

COMMONWEALTH OF KENTUCKY  
BEFORE THE  
PUBLIC SERVICE COMMISSION

RECEIVED  
NOV 14 2006  
PUBLIC SERVICE  
COMMISSION

IN THE MATTER OF:

THE APPLICATION OF SALT RIVER ELECTRIC )  
COOPERATIVE CORPORATION FOR A CERTIFICATE )  
OF CONVENIENCE AND NECESSITY PURSUANT TO )  
KRS 278.020[1] AND 807 KAR 5:001, SECTION )  
9 AND RELATED SECTIONS, AUTHORIZING CERTAIN )  
PROPOSED CONSTRUCTION AND ASSOCIATED CAPITAL )  
OUTLAY )

CASE NO. 2006-00490

In support of the Application, entitled above ("Application"), Salt River Electric Cooperative Corporation ("Salt River"), respectfully states:

I

The full name and post office address of the Applicant is as follows:

Salt River Electric Cooperative Corporation  
111 West Brashear Avenue  
Bardstown, Kentucky 40004

Applicant, Salt River, is an electric cooperative corporation duly organized and existing under KRS Chapter 279 and the laws of the Commonwealth of Kentucky.

A certified copy of the Articles of Incorporation of Salt River was filed with this Commission in Case No. 92-560.

## II

Salt River is engaged in the business of supplying retail electric service to approximately 44,651 consumers in the Kentucky Counties of Nelson, Bullitt, Washington, Spencer, Anderson, Jefferson, Larue, Marion, Mercer and Shelby.

Salt River's property consists of approximately 3828.184 miles of electric distribution line and other property necessary and incidental to the operation of its system in the foregoing counties. The original cost of the Applicant's property, as of August 31, 2006, is as follows:

Total Utility Plant	\$ 101,999,134.88
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Applicant files herewith the following financial statement:

- A. No amount or kinds of stock are authorized.
- B. No amount or kinds of stock are issued or outstanding.
- C. No preferred stock has been issued or is outstanding.
- D. Exhibit 1 lists the outstanding notes and mortgages which have been executed by Salt River as Mortgagor and delivered to the United States of America, CFC and the National Bank for Cooperatives, as Mortgagees, as of the date of this Application. The balance outstanding, as of August 31, 2006, is shown in Exhibit 1.
- E. No bonds are authorized or issued.
- F. Salt River has no other indebtedness, except current liabilities which accrue in the ordinary course of business and which are unsecured.
- G. No dividends have been paid during the five previous fiscal years.
- H. Exhibit 2 is a detailed Statement of Operations and Balance Sheet for the year ending August 31, 2006

### III

The construction herein described and proposed, in the 2005-2008 work plan, is to enable the Applicant to serve 7138 new consumers that otherwise might not be served, and to eliminate the overloading of facilities so as to better serve the present consumers within the Applicant's service area. This construction is required by public convenience and necessity. No new construction or extensions are contemplated that will require franchises or permits not previously filed with the Commission.

Salt River intends to use the capital to be realized from the issuance of the notes listed on Exhibit 1 including the most recent note executed to the United States of America on October 10, 2005 for \$17,799,000 borrowed to finance these additions to Salt River's system for the following purposes:

- A. 237.45 miles of distribution line to serve 7138 new consumers.
- B. 45.72 miles of system improvement, conversion and line changes.
- C. 2246 new distribution transformers.
- D. 7138 new meters or metering equipment.
- E. New security lights.
- F. Service wire upgrades for increased capacity.
- G. 908 pole replacements from pole line inspection program.
- H. Sectionalizing equipment such as line fuses, lightning arrestors, oil circuit reclosures and underground sectionalizing cabinets.
- I. Voltage regulators and capacitors.

J. SCADA Engineering Fees

K. AMR Turtle II Upgrade

The estimated cost of the above described construction is \$17,798,865 (listed on RUS Form 740c - Exhibit 4).


The attached Exhibit List and Exhibits are hereby incorporated by references in this Application and made a part hereof. Included as Exhibits are: (a) statement of operations for the twelve months period ending August 31, 2006 [Exhibit 3]; (b) RUS form 740(c) [Exhibit 4]; (c) the 10 year financial forecast filed on RUS Form 325 [Exhibit 5]. Three copies of applicant's 2005-2008 Plan and with related maps and circuit diagrams are filed herewith and three copies of maps showing the location of the new construction are filed in the Work Plan binder.

A full description of the proposed location or routes of the new construction is shown in the 2005-2008 work plan. The Applicant's estimated cost of operation (less purchase power after completion of the new facilities) is \$14,961,455. (Explanation of calculation attached as Exhibit 6) The new construction and extensions are within the Applicant's service area. The other public utilities, corporations or persons having facilities in nearby areas are: Louisville Gas & Electric, Louisville, Kentucky; Kentucky Utilities Company, Lexington, Kentucky; City of Bardstown, Bardstown, Kentucky; Fox Creek Rural Electric, Lawrenceburg, Kentucky; Inter-County Rural Electric Cooperative Corporation, Danville, Kentucky; Shelby County Rural Electric Cooperative Corporation, Shelbyville, Kentucky. The work will be done under contract and/or force accounts.

WHEREFORE, the Applicant, Salt River Electric Cooperative Corporation, prays that the Public Service Commission of Kentucky make its order authorizing a certificate of convenience and necessity as requested herein, and for such other relief as the Commission may deem appropriate as to which Salt River may appear entitled.

Dated at Bardstown, Kentucky, this 13<sup>th</sup> day of November, 2006

SALT RIVER ELECTRIC COOPERATIVE  
CORPORATION



J. Larry Hicks, General Manager  
(502) 348-3931

FULTON, HUBBARD & HUBBARD



John Douglas Hubbard  
Regina Rapier Beckman  
Attorneys for Applicant  
117 East Stephen Foster Avenue  
Bardstown, Kentucky 40004  
(502) 348-6457

COMMONWEALTH OF KENTUCKY

COUNTY OF NELSON

J. Larry Hicks, after first being duly sworn, deposes and says: That he is the General Manager of Salt River Electric Cooperative Corporation, a cooperative rural electric corporation, duly reorganized and doing business under the Rural Electric Cooperative Corporation Act of the Commonwealth of Kentucky; that he is duly designated by the Applicant to sign this Application; that he has read the foregoing Application and knows the contents thereof; and that the same is true of his own knowledge, except as to such matters as are therein stated on information or belief, and as to those matters he believes it to be true.

This 13<sup>th</sup> day of November, 2006.



\_\_\_\_\_  
J. Larry Hicks, General Manager  
Salt River Electric Cooperative  
Corporation

Subscribed and sworn to before me by J. Larry Hicks, this 13<sup>th</sup> day of November, 2006.



\_\_\_\_\_  
NOTARY PUBLIC, KY STATE AT LARGE

My commission expires: Jan. 16, 2008

## EXHIBIT LIST

<u>NUMBER</u>	<u>DESCRIPTION</u>
1.	List of loans outstanding as of August 31, 2006.
2.	August 31, 2006 Statement of Operations and Balance Sheet – RUS Form 7
3.	Statement of Operations for 12 months ending August 31, 2006.
4.	RUS Form 740c.
5.	RUS Form 325-ten year financial forecast.
6.	Explanation of cost of operation calculation.

Outstanding Notes & Mortgages  
Salt River Electric  
August 31, 2006

**RUS**

Note #	Original Date	Original Balance	Current Balance
1B350	7/6/1995	\$2,634,000.00	\$2,308,214.66
1B355	7/6/1995	\$2,634,000.00	\$2,290,766.98
1B360	8/1/1997	\$3,040,758.00	\$2,585,900.83
1B365	8/1/1997	\$2,500,000.00	\$2,120,510.36
1B366	8/1/1997	\$350,000.00	\$296,893.52
1B367	8/1/1997	\$190,758.00	\$167,438.31
1B370	3/1/2001	\$2,015,000.00	\$1,854,959.93
1B375	3/1/2001	\$2,015,000.00	\$1,850,561.84
1B380	9/4/2001	\$6,068,000.00	\$5,778,208.84
1B385	9/4/2001	\$3,500,000.00	\$3,348,073.55
1B386	9/4/2001	\$1,500,000.00	\$1,408,613.53
1B387	9/4/2001	\$1,068,000.00	\$1,033,368.43
1A390	12/2/2005	\$3,000,000.00	\$3,000,000.00
9J990(Advance payments unapplied)			(\$5,530,178.92)
		<u>\$30,515,516.00</u>	<u>\$22,513,331.86</u>

**National Bank for Cooperatives**

Note #	Original Date	Original Balance	Current Balance
41964	4/9/1984	\$500,000.00	\$405,586.64
41974	4/9/1984	\$315,000.00	\$228,638.27
41956	4/25/1986	\$609,000.00	\$506,881.48
41949	4/25/1986	\$609,000.00	\$504,264.61
42029	9/1/1989	\$600,000.00	\$514,304.65
42036	9/1/1989	\$570,000.00	\$495,198.41
42044	9/1/1989	\$252,000.00	\$216,819.95
42098	10/30/1992	\$600,000.00	\$488,670.00
42082	10/30/1992	\$500,000.00	\$408,486.86
42101	10/30/1992	\$200,000.00	\$162,094.92
42119	10/30/1992	\$500,000.00	\$407,273.16
42126	10/30/1992	\$200,000.00	\$161,654.37
42073	12/12/1995	\$600,000.00	\$545,946.51
42067	12/12/1995	\$1,000,000.00	\$909,901.74
42054	12/12/1995	\$657,000.00	\$597,806.46
4959	3/3/1999	\$2,606,364.00	\$2,480,038.86
73493	8/20/2003	\$5,201,000.00	\$5,154,511.19
71137	3/20/2002	\$1,728,120.00	\$1,690,371.13
		<u>\$17,247,484.00</u>	<u>\$15,858,449.21</u>

**CFC**

Note #	Original Date	Original Balance	Current Balance
KY0219000004	8/29/2003	\$1,444,218.80	\$1,444,218.80
KY0219000005	8/29/2003	\$1,444,218.80	\$1,444,218.80
KY0219000006	8/29/2003	\$1,444,218.80	\$1,444,218.80
KY0219000007	8/29/2003	\$1,444,218.80	\$1,444,218.80
KY0219000008	8/29/2003	\$1,444,218.80	\$1,444,218.80
KY0219000009	8/29/2003	\$1,444,218.80	\$1,444,218.80
KY0219000010	8/29/2003	\$1,444,218.80	\$1,444,218.80
		<u>\$10,109,531.60</u>	<u>\$10,109,531.60</u>

Total Loans \$48,481,312.67



According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0572-0032. The time required to complete this information collection is estimated to average 25 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

UNITED STATES DEPARTMENT OF AGRICULTURE  
RURAL UTILITIES SERVICE

**BORROWER DESIGNATION**

KENTUCKY 21 NELSON

**FINANCIAL AND STATISTICAL REPORT**

**PERIOD ENDED**

AUGUST 31, 2006

INSTRUCTIONS - For detailed instructions, see RUS Bulletin 1717B-2.  
This data will be used by RUS to review your financial situation. Your response is required (7 U.S.C. 901 et. seq.) and may be confidential.

**BORROWER NAME AND ADDRESS**

SALT RIVER ELECTRIC COOPERATIVE CORPORATION  
111 W. BRASHEAR AVE.  
BARDSTOWN, KY 40004

**CERTIFICATION**

We recognize that statements contained herein concern a matter within the jurisdiction of an agency of the United States and the making of a false, fictitious or fraudulent statement may render the maker subject to prosecution under Title 18, United States Code Section 1001.

We hereby certify that the entries in this report are in accordance with the accounts and other records of the system and reflect the status of the system to the best of our knowledge and belief.

**ALL INSURANCE REQUIRED BY PART 1788 OF 7 CFR CHAPTER XVII, RUS, WAS IN FORCE DURING THE REPORTING PERIOD AND RENEWALS HAVE BEEN OBTAINED FOR ALL POLICIES**

**DURING THE PERIOD COVERED BY THIS REPORT PURSUANT TO PART 1718 OF 7 CFR CHAPTER XVII**  
(check one of the following)

All of the obligations under the RUS loan documents have been fulfilled in all material respects

There has been a default in the fulfillment of the obligations under the RUS loan documents. Said default(s) is/are specifically described in Part D of this report.

\_\_\_\_\_  
SIGNATURE OF OFFICE MANAGER OR  
ACCOUNTANT

\_\_\_\_\_  
DATE

\_\_\_\_\_  
SIGNATURE OF MANAGER OR  
APPROPRIATE TITLE

\_\_\_\_\_  
DATE

**PART A. STATEMENT OF OPERATIONS**

ITEM	YEAR-TO-DATE			THIS MONTH (d)
	LAST YEAR (a)	THIS YEAR (b)	BUDGET (c)	
1. Operating Revenue and Patronage Capital	\$43,547,641.88	\$48,928,943.11	\$46,404,744.00	\$6,652,095.37
2. Power Production Expense	\$0.00	\$0.00	\$0.00	\$0.00
3. Cost of Purchased Power	\$31,862,945.00	\$37,235,422.00	\$34,754,687.00	\$5,742,837.00
4. Transmission Expense	\$0.00	\$0.00	\$0.00	\$0.00
5. Distribution Expense - Operation	\$1,262,862.08	\$1,188,316.32	\$1,346,396.00	\$178,167.07
6. Distribution Expense - Maintenance	\$1,314,621.62	\$1,104,940.97	\$1,360,557.00	\$186,055.39
7. Customer Accounts Expense	\$1,218,073.62	\$1,389,870.39	\$1,320,893.00	\$193,845.43
8. Customer Service and Informational Expense	\$100,250.90	\$105,325.82	\$115,056.00	\$15,354.20
9. Sales Expense	\$162,176.09	\$116,710.10	\$204,073.00	\$3,330.82
10. Administrative and General Expense	\$1,526,468.75	\$1,675,324.96	\$1,489,223.00	\$214,136.42
11. Total Operation & Maintenance Expense (2 thru 10)	\$37,447,398.06	\$42,815,910.56	\$40,590,885.00	\$6,533,726.33
12. Depreciation and Amortization Expense	\$2,874,767.71	\$3,015,537.30	\$3,021,200.00	\$384,394.97
13. Tax Expense - Property & Gross Receipts	\$0.00	\$0.00	\$0.00	\$0.00
14. Tax Expense - Other	\$59,193.34	\$69,745.97	\$61,000.00	\$0.00
15. Interest on Long-Term Debt	\$1,556,322.52	\$1,628,798.05	\$1,690,779.00	\$217,292.23
16. Interest Charged to Construction - Credit	\$0.00	\$0.00	\$0.00	\$0.00
17. Interest Expense - Other	\$37,220.55	\$55,881.19	\$44,000.00	\$12,060.81
18. Other Deductions	\$650.00	\$1,625.00	\$0.00	\$0.00
19. Total Cost fo Electric Service (11 thru 18)	\$41,975,552.18	\$47,587,498.07	\$45,407,864.00	\$7,147,474.34
20. Patronage Capital & Operating Margins (1 minus 19)	\$1,572,089.70	\$1,341,445.04	\$996,880.00	(\$495,378.97)
21. Non Operating Margins - Interest	\$300,348.46	\$317,368.31	\$213,328.00	\$83,978.80
22. Allowance for Funds Used During Construction	\$0.00	\$0.00	\$0.00	\$0.00
23. Income (Loss) from Equity Investments	\$0.00	\$0.00	\$0.00	\$0.00
24. Non Operating Margins - Other	\$102,116.57	\$217,718.51	\$119,984.00	\$15,311.66
25. Generation and Transmission Capital Credits	\$0.00	\$0.00	\$0.00	\$0.00
26. Other Capital Credits and Patronage Dividends	\$240,752.12	\$252,736.55	\$184,000.00	\$58,935.17
27. Extraordinary Items	\$0.00	\$0.00	\$0.00	\$0.00
28. Patronage Capital or Margins (20 thru 27)	\$2,215,306.85	\$2,129,268.41	\$1,514,192.00	(\$337,153.34)

