	8,389	116,325	28,210.000	975,538.464
16	7508.10	33.66	4.73	0.32	7,855	117,946	7251.25	30.54	4.78	0.30	8,261	119,801	7533.25	29.94	4.52	0.28	8,360	125,950	0.000	953,245.864
17	7800.05	31.78	4.80	0.34	8,092	126,241	7656.50	30.35	5.15	0.36	8,247	126,282	7788.25	29.44	4.56	0.29	8,420	131,159	42,719.550	972[illegible]
18	7567.65	33.43	5.11	0.39	7,879	119,253	7184.80	30.29	5.22	0.41	8,246	118,494	7265.75	30.35	5.07	0.38	8,274	120,238	12,984.925	963,[illegible]
19	7476.20	30.46	4.53	0.26	8,287	123,911	7119.85	29.99	5.76	0.38	8,244	117,397	7267.45	29.84	5.32	0.25	8,267	120,156	12,917.000	954,740.839
20	7400.10	18.07	5.98	0.42	9,671	143,139	7296.40	29.93	5.10	0.25	8,277	120,791	7468.65	30.13	5.11	0.27	8,236	123,020	28,644.175	961,219.864
21	7382.90	26.29	6.76	0.38	8,478	125,190	7031.55	29.13	4.86	0.24	8,419	118,392	7386.30	27.09	5.49	0.41	8,592	126,929	12,963.325	952,382.439
22	7599.85	31.47	6.19	0.38	7,964	121,045	7448.10	29.23	5.42	0.32	8,312	123,821	7591.75	31.06	5.25	0.34	8,133	123,491	27,870.000	957,612.739
23	7273.20	30.74	5.75	0.37	8,098	117,794	7018.10	29.55	4.54	0.27	8,429	118,305	7133.65	30.03	4.70	0.33	8,344	119,044	0.000	936,187.789
24	7575.60	37.49	5.44	0.32	7,255	109,914	7371.45	29.72	4.74	0.40	8,384	123,601	7513.25	29.97	4.62	0.32	8,348	125,439	28,020.800	941,748.289
25	7544.95	32.03	5.05	0.37	8,208	123,859	7362.70	24.67	5.92	0.38	8,783	129,327	7509.00	31.87	5.06	0.36	8,041	120,754	12,993.400	932,325.039
26	7648.65	30.58	5.53	0.38	8,122	124,238	7536.80	32.34	4.68	0.36	8,025	120,972	7710.45	33.68	4.72	0.34	7,821	120,609	0.000	909,429.139
27	7533.20	30.11	6.70	0.38	7,977	120,189	7440.70	34.00	4.77	0.29	7,804	116,130	7691.00	33.27	4.94	0.34	7,876	121,150	29,891.000	916,655.239
28	7133.50	30.59	5.96	0.34	8,100	115,564	6811.95	29.38	5.78	0.23	8,287	112,898	6841.55	30.44	5.29	0.31	8,204	112,262	28,388.375	924,256.614
29	7211.40	27.87	5.54	0.26	8,517	122,835	6984.75	27.99	4.67	0.24	8,586	119,943	7340.95	28.39	5.08	0.27	8,503	124,840	27,815.000	930,534.514
30	7078.35	30.57	5.47	0.29	8,178	115,770	7000.00	28.53	4.85	0.27	9,040	126,561	7311.65	31.20	5.45	0.31	8,118	118,714	13,032.000	922,176.514
31	7193.25	27.45	4.67	0.29	8,657	124,544	6948.40	27.97	4.44	0.25	8,655	120,272	7270.90	30.31	5.14	0.38	8,265	120,183	0.000	900,763.964
Total	227442.70	29.22	5.60	0.31	8,296	3,773,670	222631.20	29.67	5.22	0.30	8,319	3,704,015	226121.60	30.15	4.98	0.31	8,279	3,743,926	567,214.150	

	Total for Month by Unit	
	Oil MMBTU	Coal MMBTU
Unit # 1	566.02	3,773,670

	Total for Month by Unit	
	Oil MMBTU	Coal MMBTU
Unit # 2	276.36	3,704,015

	Total for Month by Unit	
	Oil MMBTU	Coal MMBTU
Unit # 3	279.86	3,743,926

* Fuel key
B = blended oil
2 = #2 Fuel Oil

	6.00	4
	5.85	5
		6

AT 8
24/42

SWEPCO
WELSH
June 2002

	Unit #1						Unit #2						Unit #3						Starting Inv.	1130791.489
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	6893.05	28.82	6.02	0.30	8,283	114,186	6115.10	28.26	5.10	0.19	8,474	103,642	6736.85	28.51	5.24	0.24	8,443	113,765	29,673.300	1,140,719.789
2	6892.10	28.82	6.02	0.30	8,283	114,170	6291.55	29.25	5.50	0.25	8,314	104,613	7042.45	29.15	5.34	0.28	8,391	118,191	13,563.000	1,134,056.689
3	7036.80	28.82	6.02	0.30	8,283	116,567	6942.75	28.49	4.38	0.21	8,544	118,638	6851.90	30.00	4.25	0.29	8,415	115,311	25,772.000	1,138,997.239
4	7054.60	28.82	6.02	0.30	8,283	116,862	6781.35	30.69	4.38	0.29	8,321	112,853	6814.05	29.66	4.74	0.28	8,406	114,564	25,903.000	1,144,250.239
5	7442.95	28.82	6.02	0.30	8,283	123,295	7139.60	27.74	4.58	0.25	8,638	123,348	6962.60	29.06	5.16	0.27	8,379	116,679	0.000	1,122,705.089
6	7131.50	30.25	5.52	0.31	8,144	116,159	6956.10	30.99	4.90	0.33	8,140	113,250	7079.00	31.31	4.83	0.30	8,142	115,269	14,662.950	1,116,201.439
7	6976.85	30.25	5.52	0.31	8,144	113,640	6794.25	31.30	4.92	0.28	8,124	110,393	6702.60	31.31	4.83	0.30	8,142	109,140	13,122.500	1,108,850.239
8	6983.40	26.85	5.38	0.28	8,603	120,163	6780.65	27.01	5.91	0.26	8,487	115,095	6845.20	31.46	4.61	0.22	8,157	111,674	29,768.850	1,118,009.839
9	6877.25	21.84	5.78	0.26	9,195	* 126,473	6421.60	33.62	4.36	0.28	7,883	101,249	6549.20	37.05	4.21	0.29	7,469	97,838	12,994.000	1,111,155.789
10	7246.10	32.11	4.54	0.23	8,102	117,416	7032.45	26.84	5.65	0.23	8,605	121,024	7153.35	30.16	4.65	0.29	8,322	119,065	25,885.000	1,115,608.889
11	7529.05	31.04	4.77	0.25	8,197	123,435	7258.35	30.37	4.59	0.23	8,299	120,477	5604.10	30.27	5.06	0.24	8,241	92,369	12,999.300	1,108,216.689
12	7368.70	31.74	4.47	0.23	8,161	120,266	7159.30	30.47	5.30	0.22	8,195	117,344	7271.80	31.46	4.84	0.25	8,113	117,992	0.000	1,086,416.889
13	6955.30	31.58	5.27	0.26	8,022	111,588	6842.75	31.87	4.51	0.27	8,129	111,254	6955.80	32.65	7.02	0.28	7,624	106,056	0.000	1,065,663.039
14	6893.80	29.69	5.04	0.31	8,301	114,452	6790.50	30.17	5.04	0.26	8,204	111,422	6945.05	31.65	4.91	0.31	8,076	112,171	29,307.825	1,074,341.514
15	6405.65	32.01	4.82	0.28	8,041	103,010	6312.10	29.05	4.67	0.26	8,413	106,207	6456.05	30.82	5.66	0.28	8,079	104,311	12,982.050	1,068,149.764
16	6169.10	31.76	4.81	0.29	8,081	99,700	6116.75	31.06	4.97	0.26	8,132	99,484	6246.75	29.63	5.61	0.25	8,239	102,938	14,829.975	1,064,[illegible].139
17	6986.65	31.08	5.49	0.25	7,996	111,731	6728.35	28.80	5.17	0.24	8,390	112,903	6867.80	29.63	5.61	0.25	8,239	113,172	25,997.000	1,06[illegible]
18	7016.45	21.03	6.60	0.28	9,051	* 127,014	6780.35	30.13	4.58	0.24	8,303	112,600	6996.80	31.42	4.69	0.27	8,186	114,546	26,379.700	1,075[illegible]
19	7055.40	14.75	6.83	0.30	9,745	* 137,509	7093.00	30.87	4.68	0.29	8,198	116,294	7303.10	30.60	4.97	0.27	8,170	119,327	0.000	1,053,995.939
20	6889.65	14.75	6.83	0.30	9,745	* 134,279	6994.15	28.69	5.31	0.24	8,398	117,467	7178.95	29.92	4.86	0.28	8,306	119,263	12,717.000	1,045,650.189
21	7333.55	16.18	6.38	0.28	9,711	* 142,432	7017.85	30.55	4.71	0.28	8,286	116,296	7304.60	30.05	4.75	0.26	8,351	122,009	12,982.000	1,036,976.189
22	7044.40	30.76	4.49	0.22	8,234	116,013	6880.50	29.46	4.92	0.27	8,390	115,461	6962.55	29.15	4.80	0.24	8,446	117,618	27,700.825	1,043,789.564
23	7143.50	30.53	4.92	0.23	8,149	116,427	6968.80	30.25	4.67	0.22	8,354	116,430	7082.45	31.01	4.80	0.26	8,203	116,201	14,845.600	1,037,440.414
24	7343.25	17.87	6.42	0.28	9,511	* 139,683	7102.85	29.36	4.88	0.22	8,426	119,702	7000.40	29.89	4.70	0.24	8,383	117,372	26,168.950	1,042,162.864
25	7111.45	17.87	6.42	0.28	9,511	* 135,274	6872.90	31.77	4.67	0.28	8,163	112,202	7128.05	28.20	4.78	0.26	8,581	122,329	26,389.225	1,047,439.689
26	6966.10	21.37	6.14	0.29	9,151	* 127,495	6791.85	33.52	5.18	0.21	7,867	106,868	6976.85	28.20	4.78	0.26	8,581	119,734	0.000	1,026,704.889
27	7219.15	29.08	6.33	0.36	8,221	118,695	6841.60	27.61	5.16	0.26	8,652	118,381	7144.75	29.48	5.37	0.27	8,343	119,219	0.000	1,005,499.389
28	7126.90	28.37	5.37	0.27	8,442	120,329	6466.10	29.53	8.00	0.27	7,924	102,480	7140.95	29.56	6.80	0.35	8,107	115,784	25,976.800	1,010,742.239
29	7347.90	40.23	5.00	0.27	7,001	102,880	7092.55	29.28	6.84	0.33	8,113	115,087	7250.45	28.36	7.03	0.26	8,201	118,929	27,607.000	1,016,658.339
30	6715.50	28.82	6.02	0.30	8,283	111,245	6550.00	26.24	7.00	0.33	8,458	110,796	6620.65	28.33	6.43	0.27	8,306	109,983	12,973.125	1,009,745.314
31						0						0						0		1,009,745.314
Total	211156.05	27.19	5.64	0.28	8,506	3,592,390	203916.00	29.77	5.14	0.26	8,296	3,383,262	207175.10	30.25	5.18	0.27	8,237	3,412,817	501,200.975	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	344.96	3,592,390
Unit # 2	393.82	3,383,262
Unit # 3	685.44	3,412,817

* Fuel key
B = blended oil 6.00
2 = #2 Fuel Oil 5.85

4
5
6

AH 8/25/02

SWEPCO
WELSH
May 2002

	Unit #1						Unit #2						Unit #3						Starting Inv.	1150470.489
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	6964.95					0	6886.30					0	6960.10					0	27,888.700	1,157,547.839
2	7781.90	34.90	8.58	0.27	7,057	109,827	384.20	30.02	5.31	0.32	8,222	6,318	7746.45	32.05	4.88	0.35	8,011	X 124,112	0.000	1,141,635.289
3	7395.80	38.90	6.24	0.28	6,884	101,831	0.00					0	7486.25	29.18	5.46	0.30	8,317	X 124,523	29,653.875	1,156,407.114
4	6444.95	20.90	6.62	0.34	9,181	118,337	0.00					0	5353.65	30.11	5.10	0.30	8,273	88,582	13,176.000	1,157,784.514
5	6471.60	20.83	6.51	0.31	9,182	118,849	0.00					0	5984.95	29.10	5.61	0.29	8,315	99,524	13,075.000	1,158,402.964
6	6982.50					0	0.00					0	6962.60	30.38	4.96	0.29	8,271	115,171	26,115.100	1,170,572.964
7	7561.50	21.25	6.58	0.32	9,113	X 137,819	0.00					0	7205.00	31.11	4.40	0.24	8,286	119,394	12,688.000	1,168,494.464
8	7778.55					0	0.00					0	7629.90	32.52	4.35	0.30	8,108	123,720	14,841.100	1,167,927.114
9	7197.80					0	0.00					0	6883.05	32.10	5.11	0.34	8,019	110,395	13,002.100	1,166,848.364
10	7049.75	31.32	4.99	0.35	8,172	115,226	0.00					0	7055.60	33.89	4.58	0.33	7,882	111,231	29,523.925	1,182,266.939
11	7011.05	31.57	4.55	0.29	8,217	115,214	0.00					0	7010.90	27.23	4.91	0.35	8,661	121,441	12,897.000	1,181,141.989
12	7078.75					0	0.00					0	6776.30	27.29	5.30	0.37	8,623	116,869	13,044.000	1,180,330.939
13	7366.90	29.73	9.19	0.30	7,632	112,443	15.75					0	7054.25	30.28	4.67	0.33	8,303	117,143	26,268.200	1,192,162.239
14	7329.30	28.25	7.30	0.34	8,134	119,240	536.95	30.52	4.98	0.32	8,223	8,831	7338.55	30.81	4.64	0.35	8,257	121,193	26,010.550	1,202,967.989
15	7205.40	31.69	6.56	0.31	7,837	112,935	4124.20	28.96	4.41	0.25	8,496	70,078	6821.20	30.14	5.33	0.28	8,220	112,139	0.000	1,184,817.189
16	7169.65	31.59	5.05	0.35	8,095	116,078	5989.50	29.79	5.31	0.35	8,296	99,373	7019.20	30.39	5.26	0.34	8,215	115,319	13,130.375	1,177,769.214
17	6336.90	30.72	5.15	0.36	8,166	103,495	6894.05	31.16	4.96	0.35	8,145	112,306	6264.15	27.56	5.03	0.34	8,611	107,881	29,873.200	1,18[illegible]
18	6714.45					0	6908.45	28.79	5.32	0.32	8,418	116,316	6719.45	23.92	5.27	0.28	9,026	121,299	13,199.000	1,18[illegible]
19	5920.60					0	6042.05	23.59	5.42	0.35	9,042	109,266	5834.10	31.62	5.20	0.32	8,053	93,960	27,428.950	1,190,636.164
20	6936.40	23.34	6.19	0.30	8,897	123,425	6722.70	27.26	5.29	0.34	8,609	115,748	6772.05	33.17	6.22	0.31	7,723	104,603	26,173.375	1,196,378.389
21	7102.15	24.90	5.54	0.31	8,888	X 126,246	6739.60	27.41	5.32	0.34	8,568	115,489	7077.70	29.52	5.64	0.29	8,293	117,386	13,027.000	1,188,485.939
22	7018.90	21.06	6.44	0.26	9,066	X 127,267	6898.05	30.53	4.84	0.28	8,247	113,778	7004.95	31.60	5.53	0.26	8,038	112,612	0.000	1,167,564.039
23	6299.15	39.03	5.54	0.25	7,082	89,226	5803.80	29.16	4.66	0.24	8,434	97,902	6575.35	29.53	5.06	0.25	8,363	109,978	0.000	1,148,885.739
24	6698.55	No Sample				0	6497.85	29.57	4.75	0.24	8,414	109,343	6596.85	30.98	4.64	0.31	8,282	109,274	28,127.925	1,157,220.414
25	359.45	No Sample				0	6674.60	28.38	5.00	0.25	8,521	113,750	7074.85	30.07	5.01	0.28	8,349	118,133	28,241.650	1,171,353.164
26	4258.80	No Sample				0	6467.30	29.65	5.00	0.25	8,388	108,498	6593.15	30.45	4.76	0.34	8,330	109,848	14,711.300	1,168,745.214
27	6800.00	28.68	6.90	0.26	8,206	111,600	6462.80	No Sample				0	6567.80	30.35	5.08	0.24	8,301	109,035	38,512.000	1,187,426.614
28	6465.15	34.96	6.64	0.27	7,481	96,731	6597.45	No Sample				0	6903.30	No Sample				0	13,014.000	1,180,474.714
29	7069.15	No Sample				0	6855.05	29.35	5.08	0.30	8,392	115,056	7115.55	23.89	5.82	0.34	8,911	X 126,817	0.000	1,159,434.964
30	7068.70	No Sample				0	6941.40	29.63	4.61	0.27	8,425	116,961	6841.45	29.51	4.98	0.29	8,389	114,784	13,118.625	1,151,702.039
31	7144.90	No Sample				0	6785.60	30.91	4.82	0.30	8,201	111,303	6980.05	30.85	4.85	0.29	8,226	114,839	0.000	1,130,791.489
Total	206983.60	17.68	3.89	0.18	4,966	2,055,787	117227.65	24.05	4.15	0.25	6,996	1,640,316	212208.70	28.05	4.75	0.29	7,755	3,291,203	516,740.950	[redacted]