USDA - RUS <b>FINANCIAL AND STATISTICAL REPORT</b>	BORROWER DESIGNATION KENTUCKY 21 NELSON
INSTRUCTIONS - See RUS Bulletin 1717B-2	PERIOD ENDED AUGUST 31, 2006

PART B. DATA ON TRANSMISSION AND DISTRIBUTION PLANT					
ITEM	YEAR-TO-DATE			YEAR-TO-DATE	
	LAST YEAR (a)	THIS YEAR (b)		LAST YEAR (a)	THIS YEAR (b)
1. New Services Connected	1,118	1,102	5. Miles Transmission	0.000	0.000
2. Services Retired	84	117	6. Miles Distribution - Overhead	3,280.090	3,310.511
3. Total Services in Place	46,584	48,227	7. Miles Distribution - Underground	437.840	517.673
4. Idle Services (Exclude Seasonals)	3,418	3,576	8. Total Miles Energized (5 + 6 + 7)	3,717.930	3,828.184

PART C. BALANCE SHEET					
ASSETS AND OTHER DEBITS			LIABILITIES AND OTHER CREDITS		
1. Total Utility Plant in Service.....	\$101,999,134.88		29. Memberships.....	\$1,508,405.00	
2. Construction Work in Progress.....	\$615,446.18		30. Patronage Capital.....	\$40,363,877.45	
3. Total Utility Plant (1 + 2).....	\$102,614,581.06		31. Operating Margins - Prior Years.....	\$144,679.39	
4. Accum. Provision for Depreciation and Amort.....	\$35,651,171.84		32. Operating Margins - Current Years.....	\$1,594,181.59	
5. Net Utility Plant (3 - 4).....	\$66,963,409.22		33. Non-Operating Margins.....	\$668,002.72	
6. Non-Utility Property (Net).....	\$1,519,409.35		34. Other Margins and Equities.....	\$2,272,565.63	
7. Investments in Subsidiary Companies.....	\$0.00		35. Total Margins & Equities (29 thru 34).....	\$46,551,711.78	
8. Invest. in Assoc. Org. - Patronage Capital.....	\$14,533,633.64		36. Long-Term Debt - RUS (Net).....	\$22,513,331.86	
9. Invest. in Assoc. Org. - Other - General Funds.....	\$1,658.84		(Payments - Unapplied \$ )	\$0.00	
10. Invest. in Assoc. Org. - Other - Nongeneral Funds.....	\$2,119,658.04		37. Long-Term Debt - RUS - Econ. Devel. (Net).....	\$467,592.34	
11. Investments in Economic Development Projects.....	\$464,815.35		38. Long-Term Debt - FFB - RUS Guaranteed.....	\$0.00	
12. Other Investments.....	\$0.00		39. Long-Term Debt - Other - RUS Guaranteed.....	\$0.00	
13. Special Funds.....	\$0.00		40. Long-Term Debt - Other (Net).....	\$25,967,980.81	
14. Total Other Property & Investments (6 thru 13).....	\$18,639,175.22		41. Total Long-Term Debt (36 thru 40).....	\$48,948,905.01	
15. Cash - General Funds.....	\$682,540.50		42. Obligations Under Capital Leases - Noncurrent.....	\$0.00	
16. Cash - Construction Funds - Trustee.....	\$0.00		43. Accumulated Operating Provisions.....	\$308,340.69	
17. Special Deposits.....	\$0.00		44. Total Other Noncurrent Liabilities (42 +43).....	\$308,340.69	
18. Temporary Investments.....	\$3,707,709.42		45. Notes Payable.....	\$0.00	
19. Notes Receivable (Net).....	\$3,621,124.23		46. Accounts Payable.....	\$6,458,163.73	
20. Accounts Receivable - Sales of Energy (Net).....	\$8,340,178.34		47. Consumers Deposits.....	\$1,327,887.87	
21. Accounts Receivable - Other (Net).....	\$221,541.56		48. Current Maturities Long-Term Debt.....	\$0.00	
22. Materials and Supplies - Electric & Other.....	\$732,015.96		49. Current Maturities Long-Term Debt		
23. Prepayments.....	\$186,697.52		-Economic Development.....	\$0.00	
24. Other Current and Accrued Assets.....	\$0.00		50. Current Maturities Capital Leases.....	\$0.00	
25. Total Current and Accrued Assets (15 thru 24).....	\$17,491,807.53		51. Other Current and Accrued Liabilities.....	\$1,214,771.33	
26. Regulatory Assets.....	\$0.00		52. Total Current & Accrued Liabilities (45 thru 51).....	\$9,000,822.93	
27. Other Deferred Debits.....	\$2,036,451.53		53. Regulatory Liabilities.....	\$0.00	
28. Total Assets and Other Debits (5 + 14 + 25 thru 27).....	\$105,130,843.50		54. Other Deferred Credits.....	\$321,063.09	
			55. Total Liabilities and Other Credits (35 + 41 + 44 + 52 thru 54).....	\$105,130,843.50	

**PART D. NOTES TO FINANCIAL STATEMENTS**

THIS SPACE IS PROVIDED FOR IMPORTANT DISCLOSURE NOTES TO THE FINANCIAL STATEMENTS CONTAINED IN THIS REPORT. (A SEPARATE SHEET MAY BE USED IF ADDITIONAL SPACE IS NEEDED.)

SALT RIVER ECC  
12 MONTHS ENDED  
AUGUST 31, 2006

	<u>12 mo. ended 08/31/06</u>
Operating Revenue and Patronage Capital	\$72,935,567.00
Cost of Purchased Power	\$55,580,252.00
Distribution Expense - Operation	\$1,878,279.00
Distribution Expense - Maintenance	\$1,457,962.00
Consumer Accounts Expense	\$2,039,709.00
Customer Service and Informational Expense	\$164,218.00
Sales Expense	\$196,740.00
Administrative & General Expense	<u>\$2,434,899.00</u>
Total Operation & Maintenance Expense	\$63,752,059.00
Depreciation and Amortization Expense	\$4,484,946.00
Tax Expense - Other	\$69,746.00
Interest on Long-Term Debt	\$2,428,587.00
Interest Expense - Other	\$81,026.00
Other Deductions	<u>\$5,139.00</u>
Total Cost of Electric Service	\$70,821,503.00
Patronage Capital & Operating Margins	\$2,114,064.00
Non Operating Margins - Interest	\$484,475.00
Income (Loss) from Equity Investments	\$0.00
Non Operating Margins - Other	\$368,240.00
Generation and Transmission Capital Credits	\$0.00
Other Capital Credits and Patronage Dividends	<u>\$281,992.00</u>
Patronage Capital or Margins	<u><u>\$3,248,771.00</u></u>



COST ESTIMATE AND LOAN BUDGET FOR ELECTRIC BORROWERS		BORROWER AND LOAN DESIGNATION	KY 21 NELSON
SECTION A. COST ESTIMATES (Page 1 Continuation Sheet)		BORROWER'S COST ESTIMATES	RUS USE ONLY
200 b. New Tie-Lines (Continued)			
	Line Designation	Miles	
207		0.00	\$0
208		0.00	0
209		0.00	0
210		0.00	0
211		0.00	0
212		0.00	0
213		0.00	0
214		0.00	0
215		0.00	0
216		0.00	0
	Miles .....	0.00	
	Subtotal (transfers to page 1) .....		\$0
300 c. Conversion and Line Changes (Continued)			
	Line Designation	Miles	
311	Joe Tichenor Substation to Cox's Creek Elementary School	0.64	\$46,720
312	Plum Ridge Road	1.79	98,450
313	Maud Hill to Campground Church Road	3.13	228,490
314	Hardesty Road	0.93	51,150
315	Cane Run Road to Borders Road	2.59	189,070
316	Burba Road	2.40	105,600
317	Tatum Ridge Road	4.10	180,400
318	Bennetts Lane	1.00	44,000
319	Mt Elmira Road	2.50	110,000
320	Lutheran Church Road	1.10	48,400
321	Jim Clark Road	2.30	101,200
322		0.00	0
323		0.00	0
324		0.00	0
325		0.00	0
326		0.00	0
327		0.00	0
328		0.00	0
329		0.00	0
330		0.00	0
331		0.00	0
332		0.00	0
333		0.00	0
334		0.00	0
335		0.00	0
336		0.00	0
337		0.00	0
338		0.00	0
339		0.00	0
340		0.00	0
341		0.00	0
342		0.00	0
343		0.00	0
344		0.00	0
345		0.00	0
346		0.00	0
347		0.00	0
348		0.00	0
349		0.00	0
350		0.00	0
351		0.00	0
352		0.00	0
353		0.00	0
354		0.00	0
	Subtotal (transfers to page 1) .....	Mi 22.48	\$1,203,480



COST ESTIMATE AND LOAN BUDGET FOR ELECTRIC BORROWERS			BORROWER AND LOAN DESIGNATION	
			KY 21 NELSON	
SECTION A. COST ESTIMATES (cont.)			BORROWER'S	RUS USE ONLY
			COST ESTIMATES	
900	b. New Substation, Switching Station, etc.			
	<u>Station Designation</u>	<u>kVA</u>	<u>kV TO kV</u>	
901	_____	_____	_____	\$0
902	_____	_____	_____	0
903	_____	_____	_____	0
904	_____	_____	_____	0
905	_____	_____	_____	0
906	_____	_____	_____	0
907	_____	_____	_____	0
908	_____	_____	_____	0
	<i>Subtotal From Page 3A .....</i>			0
	<i>Subtotal .....</i>			\$0
1000	c. Line and Station Changes			
	<u>Line/Station Designation</u>	<u>Description of Changes</u>		
1001	_____	_____		\$0
1002	_____	_____		0
1003	_____	_____		0
1004	_____	_____		0
1005	_____	_____		0
1006	_____	_____		0
1007	_____	_____		0
1008	_____	_____		0
1009	_____	_____		0
	<i>Subtotal From page 3A through 3C .....</i>			0
	<i>Subtotal .....</i>			\$0
1100	d. Other Transmission Items			
1101	(1) R/W Procurement	_____	_____	\$0
1102	(2) Engineering Fees	_____	_____	0
1103	(3) Reimbursement of General Funds (see schedule)	_____	_____	0
1104	(4) _____	_____	_____	0
	<i>Subtotal .....</i>			\$0
	<b>TOTAL TRANSMISSION.....</b>			\$0
1200	3. GENERATION (including Step-up Station at Plant)			
1201	a. Fuel _____	Nameplate Rating _____	_____ kW	\$0
1202	b. _____			0
	<b>TOTAL GENERATION.....</b>			\$0
1300	4. HEADQUARTERS FACILITIES			
1301	a. New or additional Facilities _____	(Attach RUS Form 740g)		\$0
1302	b. _____			0
	<b>TOTAL HEADQUARTERS FACILITIES.....</b>			\$0

COST ESTIMATE AND LOAN BUDGET FOR ELECTRIC BORROWERS		BORROWER AND LOAN DESIGNATION	KY 21 NELSON	
SECTION A. COST ESTIMATES (cont.)			BORROWER'S COST ESTIMATES	RUS USE ONLY
1400	5. ACQUISITIONS			
1401	a.	Consumers		\$0
1402	b.	Miles		0
TOTAL ACQUISITIONS.....				\$0
1500	6. ALL OTHER			
1501	a.			\$0
1502	b.			0
1503	c.			0
1504	d.			0
1505	e.			0
TOTAL ALL OTHER.....				\$0

SECTION B. SUMMARY OF AMOUNTS AND SOURCES OF FINANCING

1. GRAND TOTAL - ALL COSTS .....		\$17,798,865
2. FUNDS AND MATERIALS AVAILABLE FOR FACILITIES		
a. Loan Funds .....	\$0	
b. Materials and Special Equipment .....	0	
c. General Funds .....		
Purpose 1	\$0	
Purpose 2	\$0	
Purpose 3	\$0	
Purpose 4	\$0	
Total General Funds Applied .....	\$0	
d. Total Available Funds and Materials .....		\$0
3. NEW FINANCING REQUESTED FOR FACILITIES .....		\$17,798,865
4. RUS LOAN REQUESTED FOR FACILITIES .....	100%	\$17,799,000
5. TOTAL SUPPLEMENTAL LOAN REQUESTED .....		(\$135)
National Rural Utilities Cooperative Finance Corporation		
Name of Supplemental Lender		
6. CAPITAL TERM CERTIFICATE PURCHASES (CFC Loan only) .....	0%	\$0
7. SUPPLEMENTAL LOAN REQUESTED FOR FACILITIES .....	0%	(\$135)
8. 100% SUPPLEMENTAL LOANS (SEE RUS Bulletin 20-4, Att. C)*		\$0

\* Identify in section A by budget purpose and separate subtotals.

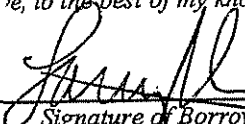
SECTION C. CERTIFICATION

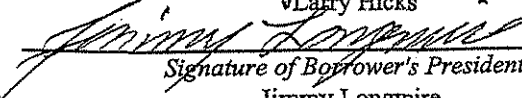
We, the undersigned, certify that:

1. Upon completion of the electrical facilities contained herein and any others uncompleted at this time but for which financing is available, the system will be capable of adequately and dependably serving the projected load for the loan period as contained in our current RUS approved Power Requirement Study and Construction Work Plan.
2. Negotiations have been or will be initiated with our power supplier, where necessary, to obtain new delivery points and/or additional capacity at existing ones to adequately supply the projected load upon which this loan application is based.
3. The data contained herein and all supporting documents have, to the best of my knowledge, been prepared correctly and in accordance with RUS Bulletin 20-2.