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	2005.50	2,055,787

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 2	4099.48	1,640,316

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 3	112.42	3,291,203

* Fuel key
B = blended oil
2 = #2 Fuel Oil

	6.00	4
	5.85	5
		6

Att 8, p 26 of 42

SWEPCO
WELSH
APRIL 2002

	Unit 1						Unit 2						Unit 3						Starting Inv.	1041908.664
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	602.75	29.02	4.99	0.37	8,452	10,189	7327.35	29.02	4.99	0.37	8,452	123,866	0.00					0	25,987.875	1,059,966.439
2	5826.60	29.55	4.78	0.29	8,467	98,671	7013.85	29.55	4.78	0.29	8,467	118,777	0.00					0	15,015.000	1,062,140.989
3	7510.65	29.14	4.99	0.33	8,464	127,145	7331.15	29.14	4.99	0.33	8,464	124,106	0.00					0	15,151.750	1,062,450.939
4	6791.25	28.60	4.94	0.22	8,561	116,279	7181.80	29.14	4.99	0.33	8,464	121,578	0.00					0	27,751.950	1,076,229.839
5	7280.05	28.03	4.99	0.21	8,542	124,377	7239.50	29.14	4.99	0.33	8,464	122,555	0.00					0	12,979.425	1,074,689.714
6	7214.10	26.30	5.42	0.23	8,724	125,872	6787.40	29.14	4.99	0.33	8,464	114,901	0.00					0	27,692.075	1,088,380.289
7	26.90	26.30	5.42	0.23	8,724	469	7241.80	29.14	4.99	0.33	8,464	122,594	0.00					0	13,003.000	1,094,114.589
8	2752.55	25.83	5.69	0.25	8,737	48,099	6493.10	29.43	4.98	0.29	8,372	108,716	0.00					0	26,033.000	1,110,901.939
9	6512.40	26.55	5.30	0.27	8,698	113,294	6523.70	28.85	5.98	0.28	8,308	108,392	0.00					0	0.000	1,097,865.839
10	6744.95	25.77	5.33	0.30	8,800	118,716	6806.35	29.38	5.18	0.27	8,354	113,717	0.00					0	27,883.175	1,112,197.714
11	6546.30	30.65	5.24	0.28	8,023	105,047	6774.35	31.58	5.73	0.42	8,143	110,334	0.00					0	28,123.350	1,127,000.414
12	4403.55	28.87	5.05	0.25	8,379	73,797	7158.25	31.58	5.73	0.42	8,143	116,586	0.00					0	14,725.925	1,130,164.539
13	6702.60	24.60	5.20	0.25	8,885	119,109	7172.95	26.91	6.18	0.40	8,571	122,964	0.00					0	12,977.000	1,129,265.989
14	6898.55	32.26	4.99	0.29	8,010	110,516	7399.05	33.38	6.44	0.42	7,713	114,138	0.00					0	26,119.000	1,141,087.389
15	7073.05	29.88	6.55	0.29	8,092	114,473	7168.20	27.97	7.09	0.33	8,281	118,719	0.00					0	25,921.675	1,152,767.814
16	6982.15	29.01	7.31	0.26	8,103	113,155	7172.20	25.13	6.92	0.41	8,608	123,481	0.00					0	12,787.000	1,151,400.464
17	7156.15	27.27	7.10	0.29	8,360	119,650	7437.35	25.13	6.92	0.41	8,608	128,046	0.00					0	0.000	1,136,[illegible]
18	7346.55	30.91	6.70	0.32	7,948	116,778	6547.15	25.13	6.92	0.41	8,608	112,720	0.00					0	27,948.700	1,156[illegible]
19	7644.00	31.38	4.82	0.34	8,178	125,026	7562.60	30.88	5.19	0.36	8,179	123,705	0.00					0	0.000	1,135,655.364
20	7466.50	31.38	4.89	0.36	8,147	121,666	7396.95	29.57	5.36	0.36	8,317	123,036	0.00					0	27,254.700	1,148,046.614
21	7155.65	22.68	7.56	0.33	8,827	126,324	7200.40	28.73	4.98	0.38	8,528	122,805	0.00					0	13,011.000	1,146,701.564
22	7266.05	30.91	5.46	0.35	8,096	117,658	7043.65	27.83	4.95	0.31	8,608	121,264	0.00					0	13,018.525	1,145,410.389
23	6586.60	23.29	6.38	0.30	8,950	117,901	6983.55	22.62	6.88	0.30	8,899	124,292	0.00					0	25,213.000	1,157,053.239
24	7139.50	28.31	5.36	0.35	8,493	121,273	7235.70	33.88	5.24	0.33	7,779	112,573	0.00					0	15,000.175	1,157,678.214
25	7037.10	27.26	4.47	0.40	8,737	122,966	7205.35	32.65	4.83	0.39	8,018	115,546	0.00					0	13,030.725	1,156,466.489
26	7575.05	28.58	6.61	0.39	8,234	124,741	7665.20	32.42	4.86	0.39	8,051	123,422	0.00					0	14,507.150	1,155,733.389
27	7719.30	30.23	5.23	0.40	8,266	127,616	7218.90	32.03	4.96	0.39	8,078	116,627	0.00					0	0.000	1,140,795.189
28	7273.20	28.37	5.34	0.41	8,493	123,547	7126.35	33.11	4.91	0.38	7923	112,917	1162.45	33.11	4.91	0.38	7923	18,419	26,409.000	1,151,642.189
29	6801.30	28.29	4.76	0.29	8,598	116,950	6838.95	28.60	5.04	0.32	8493	116,162	5776.65	28.60	5.04	0.32	8493	98,119	25,785.750	1,158,011.039
30	6650.60	28.32	4.31	0.27	8,635	114,853	6766.45	28.64	4.78	0.27	8,529	115,428	6808.50	28.64	4.78	0.27	8,529	116,145	12,685.000	1,150,470.489
31												0						0		1,150,470.489
Total	190685.95	28.38	5.54	0.31	8,433	3,216,158	213019.55	29.35	5.49	0.35	8,342	3,553,968	13747.60	29.00	4.90	0.30	8,463	232,683	526,014.925	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	5802.30	3,216,158
Unit # 2	794.22	3,553,968
Unit # 3	4052.86	232,683

* Fuel key
B = blended oil 6.00
2 = #2 Fuel Oil 5.85

4
5
6

AHB, 5/29/02

SWEPCO
WELSH
MARCH 2002

	Unit #1						Unit #2						Unit #3						Starting Inv. 863162.514	
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	7348.85	31.67	4.88	0.25	8,178	120,199	7074.00	30.67	4.32	0.21	8,634	122,158	5384.50	30.63	4.55	0.22	8,342	89,839	26,093.000	869,448.164
2	7149.95	31.25	4.67	0.30	8,270	118,261	7282.60	29.24	4.78	0.24	8,509	X 123,941	5226.45	28.67	4.41	0.21	8,634	90,254	15,014.000	864,803.164
3	7337.60	30.42	4.42	0.22	8,417	123,523	7222.30	32.51	4.93	0.19	8,065	116,500	5727.15	34.09	4.82	0.19	7,881	90,273	27,977.700	872,493.814
4	7614.80	32.35	4.47	0.29	8,148	X 124,088	7408.50	29.03	4.37	0.24	8,608	X 127,541	5760.80	28.50	4.23	0.26	8,670	99,893	12,969.525	864,679.239
5	7490.80	27.96	4.47	0.25	8,725	X 130,712	7407.40	29.07	5.06	0.31	8,487	X 125,732	5229.45	28.50	4.23	0.26	8,670	90,680	27,546.800	872,098.389
6	7712.00	30.51	4.80	0.25	8,347	X 128,739	7133.55	30.03	5.05	0.30	8,373	119,464	5512.40	28.50	4.23	0.26	8,670	95,586	12,834.000	864,574.439
7	7288.75	30.18	5.44	0.31	8,307	121,096	7354.90	29.52	5.33	0.33	8,324	122,450	5240.65	28.50	4.23	0.26	8,670	90,874	24,948.275	869,638.414
8	7162.90	26.46	4.85	0.29	8,836	X 126,587	7033.50	28.13	4.69	0.23	8,636	121,482	4637.50	38.77	5.23	0.24	7,146	66,275	27,584.125	878,388.639
9	7484.70	29.23	4.58	0.21	8,502	X 127,273	7387.65	29.25	4.55	0.22	8,490	X 125,438	0.00					0	40,044.000	903,560.289
10	6972.65	29.81	4.73	0.29	8,424	117,478	6849.70	30.56	4.92	0.33	8,263	113,198	3185.55	38.77	5.23	0.24	7,146	45,525	27,706.150	914,258.539
11	7173.70	29.62	5.17	0.29	8,439	121,084	7312.60	28.63	4.13	0.19	8,649	X 126,493	7528.30	38.77	5.23	0.24	7,146	107,588	14,697.000	906,940.939
12	6291.45	32.21	4.53	0.33	8,129	102,282	6808.00	29.00	4.29	0.20	8,601	117,112	6631.35	38.77	5.23	0.24	7,146	94,769	25,514.225	912,724.364
13	6662.00	30.94	4.70	0.37	8,277	110,285	7245.65	30.43	4.77	0.38	8,347	120,955	7398.55	38.77	5.23	0.24	7,146	105,734	25,260.200	916,678.364
14	6489.20	28.50	5.11	0.23	8,500	110,313	7087.00	30.43	4.77	0.38	8,347	118,307	7032.20	31.83	6.70	0.31	7,807	109,801	27,711.100	923,781.064
15	5666.25	20.52	5.10	0.36	9,520	107,885	6828.40	30.43	4.77	0.38	8,347	113,990	6774.30	30.52	6.31	0.34	8,050	109,064	41,006.125	945,518.239
16	6788.50	28.40	4.74	0.27	8,561	116,234	6651.35	30.43	4.77	0.38	8,347	111,034	7018.80	30.52	6.31	0.34	8,050	113,001	12,976.500	938,036.089
17	5960.10	29.68	4.66	0.26	8,430	100,491	5881.60	34.27	5.33	0.41	7,893	92,853	6024.15	30.52	6.31	0.34	8,050	96,987	25,896.000	946 [illegible]9
18	6467.85	31.41	4.31	0.26	8,251	106,727	6344.30	29.87	5.10	0.38	8,613	109,281	6430.10	29.63	5.09	0.35	8,370	107,638	27,423.350	954 [illegible]9
19	6588.95	33.19	5.10	0.41	8,034	105,874	6347.65	31.58	5.33	0.22	8,108	102,935	6563.80	29.63	5.09	0.35	8,370	109,876	27,718.925	962,4[illegible].864
20	6725.90	33.03	5.00	0.43	8,020	107,885	6941.05	30.12	5.40	0.43	8,279	114,936	6689.35	23.64	5.54	0.33	9,059	121,198	27,168.550	969,278.114
21	7312.80	33.03	5.00	0.43	8,020	117,299	7094.15	30.12	5.40	0.43	8,279	117,471	7469.05	23.64	5.54	0.33	9,059	X 135,324	27,786.175	975,188.289
22	7457.65	31.32	5.02	0.34	8,136	121,357	7397.00	27.34	4.75	0.27	8,686	X 128,505	7501.60	27.42	4.50	0.26	8,713	X 130,720	25,951.500	978,783.539
23	212.90	31.32	5.02	0.34	8,136	3,464	6666.65	29.40	5.39	0.36	8,319	110,925	7197.55	25.29	4.91	0.27	8,920	X 128,401	12,914.775	977,621.214
24	0.00					0	6276.20	28.07	5.61	0.38	8,479	106,434	7292.85	24.14	4.76	0.27	9,098	X 132,704	26,098.000	990,150.164
25	0.00					0	7088.45	27.90	4.64	0.27	8,594	121,833	7073.95	24.14	4.76	0.27	9,098	X 128,721	12,926.625	988,914.389
26	0.00					0	7277.60	29.15	4.34	0.26	8,523	124,061	7372.35	24.14	4.76	0.27	9,098	X 134,150	15,120.000	989,384.439
27	0.00					0	7043.25	31.89	5.33	0.26	8,091	113,967	6952.25	24.14	4.76	0.27	9,098	X 126,506	29,793.375	1,005,182.314
28	0.00					0	6698.25	28.65	4.96	0.26	8,504	113,920	7007.80	26.86	5.38	0.25	8,697	121,894	12,870.675	1,004,346.939
29	0.00					0	6592.40	30.29	4.78	0.42	8,337	109,919	4974.30	29.58	5.03	0.25	8,373	83,301	27,668.475	1,020,446.714
30	0.00					0	5914.00	29.37	4.64	0.37	8,495	100,481	4752.75	26.68	5.63	0.27	8,655	82,269	25,563.300	1,035,345.264
31	44.75	23.96	4.81	0.24	9,056	811	5928.45	30.75	4.57	0.31	8,282	98,203	394.40	26.68	5.63	0.27	8,655	6,827	12,931.000	1,041,908.664
Total	153405.00	30.15	4.80	0.30	8,376	2,569,949	213578.10	29.84	4.87	0.30	8,408	3,591,517	181984.20	29.51	5.14	0.28	8,368	3,045,673	727,713.450	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	1338.68	2,569,949

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 2	382.90	3,591,517

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 3	1960.42	3,045,673

* Fuel key
B = blended oil
2 = #2 Fuel Oil

	6.00	4
	5.85	5
		6

A17.8
18 28 42

SWEPCO
WELSH
February 2002

	Unit 1						Unit 2						Unit 3						Starting Inv. 742079.539	
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	7820.05	25.81	5.41	0.34	8,858	138,545	7704.05	29.84	4.85	0.29	8,399	129,417	7163.00	33.41	4.37	0.24	7,982	114,349	14,879.000	734,271.439
2	7637.85	28.38	5.53	0.32	8,478	129,513	7221.35	35.33	5.00	0.27	7,682	110,954	6802.95	33.59	5.09	0.26	7,853	106,849	14,906.000	727,515.289
3	6544.50	27.54	5.43	0.32	8,614	112,751	6272.60	27.09	6.00	0.34	8,610	108,015	6223.00	33.16	5.41	0.33	7,898	98,301	24,948.050	733,423.239
4	7354.95	27.54	5.43	0.32	8,614	126,713	7197.55	27.09	6.00	0.34	8,610	123,943	6860.20	30.33	5.57	0.37	8,206	112,593	26,927.500	738,936.039
5	7593.45	27.54	5.43	0.32	8,614	130,822	7522.20	32.43	5.34	0.35	7,974	119,969	7299.45	34.78	4.85	0.40	7,771	113,446	25,194.550	741,717.489
6	7251.30	32.03	5.30	0.32	8,030	116,460	7407.35	33.18	5.34	0.36	7,881	116,753	7114.10	33.93	4.87	0.40	7,853	111,734	28,361.000	748,305.739
7	7207.95	32.68	5.58	0.32	7,905	113,951	3954.65	34.00	4.42	0.28	7,866	62,216	7003.95	33.93	4.87	0.40	7,853	110,004	12,898.925	743,038.114
8	6817.25	33.11	5.46	0.31	7,867	107,260	6765.75	28.71	4.59	0.22	8,563	115,876	6189.50	33.93	4.87	0.40	7,853	97,212	14,491.000	737,756.614
9	6073.35	34.41	5.63	0.26	7,643	92,837	6166.80	29.08	5.07	0.24	8,431	103,980	5946.40	33.93	4.87	0.40	7,853	93,394	26,891.300	746,461.364
10	6365.95	34.33	4.86	0.25	7,802	99,332	5979.35	30.85	4.68	0.33	8,322	99,516	6254.80	33.93	4.87	0.40	7,853	98,238	12,306.200	740,167.464
11	6872.40	28.72	5.31	0.31	8,434	115,917	6943.80	34.28	4.56	0.27	7,807	108,419	6888.35	21.55	5.94	0.34	9,256	127,515	14,768.000	734,230.914
12	6583.05	29.42	5.47	0.32	8,294	109,196	6442.10	28.73	5.27	0.36	8,471	109,148	6459.15	18.76	6.32	0.34	9,592	123,912	24,918.000	739,664.614
13	5618.25	24.82	5.74	0.40	8,927	100,310	5487.55	29.72	4.97	0.35	8,387	92,045	5838.25	29.37	5.63	0.31	8,336	97,336	40,424.825	763,145.389
14	5492.05	30.88	4.78	0.42	8,230	90,397	5397.90	31.23	4.98	0.38	8,138	87,860	5659.00	30.44	4.74	0.38	8,324	94,217	25,449.100	772,045.539
15	4850.10	39.18	5.37	0.37	7,120	69,067	4831.35	31.79	4.76	0.40	8,203	79,265	5245.55	36.82	5.40	0.42	7,438	78,031	0.000	757,118.539
16	5515.55	26.52	4.98	0.35	8,827	97,369	5392.35	22.59	5.19	0.39	9,329	100,606	5581.95	27.08	4.81	0.45	8,792	98,154	28,182.000	768,810.689
17	5386.30	26.33	4.93	0.35	8,871	95,565	2840.30	32.83	5.00	0.40	8,020	45,557	5340.10	26.89	4.93	0.39	8,819	94,193	24,958.350	78[illegible]39
18	5720.15	24.37	5.49	0.45	9,071	103,773	4003.40	28.87	5.13	0.28	8,539	68,367	5792.75	26.89	4.93	0.39	8,819	102,177	26,742.950	79[illegible]9
19	5161.10	25.72	5.69	0.45	8,839	91,239	5276.95	28.54	4.83	0.35	8,555	90,293	5254.45	26.89	4.93	0.39	8,819	92,682	27,909.475	803,[illegible].964
20	5738.85	25.72	5.69	0.45	8,839	101,453	6074.10	27.10	4.67	0.40	8,778	106,634	6626.75	26.89	4.93	0.39	8,819	116,888	25,959.350	811,165.614
21	7111.85	40.73	5.15	0.35	6,956	98,940	6965.25	41.86	3.98	0.32	6,993	97,419	6939.15	26.89	4.93	0.39	8,819	122,398	38,742.325	828,891.689
22	6690.35	29.81	5.41	0.34	8,364	111,916	7000.25	30.41	5.10	0.36	8,326	116,568	6317.95	26.89	4.93	0.39	8,819	111,441	12,967.000	821,850.139
23	7442.30	30.27	5.38	0.35	8,291	123,408	7491.90	31.54	5.56	0.41	8,091	121,234	0.00					0	29,566.000	836,481.939
24	7228.90	30.27	5.38	0.35	8,291	119,870	6978.20	28.50	5.55	0.36	8,463	118,113	862.30	26.89	4.93	0.39	8,819	15,210	25,550.550	846,963.089
25	7389.25	18.36	5.91	0.43	9,743	143,987	7240.00	28.42	4.46	0.27	8,657	125,353	6508.75	26.36	4.66	0.29	8,868	115,439	24,810.300	850,635.389
26	7250.35	27.47	5.06	0.36	8,678	125,837	7602.85	32.70	4.41	0.33	8,139	123,759	7883.05	27.66	4.43	0.30	8,710	137,323	28,619.200	856,518.339
27	7962.25	26.13	5.24	0.36	8,815	140,374	7698.75	26.23	4.53	0.29	8,874	136,637	7773.30	26.24	4.42	0.28	8,913	138,567	25,331.500	858,415.539
28	7224.85	35.01	4.62	0.34	7,772	112,303	7050.50	31.10	4.99	0.35	8,226	115,995	6817.25	34.50	5.14	0.29	7,787	106,172	25,839.575	863,162.514
29						0						0						0		863,162.514
30						0						0						0		863,162.514
31						0						0						0		863,162.514
Total	185904.50	29.36	5.35	0.35	8,389	3,119,106	176909.15	30.53	4.98	0.33	8,292	2,933,913	168645.40	29.79	5.02	0.36	8,384	2,827,778	652,542.025	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	997.92	3,119,106

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 2	3297.28	2,933,913

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 3	1357.30	2,827,778

* Fuel key
B = blended oil
2 = #2 Fuel Oil

	6.00	4
	5.85	5
		6

A-8
pg 29 of 92

SWEPCO
WELSH
January 2002

	Unit #1						Unit #2						Unit #3						Starting Inv:	769481.639
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	6375.15	28.27	7.69	0.30	8,246	105,139	6291.35	27.39	5.47	0.31	8,635	108,652	6931.40	24.85	4.84	0.28	9,036	125,264	15,178.000	765,061.739
2	7557.40	36.18	6.65	0.32	7,363	111,290	7397.05	27.54	5.38	0.32	8,630	127,673	7650.35	29.60	7.46	0.26	8,068	123,446	12,615.000	755,071.939
3	7317.65	28.27	4.18	0.21	8,725	127,693	6830.90	25.20	4.52	0.22	9,098	124,295	7119.60	37.68	6.57	0.26	7,166	102,038	29,359.000	763,162.789
4	7279.50	28.94	4.79	0.31	8,585	124,989	6775.60	26.68	5.30	0.34	8,778	118,952	6534.25	27.19	7.32	0.27	8,394	109,697	12,255.500	754,828.939
5	7270.25	27.72	5.24	0.26	8,631	125,499	7174.20	27.49	5.01	0.34	8,730	125,262	7196.80	26.60	5.87	0.40	8,699	125,210	27,793.150	760,980.839
6	6476.55	29.56	4.58	0.26	8,462	109,609	6183.75	27.03	5.90	0.36	8,646	106,929	6117.35	27.70	5.70	0.37	8,553	104,643	27,597.550	769,800.739
7	7024.05	28.54	4.89	0.34	8,641	121,390	7047.05	27.33	4.70	0.32	8,725	122,971	7116.40	28.55	5.08	0.33	8,568	121,947	25,369.275	773,982.514
8	6666.05	25.86	4.65	0.30	9,028	120,362	6837.50	26.73	4.72	0.31	8,874	121,352	7067.00	31.50	5.12	0.33	8,190	115,757	28,036.225	781,448.189
9	6568.60	25.36	6.22	0.32	8,742	114,845	5807.25	30.57	4.91	0.42	8,424	97,841	5685.75	31.35	5.10	0.30	8,191	93,144	12,241.000	775,627.589
10	6571.45	24.82	5.70	0.31	8,871	116,591	5301.65	24.66	5.67	0.32	8,876	94,115	5194.90	26.13	4.33	0.25	8,978	93,280	25,534.600	784,094.189
11	6813.30	20.85	6.76	0.33	9,257	126,141	5940.90	24.66	5.67	0.32	8,876	105,463	5783.20	20.58	5.04	0.31	9,578	110,783	15,228.700	780,785.489
12	7003.25	20.16	6.61	0.32	9,355	131,031	5942.40	23.68	5.25	0.42	9,258	110,029	5874.55	20.14	5.20	0.29	9,613	112,944	12,972.250	774,937.539
13	6640.30	16.92	7.21	0.34	9,671	128,437	5549.80	24.78	5.26	0.40	9,098	100,984	6288.35	22.37	4.82	0.29	9,402	118,246	27,483.700	783,942.789
14	6537.45	29.36	4.86	0.37	8,592	112,340	5751.95	30.06	4.72	0.36	8,464	97,369	5598.15	28.03	5.48	0.33	8,558	95,818	25,358.300	791,413.539
15	6908.60	29.82	4.42	0.26	8,448	116,728	6498.05	30.81	4.67	0.31	8,303	107,907	6418.35	26.32	5.69	0.33	8,702	111,705	12,446.000	784,034.539
16	6711.55	28.35	4.60	0.27	8,583	115,210	6441.50	30.40	4.67	0.29	8,326	107,264	6457.05	23.94	5.65	0.33	9,011	116,369	12,302.000	776,726.439
17	7184.80	38.55	6.33	0.30	7,092	101,909	6838.40	35.51	4.70	0.28	7,696	105,257	6176.95	36.30	5.30	0.31	7,462	92,185	12,894.475	76[illegible]
18	7378.70	30.11	6.03	0.32	8,164	120,479	6380.95	39.94	4.94	0.27	7,079	90,341	5467.65	32.37	4.60	0.31	8,131	105,177	29,512.000	77[illegible]
19	7161.90	38.82	5.56	0.29	7,164	102,616	6262.75	30.26	4.57	0.23	8,411	105,352	4857.85	34.38	4.99	0.29	7,776	75,549	12,934.525	773,[illegible]
20	5882.30	32.02	5.39	0.28	8,064	94,870	5692.25	30.08	4.79	0.24	8,375	95,345	5703.10	32.28	5.04	0.31	8,088	92,253	13,242.950	769,322.789
21	7073.65	31.10	4.64	0.36	8,390	118,696	6516.75	30.40	4.85	0.41	8,462	110,289	6410.20	31.19	5.57	0.52	8,250	105,768	40,734.925	790,057.114
22	7328.35	33.02	4.60	0.35	8,138	119,276	7236.95	29.34	5.06	0.34	8,492	122,912	7159.90	26.18	5.44	0.45	8,881	127,174	13,055.000	781,386.914
23	7161.10	30.89	5.03	0.34	8,325	119,232	6931.05	29.55	4.76	0.36	8,558	118,632	6470.20	26.18	5.44	0.45	8,881	114,924	39,871.625	800,696.189
24	7215.25	32.57	5.23	0.38	8,073	116,497	7242.05	27.62	4.70	0.27	8,756	126,823	6992.85	33.63	5.56	0.46	7,900	110,487	12,860.050	792,106.089
25	6817.90	31.77	5.20	0.39	8,183	111,582	6843.80	31.51	5.36	0.29	8,091	110,746	6518.05	34.66	5.51	0.49	7,793	101,590	14,008.000	785,934.339
26	7519.40	31.01	5.34	0.37	8,240	123,920	7386.50	29.57	5.55	0.32	8,371	123,665	7384.95	43.72	5.15	0.48	6,637	98,028	12,902.575	776,546.064
27	6159.40	33.70	5.48	0.41	7,912	97,466	6218.75	33.84	4.92	0.28	7,876	97,958	6783.20	35.05	5.27	0.42	7,753	105,180	14,766.900	772,151.614
28	6786.50	32.20	5.34	0.34	8,052	109,290	6660.40	35.72	5.50	0.28	7,534	100,359	6422.75	34.45	6.55	0.34	7,474	96,007	0.000	752,281.964
29	6909.05	34.76	4.97	0.31	7,775	107,436	6783.10	32.10	4.94	0.24	8,079	109,601	6575.00	25.23	6.26	0.29	8,782	115,483	28,024.575	760,039.389
30	7396.75	32.49	5.65	0.32	7,961	117,771	7073.30	27.16	5.67	0.31	8,645	122,297	6704.05	28.00	5.44	0.29	8,573	114,948	25,266.750	764,132.039
31	7585.00	30.18	5.64	0.33	8,269	125,441	7528.65	31.43	4.81	0.29	8,246	124,162	6938.85	31.29	7.08	0.28	8,290	115,046	0.000	742,079.539
Total	215281.15	29.82	5.46	0.32	8,347	3,593,775	203366.55	29.37	5.06	0.31	8,460	3,440,798	200599.00	29.71	5.60	0.34	8,350	3,350,092	591,844.600	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	572.04	3,593,775
Unit # 2	461.16	3,440,798
Unit # 3	422.80	3,350,092

* Fuel key
B = blended oil
2 = #2 Fuel Oil

	6.00	4
	5.85	5
		6

A7 8, 2930 42

SWEPCO
WELSH
November 2001

	Unit # 1						Unit # 2						Unit # 3						Starting Inv.	651429.014
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	0.00					0	7392.35	27.67	4.76	0.39	8,651	127,902	7338.15	26.00	5.34	0.37	8,758	128,535	12,567.850	649,266.364
2	0.00					0	7460.90	23.70	5.73	0.31	9,033	134,789	7429.55	21.52	5.93	0.32	9,247	137,402	27,188.050	661,563.964
3	0.00					0	6745.30	24.21	5.64	0.30	8,951	120,754	6803.00	19.80	5.88	0.35	9,492	129,148	14,777.000	662,792.664
4	0.00					0	6608.95	20.60	5.69	0.30	9,401	124,261	6589.40	20.10	6.03	0.31	9,435	124,342	0.000	649,594.314
5	0.00					0	6804.10	28.52	5.15	0.33	8,487	115,493	6325.20	25.33	5.10	0.31	8,892	112,487	0.000	636,465.014
6	0.00					0	7160.30	29.03	5.00	0.34	8,411	120,451	7141.40	25.80	5.53	0.34	8,713	124,446	0.000	622,163.314
7	0.00					0	7480.95	30.42	5.73	0.35	8,129	121,625	7444.25	27.47	5.26	0.32	8,570	127,594	25,178.000	632,416.114
8	0.00					0	7233.50	28.44	5.82	0.38	8,375	121,161	7089.80	26.04	5.69	0.40	8,702	123,391	27,517.350	645,610.164
9	0.00					0	7067.05	24.81	5.34	0.31	8,919	126,062	5923.30	30.65	4.50	0.24	8,252	97,758	27,003.950	659,623.764
10	0.00					0	7060.25	27.88	4.84	0.28	8,573	121,055	7190.55	26.16	5.19	0.22	8,608	123,793	27,684.550	673,057.514
11	0.00					0	7044.70	37.48	5.49	0.29	7,197	101,401	6926.00	36.18	4.59	0.27	7,511	104,042	29,572.150	688,658.964
12	0.00					0	6423.55	18.37	5.88	0.38	9,579	123,052	6411.75	25.65	5.03	0.28	8,911	114,270	0.000	675,823.664
13	0.00					0	6921.40	18.97	5.61	0.32	9,589	132,739	6829.40	25.01	5.36	0.39	8,962	122,410	12,864.150	674,937.014
14	0.00					0	6725.30	18.73	5.57	0.33	9,489	127,633	6870.35	25.37	5.99	0.37	8,689	119,393	12,714.650	674,056.014
15	0.00					0	6885.60	25.76	5.95	0.39	8,636	118,928	6858.25	26.44	6.06	0.42	8,560	117,413	27,527.850	687,840.014
16	17.65	27.33	4.90	0.36	8,689	307	6846.65	32.34	4.97	0.31	7,973	109,177	6792.60	31.16	4.93	0.31	8,124	110,366	27,325.100	701,[illegible]
17	1264.90	25.78	5.31	0.25	8,754	22,146	5930.55	24.97	5.56	0.32	8,834	104,781	5840.30	29.17	6.59	0.32	8,169	95,419	27,899.025	71[illegible]
18	2412.85	30.22	5.58	0.29	8,151	39,334	5685.70	28.35	5.81	0.32	8,377	95,258	5258.60	30.31	6.52	0.33	8,018	84,327	27,966.650	730,[illegible]
19	5444.80	28.33	4.93	0.22	8,483	92,376	6486.50	30.77	5.13	0.34	8,173	106,028	6570.60	25.91	7.18	0.39	8,480	111,437	14,462.500	726,941.589
20	6598.00	18.75	5.49	0.37	9,602	126,708	6809.75	30.48	4.93	0.39	8,227	112,048	6833.20	29.10	5.87	0.33	8,227	112,433	12,365.050	719,065.689
21	7137.40	27.14	5.18	0.34	8,590	122,621	7163.05	28.72	4.65	0.34	8,471	121,356	7081.10	26.72	6.73	0.33	8,400	118,962	12,844.950	710,529.089
22	6870.50	29.03	5.07	0.34	8,333	114,504	5887.25	28.67	5.19	0.21	8,401	98,918	5729.20	28.50	6.60	0.35	8,276	94,830	12,495.100	704,537.239
23	7074.70	31.14	5.00	0.35	8,100	114,610	2457.35	28.67	5.19	0.21	8,401	41,288	6157.45	30.64	5.20	0.32	8,105	99,812	27,513.900	716,361.639
24	6249.10	27.79	4.64	0.37	8,569	107,097	0.00					0	5929.20	26.49	5.36	0.42	8,645	102,516	27,837.250	732,020.589
25	5897.00	27.08	5.31	0.32	8,576	101,145	0.00					0	6148.75	25.94	5.59	0.38	8,693	106,902	27,743.900	747,718.739
26	1307.25	28.12	5.36	0.41	8,489	22,194	0.00					0	6888.00	26.87	5.80	0.19	8,565	117,991	0.000	739,523.489
27	2596.30	30.48	4.77	0.44	8,198	42,569	0.00					0	6580.55	26.44	6.03	0.50	8,579	112,909	26,911.250	757,257.889
28	2728.80	32.52	5.07	0.54	7,944	43,355	0.00					0	8028.70	24.83	6.35	0.60	8,856	142,204	0.000	746,500.389
29	2745.75	40.95	4.21	0.29	6,984	38,353	0.00					0	8012.40	26.39	5.54	0.42	8,713	139,624	14,632.000	750,374.239
30	2716.10	29.31	4.84	0.31	8,371	45,473	316.15	28.67	5.19	0.21	8,401	5,312	7479.95	24.94	5.64	0.41	8,865	132,620	-81,844.550	658,017.489
31						0						0						0		658,017.489
Total	61061.10	28.29	5.06	0.34	8,457	1,032,792	152597.15	26.85	5.37	0.33	8,622	2,631,483	202500.95	26.60	5.71	0.35	8,614	3,488,779	422,747.675	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	9024.26	1,032,792
Unit # 2	2166.92	2,631,483
Unit # 3	292.18	3,488,779