4-14-05  
Date

4-14-05  
Date

  
Signature of Borrower's Manager  
Larry Hicks

  
Signature of Borrower's President  
Jimmy Longmire

SALT RIVER ELECTRIC  
Corporate Name of Borrower

GFR Initials





FINANCIAL FORECAST RUS FORM 325C - STATEMENT OF OPERATIONS

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
1. ACCRUAL BASIS										
a (1). ADDITIONAL REVENUE REQUIREMENTS	3,637,002	6,593,244	7,459,659	4,369,864	5,588,408	8,888,635	10,540,794	10,825,651	14,373,130	15,842,599
FOR TIER/EQUITY										
(2). OPER. REV. & PATRON. CAP. - PRESENT RATES	58,175,283	61,649,688	64,535,825	66,779,720	68,962,357	71,696,827	74,039,636	76,487,304	79,043,749	82,070,555
b. COST OF POWER	46,002,960	51,534,346	54,544,225	52,951,401	55,531,477	60,827,776	64,103,556	66,122,105	71,517,349	75,263,013
c. OPER. REV. LESS COST OF POWER	15,809,325	16,708,586	17,451,259	18,198,184	19,019,288	19,757,486	20,476,872	21,190,850	21,899,530	22,650,132
d. OPERATIONS & MAINTENANCE EXPENSE	3,734,133	3,846,157	3,961,542	4,080,388	4,202,800	4,328,884	4,458,750	4,592,513	4,730,288	4,872,197
e. CONSUMER ACCOUNTS AND SALES EXPENSE	2,228,713	2,295,574	2,364,442	2,435,375	2,508,436	2,583,689	2,661,200	2,741,036	2,823,267	2,907,965
f. ADM. & GEN. & OTHER DEDUCTIONS EXPENSE	2,246,538	2,313,934	2,383,952	2,454,853	2,528,498	2,604,353	2,682,494	2,762,958	2,845,847	2,931,223
g. DEPRECIATION AND AMORTIZATION EXPENSE	4,379,400	4,510,782	4,646,105	4,785,489	4,929,053	5,076,925	5,229,233	5,386,110	5,547,693	5,714,124
h. TAX EXPENSE	58,000	59,740	61,532	63,378	65,280	67,238	69,255	71,333	73,473	75,677
i. INTEREST EXPENSE	2,314,672	2,617,682	2,824,835	3,027,315	3,265,510	3,449,181	3,614,769	3,769,718	3,913,864	4,073,979
j. TOTAL COST OF ELECTRIC SERVICE	60,964,415	67,178,215	70,785,833	69,798,199	73,031,054	78,938,047	82,819,249	85,445,771	91,451,781	95,838,177
k. PATRONAGE CAPITAL & OPERATING MARGINS	847,869	1,064,717	1,209,651	1,351,387	1,519,711	1,647,215	1,761,182	1,867,184	1,965,098	2,074,968
l. NON-OPERATING MARGINS	560,000	570,000	580,000	590,000	600,000	610,000	620,000	630,000	640,000	650,000
m. G&T AND OTHER CAPITAL CREDITS (CFC CTC'S)	325,000	325,000	325,000	325,000	325,000	325,000	325,000	325,000	325,000	325,000
n. TOTAL ACCRUAL MARGINS	1,732,869	1,959,717	2,114,651	2,266,387	2,444,711	2,582,215	2,706,182	2,822,184	2,930,998	3,049,968

FINANCIAL FORECAST RUS FORM 325D - GENERAL FUNDS SUMMARY

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
2. CASH BASIS										
a. CASH FROM OPERATIONS BEFORE DEBT SERVICE	8,101,941	8,763,180	9,260,391	9,754,190	10,314,275	10,783,322	11,225,183	11,653,011	12,066,655	12,513,071
b. TOTAL DEBT SERVICE	4,743,574	4,992,759	5,214,282	5,494,163	5,834,748	6,138,734	6,413,302	6,711,088	7,005,745	7,301,682
c. CASH MARGINS AFTER DEBT SERVICE	3,358,367	3,770,421	4,046,109	4,260,027	4,479,527	4,644,588	4,811,881	4,941,923	5,060,910	5,211,389
1. SOURCES OF GENERAL FUNDS										
a. NET GENERAL FUNDS BEGINNING OF YEAR	7,896,489	4,054,856	6,924,277	8,270,386	10,830,413	13,609,940	16,554,528	19,166,409	21,908,331	24,769,241
b. CASH MARGINS AFTER DEBT SERVICE	3,358,367	3,770,421	4,046,109	4,260,027	4,479,527	4,644,588	4,811,881	4,941,923	5,060,910	5,211,389
c. OTHER PROCEEDS	0	0	0	0	0	0	0	0	0	0
d. SALE OF EXCLUDABLE ITEMS	0	0	0	0	0	0	0	0	0	0
e. REIMBURSEMENT FROM PRIORITY LOAN FUNDS	0	0	0	0	0	0	0	0	0	0
f. REIMBURSEMENT FROM SPECIAL LOANS (NON-PRIORITY)	0	0	0	0	0	0	0	0	0	0
2. TOTAL GENERAL FUNDS AVAILABLE	11,254,856	7,825,277	9,970,386	12,530,413	15,309,940	18,254,528	21,366,409	24,108,331	26,969,241	31,430,630
3. PROPOSED USE OF GENERAL FUNDS										
a. PURCHASE OF EXCLUDABLE ITEMS	0	0	0	0	0	0	0	0	0	0
b. CAPITAL CREDIT RETIREMENTS	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000
c. GENERAL FUNDS INVESTED IN PLANT	6,000,000	701,000	500,000	500,000	500,000	500,000	1,000,000	1,000,000	1,000,000	1,000,000
d. OTHER USES OF GENERAL FUNDS	0	0	0	0	0	0	0	0	0	0
e. ADDITIONAL PRINCIPAL PAYMENTS	0	0	0	0	0	0	0	0	0	0
4. TOTAL PROPOSED USES OF GENERAL FUNDS	7,200,000	1,901,000	1,700,000	1,700,000	1,700,000	1,700,000	2,200,000	2,200,000	2,200,000	2,200,000
5. NET GENERAL FUNDS - END OF YEAR	4,054,856	5,924,277	8,270,386	10,830,413	13,609,940	16,554,528	19,166,409	21,908,331	24,769,241	29,230,630

	PREVIOUS YEARS						FUTURE YEARS							
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	
<b>1. AVERAGE NUMBER OF CONSUMERS</b>														
a. RESIDENTIAL	36,122	37,471	38,979	40,102	41,527	42,769	44,135	45,529	46,947	48,389	49,853	51,343	52,862	
b. RESIDENTIAL SEASONAL	0	0	0	0	0	0	0	0	0	0	0	0	0	
c. IRRIGATION	0	0	0	0	0	0	0	0	0	0	0	0	0	
d. COMMERCIAL	2,254	2,196	2,268	2,376	2,467	2,559	2,651	2,745	2,840	2,935	3,032	3,130	3,229	
(1) COMMERCIAL: 1000 KVA OR LESS	5	9	9	11	13	14	14	14	15	15	15	15	16	
(2) COMMERCIAL: > 1000 KVA	0	0	0	0	0	0	0	0	0	0	0	0	0	
(3) n/a	0	0	0	0	0	0	0	0	0	0	0	0	0	
(4) n/a	0	0	0	0	0	0	0	0	0	0	0	0	0	
e. PUBLIC STREET & HIGHWAY LIGHTING	193	200	202	209	215	221	227	233	238	244	250	256	262	
f. PUBLIC BUILDING & OTHER PUBLIC AUTH.	0	0	0	0	0	0	0	0	0	0	0	0	0	
g. OTHER - 1	0	0	0	0	0	0	0	0	0	0	0	0	0	
h. OTHER - 2	0	0	0	0	0	0	0	0	0	0	0	0	0	
i. SECURITY LIGHTS	0	0	0	0	0	0	0	0	0	0	0	0	0	
j. TOTAL CONSUMERS	38,574	39,876	41,458	42,698	44,222	45,563	47,027	48,521	50,040	51,583	53,150	54,744	56,369	
<b>2. AVERAGE MONTHLY USE PER CONSUMER</b>														
a. RESIDENTIAL	1,346	1,301	1,304	1,355	1,366	1,388	1,397	1,403	1,413	1,420	1,429	1,439	1,449	
b. RESIDENTIAL SEASONAL	0	0	0	0	0	0	0	0	0	0	0	0	0	
c. IRRIGATION	0	0	0	0	0	0	0	0	0	0	0	0	0	
d. COMMERCIAL	4,900	4,775	5,186	4,677	4,682	4,686	4,720	4,744	4,769	4,795	4,819	4,844	4,868	
(1) COMMERCIAL: 1000 KVA OR LESS	1,323,037	942,415	979,091	939,061	970,968	969,351	963,993	967,220	953,189	956,944	961,911	968,166	956,703	
(2) COMMERCIAL: > 1000 KVA	0	0	0	0	0	0	0	0	0	0	0	0	0	
(3) n/a	0	0	0	0	0	0	0	0	0	0	0	0	0	
(4) n/a	0	0	0	0	0	0	0	0	0	0	0	0	0	
e. PUBLIC STREET & HIGHWAY LIGHTING	888	901	904	955	974	993	1,011	1,029	1,052	1,070	1,087	1,105	1,122	
f. PUBLIC BUILDING & OTHER PUBLIC AUTH.	0	0	0	0	0	0	0	0	0	0	0	0	0	
g. OTHER - 1	0	0	0	0	0	0	0	0	0	0	0	0	0	
h. OTHER - 2	0	0	0	0	0	0	0	0	0	0	0	0	0	
i. SECURITY LIGHTS	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>3. ANNUAL KWH SALES</b>														
a. RESIDENTIAL	589,589,832	585,188,964	610,138,375	651,978,000	680,567,000	712,205,000	739,911,000	766,699,000	795,835,000	824,663,000	854,916,000	886,552,000	919,393,000	
b. RESIDENTIAL SEASONAL	0	0	0	0	0	0	0	0	0	0	0	0	0	
c. IRRIGATION	0	0	0	0	0	0	0	0	0	0	0	0	0	
d. COMMERCIAL	132,541,977	125,822,949	141,129,331	133,363,000	138,600,000	144,252,000	150,165,000	156,270,000	162,514,000	168,875,000	175,338,000	181,923,000	188,633,000	
(1) COMMERCIAL: 1000 KVA OR LESS	79,382,245	101,780,835	105,741,858	123,986,000	151,471,000	161,171,000	161,934,000	162,493,000	171,574,000	172,250,000	173,144,000	174,268,000	183,687,000	
(2) COMMERCIAL: > 1000 KVA	0	0	0	0	0	0	0	0	0	0	0	0	0	
(3) n/a	0	0	0	0	0	0	0	0	0	0	0	0	0	
(4) n/a	0	0	0	0	0	0	0	0	0	0	0	0	0	
e. PUBLIC STREET & HIGHWAY LIGHTING	2,055,858	2,161,752	2,190,666	2,396,000	2,514,000	2,633,000	2,754,000	2,878,000	3,004,000	3,132,000	3,262,000	3,394,000	3,529,000	
f. PUBLIC BUILDING & OTHER PUBLIC AUTH.	0	0	0	0	0	0	0	0	0	0	0	0	0	
g. OTHER - 1	0	0	0	0	0	0	0	0	0	0	0	0	0	
h. OTHER - 2	0	0	0	0	0	0	0	0	0	0	0	0	0	
i. SECURITY LIGHTS	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>4. ANNUAL POWER REQUIREMENTS</b>														
a. TOTAL KWH SOLD	797,569,712	814,954,500	859,200,230	911,693,000	973,152,000	1,020,261,000	1,054,764,000	1,088,340,000	1,132,927,000	1,168,920,000	1,206,660,000	1,246,137,000	1,285,292,000	
(1). KWH SOLD NOT SUBJ TO LINE LOSS	0	0	0	0	0	0	0	0	0	0	0	0	0	
b. SYSTEMS OWN USE - KWH	678,256	596,946	665,431	675,000	685,000	695,000	705,000	715,000	725,000	745,000	755,000	785,000	805,000	
c. SYSTEM LOSS	0	0	0	0	0	0	0	0	0	0	0	0	0	
(1). PERCENTAGE	4.97%	5.15%	4.81%	5.10%	5.10%	5.10%	5.10%	5.10%	5.10%	5.10%	5.10%	5.10%	5.10%	
(2). KWH	41,763,631	44,317,220	43,408,582	49,031,368	52,334,760	54,866,972	56,721,727	58,526,665	60,923,342	62,858,709	64,887,961	67,010,561	69,650,039	
d. TOTAL KWH REQUIREMENTS	840,031,599	859,866,666	903,274,223	961,399,368	1,028,171,760	1,075,622,972	1,112,190,727	1,147,581,665	1,194,575,342	1,232,523,709	1,272,312,961	1,313,932,561	1,365,687,039	