* Fuel key
B = blended oil 6.00
2 = #2 Fuel Oil 5.85

4
5
6

Att 8, pg 32 of 42

SWEPCO
WELSH
OCTOBER 2001

	Unit #1						Unit #2						Unit #3						Starting Inv.	512811.914
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	0.00					0	6898.30	30.46	5.25	0.20	8,202	113,160	6539.10	29.86	5.90	0.32	8,221	107,516	30,579.000	529,953.514
2	0.00					0	6297.90	29.07	5.85	0.28	8,260	104,041	6829.20	31.48	5.92	0.30	7,984	109,049	12,903.575	529,729.989
3	0.00					0	4092.20	29.07	5.85	0.28	8,260	67,603	7167.25	25.84	5.17	0.39	8,851	X 126,875	12,989.200	531,459.739
4	0.00					0	6635.90	28.05	4.76	0.33	8,554	113,527	7475.70	30.57	5.47	0.30	8,105	121,181	27,829.800	545,177.939
5	0.00					0	7134.20	30.48	4.70	0.34	8,269	117,985	7363.70	29.73	4.55	0.30	8,385	123,489	0.000	530,680.039
6	0.00					0	6646.55	29.52	4.25	0.26	8,423	111,968	6684.90	31.79	4.95	0.29	8,076	107,975	26,234.675	543,583.264
7	0.00					0	6349.85	28.99	4.31	0.21	8,495	107,884	6319.50	29.36	5.08	0.32	8,340	105,409	12,984.875	543,898.789
8	0.00					0	6922.80	31.45	4.67	0.31	8,166	113,063	6933.15	30.37	4.85	0.32	8,232	114,147	28,301.750	558,344.589
9	0.00					0	7020.80	27.73	5.02	0.36	8,559	120,182	6997.55	33.43	5.05	0.32	7,803	109,204	15,003.000	559,329.239
10	0.00					0	7141.15	25.70	5.72	0.33	8,705	X 124,327	7339.50	32.20	5.08	0.34	7,987	117,241	27,960.225	572,808.814
11	0.00					0	6620.65	31.66	5.54	0.35	8,019	106,182	6990.80	27.27	6.00	0.34	8,522	119,151	14,588.500	573,785.864
12	0.00					0	6991.40	29.85	5.84	0.34	8,179	114,365	6994.85	33.56	4.79	0.35	7,973	111,540	12,973.750	572,773.364
13	0.00					0	6900.75	31.54	5.09	0.41	8,092	111,682	6760.60	31.78	5.29	0.43	7,999	108,156	13,015.325	572,127.339
14	0.00					0	6819.90	32.51	5.11	0.38	8,078	110,182	6730.30	32.91	4.80	0.37	7,953	107,052	39,182.800	597,759.939
15	0.00					0	7202.55	25.63	5.78	0.38	8,699	X 125,310	7199.95	19.98	5.62	0.36	9,372	X 134,956	13,077.700	596,435.139
16	0.00					0	7222.80	31.62	4.93	0.35	8,077	116,677	7088.25	26.51	6.44	0.33	8,482	120,245	12,847.825	594,971.914
17	0.00					0	7249.65	28.98	5.22	0.27	8,427	122,186	6651.75	31.59	4.95	0.34	8,121	108,038	15,082.000	59[illegible]
18	0.00					0	6978.20	26.45	5.16	0.27	8,681	121,156	6965.30	29.58	5.74	0.34	8,247	114,886	29,756.000	61[illegible]
19	0.00					0	7083.55	26.41	5.31	0.30	8,691	123,126	7042.80	26.08	7.73	0.37	8,406	118,404	27,523.050	625,[illegible]
20	0.00					0	7099.85	26.99	5.62	0.31	8,589	121,961	7065.80	29.57	5.76	0.32	8,225	116,232	12,994.325	624,190.389
21	0.00					0	7238.25	29.44	5.02	0.39	8,357	120,980	7323.80	29.55	5.35	0.38	8,308	121,692	12,999.000	622,627.339
22	0.00					0	7383.30	28.29	5.08	0.39	8,506	X 125,605	7385.00	31.07	5.29	0.40	8,141	120,243	26,105.725	633,964.764
23	0.00					0	7487.45	26.83	5.35	0.37	8,635	X 129,308	7472.55	29.27	5.01	0.33	8,341	X 124,657	13,085.075	632,089.839
24	0.00					0	7448.75	26.86	4.97	0.22	8,654	X 128,923	7480.95	29.71	4.98	0.33	8,321	X 124,498	27,698.275	644,858.414
25	0.00					0	7280.15	30.79	4.39	0.31	8,244	120,035	7284.50	29.41	5.21	0.36	8,354	121,709	0.000	630,293.764
26	0.00					0	6970.45	28.49	4.85	0.23	8,502	118,526	6907.25	26.07	5.53	0.41	8,708	120,297	29,852.000	646,268.064
27	0.00					0	7118.25	26.79	5.88	0.25	8,600	122,434	7057.95	26.16	5.85	0.37	8,633	121,863	0.000	632,091.864
28	0.00					0	7635.65	29.27	5.54	0.30	8,326	X 127,149	7531.85	23.55	6.62	0.34	8,937	X 134,624	12,642.700	629,567.064
29	0.00					0	7382.45	31.12	5.29	0.32	8,156	120,423	7299.15	33.17	4.79	0.33	7,959	116,188	13,115.300	628,000.764
30	0.00					0	7445.90	30.14	4.97	0.37	8,283	123,349	7366.50	30.81	4.83	0.36	8,190	120,663	38,247.050	651,435.414
31	0.00					0	7295.85	29.55	5.59	0.34	8,243	120,279	7193.55	24.46	5.55	0.37	8,824	X 126,952	14,483.000	651,429.014
Total	0.00	0.00%	0.00%	0.00%	0	0	215995.40	29.01	5.19	0.32	8,388	3,623,578	219443.00	29.22	5.42	0.35	8,326	3,654,131	574,055.500	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	.00	0
Unit # 2	1389.64	3,623,578
Unit # 3	170.10	3,654,131

* Fuel key
B = blended oil
2 = #2 Fuel Oil

	6.00	4
	5.85	5
		6

AT 8
B 33 of 42

SWEPCO
WELSH
DECEMBER 2001

	Unit 1						Unit 2						Unit 3						Starting Inv:	658017.489
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	2609.60	25.16	4.79	0.29	8,929	46,602	1721.00	24.36	5.33	0.39	8,952	30,813	7554.15	35.67	5.01	0.31	7,542	113,947	41,130.900	687,263.639
2	2641.60	25.47	5.23	0.33	8,824	46,619	6616.95	27.05	5.23	0.32	8,573	113,454	6843.00	40.31	4.90	0.31	6,950	95,118	12,948.550	684,110.639
3	2677.65	27.82	5.94	0.35	8,498	45,509	7042.25	25.38	5.89	0.35	8,804	124,000	7142.70	22.95	6.52	0.33	8,930	127,569	15,289.000	682,537.039
4	2649.90	25.27	5.27	0.32	8,896	47,147	7064.45	24.21	6.33	0.36	8,892	125,634	7036.30	20.87	7.06	0.35	9,155	128,835	12,428.500	678,214.889
5	2710.55	28.09	6.20	0.35	8,395	45,510	7124.80	29.46	5.02	0.32	8,343	118,884	6430.80	29.66	5.47	0.33	8,277	106,455	13,399.000	675,347.739
6	2622.75	23.64	5.62	0.28	9,042	47,430	6870.05	24.79	5.41	0.34	8,889	122,136	6693.60	28.88	5.49	0.33	8,385	112,252	27,571.550	686,732.889
7	4838.05	23.64	5.62	0.28	9,042	87,491	6581.10	26.77	5.69	0.29	8,658	113,958	6828.55	21.86	5.67	0.31	9,311	127,161	12,617.400	681,102.589
8	6112.60	24.51	5.72	0.36	8,925	109,110	6570.45	26.70	5.49	0.37	8,645	113,603	6490.85	22.58	5.58	0.36	9,185	119,237	24,641.800	686,570.489
9	5840.35	24.06	5.81	0.36	8,958	104,636	6119.90	23.32	6.52	0.39	8,954	109,595	6106.40	32.13	5.40	0.32	7,973	97,373	43,763.000	712,266.839
10	7093.25	25.17	5.64	0.30	8,884	126,033	6480.20	29.24	4.68	0.27	8,480	109,904	6999.15	21.76	5.25	0.21	9,323	130,506	24,846.800	716,541.039
11	7232.70	31.17	4.93	0.32	8,231	119,065	7364.85	25.42	5.37	0.32	8,870	130,652	7434.80	25.11	4.90	0.34	8,966	133,321	12,768.200	707,276.889
12	7163.80	27.61	4.83	0.35	8,678	124,335	6941.35	24.24	5.19	0.39	9,049	125,625	7140.20	23.55	6.09	0.39	9,043	129,138	25,235.425	711,266.964
13	6439.05	25.62	5.60	0.37	8,779	113,057	6625.55	23.40	5.56	0.40	9,134	121,036	6624.60	39.12	5.20	0.28	7,084	93,857	25,929.600	717,507.364
14	6941.65	24.43	5.98	0.40	8,934	124,033	6717.10	28.02	4.58	0.32	8,709	116,998	7028.65	31.24	4.83	0.12	8,259	116,099	15,126.000	711,945.964
15	6877.05	29.25	5.24	0.36	8,405	115,603	6400.65	39.50	4.77	0.34	7,180	91,913	6256.60	36.81	4.36	0.27	7,607	95,188	25,875.025	718,286.689
16	6939.40	28.71	5.47	0.35	8,511	118,122	5612.30	31.77	4.58	0.40	8,282	92,962	5866.45	34.61	5.02	0.35	7,802	91,540	0.000	699,868.539
17	6915.80	27.81	4.69	0.26	8,717	120,570	5394.85	30.59	4.84	0.20	8,322	89,792	5875.45	32.42	4.64	0.20	8,124	95,464	14,931.000	69[illegible]
18	6931.70	27.91	4.56	0.26	8,724	120,944	6104.20	30.02	4.62	0.20	8,435	102,978	6162.35	35.28	5.62	0.27	7,623	93,951	39,306.450	71[illegible]
19	6721.80	27.16	4.73	0.30	8,788	118,142	5882.15	29.22	4.96	0.20	8,468	99,855	5870.70	33.12	4.65	0.20	8,024	94,213	29,812.000	728,058.989
20	6081.35	29.66	4.84	0.29	8,450	102,775	6014.75	26.43	5.20	0.38	8,861	106,593	5993.10	28.51	4.50	0.44	8,618	103,297	25,102.950	735,072.739
21	6557.95	34.16	4.54	0.39	7,882	103,380	6520.45	26.95	5.36	0.40	8,719	113,704	5961.70	23.16	4.94	0.39	9,273	110,566	14,753.000	730,785.639
22	6750.00	34.02	4.59	0.37	7,901	106,664	6362.15	33.35	5.38	0.30	7,868	100,115	6579.60	36.60	4.97	0.27	7,531	99,102	25,463.550	736,557.439
23	6179.55	33.82	4.96	0.37	7,829	96,759	6103.15	30.38	5.36	0.42	8,249	100,690	5919.65	32.89	4.75	0.38	8,004	94,762	0.000	718,355.089
24	5871.50	38.20	5.04	0.26	7,297	85,689	5770.00	32.19	4.62	0.25	8,149	94,039	5820.55	41.09	4.30	0.24	7,034	81,883	29,853.200	730,746.239
25	6019.65	36.81	4.54	0.30	7,521	90,548	5988.55	30.77	5.00	0.32	8,288	99,266	5621.25	24.96	5.31	0.36	8,986	101,025	0.000	713,116.789
26	7087.75	42.27	5.19	0.29	6,770	95,968	6727.70	29.87	6.04	0.32	8,242	110,899	6856.25	30.23	4.96	0.33	8,350	114,499	14,339.000	706,784.089
27	6636.25	30.78	4.61	0.22	8,321	110,440	6525.05	28.39	6.28	0.31	8,378	109,334	6529.35	24.80	5.05	0.29	9,042	118,077	27,465.350	714,558.789
28	6212.25	26.01	5.25	0.25	8,832	109,733	6011.15	40.60	6.08	0.30	6,855	82,413	6157.75	29.04	4.55	0.23	8,563	105,458	26,734.650	722,912.289
29	6698.95	28.75	5.14	0.22	8,472	113,507	6669.40	25.41	6.09	0.26	8,812	117,542	6706.25	24.21	5.18	0.29	9,093	121,960	40,755.450	743,593.139
30	7037.75	31.38	5.61	0.30	8,079	113,716	6926.00	26.17	5.79	0.29	8,745	121,136	7555.15	24.85	4.84	0.28	9,036	136,537	27,530.800	749,605.039
31	6652.95	36.44	5.01	0.21	7,513	99,967	6734.30	30.49	5.71	0.30	8,216	110,658	7285.00	24.85	4.84	0.28	9,036	131,655	40,548.850	769,481.639
Total	179745.15	29.67	5.15	0.31	8,370	3,009,105	195586.80	28.50	5.40	0.32	8,488	3,320,182	203370.90	29.29	5.17	0.30	8,408	3,420,043	690,167.000	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	1034.88	3,009,105
Unit # 2	3627.96	3,320,182
Unit # 3	622.16	3,420,043

* Fuel key
B = blended oil
2 = #2 Fuel Oil

	6.00	4
	5.85	5
		6

AT 8,
RS 3/19/02

SWEPCO
WELSH
SEPT 2001

	Unit # 1						Unit # 2						Unit # 3						Starting Inv.	492818.089
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	7230.15	28.35	4.46	0.23	8,514	123,115	6337.60	25.35	4.33	0.25	8,928	113,164	6543.50	22.76	5.46	0.35	9,092	118,987	0.000	472,706.839
2	6731.25	29.83	4.97	0.33	8,280	111,470	6646.10	28.06	4.63	0.27	8,526	113,329	6740.30	29.09	4.59	0.29	8,376	112,914	41,069.550	493,658.739
3	7414.95	28.09	5.55	0.39	8,429	125,001	6957.85	28.65	5.20	0.37	8,392	116,781	6944.85	28.11	4.92	0.28	8,491	117,937	12,990.825	485,331.914
4	7656.90	34.74	5.33	0.33	7,683	117,656	7394.00	28.07	5.15	0.38	8,508	125,816	7439.25	29.85	5.76	0.35	8,250	122,748	25,937.975	488,779.739
5	7595.20	28.94	6.12	0.37	8,337	126,642	7330.00	29.91	4.92	0.38	8,338	122,235	7364.90	22.31	5.31	0.33	9,189	135,352	41,146.875	507,636.514
6	7106.25	27.52	4.86	0.25	8,668	123,194	6854.60	30.11	4.69	0.31	8,335	114,266	6818.25	29.33	5.62	0.39	8,283	112,951	14,949.000	501,806.414
7	7011.95	29.40	4.85	0.30	8,382	117,548	7330.25	27.77	4.49	0.27	8,657	126,916	7256.75	24.63	5.71	0.32	8,859	128,575	0.000	480,207.464
8	7488.00	29.83	4.92	0.35	8,320	124,600	7406.30	30.65	4.98	0.36	8,207	121,567	7506.00	31.33	5.14	0.32	8,063	121,042	15,187.000	472,994.164
9	7438.70	34.69	4.62	0.29	7,722	114,883	6507.05	30.06	4.87	0.25	8,281	107,770	6876.80	33.18	4.92	0.32	7,833	107,732	12,988.500	465,160.114
10	7519.35	32.43	4.59	0.35	8,038	120,881	6636.10	29.14	5.04	0.35	8,419	111,739	7140.95	34.71	4.96	0.34	7,912	112,998	28,087.025	471,950.739
11	7133.75	29.57	4.65	0.38	8,434	120,332	6607.70	29.47	4.66	0.38	8,450	111,670	6708.80	34.81	6.16	0.37	7,752	104,013	25,956.300	477,456.789
12	7271.95	29.03	5.25	0.33	8,377	121,834	7094.15	29.24	5.82	0.33	8,278	117,451	6884.90	28.45	5.98	0.32	8,373	115,295	13,054.475	469,260.264
13	7386.95	27.15	5.65	0.36	8,689	128,370	7502.50	28.66	5.13	0.40	8,494	127,452	7197.90	28.20	5.46	0.36	8,490	122,220	41,135.975	488,308.889
14	7614.10	27.50	4.88	0.26	8,535	129,973	7420.95	27.53	4.94	0.31	8,544	126,809	7345.30	20.57	5.70	0.36	9,238	135,712	27,853.750	493,782.289
15	7376.50	28.73	4.74	0.32	8,439	124,501	7296.40	28.95	4.84	0.31	8,350	121,883	7288.00	22.04	5.65	0.33	9,021	131,490	0.000	471,819.389
16	7338.25	28.65	4.83	0.34	8,430	123,723	6843.00	27.77	4.79	0.34	8,511	116,482	6886.55	24.47	5.70	0.35	8,791	121,079	14,968.000	465,719.589
17	6740.45	29.51	5.10	0.30	8,286	111,703	7034.30	29.55	4.75	0.26	8,387	117,993	6974.05	26.58	4.61	0.31	8,740	121,906	28,101.025	473[illegible]
18	6595.95	28.66	5.08	0.36	8,470	111,735	7332.55	30.70	4.86	0.38	8,250	120,987	6690.55	28.73	4.76	0.26	8,532	114,168	15,053.850	467[illegible]
19	6279.20	30.04	5.18	0.43	8,302	104,260	7054.80	32.15	4.77	0.37	8,058	113,695	0.00					0	25,940.225	480,112.839
20	6681.05	31.05	5.13	0.41	8,261	110,384	6968.50	30.01	4.97	0.40	8,366	116,597	0.00					0	12,961.025	479,424.314
21	6839.00	30.46	4.79	0.41	8,286	113,336	6904.00	31.41	4.64	0.41	8,194	113,143	0.00					0	25,954.600	491,635.914
22	7080.20	30.84	4.83	0.37	8,220	116,398	6991.25	28.09	5.40	0.37	8,477	118,530	0.00					0	13,064.325	490,628.789
23	7007.40	31.52	4.93	0.37	8,133	113,982	6812.40	27.42	5.44	0.38	8,665	118,059	45.15	27.42	5.44	0.38	8,665	782	12,900.975	489,664.814
24	6778.20	27.93	4.65	0.26	8,596	116,531	6707.00	31.38	5.06	0.41	8,152	109,351	3038.85	30.31	4.94	0.31	8,219	49,953	29,942.000	503,082.764
25	6188.40	30.09	4.79	0.29	8,314	102,901	6445.35	29.07	4.10	0.24	8,527	109,919	6462.35	27.81	4.58	0.22	8,618	111,385	0.000	483,986.664
26	5581.70	30.93	5.03	0.37	8,140	90,870	6119.40	32.65	4.89	0.35	7,978	97,641	6055.50	33.09	4.95	0.37	7,931	96,052	27,697.475	493,927.539
27	6056.35	30.79	4.58	0.36	8,276	100,245	5750.30	30.79	4.58	0.36	8,276	95,179	5885.15	30.22	4.87	0.34	8,284	97,505	12,994.975	489,230.714
28	6139.80	27.33	4.90	0.36	8,689	106,697	6279.75	27.33	4.90	0.36	8,689	109,129	5963.25	28.81	4.91	0.36	8,512	101,518	26,179.600	497,027.514
29	0.00					0	6076.60	30.09	4.73	0.39	8,387	101,929	5781.10	32.36	5.66	0.37	7,912	91,480	25,990.700	511,160.514
30	0.00					0	5953.50	31.37	4.63	0.38	8,218	97,852	5471.20	32.00	4.41	0.28	8,104	88,677	13,076.100	512,811.914
31						0						0						0		512,811.914
Total	195281.90	29.78	4.98	0.34	8,328	3,252,767	204596.25	29.36	4.88	0.34	8,395	3,435,334	165310.15	28.38	5.25	0.33	8,452	2,794,473	585,182.125	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	2341.36	3,252,767
Unit # 2	658.98	3,435,334
Unit # 3	1928.92	2,794,473

* Fuel key
B = blended oil 6.00
2 = #2 Fuel Oil 5.85

4
5
6

RT 8, 8534 9/92

SWEPCO
WELSH
AUGUST 2001

	Unit #1						Unit #2						Unit #3						Starting Inv:	.500757.564
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	7727.20	27.21	5.48	0.40	8,574	132,506	7526.95	26.46	5.62	0.42	8,702	130,999	7476.20	25.79	5.36	0.29	8,673	129,682	27,578.725	505,605.939
2	7581.15	26.92	5.33	0.43	8,643	131,048	7402.70	28.16	4.75	0.32	8,619	127,608	7361.55	25.96	5.16	0.34	8,776	129,210	28,024.025	511,284.564
3	7487.10	24.25	4.89	0.29	8,929	133,705	7227.60	27.15	5.79	0.42	8,589	124,156	7197.35	27.45	4.99	0.35	8,634	124,284	12,907.950	502,280.464
4	7225.45	30.41	5.04	0.37	8,305	120,015	7200.70	29.14	5.33	0.37	8,416	121,202	7116.05	25.98	4.83	0.28	8,775	124,887	12,969.475	493,707.739
5	7299.60	28.56	5.49	0.38	8,408	122,750	7226.80	23.33	5.50	0.37	9,162	132,424	7112.75	26.81	5.23	0.33	8,730	124,189	12,982.250	485,050.839
6	7322.00	28.69	5.10	0.37	8,465	123,961	7159.70	24.22	5.52	0.38	8,919	127,715	7104.20	24.76	6.34	0.39	8,674	123,244	27,996.525	491,461.464
7	6821.05	29.18	5.24	0.35	8,385	114,389	6841.80	27.97	5.50	0.31	8,496	116,256	6725.80	21.81	7.31	0.38	9,005	121,132	28,064.000	499,136.814
8	7445.90	27.25	5.30	0.33	8,579	127,757	7303.60	28.45	4.77	0.34	8,495	124,086	7327.20	28.20	5.52	0.37	8,449	123,815	14,340.000	491,400.114
9	7224.55	29.33	5.15	0.37	8,395	121,300	7208.15	27.84	5.34	0.34	8,539	123,101	7124.00	25.75	5.14	0.33	8,844	126,009	42,734.900	512,578.314
10	7418.15	31.55	4.97	0.37	8,126	120,560	7138.10	27.75	5.04	0.33	8,678	123,889	7320.20	25.69	4.63	0.34	8,906	130,387	12,992.200	503,694.064
11	7380.90	26.56	5.59	0.36	8,650	127,690	7528.95	22.92	5.68	0.33	9,149	137,765	7266.25	27.07	4.87	0.37	8,679	126,128	25,897.675	507,415.639
12	7122.20	29.83	5.25	0.35	8,266	117,744	7003.85	27.21	5.35	0.34	8,566	119,990	6995.00	29.70	5.14	0.33	8,287	115,935	25,940.175	512,234.764
13	7359.45	28.29	5.65	0.37	8,405	123,712	7234.70	29.03	4.92	0.34	8,432	122,006	7226.20	30.68	5.23	0.34	8,143	117,686	0.000	490,414.414
14	7388.20	26.67	5.10	0.32	8,682	128,289	7305.85	28.14	5.26	0.26	8,459	123,600	7293.00	28.39	6.10	0.32	8,336	121,589	27,564.650	495,992.014
15	7292.15	29.41	5.62	0.31	8,306	121,137	7193.60	26.75	6.12	0.31	8,555	123,082	7194.70	29.72	5.85	0.31	8,203	118,036	27,860.425	502,171.989
16	7361.85	28.06	5.91	0.30	8,417	123,929	7113.95	30.98	5.05	0.36	8,185	116,455	7238.30	27.96	5.71	0.25	8,422	121,922	14,839.000	495,296.889
17	7198.75	26.90	6.80	0.30	8,395	120,867	7030.75	25.81	5.53	0.24	8,722	122,644	7087.45	26.90	6.80	0.30	8395	118,998	29,755.550	503[illegible]79
18	7185.75	24.90	5.40	0.27	8,871	127,490	6941.75	27.80	4.31	0.29	8,696	120,731	6792.05	26.52	5.81	0.29	8,587	116,647	25,932.200	508[illegible]9
19	7095.20	27.10	4.81	0.32	8,715	123,669	6899.25	27.19	4.55	0.31	8,760	120,875	6820.15	26.08	5.77	0.30	8,698	118,643	13,090.175	501,[illegible]714
20	7214.90	28.42	5.31	0.34	8,447	121,889	7158.75	23.30	5.85	0.33	9,013	129,044	7015.80	26.98	5.68	0.35	8,558	120,082	25,880.950	505,515.214
21	7607.80	28.08	4.96	0.36	8,597	130,809	7463.45	27.94	4.87	0.37	8,611	128,536	7413.05	26.72	5.19	0.34	8,690	128,839	15,189.000	498,219.914
22	7771.15	29.49	6.24	0.35	8,195	127,369	7415.10	27.35	5.60	0.30	8,535	126,576	7431.25	27.72	5.21	0.38	8,609	127,951	12,966.275	488,568.689
23	7623.75	26.39	6.29	0.39	8,513	129,802	7154.10	28.25	4.82	0.32	8,530	122,049	7122.30	29.52	5.52	0.32	8,299	118,216	14,869.000	481,537.539
24	7458.05	23.74	8.89	0.45	8,595	128,204	7268.65	25.41	4.67	0.26	8,877	129,048	7283.35	30.53	6.22	0.33	8,052	117,291	15,047.000	474,574.489
25	7728.35	30.44	4.17	0.32	8,341	128,924	7237.95	30.47	4.31	0.33	8,318	120,411	7399.80	28.67	5.44	0.30	8,370	123,873	28,160.350	480,368.739
26	7197.90	25.51	4.36	0.34	8,946	128,785	6652.90	25.46	4.88	0.32	8,896	118,368	6873.80	32.00	4.76	0.33	8,071	110,957	27,864.925	487,509.064
27	7450.45	31.85	4.82	0.33	8,120	120,995	7074.90	31.85	4.82	0.33	8,120	114,896	7153.95	24.56	6.28	0.35	8,729	124,894	25,924.475	491,754.239
28	7356.15	28.71	5.13	0.42	8,462	124,495	6655.15	28.71	5.13	0.42	8,462	112,632	6970.60	26.71	5.91	0.35	8,597	119,852	25,914.075	496,686.414
29	7539.85	29.88	4.53	0.27	8,368	126,187	6817.95	29.88	4.53	0.27	8,368	114,105	6865.90	22.81	6.15	0.36	8,949	122,886	15,191.000	490,653.714
30	7361.25	31.00	4.27	0.22	8,262	121,637	6785.35	28.46	4.67	0.31	8,516	115,568	6754.95	25.21	5.88	0.37	8,700	117,536	28,067.275	497,819.439
31	7061.00	28.27	4.20	0.22	8,596	121,393	6426.15	28.76	4.34	0.31	8,504	109,296	6442.20	28.81	5.02	0.35	8,372	107,868	14,928.000	492,818.089
Total	228307.20	28.16	5.34	0.34	8,482	3,873,007	220599.15	27.47	5.12	0.33	8,611	3,799,114	220505.35	27.16	5.58	0.33	8,555	3,772,668	661,472.225	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	686.00	3,873,007
Unit # 2	828.52	3,799,114
Unit # 3	237.16	3,772,668

* Fuel key
B = blended oil
2 = #2 Fuel Oil

	6.00	4
	5.85	5
		6

DM 8/29/02

SWEPCO
WELSH
July 2001

	Unit 1						Unit 2						Unit 3						Starting Inv.	.602872.98
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	6812.30	29.15	4.95	0.19	8416	114,665	6663.35	26.06	4.95	0.21	8,839	117,795	6790.60	30.39	5.37	0.41	8,193	111,271	25,936.200	608,542.930
2	7231.20	28.28	5.12	0.29	8551	123,668	7091.15	25.75	4.67	0.35	8,914	* 126,421	7150.75	29.08	5.71	0.27	8,319	118,974	0.000	587,069.830
3	7108.00	31.64	4.78	0.20	8168	116,116	6802.15	24.47	4.95	0.28	9,039	122,969	6991.80	25.10	5.13	0.33	8,902	* 124,482	12,989.725	579,157.605
4	7084.15	29.59	4.89	0.34	8359	118,433	6037.90	30.18	4.68	0.39	8,355	100,893	6992.25	28.94	4.89	0.33	8,471	118,463	12,968.950	572,012.255
5	7338.80	34.35	5.18	0.25	7705	113,091	7333.25	26.70	4.95	0.27	8,750	* 128,332	7273.45	29.75	4.65	0.31	8,410	122,339	25,686.550	575,753.305
6	7490.20	30.62	4.82	0.30	8247	123,543	7313.40	29.38	4.60	0.50	8,460	123,743	7373.85	30.26	4.62	0.37	8,365	123,365	29,765.225	583,341.080
7	6906.45	24.48	5.27	0.34	8940	123,487	6983.05	29.35	4.50	0.29	8,462	118,181	7075.95	20.94	5.65	0.43	9,279	* 131,315	15,160.000	577,535.630
8	7193.20	26.82	5.13	0.32	8689	* 125,003	7035.65	26.67	5.45	0.28	8,668	121,970	7109.45	23.81	5.30	0.41	8,974	* 127,600	13,100.050	569,297.380
9	7414.95	31.05	5.57	0.30	8111	120,285	7327.25	25.79	5.40	0.43	8,726	* 127,875	7310.30	23.29	5.85	0.49	8,996	* 131,527	12,851.050	560,095.930
10	7498.00	21.27	5.66	0.39	9305	* 139,538	7305.25	28.87	5.26	0.40	8,375	122,363	7436.50	27.73	4.69	0.34	8,628	* 128,324	12,907.525	550,763.705
11	7612.90	26.51	5.28	0.35	8652	* 131,734	7528.55	28.12	5.09	0.46	8,476	* 127,624	7687.50	27.75	4.50	0.38	8,664	* 133,209	12,987.075	540,921.830
12	7630.45	32.19	4.66	0.38	8031	122,560	7539.80	27.16	5.17	0.44	8,625	* 130,062	7806.10	29.64	4.64	0.39	8,403	* 131,189	28,160.000	546,105.480
13	7348.80	31.19	4.75	0.32	8216	120,755	7315.00	30.14	4.61	0.30	8,378	122,570	7342.80	32.24	4.47	0.31	8,106	119,041	12,678.000	536,776.880
14	7315.00	31.62	4.92	0.35	8137	119,044	7304.75	32.51	4.26	0.31	8,121	118,644	7453.30	32.26	4.49	0.31	8,099	120,729	25,793.609	540,497.439
15	7038.35	31.39	4.66	0.31	8222	115,739	7426.15	30.80	4.40	0.30	8,310	123,423	7510.80	31.61	4.65	0.36	8,165	122,651	28,098.925	546,621.064
16	7414.85	22.84	5.50	0.36	9090	* 134,802	7359.25	30.10	4.52	0.35	8,395	123,562	7569.85	21.53	5.85	0.47	9,142	* 138,407	13,098.450	537,375.564
17	7581.75	27.85	4.62	0.32	8669	* 131,452	7529.65	28.77	4.74	0.37	8,520	* 128,305	7487.90	21.47	5.77	0.48	9,157	* 137,133	15,076.000	529 [illegible] 54
18	7474.50	29.85	4.52	0.29	8443	* 126,214	7353.45	29.52	4.79	0.38	8,406	123,626	7733.40	29.94	4.60	0.38	8,433	* 130,432	12,886.275	52[illegible] 39
19	7712.25	30.16	4.65	0.41	8362	* 128,980	7601.90	30.91	4.56	0.38	8,365	* 127,180	5410.50	23.86	4.75	0.39	9,039	97,811	12,962.550	512,[illegible].089
20	7769.25	29.06	4.54	0.41	8511	* 132,248	7628.25	28.07	5.59	0.40	8,606	* 131,297	4825.05	16.79	5.25	0.45	9,874	95,285	25,556.575	517,749.114
21	7553.55	27.55	4.92	0.44	8642	* 130,556	7408.00	27.58	5.17	0.26	8,683	* 128,647	0.00					0	0.000	502,787.564
22	7403.05	29.46	4.68	0.46	8449	* 125,097	7214.50	28.68	5.03	0.23	8,488	122,473	3858.50	27.82	5.85	0.34	8,489	65,510	15,049.275	499,360.789
23	7782.05	31.07	4.69	0.36	8227	* 128,046	7632.65	31.03	4.77	0.38	8,251	* 125,954	7628.15	28.97	5.29	0.37	8,387	* 127,955	27,591.825	503,909.764
24	7666.65	29.13	4.51	0.28	8491	* 130,195	7299.50	29.01	5.20	0.28	8,414	122,836	7655.10	28.87	5.47	0.34	8,411	* 128,774	27,757.575	509,046.089
25	7779.10	31.67	5.00	0.29	8097	* 125,975	7624.55	29.96	5.17	0.30	8,311	* 126,735	7635.35	29.33	5.36	0.39	8,378	* 127,938	27,894.625	513,901.714
26	7797.40	31.05	5.26	0.32	8138	* 126,910	7450.00	30.82	5.89	0.30	8,083	120,437	7398.00	29.28	6.07	0.29	8,246	122,008	12,902.950	504,159.264
27	7687.10	34.18	4.37	0.26	7875	121,072	7428.70	31.64	4.74	0.28	8,184	121,593	7674.35	39.37	4.65	0.25	7,178	110,173	25,958.550	507,327.764
28	7182.05	30.27	5.23	0.28	8245	118,432	7318.95	28.67	6.04	0.31	8,330	121,934	7455.30	27.92	8.00	0.34	8,015	119,508	12,327.000	497,698.464
29	7621.15	30.60	5.04	0.37	8198	* 124,956	7258.75	23.80	7.65	0.37	8,629	* 125,272	7316.75	30.42	5.86	0.36	8,182	119,731	12,984.375	488,486.189
30	7898.35	29.69	5.02	0.42	8388	* 132,503	7733.75	30.96	5.77	0.38	8,079	* 124,962	7719.50	32.06	4.75	0.30	8,092	* 124,932	28,083.850	493,218.439
31	7540.55	29.20	5.07	0.31	8409	* 126,817	7261.70	29.58	5.09	0.33	8,349	121,256	7377.00	30.99	5.28	0.31	8,104	119,566	29,718.375	500,757.564
Total	230886.35	29.49	4.94	0.33	8385	3,871,917	226110.20	28.77	5.09	0.34	8,467	3,828,933	214050.10	28.26	5.24	0.36	8,478	3,629,644	568,931.234	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	575.40	3,871,917
Unit # 2	462.70	3,828,933
Unit # 3	1292.90	3,629,644