FINANCIAL FORECAST RUS FORM 325F - DETERMINATION OF OPERATING REVENUE

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	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
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	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
1. RESIDENTIAL													
a. TOTAL ANNUAL KWH SOLD	583,589,832	585,188,964	610,138,375	651,978,000	680,567,000	712,205,000	739,911,000	766,699,000	795,835,000	824,663,000	854,916,000	886,552,000	919,383,000
b. AVG. REVENUE PER KWH SOLD	0.0599242	0.0615916	0.0651370	0.0651370	0.0651370	0.0651370	0.0651370	0.0651370	0.0651370	0.0651370	0.0651370	0.0651370	0.0651370
c. FIXED MONTHLY CHARGE PER CONSUMER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
d. AVG. NUMBER OF CONSUMERS	36,122	37,471	38,979	40,102	41,527	42,769	44,195	45,529	46,947	48,389	49,883	51,343	52,862
e. ANNUAL REVENUE LESS FLOW THROUGH ADJ.	34,621,014	36,042,729	39,742,609	42,467,891	44,330,093	46,390,897	48,195,593	49,940,473	51,838,304	53,716,074	55,686,663	57,747,338	59,885,850
f. FLOW THROUGH ADJUSTMENT REVENUE	0	0	0	0	0	0	0	0	0	0	0	0	0
g. GROSS ANNUAL REVENUE	34,621,014	36,042,729	39,742,609	42,467,891	44,330,093	46,390,897	48,195,593	49,940,473	51,838,304	53,716,074	55,686,663	57,747,338	59,885,850
2. RESIDENTIAL SEASONAL													
a. TOTAL ANNUAL KWH SOLD	0	0	0	0	0	0	0	0	0	0	0	0	0
b. AVG. REVENUE PER KWH SOLD	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
c. FIXED MONTHLY CHARGE PER CONSUMER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
d. AVG. NUMBER OF CONSUMERS	0	0	0	0	0	0	0	0	0	0	0	0	0
e. ANNUAL REVENUE LESS FLOW THROUGH ADJ.	0	0	0	0	0	0	0	0	0	0	0	0	0
f. FLOW THROUGH ADJUSTMENT REVENUE	0	0	0	0	0	0	0	0	0	0	0	0	0
g. GROSS ANNUAL REVENUE	0	0	0	0	0	0	0	0	0	0	0	0	0
3. IRRIGATION													
a. TOTAL ANNUAL KWH SOLD	0	0	0	0	0	0	0	0	0	0	0	0	0
b. AVG. REVENUE PER KWH SOLD	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
c. FIXED MONTHLY CHARGE PER CONSUMER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
d. AVG. NUMBER OF CONSUMERS	0	0	0	0	0	0	0	0	0	0	0	0	0
e. ANNUAL REVENUE LESS FLOW THROUGH ADJ.	0	0	0	0	0	0	0	0	0	0	0	0	0
f. FLOW THROUGH ADJUSTMENT REVENUE	0	0	0	0	0	0	0	0	0	0	0	0	0
g. GROSS ANNUAL REVENUE	0	0	0	0	0	0	0	0	0	0	0	0	0
4. COMMERCIAL: 1000 KVA OR LESS													
a. TOTAL ANNUAL KWH SOLD	132,541,977	125,822,949	141,129,331	133,363,000	138,600,000	144,252,000	150,185,000	155,270,000	162,514,000	168,875,000	175,338,000	181,923,000	188,633,000
b. AVG. REVENUE PER KWH SOLD	0.0594882	0.0623151	0.0651706	0.0651706	0.0651706	0.0651706	0.0651706	0.0651706	0.0651706	0.0651706	0.0651706	0.0651706	0.0651706
c. FIXED MONTHLY CHARGE PER CONSUMER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
d. AVG. NUMBER OF CONSUMERS	2,254	2,198	2,288	2,376	2,467	2,539	2,651	2,745	2,840	2,935	3,032	3,130	3,229
e. ANNUAL REVENUE LESS FLOW THROUGH ADJ.	7,884,689	7,840,664	9,197,488	8,691,347	9,032,645	9,400,989	9,786,343	10,184,210	10,591,135	11,005,685	11,426,883	11,856,031	12,293,826
f. FLOW THROUGH ADJUSTMENT REVENUE	0	0	0	0	0	0	0	0	0	0	0	0	0
g. GROSS ANNUAL REVENUE	7,884,689	7,840,664	9,197,488	8,691,347	9,032,645	9,400,989	9,786,343	10,184,210	10,591,135	11,005,685	11,426,883	11,856,031	12,293,826
5. COMMERCIAL: > 1000 KVA													
a. TOTAL ANNUAL KWH SOLD	79,382,245	101,780,835	105,741,858	123,956,000	151,471,000	161,171,000	161,334,000	182,483,000	171,574,000	172,250,000	173,144,000	174,268,000	183,687,000
b. AVG. REVENUE PER KWH SOLD	0.0386803	0.0426476	0.0456937	0.0456937	0.0456937	0.0456937	0.0456937	0.0456937	0.0456937	0.0456937	0.0456937	0.0456937	0.0456937
c. FIXED MONTHLY CHARGE PER CONSUMER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
d. AVG. NUMBER OF CONSUMERS	5	9	9	11	13	14	14	14	15	15	15	15	16
e. ANNUAL REVENUE LESS FLOW THROUGH ADJ.	3,070,528	4,340,708	4,831,734	5,664,008	6,921,270	7,364,499	7,399,364	7,424,906	7,839,851	7,870,740	7,911,590	7,962,950	8,393,339
f. FLOW THROUGH ADJUSTMENT REVENUE	0	0	0	0	0	0	0	0	0	0	0	0	0
g. GROSS ANNUAL REVENUE	3,070,528	4,340,708	4,831,734	5,664,008	6,921,270	7,364,499	7,399,364	7,424,906	7,839,851	7,870,740	7,911,590	7,962,950	8,393,339

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
6. n/a													
a. TOTAL ANNUAL KWH SOLD	0	0	0	0	0	0	0	0	0	0	0	0	0
b. AVG. REVENUE PER KWH SOLD	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
c. FIXED MONTHLY CHARGE PER CONSUMER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
d. AVG. NUMBER OF CONSUMERS	0	0	0	0	0	0	0	0	0	0	0	0	0
e. ANNUAL REVENUE LESS FLOW THROUGH ADJ.	0	0	0	0	0	0	0	0	0	0	0	0	0
f. FLOW THROUGH ADJUSTMENT REVENUE	0	0	0	0	0	0	0	0	0	0	0	0	0
g. GROSS ANNUAL REVENUE	0	0	0	0	0	0	0	0	0	0	0	0	0

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
7. n/a													
a. TOTAL ANNUAL KWH SOLD	0	0	0	0	0	0	0	0	0	0	0	0	0
b. AVG. REVENUE PER KWH SOLD	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
c. FIXED MONTHLY CHARGE PER CONSUMER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
d. AVG. NUMBER OF CONSUMERS	0	0	0	0	0	0	0	0	0	0	0	0	0
e. ANNUAL REVENUE LESS FLOW THROUGH ADJ.	0	0	0	0	0	0	0	0	0	0	0	0	0
f. FLOW THROUGH ADJUSTMENT REVENUE	0	0	0	0	0	0	0	0	0	0	0	0	0
g. GROSS ANNUAL REVENUE	0	0	0	0	0	0	0	0	0	0	0	0	0

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
8. PUBLIC STREET & HIGHWAY LIGHTING													
a. TOTAL ANNUAL KWH SOLD	2,055,658	2,161,752	2,190,666	2,396,000	2,514,000	2,633,000	2,754,000	2,878,000	3,004,000	3,132,000	3,262,000	3,394,000	3,529,000
b. AVG. REVENUE PER KWH SOLD	0.1035730	0.1038418	0.1158247	0.1158247	0.1158247	0.1158247	0.1158247	0.1158247	0.1158247	0.1158247	0.1158247	0.1158247	0.1158247
c. FIXED MONTHLY CHARGE PER CONSUMER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
d. AVG. NUMBER OF CONSUMERS	193	200	202	209	215	221	227	233	238	244	250	256	262
e. ANNUAL REVENUE LESS FLOW THROUGH ADJ.	217,026	235,289	253,295	277,037	290,680	304,440	318,430	332,766	347,397	362,137	377,168	392,430	408,040
f. FLOW THROUGH ADJUSTMENT REVENUE	0	0	0	0	0	0	0	0	0	0	0	0	0
g. GROSS ANNUAL REVENUE	217,026	235,289	253,295	277,037	290,680	304,440	318,430	332,766	347,397	362,137	377,168	392,430	408,040

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
9. PUBLIC BUILDING & OTHER PUBLIC AUTH.													
a. TOTAL ANNUAL KWH SOLD	0	0	0	0	0	0	0	0	0	0	0	0	0
b. AVG. REVENUE PER KWH SOLD	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
c. FIXED MONTHLY CHARGE PER CONSUMER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
d. AVG. NUMBER OF CONSUMERS	0	0	0	0	0	0	0	0	0	0	0	0	0
e. ANNUAL REVENUE LESS FLOW THROUGH ADJ.	0	0	0	0	0	0	0	0	0	0	0	0	0
f. FLOW THROUGH ADJUSTMENT REVENUE	0	0	0	0	0	0	0	0	0	0	0	0	0
g. GROSS ANNUAL REVENUE	0	0	0	0	0	0	0	0	0	0	0	0	0

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
10. OTHER - 1													
a. TOTAL ANNUAL KWH SOLD	0	0	0	0	0	0	0	0	0	0	0	0	0
b. AVG. REVENUE PER KWH SOLD	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
c. FIXED MONTHLY CHARGE PER CONSUMER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
d. AVG. NUMBER OF CONSUMERS	0	0	0	0	0	0	0	0	0	0	0	0	0
e. ANNUAL REVENUE LESS FLOW THROUGH ADJ.	0	0	0	0	0	0	0	0	0	0	0	0	0
f. FLOW THROUGH ADJUSTMENT REVENUE	0	0	0	0	0	0	0	0	0	0	0	0	0
g. GROSS ANNUAL REVENUE	0	0	0	0	0	0	0	0	0	0	0	0	0

	1==>Adj: 1		PREVIOUS YEARS					FUTURE YEARS							
	2==>Adj: 2	3==>Adj: 1+Adj: 2	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
	Flow-thru code														
11. OTHER - 2															
a. TOTAL ANNUAL KWH SOLD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
b. AVG. REVENUE PER KWH SOLD	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
c. FIXED MONTHLY CHARGE PER CONSUMER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
d. AVG. NUMBER OF CONSUMERS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
e. ANNUAL REVENUE LESS FLOW THROUGH ADJ.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
f. FLOW THROUGH ADJUSTMENT REVENUE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
g. GROSS ANNUAL REVENUE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12. SECURITY LIGHTS															
a. TOTAL ANNUAL KWH SOLD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
b. AVG. REVENUE PER KWH SOLD	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
c. FIXED MONTHLY CHARGE PER CONSUMER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
d. AVG. NUMBER OF CONSUMERS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
e. ANNUAL REVENUE LESS FLOW THROUGH ADJ.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
f. FLOW THROUGH ADJUSTMENT REVENUE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
g. GROSS ANNUAL REVENUE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13. FLOW THROUGH ADJUSTMENTS															
a. KWH SOLD SUBJECT TO ADJUSTMENT - 1	797,589,712	814,954,500	859,200,290	911,693,000	973,152,000	1,020,281,000	1,054,764,000	1,098,340,000	1,192,827,000	1,168,990,000	1,208,660,000	1,246,197,000	1,295,232,000		
b. FLOW THROUGH ADJUSTMENT - 1 PER KWH	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
c. REVENUE FROM ADJUSTMENT - 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
d. KWH SOLD SUBJECT TO ADJUSTMENT - 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
e. FLOW THROUGH ADJUSTMENT - 2 PER KWH	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
f. REVENUE FROM ADJUSTMENT - 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
g. TOTAL REVENUE FROM ADJUSTMENTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14. TOTAL REVENUE															
a. TOTAL REV. FROM SALE OF ELEC. ENERGY	45,799,257	48,459,390	54,025,126	57,100,283	60,574,688	63,460,825	65,699,720	67,882,357	70,616,627	72,954,636	75,402,304	77,958,749	80,980,555		
b. OTHER OPERATING REVENUE	907,360	944,998	1,046,399	1,075,000	1,075,000	1,075,000	1,080,000	1,080,000	1,080,000	1,085,000	1,085,000	1,085,000	1,090,000		
c. TOTAL OPERATING REVENUE	46,700,817	49,404,388	55,071,525	58,175,283	61,649,688	64,535,825	66,779,720	68,962,357	71,696,627	74,039,636	76,487,304	79,043,749	82,070,555		

	PREVIOUS YEARS				FUTURE YEARS									
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	
<b>1. PLANT SUMMARY</b>														
a. TOTAL UTILITY PLANT (FIRST OF YEAR)	77,516,592	84,146,930	89,099,103	93,327,214	98,327,214	103,827,214	109,327,214	114,802,214	120,252,214	125,677,214	131,577,214	137,452,214	143,302,214	
b. PLUS: GROSS ADDITIONS AND REPLACEMENTS	7,723,606	5,747,467	5,210,638	6,000,000	6,500,000	6,500,000	6,500,000	6,500,000	6,500,000	7,000,000	7,000,000	7,000,000	7,000,000	
c. LESS: CONTRIBUTION IN AID OF CONSTRUCTION	0	0	0	0	0	0	0	0	0	0	0	0	0	
d. LESS: RETIREMENTS	1,093,288	795,294	982,627	1,000,000	1,000,000	1,000,000	1,025,000	1,050,000	1,075,000	1,100,000	1,125,000	1,150,000	1,175,000	
e. TOTAL UTILITY PLANT (END OF YEAR)	84,146,930	89,099,103	93,327,214	98,327,214	103,827,214	109,327,214	114,802,214	120,252,214	125,677,214	131,577,214	137,452,214	143,302,214	149,127,214	
<b>2. PLANT ADDITIONS &amp; REPLACEMENTS</b>														
Type	Priority													
a. Distribution	Y	5,473,530	5,504,911	4,791,048	5,500,000	6,000,000	6,000,000	6,000,000	6,000,000	6,500,000	6,500,000	6,500,000	6,500,000	
b. Subtransmission	Y	0	0	0	0	0	0	0	0	0	0	0	0	
c. Bulk Transmission	N	0	0	0	0	0	0	0	0	0	0	0	0	
d. Generation	N	0	0	0	0	0	0	0	0	0	0	0	0	
e. Hdq - Warehouse	Y	0	0	0	0	0	0	0	0	0	0	0	0	
f. Hdq - Office	N	0	0	0	0	0	0	0	0	0	0	0	0	
g. General Plant	N	590,196	531,724	399,479	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	
h. Acquisitions	N	0	0	0	0	0	0	0	0	0	0	0	0	
i. Land	N	1,559,780	(289,168)	20,111	0	0	0	0	0	0	0	0	0	
j. Other	N	0	0	0	0	0	0	0	0	0	0	0	0	
k. Other	N	0	0	0	0	0	0	0	0	0	0	0	0	
l. Less Contributions-in-Aid of Construction	N	0	0	0	0	0	0	0	0	0	0	0	0	
NET PLANT ADDITIONS		7,723,606	5,747,467	5,210,638	6,000,000	6,500,000	6,500,000	6,500,000	6,500,000	7,000,000	7,000,000	7,000,000	7,000,000	
<b>3. PRIORITY FINANCING REQUIREMENTS</b>														
SUBTOTAL PRIORITY PLANT ADDITIONS		5,473,530	5,504,911	4,791,048	5,500,000	6,000,000	6,000,000	6,000,000	6,000,000	6,500,000	6,500,000	6,500,000	6,500,000	
REIMBURSEMENT OF GENERAL FUNDS		0	0	0	0	0	0	0	0	0	0	0	0	
EXISTING PRIORITY LOAN FUNDS		0	0	0	0	0	0	0	0	0	0	0	0	
(1) PRIOR RUS LOAN FUNDS APPLIED		0	0	0	0	0	0	0	0	0	0	0	0	
(2) PRIOR SUPPL. LOAN FUNDS APPLIED		0	0	0	0	0	0	0	0	0	0	0	0	
(3) PRIOR GUARANTEED FUNDS APPLIED		0	0	0	0	0	0	0	0	0	0	0	0	
GENERAL FUNDS INVESTED		0	0	0	0	0	0	0	0	0	0	0	0	
(1) GEN. FUNDS PLANT INVEST.		5,500,000	201,000	0	0	0	0	0	0	0	0	0	0	
(2) GEN. FUNDS AVAILABLE TO MEET GOAL		4,054,856	5,924,277	8,270,386	10,830,413	13,609,940	16,554,528	19,166,409	21,908,331	24,759,241	29,230,690			
(3) BORROW NEW LOAN FUNDS IN ANY YEAR?		N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
NEW PRIORITY FINANCING REQUIRED		0	5,799,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	
(1) RUS PORTION	Percentage	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
(2) SUPPL. PORTION	Amount	0	5,799,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	
(3) GUARANTEED PORTION	Percentage	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	Amount	0	0	0	0	0	0	0	0	0	0	0	0	
	Amount	0	0	0	0	0	0	0	0	0	0	0	0	
<b>4. NON-PRIORITY FINANCING REQUIRED</b>														
SUBTOTAL NON-PRIORITY PLANT ADDITIONS		2,249,976	242,556	419,590	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	
REIMBURSEMENT OF GENERAL FUNDS		0	0	0	0	0	0	0	0	0	0	0	0	
EXISTING NON-PRIORITY LOAN FUNDS		0	0	0	0	0	0	0	0	0	0	0	0	
(1) PRIOR SUPPL. LOAN FUNDS APPLIED		0	0	0	0	0	0	0	0	0	0	0	0	
(2) PRIOR GUARANTEED FUNDS APPLIED		0	0	0	0	0	0	0	0	0	0	0	0	
GENERAL FUNDS INVESTED		0	0	0	0	0	0	0	0	0	0	0	0	
NEW NON-PRIORITY FINANCING REQUIRED		500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	
(1) SUPPL. PORTION		0	0	0	0	0	0	0	0	0	0	0	0	
(2) GUARANTEED PORTION		0	0	0	0	0	0	0	0	0	0	0	0	
<b>5. PLANT INVESTMENT SUMMARY</b>														
a. TOTAL GENERAL FUNDS REQUIRED		6,000,000	701,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	
b. TOTAL RUS LOAN FUNDS REQUIRED		0	5,799,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	
c. TOTAL GUARANTEED FUNDS REQUIRED		0	0	0	0	0	0	0	0	0	0	0	0	
d. TOTAL OTHER FUNDS REQUIRED		6,000,000	6,500,000	6,500,000	6,500,000	6,500,000	6,500,000	6,500,000	6,500,000	7,000,000	7,000,000	7,000,000	7,000,000	
e. TOTAL FUNDING REQUIRED		6,000,000	6,500,000	6,500,000	6,500,000	6,500,000	6,500,000	6,500,000	6,500,000	7,000,000	7,000,000	7,000,000	7,000,000	





FINANCIAL FORECAST RUS FORM 325H2 - DETERMINATION OF DEBT & DEBT SERVICE - Existing RUS

1. Note No.	Date of Note	Original Amount	Amortization Period	Annual Interest Rate	Payments Per Year	Level Principal	Year Reprinted	FINANCIAL FORECAST													
								2005	2006	2007	2008	2009	2010	2011	2012	2013	2014				
1B350	Jul-95	\$2,634,000	35	5.75%	12	N	2006	Fixed or Variable Rate	F	5.75%	5.75%	5.75%	5.75%	5.75%	5.75%	5.75%	5.75%	5.75%	5.75%	5.75%	5.75%
								Effective Interest Rate	2,381,038	2,338,984	2,294,390	2,247,162	2,197,146	2,144,178	2,088,082	2,028,674	1,965,758	1,999,129	1,828,565		
								Balance - Beg of Year	135,815	133,329	130,686	127,907	124,954	121,827	118,515	115,008	111,293	107,360	103,615		
								Interest	42,109	44,595	47,227	50,016	52,989	56,096	59,408	62,915	66,630	70,564	74,785		
								Principal	177,923	177,923	177,923	177,923	177,923	177,923	177,923	177,923	177,923	177,923	177,923		
								Additional Prin Paid	0	0	0	0	0	0	0	0	0	0	0		
Balance - End of Year	2,338,984	2,294,390	2,247,162	2,197,146	2,144,178	2,088,082	2,028,674	1,965,758	1,999,129	1,828,565											
2. Note No.	Jul-95	\$2,634,000	35	5.37%	12	N	2006	Fixed or Variable Rate	F	5.37%	5.37%	5.37%	5.37%	5.37%	5.37%	5.37%	5.37%	5.37%	5.37%	5.37%	5.37%
								Effective Interest Rate	2,322,228	2,275,457	2,226,112	2,174,051	2,119,124	2,061,174	2,000,034	1,935,529	1,867,474	1,795,673			
								Balance - Beg of Year	126,004	123,584	120,989	118,273	115,408	112,384	109,195	105,830	102,279	98,533	94,581		
								Interest	44,331	46,771	49,345	52,061	54,927	57,950	61,140	64,505	68,055	71,801	75,732		
								Principal	170,335	170,335	170,335	170,335	170,335	170,335	170,335	170,335	170,335	170,335	170,335		
								Additional Prin Paid	0	0	0	0	0	0	0	0	0	0	0		
Balance - End of Year	2,322,228	2,275,457	2,226,112	2,174,051	2,119,124	2,061,174	2,000,034	1,935,529	1,867,474	1,795,673											
3. Note No.	Aug-97	\$3,040,758	35	2.12%	12	N	2006	Fixed or Variable Rate	V	1.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%
								Effective Interest Rate	2,708,657	2,629,082	2,568,323	2,505,425	2,440,289	2,372,837	2,302,985	2,230,650	2,155,741	2,078,168	1,997,837		
								Balance - Beg of Year	40,084	91,019	88,889	86,652	84,335	81,936	79,456	76,879	74,214	71,455	68,626		
								Interest	79,595	60,738	62,899	65,136	67,492	69,851	72,336	74,909	77,573	80,332	83,187		
								Principal	119,680	151,787	151,787	151,787	151,787	151,787	151,787	151,787	151,787	151,787	151,787		
								Additional Prin Paid	0	0	0	0	0	0	0	0	0	0	0		
Balance - End of Year	2,629,082	2,568,323	2,505,425	2,440,289	2,372,837	2,302,985	2,230,650	2,155,741	2,078,168	1,997,837											
4. Note No.	Aug-97	\$2,600,000	35	1.87%	12	N	2006	Fixed or Variable Rate	V	1.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%
								Effective Interest Rate	2,225,171	2,159,783	2,109,887	2,058,215	2,004,706	1,949,294	1,891,911	1,832,487	1,770,949	1,707,223	1,641,230		
								Balance - Beg of Year	32,929	74,797	73,022	71,185	69,281	67,311	65,270	63,156	60,967	58,701	56,375		
								Interest	65,388	49,897	51,671	53,509	55,412	57,383	59,424	61,538	63,726	65,993	68,326		
								Principal	98,317	124,684	124,694	124,694	124,694	124,694	124,694	124,694	124,694	124,694	124,694		
								Additional Prin Paid	0	0	0	0	0	0	0	0	0	0	0		
Balance - End of Year	2,159,783	2,109,887	2,058,215	2,004,706	1,949,294	1,891,911	1,832,487	1,770,949	1,707,223	1,641,230											
5. Note No.	Aug-97	\$360,000	35	1.62%	12	N	2006	Fixed or Variable Rate	V	1.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%
								Effective Interest Rate	310,665	301,536	294,570	287,356	279,885	272,149	264,137	255,841	247,249	238,552	229,139		
								Balance - Beg of Year	4,597	10,443	10,195	9,938	9,673	9,409	9,143	8,877	8,609	8,335	8,056		
								Interest	9,129	6,966	7,214	7,471	7,736	8,011	8,296	8,592	8,897	9,214	9,541		
								Principal	13,726	17,409	17,409	17,409	17,409	17,409	17,409	17,409	17,409	17,409	17,409		
								Additional Prin Paid	0	0	0	0	0	0	0	0	0	0	0		
Balance - End of Year	301,536	294,570	287,356	279,885	272,149	264,137	255,841	247,249	238,552	229,139											
6. Note No.	Aug-97	\$190,758	35	4.62%	12	N	2006	Fixed or Variable Rate	F	4.62%	4.62%	4.62%	4.62%	4.62%	4.62%	4.62%	4.62%	4.62%	4.62%	4.62%	4.62%
								Effective Interest Rate	172,838	169,678	166,369	162,904	159,276	155,476	151,497	147,330	142,967	138,397	133,612		
								Balance - Beg of Year	7,919	7,770	7,613	7,450	7,279	7,099	6,912	6,715	6,509	6,293	6,067		
								Interest	3,160	3,309	3,465	3,628	3,800	3,979	4,167	4,363	4,569	4,785	5,011		
								Principal	11,078	11,078	11,078	11,078	11,078	11,078	11,078	11,078	11,078	11,078	11,078		
								Additional Prin Paid	0	0	0	0	0	0	0	0	0	0	0		
Balance - End of Year	169,678	166,369	162,904	159,276	155,476	151,497	147,330	142,967	138,397	133,612											



Existing RUS Debt (Page 4)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
21. Note No.										
Date of Note	Jun-80									
Original Amount	\$0									
Amortization Period	35									
Annual Interest Rate	5.00%									
Payments Per Year	12									
Level Principal	N									
Year Repriced										
Fixed or Variable Rate	F									
Effective Interest Rate	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
Balance - Beg of Year	0	-	-	-	-	-	-	-	-	-
Interest	-	-	-	-	-	-	-	-	-	-
Principal	-	-	-	-	-	-	-	-	-	-
Annual Debt Service	-	-	-	-	-	-	-	-	-	-
Additional Prin Paid	0	0	0	0	0	0	0	0	0	0
Balance - End of Year	-	-	-	-	-	-	-	-	-	-
22. Note No.										
Date of Note	Jun-80									
Original Amount	\$0									
Amortization Period	35									
Annual Interest Rate	5.00%									
Payments Per Year	12									
Level Principal	N									
Year Repriced										
Fixed or Variable Rate	F									
Effective Interest Rate	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
Balance - Beg of Year	0	-	-	-	-	-	-	-	-	-
Interest	-	-	-	-	-	-	-	-	-	-
Principal	-	-	-	-	-	-	-	-	-	-
Annual Debt Service	-	-	-	-	-	-	-	-	-	-
Additional Prin Paid	0	0	0	0	0	0	0	0	0	0
Balance - End of Year	-	-	-	-	-	-	-	-	-	-
23. Note No.										
Date of Note	Jun-80									
Original Amount	\$0									
Amortization Period	35									
Annual Interest Rate	5.00%									
Payments Per Year	12									
Level Principal	N									
Year Repriced										
Fixed or Variable Rate	F									
Effective Interest Rate	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
Balance - Beg of Year	0	-	-	-	-	-	-	-	-	-
Interest	-	-	-	-	-	-	-	-	-	-
Principal	-	-	-	-	-	-	-	-	-	-
Annual Debt Service	-	-	-	-	-	-	-	-	-	-
Additional Prin Paid	0	0	0	0	0	0	0	0	0	0
Balance - End of Year	-	-	-	-	-	-	-	-	-	-
24. Note No.										
Date of Note	Jun-80									
Original Amount	\$0									
Amortization Period	35									
Annual Interest Rate	5.00%									
Payments Per Year	12									
Level Principal	N									
Year Repriced										
Fixed or Variable Rate	F									
Effective Interest Rate	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
Balance - Beg of Year	0	-	-	-	-	-	-	-	-	-
Interest	-	-	-	-	-	-	-	-	-	-
Principal	-	-	-	-	-	-	-	-	-	-
Annual Debt Service	-	-	-	-	-	-	-	-	-	-
Additional Prin Paid	0	0	0	0	0	0	0	0	0	0
Balance - End of Year	-	-	-	-	-	-	-	-	-	-
25. Note No.										
Date of Note	Jun-80									
Original Amount	\$0									
Amortization Period	35									
Annual Interest Rate	5.00%									
Payments Per Year	12									
Level Principal	N									
Year Repriced										
Fixed or Variable Rate	F									
Effective Interest Rate	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
Balance - Beg of Year	0	-	-	-	-	-	-	-	-	-
Interest	-	-	-	-	-	-	-	-	-	-
Principal	-	-	-	-	-	-	-	-	-	-
Annual Debt Service	-	-	-	-	-	-	-	-	-	-
Additional Prin Paid	0	0	0	0	0	0	0	0	0	0
Balance - End of Year	-	-	-	-	-	-	-	-	-	-
TOTAL DEBT FIGURES BALANCE - BEGINNING OF YEAR	20,575,407	20,045,843	19,576,994	19,087,877	18,577,583	18,045,162	17,489,621	16,909,919	16,304,966	15,673,623
ANNUAL INTEREST EXPENSE	889,094	1,076,753	1,056,485	1,035,308	1,013,182	990,061	965,900	940,649	914,259	888,675
ANNUAL PRINCIPAL PAYMENTS	529,563	468,849	489,118	510,294	532,420	555,541	579,702	604,953	631,343	658,927
ANNUAL DEBT SERVICE	1,418,658	1,545,602	1,545,602	1,545,602	1,545,602	1,545,602	1,545,602	1,545,602	1,545,602	1,545,602
ADDITIONAL PRINCIPAL PAID	-	-	-	-	-	-	-	-	-	-
BALANCE - END OF YEAR	20,045,843	19,576,994	19,087,877	18,577,583	18,045,162	17,489,621	16,909,919	16,304,966	15,673,623	15,014,695









Existing Other Debt (Page 3)