* Fuel key
B = blended oil
2 = #2 Fuel Oil

	6.00	4
	5.85	5
		6

Pg 8, 36 of 42

SWEPCO
WELSH
JUNE 2001

	Unit #1						Unit #2						Unit #3						Starting Inv.	722778.13
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	7203.05	28.81%	4.71%	0.30%	8,619	* 124,161	6878.75	27.94%	4.47%	0.24%	8,762	120,538	6921.45	29.01%	4.77%	0.32%	8,585	118,847	0.000	701,774.880
2	6915.05	29.67%	4.66%	0.33%	8,525	117,902	6723.30	29.67%	4.66%	0.33%	8,525	114,632	4835.20	29.67%	4.66%	0.33%	8,525	82,440	12,980.975	696,282.305
3	6869.35	0.00%	5.33%	0.39%	8,449	116,073	6698.35	29.78%	5.33%	0.39%	8,449	113,184	5422.20	29.76%	5.20%	0.38%	8,464	91,790	12,963.925	690,256.330
4	7589.80	30.28%	4.68%	0.39%	8,436	* 128,057	7243.10	30.34%	4.68%	0.40%	8,427	122,080	7349.40	30.54%	4.69%	0.42%	8,398	123,441	12,976.425	681,050.455
5	7235.45	30.06%	4.78%	0.39%	8,462	122,453	7031.80	30.04%	4.77%	0.39%	8,465	119,048	7032.25	30.06%	4.78%	0.39%	8,462	119,008	27,972.450	687,723.405
6	7316.65	30.02%	4.63%	0.39%	8,486	* 124,174	7108.20	29.93%	4.62%	0.39%	8,505	120,914	7180.15	29.95%	4.62%	0.39%	8,500	122,060	12,995.000	679,113.405
7	7262.00	29.90%	4.79%	0.35%	8,462	122,907	7058.10	30.04%	4.87%	0.37%	8,426	118,940	7172.85	29.90%	4.79%	0.35%	8,464	121,427	12,747.075	670,367.530
8	7170.95	29.94%	4.72%	0.34%	8,484	121,674	7239.05	30.58%	4.87%	0.38%	8,385	121,399	7286.65	30.48%	4.85%	0.37%	8,400	122,416	27,795.350	676,466.230
9	6865.75	28.80%	4.63%	0.28%	8,641	118,656	6813.55	28.99%	4.60%	0.30%	8,629	117,581	6800.95	28.82%	4.63%	0.28%	8,640	117,520	25,934.000	681,919.980
10	7128.05	30.17%	5.03%	0.37%	8,395	119,677	6899.85	30.26%	5.09%	0.37%	8,373	115,550	6982.05	30.24%	5.08%	0.37%	8,379	117,003	0.000	660,910.030
11	7358.55	30.20%	4.94%	0.31%	8,385	123,403	7177.95	30.12%	4.89%	0.31%	8,407	120,692	7259.25	30.09%	4.88%	0.31%	8,415	122,167	0.000	639,114.280
12	7130.35	29.67%	4.66%	0.33%	8,525	121,572	6970.75	29.67%	4.66%	0.33%	8,525	118,851	6630.35	29.67%	4.66%	0.33%	8,525	113,047	12,964.875	631,347.705
13	7209.20	29.62%	4.55%	0.31%	8,545	123,205	6993.15	29.60%	4.51%	0.30%	8,552	119,605	6811.85	29.58%	4.47%	0.30%	8,558	116,595	28,077.775	638,411.280
14	7326.40	28.25%	4.74%	0.24%	8,670	* 127,034	7284.90	29.06%	4.67%	0.28%	8,612	* 125,479	7253.90	28.89%	4.68%	0.27%	8,624	* 125,118	12,909.950	629,456.030
15	6901.55	30.15%	4.96%	0.41%	8,430	116,365	6805.90	30.30%	5.05%	0.43%	8,402	114,366	6817.20	30.13%	4.95%	0.40%	8,434	114,996	25,929.925	634,861.305
16	7185.45	30.13%	4.64%	0.36%	8,467	121,685	6966.00	30.21%	4.68%	0.37%	8,447	117,683	6635.20	30.10%	4.62%	0.35%	8,477	112,490	12,990.425	627,065.080
17	6972.05	29.67%	4.66%	0.33%	8,525	118,873	6848.55	29.67%	4.66%	0.33%	8,525	116,768	6876.75	29.67%	4.66%	0.33%	8,525	117,249	12,934.600	61[illegible]
18	7022.05	30.26%	4.61%	0.34%	8,457	118,773	6862.95	30.30%	4.62%	0.34%	8,449	115,976	6868.10	30.49%	4.66%	0.36%	8,411	115,534	14,703.000	61[illegible]
19	7359.75	29.07%	4.68%	0.29%	8,586	* 126,387	7124.15	28.76%	4.69%	0.28%	8,619	122,803	7206.75	28.62%	4.70%	0.27%	8,633	* 124,430	0.000	591,[illegible]
20	7247.70	29.67%	4.66%	0.33%	8,525	123,573	7251.10	29.67%	4.66%	0.33%	8,525	123,631	6987.60	29.67%	4.66%	0.33%	8,525	119,139	26,039.850	596,115.030
21	5390.05	29.88%	4.69%	0.32%	8,510	91,741	7207.25	29.86%	4.68%	0.31%	8,515	122,740	7232.75	29.97%	4.73%	0.33%	8,493	122,849	15,074.850	591,359.830
22	0.00	0.00%	0.00%	0.00%	0	0	7170.55	29.47%	4.71%	0.34%	8,568	122,869	7449.20	29.48%	4.71%	0.34%	8,565	* 127,604	12,977.375	589,717.455
23	0.00	0.00%	0.00%	0.00%	0	0	7530.55	29.91%	4.86%	0.34%	8,453	* 127,313	7245.15	29.86%	4.82%	0.34%	8,469	122,711	25,880.675	600,822.430
24	37.00	29.27%	4.76%	0.35%	8,609	637	6898.25	30.28%	4.95%	0.39%	8,402	115,924	7290.10	30.28%	4.96%	0.39%	8,401	122,495	12,989.075	599,586.155
25	5660.85	30.31%	5.02%	0.39%	8,395	95,046	6651.40	30.21%	4.98%	0.38%	8,410	111,877	7041.35	30.21%	4.98%	0.38%	8,410	118,436	28,105.425	608,337.980
26	6935.65	29.34%	4.19%	0.29%	8,650	119,987	6572.15	29.29%	4.37%	0.30%	8,652	113,720	6890.15	29.30%	4.33%	0.29%	8,651	119,218	0.000	587,940.030
27	6798.10	29.67%	4.66%	0.33%	8,525	115,908	6968.20	29.67%	4.66%	0.33%	8,525	118,808	6880.45	29.67%	4.66%	0.33%	8,525	117,312	27,479.000	594,772.280
28	6622.90	27.12%	4.38%	0.21%	8,855	117,288	6308.65	26.92%	4.36%	0.21%	8,882	112,063	6671.85	27.17%	4.39%	0.22%	8,848	118,065	12,971.375	588,140.255
29	6915.80	30.01%	4.68%	0.34%	8,454	116,931	6810.90	30.09%	4.70%	0.35%	8,439	114,954	6902.30	30.07%	4.70%	0.35%	8,443	116,552	28,183.500	595,694.755
30	6916.30	30.21%	4.93%	0.38%	8,424	116,526	6974.45	30.21%	4.93%	0.38%	8,424	117,506	7029.75	30.21%	4.93%	0.38%	8,424	118,437	28,098.725	602,872.980
31																				602,872.980
Total	188545.80	28.57%	4.73%	0.34%	8,514	3,210,669	209071.80	29.70%	4.74%	0.34%	8,508	3,557,494	206963.15	29.72%	4.74%	0.34%	8,505	3,520,394	484,675.600	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	2758.00	3,210,669

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 2	596.26	3,557,494

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 3	419.44	3,520,394

* Fuel key
B = blended oil
2 = #2 Fuel Oil

	6.00	4
	5.85	5
		6

AP 8
AS 37 42

SWEPCO
WELSH
MAY 2001

	Unit # 1						Unit # 2						Unit # 3						Starting Inv.	679897.51
	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Burned	% Moisture	% Ash	% Sulfur	BTU/lb	MMBtu Burned	Tons Delivered	Ending Inventory
1	7468.15	29.28%	4.53%	0.26%	8,604	128,505	5843.85	30.50%	4.75%	0.29%	8,428	98,504	7617.50	29.95%	4.65%	0.28%	8,507	129,600	26,099.175	685,067.185
2	7836.90	30.48%	4.58%	0.31%	8,435	132,216	7415.50	30.52%	4.56%	0.31%	8,427	124,973	7710.90	30.95%	4.65%	0.34%	8,341	128,640	12,562.775	674,666.660
3	7587.40	0.00%	4.70%	0.37%	8,360	126,858	7681.55	30.73%	4.71%	0.38%	8,348	128,249	6968.10	30.58%	4.70%	0.37%	8,379	116,764	12,867.850	665,297.460
4	7378.70	30.22%	4.42%	0.31%	8,487	125,252	7450.80	30.22%	4.42%	0.31%	8,487	126,476	0.00	0.00%	0.00%	0.00%	0	0	12,910.350	663,378.310
5	8042.90	30.55%	4.71%	0.40%	8,395	135,042	7872.60	30.50%	4.71%	0.39%	8,404	132,325	0.00	0.00%	0.00%	0.00%	0	0	0.000	647,462.810
6	7316.00	30.22%	4.67%	0.34%	8,450	123,640	7712.65	30.22%	4.67%	0.34%	8,450	130,344	0.00	0.00%	0.00%	0.00%	0	0	27,863.850	660,298.010
7	7839.50	29.63%	4.55%	0.33%	8,527	133,689	6812.85	29.75%	4.58%	0.34%	8,508	115,929	0.00	0.00%	0.00%	0.00%	0	0	12,861.295	658,506.955
8	7326.30	30.03%	4.23%	0.27%	8,567	125,531	7682.60	30.02%	4.21%	0.27%	8,572	131,711	0.00	0.00%	0.00%	0.00%	0	0	27,877.525	671,375.580
9	7415.60	28.90%	4.45%	0.25%	8,654	128,349	7520.05	29.01%	4.44%	0.25%	8,644	130,013	0.00	0.00%	0.00%	0.00%	0	0	25,958.225	682,398.155
10	7321.00	29.93%	4.62%	0.35%	8,504	124,514	7209.10	29.92%	4.60%	0.35%	8,508	122,677	0.00	0.00%	0.00%	0.00%	0	0	38,801.600	706,669.655
11	7661.85	29.86%	4.49%	0.31%	8,556	131,102	7560.90	29.84%	4.45%	0.31%	8,564	129,506	0.00	0.00%	0.00%	0.00%	0	0	0.000	691,446.905
12	7386.60	30.22%	4.67%	0.34%	8,450	124,834	7335.95	30.22%	4.67%	0.34%	8,450	123,978	0.00	0.00%	0.00%	0.00%	0	0	12,894.800	689,619.155
13	7220.75	30.35%	4.83%	0.37%	8,414	121,511	7165.95	30.40%	4.89%	0.38%	8,399	120,374	659.70	30.41%	4.68%	0.35%	8,431	11,124	12,996.525	687,569.280
14	7423.15	30.43%	4.82%	0.37%	8,414	124,921	7364.05	30.53%	4.89%	0.38%	8,398	123,679	4627.80	30.22%	4.67%	0.34%	8,450	78,210	0.000	668,154.280
15	7265.10	30.22%	4.67%	0.34%	8,450	122,780	7058.00	30.22%	4.67%	0.34%	8,450	119,280	5970.95	30.22%	4.67%	0.34%	8,450	100,909	27,897.400	675,757.630
16	6988.30	28.06%	4.55%	0.30%	8,777	122,672	4537.35	28.11%	4.56%	0.31%	8,771	79,597	6878.20	27.97%	4.54%	0.29%	8,787	120,871	39,179.825	696,533.605
17	6967.35	29.46%	4.56%	0.34%	8,556	119,220	0.00	0.00%	0.00%	0.00%	0	0	7221.75	29.43%	4.55%	0.34%	8,562	123,669	27,781.800	71[illegible]5
18	7003.95	29.44%	4.70%	0.32%	8,508	119,183	1724.35	29.68%	4.62%	0.36%	8,519	29,379	7343.95	29.31%	4.66%	0.31%	8,530	125,286	25,731.600	71[illegible]5
19	7280.25	28.82%	4.76%	0.33%	8,592	125,106	7360.55	28.79%	4.76%	0.32%	8,596	126,538	6445.85	28.94%	4.77%	0.34%	8,576	110,562	25,855.725	724,[illegible].730
20	7182.55	30.57%	4.68%	0.36%	8,371	120,243	6493.70	30.53%	4.70%	0.37%	8,376	108,782	6998.75	30.62%	4.67%	0.37%	8,360	117,014	26,003.550	729,883.280
21	6155.90	29.96%	5.04%	0.41%	8,463	104,190	5774.15	29.96%	5.03%	0.41%	8,460	97,704	7136.75	29.95%	5.04%	0.41%	8,465	120,827	14,631.175	725,447.655
22	6070.90	30.43%	4.84%	0.34%	8,398	101,964	7093.10	30.50%	4.89%	0.34%	8,380	118,886	7043.75	30.50%	4.89%	0.34%	8,380	118,059	14,958.000	720,197.905
23	6875.95	29.03%	4.44%	0.25%	8,638	118,789	6818.50	29.03%	4.44%	0.25%	8,639	117,814	6801.20	29.13%	4.46%	0.26%	8,623	117,291	25,644.275	725,346.530
24	7160.95	30.19%	4.67%	0.35%	8,490	121,592	7018.75	30.01%	4.62%	0.36%	8,522	119,634	7103.70	30.24%	4.68%	0.35%	8,480	120,480	12,966.950	717,030.080
25	7280.05	29.33%	4.55%	0.37%	8,603	125,261	6622.40	29.28%	4.55%	0.37%	8,610	114,039	6857.60	29.28%	4.55%	0.37%	8,611	118,102	12,980.425	709,250.455
26	6682.00	30.33%	4.99%	0.40%	8,412	112,418	6445.90	30.28%	4.83%	0.37%	8,431	108,691	6471.70	30.33%	4.99%	0.40%	8,412	108,880	14,716.000	704,366.855
27	6766.90	28.48%	4.84%	0.26%	8,631	116,806	6619.90	27.61%	4.93%	0.22%	8,721	115,464	6632.25	28.41%	4.85%	0.26%	8,638	114,583	25,956.475	710,304.280
28	6786.85	29.86%	5.04%	0.41%	8,460	114,827	6651.80	29.86%	5.07%	0.41%	8,453	112,452	6708.95	29.86%	5.04%	0.41%	8,459	113,508	12,911.375	703,068.055
29	6887.35	30.46%	4.67%	0.32%	8,409	115,835	6670.45	30.64%	4.68%	0.31%	8,378	111,774	6735.15	30.60%	4.68%	0.31%	8,386	112,956	28,078.025	710,853.130
30	7365.05	30.17%	5.09%	0.40%	8,402	123,762	7050.10	30.15%	5.08%	0.40%	8,402	118,472	7064.65	30.15%	5.08%	0.39%	8,402	118,718	25,913.800	715,287.130
31	7924.30	30.46%	4.60%	0.41%	8,429	133,583	5004.90	30.46%	4.58%	0.40%	8,431	84,391	7497.65	30.46%	4.59%	0.41%	8,430	126,412	27,917.850	722,778.130
Total	223868.50	28.84%	4.67%	0.34%	8,496	3,804,196	201572.30	29.95%	4.68%	0.34%	8,487	3,421,637	144495.80	29.87%	4.73%	0.34%	8,486	2,452,465	612,818.220	

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 1	1026.76	3,804,196

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 2	3808.98	3,421,637

Total for Month by Unit	Oil MMBTU	Coal MMBTU
Unit # 3	2074.66	2,452,465

* Fuel key
B = blended oil 6.00
2 = #2 Fuel Oil 5.85

Pt 8, pg 38 of 42

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

TCEQ

Attachment 9

Sulfur Exceedance Data

WELSH POWER PLANT
SOUTHWESTERN ELECTRIC POWER COMPANY
RN100213370
CN602411597
1187 COUNTY ROAD 4865
PITTSBURG TEXAS
TITUS COUNTY

INVESTIGATION NUMBER: 278307
INVESTIGATORS: C. LANE, G. ORR
INVESTIGATION DATE: MAY 25, 2004

Welsh Power Plant
Daily Coal Analysis
2001
Unit 1

ate Samp'l	AR Moist.	AR Ash	AR Sulfur	AR Btu	SO2/mmBtu	Dry Ash	Dry Sulfur	Dry Btu	% A.D.L.	MAF Sulfur	MAF Btu
7/12/2001	32.19	4.66	0.38	8031	0.95	6.87	0.56	11844	15.45	0.60	12718
7/19/2001	30.16	4.65	0.41	8362	0.97	6.65	0.58	11974	17.16	0.62	12828
7/20/2001	29.06	4.54	0.41	8511	0.97	6.39	0.58	11997	12.59	0.62	12817
7/21/2001	27.55	4.92	0.44	8642	1.01	6.79	0.60	11929	12.48	0.65	12798
7/22/2001	29.46	4.68	0.46	8449	1.10	6.63	0.66	11979	14.26	0.70	12830
7/30/2001	29.69	5.02	0.42	8388	1.00	7.14	0.60	11931	14.72	0.64	12849
8/1/2001	27.21	5.48	0.40	8574	0.93	7.53	0.55	11778	17.02	0.59	12737
8/2/2001	26.92	5.33	0.43	8643	1.01	7.30	0.59	11826	11.31	0.64	12757
8/24/2001	23.74	8.89	0.45	8595	1.06	11.66	0.59	11272	12.80	0.67	12758
8/28/2001	28.71	5.13	0.42	8462	0.98	7.20	0.58	11869	15.17	0.63	12790
9/3/2001	28.09	5.55	0.39	8429	0.94	7.72	0.55	11722	14.23	0.59	12703
9/19/2001	30.04	5.18	0.43	8302	1.03	7.39	0.61	11867	15.85	0.66	12815
9/20/2001	31.05	5.13	0.41	8261	1.00	7.44	0.60	11980	17.57	0.65	12942
9/21/2001	30.46	4.79	0.41	8286	1.00	6.89	0.59	11916	13.95	0.64	12798
9/23/2001	31.52	4.93	0.37	8133	0.92	7.19	0.55	11875	16.93	0.59	12796
11/26/2001	28.12	5.36	0.41	8489	0.96	7.46	0.57	11809	15.11	0.61	12760
11/27/2001	30.48	4.77	0.44	8198	1.08	6.87	0.64	11792	17.98	0.68	12662
11/28/2001	32.52	5.07	0.54	7944	1.36	7.51	0.80	11772	20.60	0.87	12729
12/21/2001	34.16	4.54	0.39	7882	0.98	6.90	0.59	11972	20.93	0.63	12859
12/22/2001	34.02	4.59	0.37	7901	0.93	6.96	0.56	11974	21.44	0.60	12869
12/23/2001	33.82	4.96	0.37	7829	0.95	7.50	0.56	11828	21.57	0.61	12788