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
14. Note No.	42067										
Date of Note	Dec-95										
Original Amount	\$1,000,000	7.35%	7.35%	7.35%	7.35%	7.35%	7.35%	7.35%	7.35%	7.35%	7.35%
Amortization Period	33	931,315	916,578	900,720	883,656	865,295	845,538	824,279	801,404	776,790	750,304
Annual Interest Rate	7.35%	67,962	66,841	65,664	64,338	62,942	61,440	59,824	58,085	56,214	54,200
Payments Per Year	12	14,738	15,388	17,064	18,361	19,757	21,259	22,875	24,611	26,466	28,499
Level Principal	N	82,699	82,699	82,699	82,699	82,699	82,699	82,699	82,699	82,699	82,699
Year Repriced		0	0	0	0	0	0	0	0	0	0
		916,578	900,720	883,656	865,295	845,538	824,279	801,404	776,790	750,304	721,805
15. Note No.	42054										
Date of Note	Dec-95										
Original Amount	\$657,000	4.15%	4.15%	4.15%	4.15%	4.15%	4.15%	4.15%	4.15%	4.15%	4.15%
Amortization Period	33	611,875	596,676	580,833	564,321	547,110	532,503	516,995	500,531	483,052	464,494
Annual Interest Rate	4.15%	25,106	24,463	23,793	23,094	22,369	21,617	20,838	20,032	19,200	18,343
Payments Per Year	12	15,199	15,842	16,513	17,211	17,944	18,707	19,500	20,324	21,178	22,062
Level Principal	N	40,305	40,305	40,305	40,305	40,305	40,305	40,305	40,305	40,305	40,305
Year Repriced		0	0	0	0	0	0	0	0	0	0
		596,676	580,833	564,321	547,110	532,503	516,995	500,531	483,052	464,494	444,792
16. Note No.	4959										
Date of Note	Mar-99										
Original Amount	\$2,506,364	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
Amortization Period	33	2,502,487	2,458,260	2,411,771	2,362,903	2,311,535	2,257,539	2,200,780	2,141,117	2,078,402	2,012,479
Annual Interest Rate	5.00%	124,120	121,857	119,479	116,979	114,350	111,588	108,684	105,632	102,423	99,050
Payments Per Year	12	44,227	46,489	48,868	51,368	53,996	56,759	59,663	62,715	65,924	69,296
Level Principal	N	168,347	168,347	168,347	168,347	168,347	168,347	168,347	168,347	168,347	168,347
Year Repriced		0	0	0	0	0	0	0	0	0	0
		2,458,260	2,411,771	2,362,903	2,311,535	2,257,539	2,200,780	2,141,117	2,078,402	2,012,479	1,949,182
17. Note No.	73493										
Date of Note	Aug-03										
Original Amount	\$5,201,000	6.03%	6.03%	6.03%	6.03%	6.03%	6.03%	6.03%	6.03%	6.03%	6.03%
Amortization Period	33	5,201,000	5,144,606	5,084,715	5,021,112	4,953,566	4,881,832	4,805,651	4,724,747	4,638,828	4,547,582
Annual Interest Rate	6.03%	312,079	308,582	304,870	300,927	296,739	292,292	287,569	282,553	277,227	271,570
Payments Per Year	12	56,394	59,890	63,603	67,546	71,794	76,181	80,904	85,919	91,246	96,903
Level Principal	N	368,473	368,473	368,473	368,473	368,473	368,473	368,473	368,473	368,473	368,473
Year Repriced		0	0	0	0	0	0	0	0	0	0
		5,144,606	5,084,715	5,021,112	4,953,566	4,881,832	4,805,651	4,724,747	4,638,828	4,547,582	4,450,679
18. Note No.	71187										
Date of Note	Mar-02										
Original Amount	\$1,728,120	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
Amortization Period	33	1,710,149	1,685,320	1,659,220	1,631,785	1,602,946	1,572,632	1,540,767	1,507,272	1,472,063	1,435,052
Annual Interest Rate	5.00%	84,944	83,673	82,338	80,934	79,459	77,908	76,278	74,564	72,763	70,869
Payments Per Year	12	24,829	26,100	27,435	28,839	30,314	31,865	33,495	35,209	37,010	38,904
Level Principal	N	109,773	109,773	109,773	109,773	109,773	109,773	109,773	109,773	109,773	109,773
Year Repriced		0	0	0	0	0	0	0	0	0	0
		1,685,320	1,659,220	1,631,785	1,602,946	1,572,632	1,540,767	1,507,272	1,472,063	1,435,052	1,396,149
19. Note No.	BGM										
Date of Note	Oct-96										
Original Amount	\$300,000	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Amortization Period	10	58,333	26,515	-	-	-	-	-	-	-	-
Annual Interest Rate	0.00%	31,818	26,515	-	-	-	-	-	-	-	-
Payments Per Year	12	31,818	26,515	-	-	-	-	-	-	-	-
Level Principal	N	0	0	0	0	0	0	0	0	0	0
Year Repriced	2006	26,515	-	-	-	-	-	-	-	-	-
20. Note No.	VCS										
Date of Note	Oct-00										
Original Amount	\$300,000	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Amortization Period	10	186,111	154,206	122,302	90,397	58,492	26,587	-	-	-	-
Annual Interest Rate	0.00%	31,905	31,905	31,905	31,905	31,905	31,905	26,587	-	-	-
Payments Per Year	12	31,905	31,905	31,905	31,905	31,905	31,905	26,587	-	-	-
Level Principal	N	0	0	0	0	0	0	0	0	0	0
Year Repriced	2007	154,206	122,302	90,397	58,492	26,587	-	-	-	-	-



Existing Other Debt (Page 4)

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
21. Note No.	SYN										
Date of Note	Apr-04										
Original Amount	\$400,000	400,000	357,143	314,286	271,429	228,571	185,714	142,857	100,000	57,143	14,286
Amortization Period	10										
Annual Interest Rate	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Payments Per Year	12	42,857	42,857	42,857	42,857	42,857	42,857	42,857	42,857	42,857	14,286
Level Principal	N	0	0	0	0	0	0	0	0	0	0
Year Reprinted	2008	357,143	314,286	271,429	228,571	185,714	142,857	100,000	57,143	14,286	0
22. Note No.	CC										
Date of Note	Apr-94										
Original Amount	\$400,000										
Amortization Period	10										
Annual Interest Rate	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Payments Per Year	12	7,407	7,407	7,407	7,407	7,407	7,407	7,407	7,407	7,407	7,407
Level Principal	N	0	0	0	0	0	0	0	0	0	0
Year Reprinted	2014	0	0	0	0	0	0	0	0	0	0
23. Note No.											
Date of Note	Dec-01										
Original Amount											
Amortization Period	10										
Annual Interest Rate	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Payments Per Year	4	0	0	0	0	0	0	0	0	0	0
Level Principal	N	0	0	0	0	0	0	0	0	0	0
Year Reprinted	2012	0	0	0	0	0	0	0	0	0	0
24. Note No.											
Date of Note	Dec-00										
Original Amount											
Amortization Period	5										
Annual Interest Rate	2.80%	2.80%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%
Payments Per Year	4	0	0	0	0	0	0	0	0	0	0
Level Principal	N	0	0	0	0	0	0	0	0	0	0
Year Reprinted	2006	0	0	0	0	0	0	0	0	0	0
25. Note No.											
Date of Note	Jun-80										
Original Amount	\$0										
Amortization Period	35										
Annual Interest Rate	2.80%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%
Payments Per Year	4	0	0	0	0	0	0	0	0	0	0
Level Principal	N	0	0	0	0	0	0	0	0	0	0
Year Reprinted	2005	0	0	0	0	0	0	0	0	0	0
TOTAL DEBT FIGURES											
BALANCE - BEGINNING OF YEAR		16,849,537	16,394,417	15,992,408	15,476,096	14,997,670	14,512,781	14,009,556	13,504,403	12,968,798	12,400,664
ANNUAL INTEREST EXPENSE		912,724	893,125	872,308	850,193	874,770	855,654	827,139	796,686	764,158	729,408
ANNUAL PRINCIPAL PAYMENTS		455,120	462,010	456,311	478,427	484,889	503,225	505,152	535,605	568,134	574,313
ADDITIONAL DEBT SERVICE		1,367,844	1,355,135	1,328,620	1,328,620	1,359,659	1,358,879	1,332,292	1,332,292	1,332,292	1,303,720
BALANCE - END OF YEAR		16,394,417	15,992,408	15,476,096	14,997,670	14,512,781	14,009,556	13,504,403	12,968,798	12,400,664	11,826,352



New RUS Debt (Page 2)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>New RUS Note #6</b>										
Date of Note	7/1/2010									
Original Amount	\$ 6,000,000									
Amortization Period	35									
Annual Interest Rate	5.00%									
Payments Per Year	12									
Principal Deferral	Y									
Level Principal	N									
Year Repriced	0									
Effective Interest Rate						5.00%	5.00%	5.00%	5.00%	5.00%
Balance - Beg of Year						6,000,000	6,000,000	6,000,000	5,984,916	5,889,774
Interest						150,000	300,000	299,636	296,636	292,695
Principal						-	-	35,084	75,142	78,987
Annual Debt Service						150,000	300,000	334,720	371,682	371,682
Additional Prin Paid						0	0	0	0	0
Balance - End of Year						6,000,000	6,000,000	5,984,916	5,889,774	5,810,787

<b>New RUS Note #7</b>										
Date of Note	7/1/2011									
Original Amount	\$ 6,000,000									
Amortization Period	35									
Annual Interest Rate	5.00%									
Payments Per Year	12									
Principal Deferral	Y									
Level Principal	N									
Year Repriced	0									
Effective Interest Rate							5.00%	5.00%	5.00%	5.00%
Balance - Beg of Year							6,000,000	6,000,000	6,000,000	5,964,916
Interest							150,000	300,000	299,636	296,636
Principal							-	-	35,084	75,142
Annual Debt Service							150,000	300,000	334,720	371,682
Additional Prin Paid							0	0	0	0
Balance - End of Year							6,000,000	6,000,000	5,964,916	5,889,774

<b>New RUS Note #8</b>										
Date of Note	7/1/2012									
Original Amount	\$ 6,000,000									
Amortization Period	35									
Annual Interest Rate	5.00%									
Payments Per Year	12									
Principal Deferral	Y									
Level Principal	N									
Year Repriced	0									
Effective Interest Rate								5.00%	5.00%	5.00%
Balance - Beg of Year								6,000,000	6,000,000	6,000,000
Interest								150,000	300,000	299,636
Principal								-	-	35,084
Annual Debt Service								150,000	300,000	334,720
Additional Prin Paid								0	0	0
Balance - End of Year								6,000,000	6,000,000	5,964,916

<b>New RUS Note #9</b>										
Date of Note	7/1/2013									
Original Amount	\$ 6,000,000									
Amortization Period	35									
Annual Interest Rate	5.00%									
Payments Per Year	12									
Principal Deferral	Y									
Level Principal	N									
Year Repriced	0									
Effective Interest Rate									5.00%	5.00%
Balance - Beg of Year									6,000,000	6,000,000
Interest									150,000	300,000
Principal									-	-
Annual Debt Service									150,000	300,000
Additional Prin Paid									0	0
Balance - End of Year									6,000,000	6,000,000

<b>New RUS Note #10</b>										
Date of Note	7/1/2014									
Original Amount	\$ 6,000,000									
Amortization Period	35									
Annual Interest Rate	5.00%									
Payments Per Year	12									
Principal Deferral	Y									
Level Principal	N									
Year Repriced	0									
Effective Interest Rate										5.00%
Balance - Beg of Year										6,000,000
Interest										150,000
Principal										-
Annual Debt Service										150,000
Additional Prin Paid										0
Balance - End of Year										6,000,000

**NEW DEBT & DEBT SERVICE - RUS**

a. DEBT FIRST OF YEAR	-	-	-	-	-	-	-	-	-	-
b. LOAN FUNDS ADVANCED	-	5,799,000	6,000,000	11,799,000	6,000,000	17,765,091	23,657,382	29,470,815	35,201,355	40,844,782
c. INTEREST	-	144,975	439,950	739,998	1,036,242	1,449,951	1,887,314	2,289,996	2,690,678	3,002,360
d. PRINCIPAL PAYMENTS	-	-	-	-	-	-	-	-	-	-
e. DEBT PAYMENTS	-	144,975	439,950	773,507	1,149,951	1,515,632	1,887,314	2,289,996	2,690,678	3,002,360
f. ADDITIONAL PRINCIPAL PAID	-	-	-	-	-	-	-	-	-	-
g. DEBT END OF YEAR	-	5,799,000	11,799,000	17,765,091	23,657,382	29,470,815	35,201,355	40,844,782	46,396,576	51,852,114