Average	29.15	5.10	0.33	8399	1.39	7.26	0.47	11779	16.13		12777
Minimum	18.75	4.17	0.19	6770	0.46	5.86	0.27	11174	6.71		12600
Maximum	42.27	8.89	0.54	9602	84.00	11.66	0.80	12102	34.35		12942

21

Att 9
Pg 1 of 12

Welsh Power Plant
Daily Coal Analysis
2002
Unit 1

Red ====> See note at end of row

Date Samp'd	AR Moist	AR Ash	AR Sulfur	AR Btu	SO2/mmBtu	Dry Ash	Dry Sulfur	Dry Btu	% A.D.L.	MAF Sulfur	MAF Btu	
1/24/2002	32.57	5.23	0.38	8073	0.93	7.76	0.56	11972	19.88	0.61	12980	
1/25/2002	31.77	5.20	0.39	8183	0.96	7.63	0.58	11994	20.30	0.62	12985	
1/27/2002	33.70	5.48	0.41	7912	1.04	8.26	0.62	11934	21.88	0.68	13008	
2/14/2002	30.88	4.78	0.42	8230	1.02	6.92	0.61	11906	17.82	0.65	12791	
2/15/2002	39.18	5.37	0.37	7120	1.03	8.83	0.60	11708	32.74	0.66	12842	
2/18/2002	24.37	5.49	0.45	9071	0.98	7.26	0.59	11994	16.37	0.64	12933	Sample was "dirty" when received and very dry
2/19/2002	25.72	5.69	0.45	8839	1.01	7.66	0.60	11900	15.96	0.65	12887	Sample was "dirty" when received and very dry
2/21/2002	40.73	5.15	0.35	6956	1.01	8.69	0.59	11737	34.05	0.65	12854	Sample was wet
3/19/2002	33.19	5.10	0.41	8034	1.03	7.63	0.62	12026	21.40	0.67	13020	
3/20/2002	33.03	5.00	0.43	8020	1.08	7.47	0.64	11976	21.92	0.70	12944	
4/26/2002	27.26	4.47	0.40	8737	0.91	6.14	0.54	12011	18.90	0.58	12798	
4/26 Dup Samp	28.58	6.61	0.39	8234	0.96	9.26	0.55	11529	21.10	0.61	12705	
4/27/2002	30.23	5.23	0.40	8266	0.97	7.50	0.58	11847	17.87	0.62	12807	
4/28/2002	28.37	5.34	0.41	8493	0.97	7.45	0.57	11857	17.99	0.62	12812	
7/18/2002	33.43	5.11	0.39	7879	1.00	7.67	0.59	11836	22.53	0.64	12820	
7/22/2002	31.47	6.19	0.38	7964	0.95	9.03	0.55	11621	20.24	0.61	12775	
7/25/2002	32.03	5.05	0.37	8208	0.91	7.26	0.55	12076	20.09	0.59	13045	
7/26/2002	30.58	5.53	0.38	8122	0.92	7.97	0.54	11700	20.75	0.59	12713	
7/27/2002	30.11	6.70	0.38	7977	0.96	9.59	0.55	11414	17.65	0.60	12625	
8/2/2002	30.73	5.28	0.38	8126	0.94	7.62	0.55	11732	18.45	0.60	12699	
9/1/2002	31.26	4.88	0.37	8174	0.92	7.10	0.54	11891	16.61	0.59	12799	
9/24/2002	28.64	5.35	0.39	8569	0.91	7.49	0.55	12008	16.07	0.59	12980	
9/25/2002	31.71	5.13	0.43	8124	1.05	7.51	0.63	11896	17.32	0.68	12861	
10/7/2002	31.43	6.10	0.43	8053	1.07	8.89	0.63	11744	18.37	0.69	12890	
10/8/2002	27.21	6.33	0.45	8524	1.06	8.69	0.62	11710	15.97	0.68	12824	
11/21/2002	30.78	5.01	0.38	8218	0.93	7.24	0.55	11873	18.67	0.59	12799	

	29.16	5.40	0.30	8377	0.72	7.63	0.43	11827	18.07		12863
Average	31.75	4.13	0.20	6283	0.47	5.24	0.28	10859	1.28		12323
Minimum	40.73	9.10	0.45	9745	1.08	13.18	0.64	12932	34.05		13945
Maximum											

25

AT D, 12/29/8

Welsh Power Plant
Daily Coal Analysis
2003
Unit 1

Red ====> See note at end of row

Date Samp'd	AR Moist	AR Ash	AR Sulfur	AR Btu	SO2/mmBtu	Dry Ash	Dry Sulfur	Dry Btu	% A.D.L.	MAF Sulfur	MAF Btu
1/29/2003	33.39	4.88	0.41	7949	1.04	7.32	0.62	11934	16.52	0.67	12876
2/3/2003	28.69	5.87	0.41	8392	0.97	8.22	0.57	11768	14.99	0.62	12822
2/19/2003	31.16	4.96	0.41	8200	0.99	7.21	0.59	11911	16.98	0.64	12837
2/20/2003	32.36	4.71	0.38	8090	0.94	6.96	0.56	11961	15.63	0.60	12856
3/19/2003	32.15	4.53	0.38	8151	0.93	6.48	0.56	12013	18.31	0.60	12873
4/3/2003	31.67	4.80	0.38	8174	0.93	7.02	0.55	11961	15.55	0.60	12864
4/6/2003	34.31	4.58	0.36	7843	0.91	6.96	0.55	11939	16.48	0.59	12833
4/11/2003	31.89	4.99	0.43	8126	1.06	7.32	0.63	11930	15.02	0.68	12873
4/12/2003	32.95	4.60	0.38	7943	0.96	6.87	0.57	11846	13.61	0.61	12720
4/13/2003	31.08	4.85	0.43	8279	1.03	7.03	0.62	12013	13.74	0.66	12921
7/3/2003	31.62	5.27	0.38	8059	0.93	7.70	0.55	11785	22.88	0.60	12769
7/20/2003	30.36	5.07	0.39	8222	0.96	7.28	0.57	11808	18.42	0.61	12734
7/21/2003	31.05	4.52	0.39	8253	0.94	6.55	0.56	11970	15.75	0.60	12809
7/22/2003	31.12	5.32	0.39	8088	0.97	7.71	0.57	11742	15.22	0.62	12723
8/5/2003	30.33	5.21	0.40	8182	0.97	7.47	0.57	11744	19.17	0.61	12692
8/7/2003	31.79	4.76	0.37	8122	0.91	6.98	0.54	11908	21.51	0.58	12801
8/8/2003	32.00	4.65	0.37	8052	0.93	6.84	0.55	11841	23.76	0.59	12710
8/9/2003	32.06	4.69	0.37	8017	0.93	6.90	0.55	11800	22.09	0.59	12675
8/18/2003	30.43	5.09	0.46	8256	1.11	7.32	0.66	11866	18.50	0.71	12803
8/28/2003	32.81	4.47	0.37	7995	0.92	6.65	0.55	11899	18.22	0.59	12747
9/1/2003	31.72	4.92	0.37	8103	0.92	7.20	0.54	11866	17.30	0.59	12788
9/2/2003	35.50	4.77	0.36	7608	0.95	7.39	0.56	11796	28.92	0.61	12738

	30.00	4.79	0.30	8349	0.72	6.83	0.43	11928	16.78		12804
Average	10.71	1.08	0.18	7208	0.40	3.72	0.24	11365	1.88		12316
Minimum	35.50	7.58	0.46	10148	1.11	8.72	0.66	12146	28.92		13000
Maximum											

22

A70
8 3/8/12

Welsh Power Plant
Daily Coal Analysis
2004

Unit 1

Red =====> See note at end of row

Date Sampl'd	AR Moist	AR Ash	AR Sulfur	AR Btu	SO2/mmBtu	Dry Ash	Dry Sulfur	Dry Btu	% A.D.L.	MAF Sulfur	MAF Btu
1/27/2004	30.23	5.07	0.41	8314	0.98	7.27	0.58	11916	21.46	0.63	12851
2/7/2004	32.04	5.01	0.38	8055	0.94	7.38	0.56	11853	25.41	0.60	12797
2/10/2004	31.85	5.08	0.38	8077	0.95	7.45	0.56	11851	23.67	0.61	12805
2/14/2004	32.19	4.77	0.38	8056	0.94	7.03	0.56	11879	23.91	0.60	12779
2/15/2004	30.67	5.17	0.37	8243	0.91	7.46	0.54	11890	18.57	0.58	12848
2/17/2004	30.70	5.04	0.38	8239	0.92	7.28	0.55	11888	22.03	0.59	12821
2/23/2004	30.31	4.68	0.39	8374	0.94	6.72	0.56	12016	19.29	0.60	12882
2/25/2004	30.73	4.80	0.39	8275	0.94	6.92	0.56	11946	19.53	0.61	12834
2/26/2004	30.14	4.90	0.40	8354	0.95	7.02	0.57	11958	19.65	0.61	12860
3/4/2004	31.60	4.88	0.37	8113	0.92	7.13	0.55	11861	24.35	0.59	12772
3/18/2004	31.49	4.83	0.40	8136	0.99	7.05	0.59	11875	20.81	0.63	12775
4/2/2004	30.61	4.72	0.38	8242	0.91	6.81	0.54	11879	21.28	0.58	12746
4/10/2004	31.51	5.02	0.39	8102	0.95	7.33	0.56	11831	24.43	0.61	12766
4/11/2004	31.53	4.92	0.37	8134	0.92	7.19	0.55	11881	25.05	0.59	12801
5/4/2004	31.28	4.92	0.43	8211	1.06	7.15	0.63	11948	22.65	0.68	12870
5/12/2004	31.86	4.76	0.41	8182	0.99	6.98	0.60	12007	22.53	0.64	12908
5/16/2004	31.03	4.51	0.37	8264	0.90	6.53	0.54	11982	21.35	0.58	12820

Average	30.84	4.84	0.39	8246	0.95	7.00	0.45	11924	21.98		12822
Minimum	13.71	0.03	0.00	43	0.47	0.14	0.28	11680	4.11		12608
Maximum	99.63	6.29	0.43	10142	1.06	8.36	0.63	12039	99.38		12908

17

AOQ
pg 4 of 12

Welsh Power Plant
Daily Coal Analysis
2001
Unit 2

Date Samp'l'd	AR Moist	AR Ash	AR Sulfur	AR Btu	SO2/mmBtu	Dry Ash	Dry Sulfur	Dry Btu	% A.D.L.	MAF Sulfur	MAF Btu
6/25/2001	30.07	5.04	0.41	8286	0.98	7.21	0.58	11850	10.91	0.63	12771
7/4/2001	30.18	4.68	0.39	8355	0.94	6.70	0.56	11966	11.02	0.60	12826
7/6/2001	29.38	4.60	0.50	8460	1.18	6.50	0.71	11980	12.30	0.76	12813
7/9/2001	25.79	5.40	0.43	8726	0.98	7.28	0.58	11757	10.49	0.62	12680
7/10/2001	28.87	5.26	0.40	8375	0.94	7.40	0.56	11774	14.03	0.60	12715
7/11/2001	28.12	5.09	0.46	8476	1.08	7.08	0.64	11792	11.78	0.69	12691
7/12/2001	27.16	5.17	0.44	8625	1.01	7.11	0.60	11841	12.90	0.64	12747
7/19/2001	30.91	4.56	0.38	8365	0.91	6.60	0.55	12106	15.24	0.59	12962
7/20/2001	28.07	5.59	0.40	8606	0.92	7.77	0.55	11964	13.79	0.60	12972
7/23/2001	31.03	4.77	0.38	8251	0.92	6.93	0.55	11963	14.74	0.59	12853
7/30/2001	30.96	5.77	0.38	8079	0.94	8.36	0.55	11702	17.54	0.60	12769
8/1/2001	26.46	5.62	0.42	8702	0.96	7.65	0.57	11834	13.21	0.61	12814
8/3/2001	27.15	5.79	0.42	8589	0.98	7.94	0.58	11790	12.66	0.63	12808
9/13/2001	28.66	5.13	0.40	8494	0.95	7.20	0.56	11906	14.57	0.61	12830
9/20/2001	30.01	4.97	0.40	8366	0.96	7.10	0.58	11953	15.93	0.62	12867
9/21/2001	31.41	4.64	0.41	8194	0.99	6.76	0.59	11946	18.86	0.63	12813
9/24/2001	31.38	5.06	0.41	8152	1.00	7.37	0.59	11880	17.10	0.64	12825
9/29/2001	30.09	4.73	0.39	8387	0.94	6.76	0.56	11996	18.19	0.60	12867
9/30/2001	31.37	4.63	0.38	8218	0.92	6.75	0.55	11975	18.16	0.59	12841
10/13/2001	31.54	5.09	0.41	8092	1.01	7.43	0.59	11819	15.18	0.64	12768
10/14/2001	32.51	5.11	0.38	8078	0.94	7.57	0.56	11970	17.27	0.61	12951
10/21/2001	29.44	5.02	0.39	8357	0.92	7.12	0.55	11844	16.29	0.59	12751
11/20/2001	30.48	4.93	0.39	8227	0.94	7.09	0.56	11834	16.05	0.60	12737
12/15/2001	39.50	4.77	0.34	7180	0.94	7.88	0.56	11869	33.49	0.60	12885
12/16/2001	31.77	4.58	0.40	8282	0.95	6.70	0.58	12139	20.83	0.62	13011
12/21/2001	26.95	5.36	0.40	8719	0.93	7.33	0.55	11936	15.66	0.60	12881
12/23/2001	30.38	5.36	0.42	8249	1.02	7.70	0.60	11850	15.72	0.65	12838

Average	28.18	5.17	0.32	8516	0.78	7.20	0.46	11858	15.71		12777
Minimum	14.40	4.10	0.20	6355	0.47	5.78	0.28	11324	3.60		12536
Maximum	43.60	7.95	0.50	10936	1.18	10.24	0.71	12139	33.49		13011

27

Atta. 9
p. 5 of 12

Welsh Power Plant
Daily Coal Analysis
2002
Unit 2

Red ====> See note at end of row

Date Samp'd	AR Moist	AR Ash	AR Sulfur	AR Btu	SO2/mmBtu	Dry Ash	Dry Sulfur	Dry Btu	% A.D.L.	MAF Sulfur	MAF Btu	
1/9/2002	30.57	4.91	0.42	8424	0.99	7.07	0.60	12132	18.60	0.65	13055	
1/12/2002	23.68	5.25	0.42	9258	0.91	6.88	0.55	12131	11.84	0.60	13028	
1/21/2002	30.40	4.85	0.41	8462	0.96	6.98	0.58	12159	19.39	0.63	13070	
2/14/2002	31.23	4.98	0.38	8138	0.94	7.25	0.56	11834	17.23	0.60	12759	
2/15/2002	31.79	4.76	0.40	8203	0.97	6.98	0.58	12026	24.84	0.63	12928	
2/17/2002	32.83	5.00	0.40	8020	0.99	7.45	0.59	11940	26.33	0.64	12901	
2/20/2002	27.10	4.67	0.40	8778	0.91	6.41	0.55	12040	14.42	0.58	12865	
2/21/2002	41.86	3.98	0.32	6993	0.92	6.84	0.55	12028	33.85	0.59	12910	
2/23/2002	31.54	5.56	0.41	8091	1.01	8.11	0.60	11818	25.69	0.65	12862	
3/13/2002	30.43	4.77	0.38	8347	0.90	6.85	0.54	11998	18.66	0.58	12881	
3/17/2002	34.27	5.33	0.41	7893	1.03	8.11	0.62	12010	23.20	0.67	13070	
3/18/2002	29.87	5.10	0.38	8613	0.88	7.27	0.54	12280	19.55	0.58	13243	
3/20/2002	30.12	5.40	0.43	8279	1.03	7.73	0.61	11848	22.49	0.66	12840	
3/21/2002	30.12	5.40	0.43	8279	1.03	7.73	0.61	11848	22.49	0.66	12840	
3/29/2002	30.29	4.78	0.42	8337	1.00	6.85	0.60	11959	19.85	0.64	12839	
4/11/2002	31.58	5.73	0.42	8143	1.03	9.14	0.61	11902	23.43	0.67	12990	
4/13/2002	26.91	6.18	0.40	8571	0.93	8.45	0.54	11727	15.87	0.60	12809	
4/14/2002	33.38	6.44	0.42	7713	1.08	9.67	0.62	11577	20.99	0.69	12816	
4/16/2002	25.13	6.92	0.41	8608	0.95	9.24	0.54	11497	16.91	0.60	12668	
4/26/2002	32.65	4.83	0.39	8018	0.98	7.16	0.58	11905	21.52	0.63	12824	
4/27/2002	32.42	4.86	0.39	8051	0.98	7.20	0.58	11912	21.95	0.63	12836	
4/27 Dup Samp	32.03	4.96	0.39	8078	0.97	7.34	0.58	11885	21.07	0.62	12821	
4/28/2002	33.11	4.91	0.38	7923	0.96	7.34	0.57	11844	22.61	0.61	12782	
7/9/2002	30.96	5.07	0.44	8184	1.08	7.34	0.64	11855	21.79	0.69	12794	
7/14/2002	31.43	4.76	0.37	8134	0.92	6.95	0.54	11862	20.46	0.59	12747	
7/18/2002	30.29	5.22	0.41	8246	0.99	7.48	0.58	11829	18.69	0.63	12786	
7/19/2002	29.99	5.76	0.38	8244	0.93	8.23	0.55	11776	19.20	0.60	12832	
7/24/2002	29.72	4.74	0.40	8384	0.95	6.74	0.57	11929	13.63	0.61	12793	Sample came in marked as "7/23"
8/24/2002	28.77	6.35	0.39	8375	0.92	8.92	0.54	11758	17.47	0.60	12909	
9/16/2002	31.64	4.37	2.49	8203	6.07	6.39	3.64	12000	22.94	3.89	12819	
9/21/2002	32.67	4.55	0.37	8058	0.93	6.77	0.56	11967	19.53	0.60	12836	
9/25/2002	32.12	5.25	0.39	8082	0.97	7.73	0.58	11907	15.66	0.63	12905	