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>1. DEBT &amp; DEBT SERVICE - 2% &amp; 5% LOANS</b>										
a. DEBT FIRST OF YEAR	0	0	0	0	0	0	0	0	0	0
b. LOAN FUNDS ADVANCED	0	0	0	0	0	0	0	0	0	0
c. INTEREST	0	0	0	0	0	0	0	0	0	0
d. DEBT PAYMENTS	0	0	0	0	0	0	0	0	0	0
e. ADDITIONAL PRINCIPAL PAID	0	0	0	0	0	0	0	0	0	0
f. DEBT END OF YEAR	0	0	0	0	0	0	0	0	0	0
<b>2. DEBT &amp; DEBT SERVICE - OLD RUS</b>										
a. DEBT FIRST OF YEAR	20,575,407	20,045,843	19,676,994	19,087,877	18,577,583	18,045,162	17,489,621	16,909,919	16,304,966	15,673,623
b. LOAN FUNDS ADVANCED	0	0	0	0	0	0	0	0	0	0
c. INTEREST	889,004	1,076,753	1,056,485	1,035,808	1,013,182	990,061	965,900	940,649	914,259	886,675
d. DEBT PAYMENTS	1,418,659	1,545,602	1,545,602	1,545,602	1,545,602	1,545,602	1,545,602	1,545,602	1,545,602	1,545,602
e. ADDITIONAL PRINCIPAL PAID	0	0	0	0	0	0	0	0	0	0
f. DEBT END OF YEAR	20,045,843	19,576,994	19,087,877	18,577,583	18,045,162	17,489,621	16,909,919	16,304,966	15,673,623	15,014,695
<b>3. DEBT &amp; DEBT SERVICE - NEW DEBT - RUS</b>										
a. DEBT FIRST OF YEAR	0	0	5,799,000	11,799,000	17,765,091	23,657,382	29,470,815	35,201,355	40,844,762	46,396,576
b. LOAN FUNDS ADVANCED	0	5,799,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000
c. INTEREST	0	144,875	439,950	739,598	1,036,242	1,329,065	1,617,854	1,902,403	2,182,493	2,457,897
d. DEBT PAYMENTS	0	144,975	439,950	773,507	1,143,951	1,515,632	1,887,314	2,258,996	2,630,678	3,002,360
e. ADDITIONAL PRINCIPAL PAID	0	0	0	0	0	0	0	0	0	0
f. DEBT END OF YEAR	0	5,799,000	11,799,000	17,765,091	23,657,382	29,470,815	35,201,355	40,844,762	46,396,576	51,852,114
<b>4. DEBT &amp; DEBT SERVICE - OLD DEBT - GUARANTEED</b>										
a. DEBT FIRST OF YEAR	12,997,969	11,553,750	10,109,532	8,665,313	7,221,094	5,776,875	4,332,656	2,888,438	1,444,219	0
b. LOAN FUNDS ADVANCED	0	0	0	0	0	0	0	0	0	0
c. INTEREST	512,853	502,829	455,892	402,215	341,317	274,402	203,876	129,980	52,955	0
d. DEBT PAYMENTS	1,957,072	1,947,048	1,900,111	1,846,434	1,795,536	1,718,620	1,648,094	1,574,198	1,497,173	0
e. ADDITIONAL PRINCIPAL PAID	0	0	0	0	0	0	0	0	0	0
f. DEBT END OF YEAR	11,553,750	10,109,532	8,665,313	7,221,094	5,776,875	4,332,656	2,888,438	1,444,219	0	0
<b>5. DEBT &amp; DEBT SERVICE - NEW DEBT - GUARANTEED</b>										
a. DEBT FIRST OF YEAR	0	0	0	0	0	0	0	0	0	0
b. LOAN FUNDS ADVANCED	0	0	0	0	0	0	0	0	0	0
c. INTEREST	0	0	0	0	0	0	0	0	0	0
d. DEBT PAYMENTS	0	0	0	0	0	0	0	0	0	0
e. ADDITIONAL PRINCIPAL PAID	0	0	0	0	0	0	0	0	0	0
f. DEBT END OF YEAR	0	0	0	0	0	0	0	0	0	0
<b>6. DEBT &amp; DEBT SERVICE - OLD DEBT - OTHER</b>										
a. DEBT FIRST OF YEAR	16,849,537	16,394,417	15,932,408	15,476,096	14,997,670	14,512,781	14,009,556	13,504,403	12,968,798	12,400,664
b. LOAN FUNDS ADVANCED	0	0	0	0	0	0	0	0	0	0
c. INTEREST	912,724	893,125	872,308	850,193	824,770	855,654	827,139	796,686	764,158	729,408
d. DEBT PAYMENTS	1,367,844	1,355,135	1,328,620	1,328,620	1,359,659	1,358,879	1,332,292	1,332,292	1,332,292	1,303,720
e. ADDITIONAL PRINCIPAL PAID	0	0	0	0	0	0	0	0	0	0
f. DEBT END OF YEAR	16,394,417	15,932,408	15,476,096	14,997,670	14,512,781	14,009,556	13,504,403	12,968,798	12,400,664	11,826,352
<b>7. DEBT &amp; DEBT SERVICE - NEW DEBT - OTHER</b>										
a. DEBT FIRST OF YEAR	0	0	0	0	0	0	0	0	0	0
b. LOAN FUNDS ADVANCED	0	0	0	0	0	0	0	0	0	0
c. INTEREST	0	0	0	0	0	0	0	0	0	0
d. DEBT PAYMENTS	0	0	0	0	0	0	0	0	0	0
e. ADDITIONAL PRINCIPAL PAID	0	0	0	0	0	0	0	0	0	0
f. DEBT END OF YEAR	0	0	0	0	0	0	0	0	0	0
<b>8. SUMMARY</b>										
a. DEBT FIRST OF YEAR	50,422,914	47,994,011	51,417,933	55,028,286	58,561,438	61,992,201	65,302,648	68,504,115	71,562,745	74,470,863
b. LOAN FUNDS ADVANCED	0	5,799,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000
c. INTEREST	2,314,672	2,617,682	2,824,635	3,027,315	3,265,510	3,449,181	3,614,769	3,769,718	3,913,864	4,073,979
d. DEBT PAYMENTS	4,743,574	4,992,759	5,214,282	5,494,163	5,834,748	6,138,794	6,413,302	6,711,088	7,005,745	7,290,892
e. ADDITIONAL PRINCIPAL PAID	0	0	0	0	0	0	0	0	0	0
f. DEBT END OF YEAR	47,994,011	51,417,933	55,028,286	58,561,438	61,992,201	65,302,648	68,504,115	71,562,745	74,470,863	78,693,161

FINANCIAL FORECAST RUS FORM 325K - DETERMINATION OF OPERATING EXPENSES

	PREVIOUS YEARS					FUTURE YEARS								
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	
1. a. TOTAL KWH REQUIREMENTS	840,031,599	859,868,666	903,274,223	961,399,368	1,026,171,760	1,075,622,972	1,112,190,727	1,147,581,665	1,194,575,342	1,232,523,709	1,272,312,961	1,313,932,561	1,355,687,039	
b. BASE COST PER KWH PURCHASED (PRES. RA	0.03813	0.03980	0.04346	0.04785	0.05022	0.05070	0.04761	0.04839	0.05092	0.05201	0.05197	0.05443	0.05511	
c. FLOW THROUGH ADJ./KWH WHOLESALE	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
d. TOTAL COST PER KWH PURCHASED	0.03813	0.03980	0.04346	0.04785	0.05022	0.05070	0.04761	0.04839	0.05092	0.05201	0.05197	0.05443	0.05511	
e. COST OF POWER	32,033,861	34,225,783	39,252,829	46,002,960	51,534,346	54,544,225	52,951,401	55,531,477	60,827,776	64,103,558	66,122,105	71,517,349	75,263,013	
2. a. OPERATION & MAINT. EXPENSE	3,112,892	3,806,468	4,285,027	3,734,133	3,846,167	3,961,542	4,080,388	4,202,800	4,328,884	4,458,750	4,592,513	4,730,288	4,872,197	
b. RATIO TO TOTAL UTILITY PLANT	3.699	4.272	4.591	3.798	3.704	3.624	3.554	3.495	3.444	3.389	3.341	3.301	3.267	
3. a. ADMIN. GENERAL & OTHER DEDUCT.	2,054,221	2,159,629	2,424,086	2,246,538	2,313,934	2,393,382	2,454,853	2,528,468	2,604,353	2,682,484	2,762,958	2,845,847	2,931,223	
b. RATIO TO TOTAL UTILITY PLANT	2.441	2.424	2.597	2.285	2.229	2.180	2.138	2.103	2.072	2.039	2.010	1.986	1.966	
4. a. DEPREC. & AMORTIZATION EXPENSE	3,678,060	3,917,624	4,192,622	4,379,400	4,510,782	4,646,105	4,785,489	4,929,053	5,076,925	5,223,233	5,386,110	5,547,693	5,714,124	
b. RATIO TO TOTAL UTILITY PLANT	4.371	4.397	4.428	4.454	4.345	4.250	4.168	4.099	4.040	3.974	3.919	3.871	3.832	
5. a. TAX EXPENSE	54,293	55,937	55,735	58,000	59,740	61,592	63,378	65,280	67,238	69,255	71,333	73,473	75,677	
b. RATIO TO TOTAL UTILITY PLANT	0.065	0.063	0.060	0.059	0.058	0.056	0.055	0.054	0.054	0.054	0.053	0.051	0.051	
6. TOTAL UTILITY PLANT	84,146,930	89,039,103	93,327,214	98,327,214	103,827,214	109,327,214	114,802,214	120,252,214	125,677,214	131,577,214	137,452,214	143,802,214	149,127,214	
7. a. CONSUMER ACCT. & SALES EXPENSE	1,675,910	1,662,096	2,125,184	2,228,713	2,295,574	2,364,442	2,435,375	2,508,436	2,583,689	2,661,200	2,741,036	2,823,267	2,907,965	
b. COST PER CONSUMER SERVED	43,447	49,205	51,261	52,197	51,910	51,894	51,787	51,898	51,632	51,591	51,572	51,572	51,588	
c. AVERAGE NUMBER OF CONSUMERS SERVED	38,574	39,876	41,458	42,698	44,222	45,563	47,027	48,521	50,040	51,593	53,150	54,744	56,369	

Exhibit 6  
Page 1 of 1

Based on the financial forecast prepared in conjunction with its construction work plan, Salt River estimates the cost of operation at \$14,961,455, by subtracting the cost of power (46,002,960) from the total cost of electric service (60,964,415). This information is contained in Item 5, page 2 of 20, at line 1b-cost of power and line 1j-total cost of electric service.



# SALT RIVER ELECTRIC

111 West Brashear Avenue • Bardstown, Kentucky 40004  
(502) 348-3931 • (502) 955-9732 • Fax (502) 348-1993

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COMMISSION

## RESOLUTION

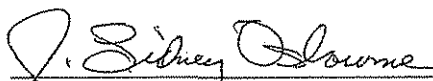
WHEREAS, a Construction Work Plan for 2005-2008 in the amount of \$17,798,865 has been prepared by the Staff of Salt River Electric Cooperative Corporation.

NOW THEREFORE, BE IT RESOLVED, that the Board of Directors adopt the 2005-2008 Construction Work Plan as a course of action to be followed, or until amended with the approval of RUS.

---

## CERTIFICATION

I, SIDNEY OSBOURNE, Secretary of Salt River Electric Cooperative Corporation Board of Directors, do hereby certify that the above is a true and correct excerpt from the minutes of the meeting of the Board of Directors of Salt River Electric Cooperative Corporation, held on April 14, 2005, at which meeting a quorum was present.



SIDNEY OSBOURNE, Secretary

SEAL

2005-2008

CONSTRUCTION WORK PLAN

FOR

SALT RIVER ELECTRIC COOPERATIVE CORPORATION

KENTUCKY 21 - NELSON  
BARDSTOWN, KENTUCKY

Prepared by:

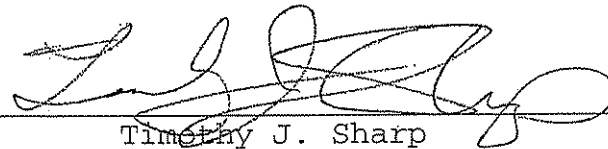
SALT RIVER ENGINEERING DEPARTMENT  
Bardstown, Kentucky

March 2005

I hereby certify that this 2005-2008 Construction Work Plan was prepared by me or under my direct supervision and that I am a duly registered professional engineer under the laws of the State of Kentucky. Registration No. 20741

3/31/05  
(Date)

By:

  
Timothy J. Sharp

SEAL



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### I. EXECUTIVE SUMMARY

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  - 1. Analysis of 1997 LRP
  - 2. Analysis of 2002 O & M Survey
  - 3. Sectionalizing
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  - 2. 2004 PRS
  - 3. System Outages and Reliability
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- A. Operations and Maintenance (O&M Survey)
- B. Maximum KW Demand
- C. Milsoft Computer Analysis
- D. System Map with Proposed Construction Items

## **PURPOSE OF REPORT**

This report documents the 2005 engineering analysis and summarizes the proposed construction for Salt River Electric Cooperative Corporation's (Salt River) electric distribution system for the three-year planning period of 2005 thru mid 2008.

The report also provides engineering support, in the form of descriptions, costs, and justification of required new facilities, for a loan application to finance the proposed construction program.

## **RESULTS OF PROPOSED CONSTRUCTION**

Upon completion of construction of the facilities proposed herein, the system will provide adequate and dependable service to 48596 total residential, farm, small commercial, and large industrial consumers. The residential/farm consumers will have an average of 1305 KWH per consumer per month. The 9 large power and special loads are provided for on an individual basis. It is estimated there will be 3200 idle services.

## **GENERAL BASIS OF STUDY**

The 2008 projected number of consumers and total peak system load were from the cooperative's 2004 Power Requirements Study (PRS) as approved by RUS. This report was prepared by Salt River.

The construction recommended herein is in accordance with the LRP which was completed in 1997. This includes the proposed construction of one new substation (Little Mount) at Little Mount by East Kentucky Power Cooperative. Salt River's April 2002 Operations and Maintenance review, (Review Rating Summary; REA Form 300), was used to determine construction required to replace physically deteriorated equipment and material, upgrade portions of the system to conform with code or safety requirements, and/or improve reliability or quality of service.

New distribution, transmission and power supply construction requirements were considered simultaneously as a "one system" approach for the orderly and economical development of the total system. All of the proposed construction and recommendations herein, relative to power supply and delivery, were discussed with the cooperative's power supplier, East Kentucky Power Cooperative (EKPC).

A complete list of the lines and equipment and their estimated cost, (all based on recent historical data) required to serve an additional 7138 members. Salt River has also included a similar list and cost of necessary service upgrades to existing members is also included.

An analysis, using as a basis RUS guidelines and the design criteria herein, of thermal loading, voltages, physical conditions and reliability was performed on all of the substations, distribution lines and major equipment of the existing system. Milsoft Distribution Analysis was used to analyze the distribution circuits during the winter peak of January 2004. This peak of 211 MW occurred in January 2004. Beulah Beam, Brooks, Gospel Hill, Mt. Washington, Pleasant Grove, Shepherdsville #1 and #2 and West Mt. Washington were analyzed with the July 2003 summer peak because these substations peak in the summer. This model more accurately reflects actual field conditions. For each deficiency that was determined, alternate solutions were investigated and economically evaluated, so that the most cost effective construction, if required, could be proposed. This analysis was performed using data from 2004 PRS (normal weather projections).

### **DESCRIPTION OF SERVICE AREA**

Salt River Electric Cooperative Corporation (Salt River) is located in Central Kentucky just south of Louisville, Ky. The location and proximity of it's service territory to Louisville make it's service area a haven for city workers wishing to reside away from the congestion of the Louisville/Jefferson County area. In addition the lower tax rates and highly regarded school systems of Bullitt, Nelson and Spencer Counties lure new customers.

The cooperative serves major portions of Nelson, Spencer, Bullitt, Washington and parts of Larue, Jefferson, Shelby, Mercer, Anderson and Marion Counties. The headquarters is located in Bardstown (Nelson County) with branch offices in Shepherdsville (Bullitt County), Springfield (Washington County) and Taylorsville (Spencer County).

Washington and Spencer counties served by Salt River are rural with a high percentage of people relying on agricultural enterprises, manufacturing and government services for income. Agricultural products include tobacco, dairy, corn and swine. Tobacco and dairies are the prime sources of farm income. A number of commercial and industrial areas are within the service territory with a diversity of product lines. Moderate growth is projected for new commercial, small manufacturing and residential consumers throughout most of Salt River's system. Nine (9) medium sized (between 1 to 10 MW Demand) industries are currently being served with good potential for future growth existing in Bullitt County and commercial parks surrounding the cities of Bardstown and Springfield.