31

Atg
8 6 8 12

Welsh Power Plant
Daily Coal Analysis
2003
Unit 2

Red ====> See note at end of row

Date Samp'd	AR Moist	AR Ash	AR Sulfur	AR Btu	SO2/mmBtu	Dry Ash	Dry Sulfur	Dry Btu	% A.D.L.	MAF Sulfur	MAF Btu
1/20/2003	32.75	5.33	0.38	7953	0.96	7.93	0.57	11826	14.62	0.62	12843
1/21/2003	31.11	4.90	0.39	8206	0.94	7.12	0.56	11911	13.08	0.60	12824
2/5/2003	33.20	4.77	0.37	7964	0.93	7.14	0.56	11922	18.31	0.60	12839
3/9/2003	30.12	5.14	0.39	8307	0.93	6.06	0.55	11888	17.04	0.60	12832
4/25/2003	31.59	5.16	0.40	8081	0.99	7.53	0.59	11812	12.33	0.63	12775
4/26/2003	31.21	4.95	0.39	8194	0.96	7.20	0.57	11911	13.61	0.61	12835
4/27/2003	31.56	5.39	0.44	8061	1.09	7.88	0.64	11778	14.24	0.70	12786
6/23/2003	32.45	4.92	0.38	8021	0.94	7.29	0.56	11874	15.09	0.60	12808
7/3/2003	31.50	5.10	0.37	8120	0.92	7.44	0.55	11853	14.40	0.59	12807
7/4/2003	29.55	5.31	0.41	8281	0.98	7.53	0.58	11755	13.59	0.62	12713
7/5/2003	31.55	5.10	0.37	7972	0.93	7.45	0.54	11647	15.04	0.58	12584
7/6/2003	31.01	5.07	0.39	8163	0.95	7.35	0.56	11832	13.18	0.61	12771
7/21/2003	30.66	4.92	0.42	8226	1.03	7.10	0.61	11863	16.82	0.65	12770
7/29/2003	30.34	5.13	0.44	8226	1.07	7.37	0.63	11809	19.60	0.68	12747
8/4/2003	30.04	5.02	0.40	8247	0.97	7.17	0.57	11787	21.57	0.62	12698
8/5/2003	28.87	5.12	0.40	8369	0.95	7.20	0.56	11766	17.47	0.60	12678
8/7/2003	24.18	5.34	0.43	8898	0.98	7.04	0.57	11735	14.81	0.62	12624
8/8/2003	28.41	5.03	0.40	8399	0.95	7.02	0.56	11731	18.68	0.60	12617
8/9/2003	26.81	5.11	0.41	8608	0.96	6.98	0.57	11762	15.38	0.61	12645
8/12/2003	32.84	5.03	0.42	7850	1.06	7.48	0.62	11689	22.87	0.67	12636
8/13/2003	32.38	4.96	0.38	7923	0.97	7.33	0.57	11717	23.38	0.61	12644
8/14/2003	32.16	4.60	0.37	8090	0.92	6.78	0.55	11924	22.89	0.59	12792
8/20/2003	21.21	5.52	0.43	9197	0.94	7.01	0.55	11673	12.07	0.59	12553
8/21/2003	33.11	4.62	0.37	7965	0.94	6.91	0.56	11908	25.47	0.60	12791
8/22/2003	32.04	4.53	0.38	8108	0.94	6.67	0.56	11931	24.06	0.60	12784
8/23/2003	26.48	5.04	0.45	8763	1.02	6.85	0.61	11919	15.45	0.65	12796
9/3/2003	30.91	4.72	0.38	8232	0.92	6.83	0.55	11916	23.05	0.59	12789

27

Aug. 2002

Welsh Power Plant
Daily Coal Analysis
2004
Unit 2

Red ====> See note at end of row

Date Samp'd	AR Moist.	AR Ash	AR Sulfur	AR Btu	SO2/mmBtu	Dry Ash	Dry Sulfur	Dry Btu	% A.D.L.	MAF Sulfur	MAF Btu
2/18/2004	29.73	4.92	0.38	8455	0.90	7.00	0.54	12032	21.84	0.58	12937
4/20/2004	32.35	4.72	0.37	8095	0.91	6.98	0.54	11966	25.68	0.58	12864
4/26/2004	30.85	4.81	0.40	8272	0.96	6.95	0.58	11962	20.53	0.62	12855
5/5/2004	31.38	4.76	0.38	8201	0.92	6.93	0.55	11950	21.50	0.59	12840
5/13/2004	31.11	4.85	0.39	8242	0.94	7.04	0.56	11965	23.22	0.60	12872

Average	30.87	4.85	0.29	8312	0.71	6.96	0.42	11929	21.74		12832
Minimum	22.65	4.25	0.19	8045	0.44	6.18	0.28	11282	16.55		12127
Maximum	32.84	6.54	0.40	8609	0.96	9.20	0.38	12311	26.19		13178

5

4/20/2004

Welsh Power Plant
Daily Coal Analysis
2001
Unit 3

Date Samp'l	AR Moist	AR Ash	AR Sulfur	AR Btu	SO2/mmBtu	Dry Ash	Dry Sulfur	Dry Btu	% A.D.L.	MAF Sulfur	MAF Btu
6/27/2001	29.13	5.37	0.39	8335	0.95	7.58	0.56	11762	12.54	0.60	12727
6/30/2001	29.84	5.17	0.42	8310	1.02	7.37	0.60	11845	13.54	0.65	12787
7/1/2001	30.39	5.37	0.41	8193	1.00	7.73	0.59	11771	17.82	0.64	12756
7/9/2001	23.29	5.85	0.49	8996	1.09	7.63	0.64	11727	9.37	0.69	12696
7/12/2001	29.64	4.64	0.39	8403	0.93	6.59	0.55	11942	13.61	0.59	12785
7/16/2001	21.53	5.85	0.47	9142	1.03	7.45	0.60	11650	6.39	0.65	12588
7/17/2001	21.47	5.77	0.48	9157	1.05	7.34	0.61	11661	9.05	0.66	12585
7/25/2001	29.33	5.36	0.39	8378	0.94	7.58	0.56	11855	14.66	0.60	12828
9/6/2001	29.33	5.62	0.39	8283	0.95	7.95	0.56	11721	17.84	0.61	12733
9/11/2001	34.81	6.16	0.37	7752	0.95	9.44	0.56	11892	25.07	0.62	13133
9/26/2001	33.09	4.95	0.37	7931	0.94	7.40	0.56	11854	18.71	0.60	12801
9/29/2001	32.36	5.66	0.37	7912	0.93	8.37	0.55	11697	19.72	0.60	12766
10/13/2001	31.78	5.29	0.43	7999	1.07	7.76	0.63	11725	18.96	0.68	12711
10/14/2001	32.91	4.80	0.37	7953	0.92	7.16	0.55	11856	14.56	0.59	12770
10/22/2001	31.07	5.29	0.40	8141	0.98	7.67	0.58	11810	18.39	0.63	12792
10/26/2001	26.07	5.53	0.41	8708	0.94	7.48	0.55	11779	13.13	0.60	12732
11/8/2001	26.04	5.69	0.40	8702	0.93	7.68	0.55	11766	13.85	0.59	12746
11/15/2001	26.44	6.06	0.42	8560	0.99	8.24	0.57	11637	17.13	0.63	12681
11/24/2001	26.49	5.36	0.42	8645	0.97	7.29	0.57	11760	16.26	0.61	12685
11/27/2001	26.44	6.03	0.50	8579	1.17	8.20	0.68	11663	13.26	0.74	12704
11/28/2001	24.83	6.35	0.60	8856	1.36	8.44	0.80	11782	11.25	0.88	12868
11/29/2001	26.39	5.54	0.42	8713	0.96	7.52	0.57	11837	14.52	0.62	12800
12/20/2001	28.51	4.50	0.44	8618	1.01	6.28	0.61	12054	18.69	0.65	12863
12/23/2001	32.89	4.75	0.38	8004	0.94	7.08	0.56	11926	17.25	0.60	12834

Average	28.18	5.39	0.41	8470	0.80	7.50	0.47	11793	15.41		12751
Minimum	16.71	4.30	0.12	6950	0.29	6.22	0.18	11120	5.08		12474
Maximum	41.69	8.00	0.60	9371	1.36	11.09	0.80	12117	30.69		13133

24

Att 9, Pg 9 of 12

Welsh Power Plant
Daily Coal Analysis
2002
Unit 3

Red ====> See note at end of row

Date Samp'd	AR Moist	AR Ash	AR Sulfur	AR Btu	SO2/mmBtu	Dry Ash	Dry Sulfur	Dry Btu	% A.D.L.	MAF Sulfur	MAF Btu
1/21/2002	31.19	5.57	0.52	8250	1.27	8.10	0.76	11989	23.11	0.83	13046
1/22/2002	26.18	5.44	0.45	8881	1.02	7.36	0.61	12030	13.71	0.66	12987
1/24/2002	33.63	5.56	0.46	7900	1.17	8.39	0.70	11902	20.05	0.76	12991
1/25/2002	34.66	5.51	0.49	7793	1.26	8.43	0.75	11928	22.87	0.82	13026
1/26/2002	43.72	5.15	0.48	6637	1.44	9.15	0.85	11794	35.00	0.93	12981
1/27/2002	35.05	5.27	0.42	7753	1.07	8.12	0.64	11937	22.12	0.70	12991
2/5/2002	34.78	4.85	0.40	7771	1.02	7.45	0.61	11915	20.94	0.66	12874
2/6/2002	33.93	4.87	0.40	7853	1.02	7.37	0.61	11886	19.80	0.65	12832
2/14/2002	30.44	4.74	0.38	8324	0.91	6.82	0.54	11967	18.65	0.58	12843
2/15/2002	36.82	5.40	0.42	7438	1.13	8.54	0.66	11772	28.73	0.72	12871
2/16/2002	27.08	4.81	0.45	8792	1.02	6.60	0.61	12058	17.15	0.66	12910
7/21/2002	27.09	5.49	0.41	8592	0.95	7.53	0.56	11785	15.81	0.61	12745
7/31/2002	30.31	5.14	0.38	8265	0.93	7.37	0.55	11859	23.16	0.60	12804
9/2/2002	29.76	4.90	0.39	8365	0.92	6.98	0.55	11910	19.59	0.59	12804

Average	29.74	5.06	0.22	8343	0.70	7.19	0.42	11847	18.54		12798
Minimum	19.29	2.88	0.19	5228	0.47	5.86	0.28	10712	3.18		11367
Maximum	56.37	7.49	0.53	10183	1.34	10.12	0.85	12153	49.84		13453

14

AH 9/
05 10/12

Welsh Power Plant
Daily Coal Analysis
2003
Unit 3

Red ====> See note at end of row

Date Samp'd	AR Moist.	AR Ash	AR Sulfur	AR Btu	SO2/mmBtu	Dry Ash	Dry Sulfur	Dry Btu	% A.D.L.	MAF Sulfur	MAF Btu
1/5/2003	30.24	4.87	0.41	8321	0.98	6.97	0.58	11927	17.36	0.63	12822
3/6/2003	29.98	4.98	0.40	8318	0.97	7.11	0.57	11879	16.15	0.62	12788
3/12/2003	32.48	4.50	0.40	8137	0.97	6.66	0.59	12051	15.81	0.63	12911
4/3/2003	32.64	4.92	0.38	8059	0.95	7.31	0.57	11963	14.12	0.62	12906
4/11/2003	32.39	4.80	0.37	8057	0.92	7.10	0.55	11916	15.17	0.59	12826
4/12/2003	30.60	4.81	0.42	8326	1.01	6.94	0.61	11998	14.48	0.65	12892
6/23/2003	30.38	4.72	0.38	8294	0.92	6.78	0.55	11913	12.60	0.59	12779
6/30/2003	32.19	4.65	0.37	8071	0.91	6.86	0.54	11902	14.31	0.58	12778
7/1/2003	37.87	4.26	0.34	7414	0.91	6.85	0.54	11934	21.63	0.58	12811
7/3/2003	31.92	5.40	0.37	8006	0.92	7.93	0.54	11758	14.43	0.59	12771
7/4/2003	30.09	5.14	0.41	8264	0.99	7.34	0.59	11821	15.08	0.63	12759
7/11/2003	29.44	4.97	0.42	8433	1.00	7.05	0.60	11950	14.09	0.64	12857
7/19/2003	30.79	4.75	0.41	8194	1.01	6.87	0.60	11839	18.02	0.64	12713
7/25/2003	29.80	4.72	0.38	8382	0.92	6.72	0.55	11941	15.42	0.59	12802
7/26/2003	30.78	4.51	0.38	8296	0.92	6.52	0.55	11985	16.88	0.59	12821
7/27/2003	29.72	4.88	0.40	8377	0.95	6.94	0.57	11920	17.59	0.61	12809
7/29/2003	30.15	5.00	0.43	8279	1.05	7.16	0.62	11853	20.63	0.67	12767
8/7/2003	31.73	4.96	0.38	8024	0.94	7.28	0.55	11754	23.38	0.59	12676
8/13/2003	32.67	4.85	0.38	7917	0.95	7.21	0.56	11759	21.83	0.60	12673
8/20/2003	30.83	4.74	0.40	8223	0.97	6.86	0.58	11888	21.71	0.62	12763
11/21/2003	31.34	4.84	0.38	8216	0.93	7.04	0.56	11966	23.33	0.60	12873
11/25/2003	31.60	4.80	0.39	8161	0.97	7.02	0.58	11933	22.70	0.62	12833

Average	30.2	4.83	0.30	8320	0.73	6.92	0.43	11921	17.16		12807
Minimum	27.81	4.09	0.19	7414	0.45	5.84	0.27	11465	5.28		12438
Maximum	37.87	6.63	0.45	9767	1.05	9.25	0.62	12151	24.98		12983

22

AFD 2/18/12

Welsh Power Plant
Daily Coal Analysis
2004
Unit 3

Red ====> See note at end of row

Date Sampl'd	AR Moist	AR Ash	AR Sulfur	AR Btu	SO2/mmBtu	Dry Ash	Dry Sulfur	Dry Btu	% A.D.L.	MAF Sulfur	MAF Btu
1/27/2004	29.66	5.09	0.48	8368	1.15	7.23	0.68	11897	21.13	0.74	12825
2/16/2004	31.02	5.65	0.39	8094	0.96	8.19	0.57	11733	21.63	0.62	12779
3/17/2004	31.03	5.04	0.39	8171	0.95	7.31	0.57	11847	21.89	0.61	12781
4/16/2004	30.02	4.86	0.40	8353	0.96	6.95	0.57	11936	20.95	0.61	12827
4/25/2004	33.08	4.64	0.39	7996	0.97	6.94	0.58	11948	25.20	0.62	12839
5/4/2004	30.61	4.87	0.39	8294	0.95	7.01	0.57	11953	21.25	0.61	12855
5/5/2004	30.31	4.97	0.42	8333	1.00	7.13	0.60	11957	19.91	0.64	12875
5/14/2004	29.61	4.76	0.38	8420	0.91	6.76	0.54	11962	19.68	0.58	12828
5/26/2004	31.66	4.89	0.38	8153	0.93	7.15	0.55	11929	22.81	0.60	12848

Average	30.28	4.88	0.39	8302	0.94	6.99	0.44	11912	21.20		12810
Minimum	21.21	1.11	0.20	7887	0.45	3.70	0.28	10696	17.00		11423
Maximum	33.42	6.71	0.48	8853	1.15	9.41	0.68	12117	25.20		12995

9

Pg 9
12/8/12