### KEY SYSTEM OPERATING DATA

The following data is from SALT RIVER'S Year end RUS Form 7

DECEMBER 2003:

Number of consumers (year end total) .....	40,611
MWH Purchased .....	859,869
MWH Sold .....	814,956
Maximum KW Demand .....	199,906
Total Utility Plant .....	\$89,099,103
Consumers/Mile .....	12.18

DECEMBER 2004:

Number of consumers (year end total) .....	42,235
MWH Purchased .....	903,274
MWH Sold .....	859,200
Maximum KW Demand .....	205,447
Total Utility Plant .....	\$93,327,214
Consumers/Mile .....	12.45

The cooperative has distribution circuits totaling 3649 miles. All circuits are operated at 7.2/12.47 Kilovolts (KV), grounded Wye. Installed overhead conductor sizes range from 8A to 795 spacer cable. With the majority of the three phase overhead line conductor being 1/0 Copper and single phase overhead lines being 6A cwc. All new three phase lines are built of 1/0 or 336.4 MCM ACSR depending upon the economic conductor selection guide of Salt River. All new single phase line are built of #2 and 1/0 ACSR conductor. All new underground primary construction is 220 mil 1/0 or 4/0 stranded aluminum conductor which is installed entirely within underground duct systems.

## **POWER SUPPLY**

East Kentucky Power Cooperative (EKPC) provides all power and energy needs to Salt River, plus 15 other distribution cooperatives. A map of EKPC's service area is located in the back of this report. EKPC is an RUS financed G&T cooperative with offices in Winchester, KY.

EKPC constructs, owns, operates, and maintains all Twenty-six of the distribution substations. EKPC also constructs and maintains the 69, 161 and 345 KV transmission lines which supply Salt River's distribution system. The northern district of the territory is served off of the 33 or 69 KV system of Louisville Gas and Electric which wheels power from EKP to Salt River. All power transactions are handled by EKP's Load Dispatch Department.

East Kentucky Power will construct a 10 MW substation (Little Mount) between the Taylorsville and Little Mount communities in Spencer County by December 2005. This substation will relieve loading on Taylorsville and Darwin Thomas substations.

A study is ongoing to determine the feasibility of adding a new East Bardstown substation instead of increasing the size of the existing East Bardstown substation. There is not enough room to expand the existing station and Salt River Electric proposes to relocate this substation to an industrial park under development approximately one mile from existing East Bardstown substation.

A study is ongoing to determine the feasibility of adding a new Cedar Grove Industrial Park substation. This substation would serve this industrial park which will have 13.5 MW by the end of 2005 and potential growth in the near future as this area expands.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0572-0032. The time required to complete this information collection is estimated to average 10 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

This data will be used by RUS to review your financial situation. Your response is required (7 USC 801 et seq.) and is not confidential.

USDA-RUS  <b>COST ESTIMATES AND LOAN BUDGET</b>  FOR ELECTRIC BORROWERS  To: U.S. Dept. of Agriculture, RUS, Washington, D. C. 20250		Form Approved OMB No. 0572-0032																																																					
<b>INSTRUCTIONS</b> <i>See tabs "Pg1 Instr" through "Pg4 Instr"</i>		BORROWER AND LOAN DESIGNATION KY 21 NELSON																																																					
SECTION A. COST ESTIMATES		COST ESTIMATES AS OF: (Month, Year) Feb-05																																																					
SECTION A. COST ESTIMATES		LOAN PERIOD <u>  3  </u> YEARS																																																					
1. DISTRIBUTION 100 a. New Line: (Excluding Tie-Lines)		BORROWER'S COST ESTIMATES	RUS USE ONLY																																																				
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COST ESTIMATE AND LOAN BUDGET FOR ELECTRIC BORROWERS		BORROWER AND LOAN DESIGNATION	KY 21 NELSON
SECTION A. COST ESTIMATES (Page 1 Continuation Sheet)		BORROWER'S COST ESTIMATES	RUS USE ONLY
200 b. New Tie-Lines (Continued)			
	Line Designation	Miles	
207		0.00	\$0
208		0.00	0
209		0.00	0
210		0.00	0
211		0.00	0
212		0.00	0
213		0.00	0
214		0.00	0
215		0.00	0
216		0.00	0
	Miles .....	0.00	
	Subtotal (transfers to page 1) .....		\$0
300 c. Conversion and Line Changes (Continued)			
	Line Designation	Miles	
311	Joe Tichenor Substation to Cox's Creek Elementary School	0.64	\$46,720
312	Plum Ridge Road	1.79	98,450
313	Maud Hill to Campground Church Road	3.13	228,490
314	Hardesty Road	0.93	51,150
315	Cane Run Road to Borders Road	2.59	189,070
316	Burba Road	2.40	105,600
317	Tatum Ridge Road	4.10	180,400
318	Bennetts Lane	1.00	44,000
319	Mt Elmira Road	2.50	110,000
320	Lutheran Church Road	1.10	48,400
321	Jim Clark Road	2.30	101,200
322		0.00	0
323		0.00	0
324		0.00	0
325		0.00	0
326		0.00	0
327		0.00	0
328		0.00	0
329		0.00	0
330		0.00	0
331		0.00	0
332		0.00	0
333		0.00	0
334		0.00	0
335		0.00	0
336		0.00	0
337		0.00	0
338		0.00	0
339		0.00	0
340		0.00	0
341		0.00	0
342		0.00	0
343		0.00	0
344		0.00	0
345		0.00	0
346		0.00	0
347		0.00	0
348		0.00	0
349		0.00	0
350		0.00	0
351		0.00	0
352		0.00	0
353		0.00	0
354		0.00	0
	Subtotal (transfers to page 1) .....	Mi 22.48	\$1,203,480





SECTION A. COST ESTIMATES (cont.)	BORROWER'S COST ESTIMATES	RUS USE ONLY
<b>900 b. New Substation, Switching Station, etc.</b>		
<u>Station Designation</u>	<u>kVA</u>	<u>kV TO kV</u>
901 _____	\$0	
902 _____	0	
903 _____	0	
904 _____	0	
905 _____	0	
906 _____	0	
907 _____	0	
908 _____	0	
<i>Subtotal From Page 3A</i> .....	0	
<i>Subtotal</i> .....	\$0	
<b>1000 c. Line and Station Changes</b>		
<u>Line/Station Designation</u>	<u>Description of Changes</u>	
1001 _____	\$0	
1002 _____	0	
1003 _____	0	
1004 _____	0	
1005 _____	0	
1006 _____	0	
1007 _____	0	
1008 _____	0	
1009 _____	0	
<i>Subtotal From page 3A through 3C</i> .....	0	
<i>Subtotal</i> .....	\$0	
<b>1100 d. Other Transmission Items</b>		
1101 (1) R/W Procurement _____	\$0	
1102 (2) Engineering Fees _____	0	
1103 (3) Reimbursement of General Funds (see schedule) _____	0	
1104 (4) _____	0	
<i>Subtotal</i> .....	\$0	
<b>TOTAL TRANSMISSION</b> .....	<b>\$0</b>	
<b>1200 3. GENERATION (including Step-up Station at Plant)</b>		
1201 a Fuel _____ Nameplate Rating _____ kW	\$0	
1202 b. _____	0	
<b>TOTAL GENERATION</b> .....	<b>\$0</b>	
<b>1300 4. HEADQUARTERS FACILITIES</b>		
1301 a. New or additional Facilities (Attach RUS Form 740g) _____	\$0	
1302 b. _____	0	
<b>TOTAL HEADQUARTERS FACILITIES</b> .....	<b>\$0</b>	

SECTION A. COST ESTIMATES (cont.)		BORROWER'S COST ESTIMATES	RUS USE ONLY
1400	5. ACQUISITIONS		
1401	a. _____ Consumers _____ Miles	\$0	
1402	b. _____	0	
TOTAL ACQUISITIONS.....		\$0	
1500	6. ALL OTHER		
1501	a. _____	\$0	
1502	b. _____	0	
1503	c. _____	0	
1504	d. _____	0	
1505	e. _____	0	
TOTAL ALL OTHER.....		\$0	

SECTION B. SUMMARY OF AMOUNTS AND SOURCES OF FINANCING

1. GRAND TOTAL - ALL COSTS .....		\$17,798,865
2. FUNDS AND MATERIALS AVAILABLE FOR FACILITIES		
a. Loan Funds .....	\$0	
b. Materials and Special Equipment .....	0	
c. General Funds .....		
Purpose 1 .....	\$0	
Purpose 2 .....	\$0	
Purpose 3 .....	\$0	
Purpose 4 .....	\$0	
Total General Funds Applied .....	\$0	
d. Total Available Funds and Materials .....		\$0
3. NEW FINANCING REQUESTED FOR FACILITIES .....		\$17,798,865
4. RUS LOAN REQUESTED FOR FACILITIES .....	100%	\$17,799,000
5. TOTAL SUPPLEMENTAL LOAN REQUESTED .....		(\$135)
National Rural Utilities Cooperative Finance Corporation		
Name of Supplemental Lender		
6. CAPITAL TERM CERTIFICATE PURCHASES (CFC Loan only) .....	0%	\$0
7. SUPPLEMENTAL LOAN REQUESTED FOR FACILITIES .....	0%	(\$135)
8. 100% SUPPLEMENTAL LOANS (SEE RUS Bulletin 20-40, Att. C)*		\$0

\* Identify in section A by budget purpose and separate subtotals.

SECTION C. CERTIFICATION

We, the undersigned, certify that:


1. Upon completion of the electrical facilities contained herein and any others uncompleted at this time but for which financing is available, the system will be capable of adequately and dependably serving the projected load for the loan period as contained in our current RUS approved Power Requirement Study and Construction Work Plan.
2. Negotiations have been or will be initiated with our power supplier, where necessary, to obtain new delivery points and/or additional capacity at existing ones to adequately supply the projected load upon which this loan application is based.
3. The data contained herein and all supporting documents have, to the best of my knowledge, been prepared correctly and in accordance with RUS Bulletin 20-2.

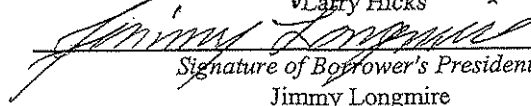
4-14-05

Date

4-14-05

Date

  
Signature of Borrower's Manager  
Larry Hicks

  
Signature of Borrower's President  
Jimmy Longmire

SALT RIVERELECTRIC  
Corporate Name of Borrower

GFR Initials \_\_\_\_\_

Attachment to 740c

**KY 21 NELSON**

Borrower and Loan Designation

### STATEMENT

Statement certifying that at least 90% of the Loan funds are for facilities with a useful life of 33 years or longer as required by 7 CFR 1710.115.

To facilitate the determination of the final maturity for this RUS Loan,  
SALT RIVER ELECTRIC  
does hereby certify that:

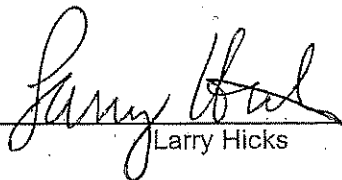
At least 90% of the Loan funds requested as part of this loan application and included on the RUS Form 740c (Cost Estimates and Loan Budget for Electric Borrowers) are for facilities with an anticipated useful life of 33 years or longer.

Less than 90% of the Loan funds requested as part of this loan application and included on the RUS Form 740c (Cost Estimates and Loan Budget for Electric Borrowers) are for facilities with an anticipated useful life of 33 years or longer. A schedule has been attached to this statement listing the facilities with an anticipated useful life of less than 33 years, the anticipated useful life of those facilities and the associated cost estimates (see attached).

4-14-05

Date

Title:

  
Larry Hicks

## **ANALYSIS OF 2002 OPERATIONS AND MAINTENANCE SURVEY**

In April 2002 an Operations and Maintenance Survey (O & M Survey) of the system was conducted.

Transmission lines and distribution substations are owned and maintained by East Kentucky Power Cooperative (EKP) and have been excluded from the rating process.

In general, the overhead and underground distribution facilities were found to be in satisfactory condition. There is an on-going program to replace old deteriorated conductor as part of the Long-Range Plan. Approximately 13.4 miles will be replaced in this work plan.

A program has been implemented to reduce outages, with a corporate goal of 3.5 hours/consumer. The use of vacuum OCR's will increase reliability and reduce maintenance costs. Autoboostrs have been phased out because of unreliability. The use of fused cutouts and an improved sectionalizing scheme will also improve reliability. Right-of way is cleared on a 5 year cycle including spraying.

A SCADA system was installed in 2003. The use of this system allows Salt River Electric to respond to outages faster because of the real time data. Reliability is better with the alarms and data associated with SCADA. Fault current readings allow engineering and dispatch personnel to direct crews to the general locations of the outages with a high degree of accuracy.

## ANALYSIS OF 1997 LONG RANGE PLAN

Salt River Electric Cooperative Corporation's 1997 Long-Range Plan (LRP) was prepared by Southern Engineering.

The LRP recommends that the distribution system will continue to operate predominately at 7.2/12.47 KV. In addition, the LRP addresses the replacement of deteriorated, or aged, distribution plant that will be included in future CWP's. The projects in the 2005-2008 CWP are consistent with the LRP.

SALT RIVER ELECTRIC DESIGN CRITERIA

FOR

2005-2008 CONSTRUCTION WORK PLAN

MARCH 2005

Each of the following design criteria items was reviewed by Mike Norman, RUS General Field Representative in February 2005. Mike concurred with the following statements.

All construction proposed within this document is required to meet the following minimum standards for voltage, thermal loading conditions, safety and system reliability. Conditions could require corrective action to exceed minimum standards.

1. The maximum voltage drop on primary distribution lines not to exceed 8 volts, (120 volt base), after re-regulation.
2. Primary conductors are not to be loaded over 90% of their thermal rating. These conductors will be flagged at 80% in the voltage drop studies.
3. Equipment will have maximum loading not to exceed the following nameplate percentages:

<u>EQUIPMENT</u>	<u>WINTER</u>	<u>SUMMER</u>
a. Power Transformers	130%	100%
b. Regulators	130%	100%
c. Reclosers	100%	100%
d. Line Fuses	80%	80%

4. Conductors (and associated poles and hardware as required) will be built, rebuilt, and or relocated if they are found to be unsafe or fail to meet applicable NESC requirements.
5. Poles and/or crossarms to be replaced if found to be physically deteriorated by visual inspection and/or tests.
6. All new distribution lines to be designed and built according to REA standard construction specifications and guidelines.

7. New lines and line conversions are to be built according to the standard primary voltage levels as recommended in the Long Range Plan.
8. New primary conductor sizes to be determined on a case by case basis using the Economic Conductor Sizing Computer Program and presently known constraints and variables. The final proposed conductor may be modified to conform with Salt River's Standard sizes and recommendations of the Long Range Plan.
9. All new primary construction to be overhead except where underground is required to comply with governmental or environmental regulations, local restrictions, or favorable economics.
10. Three phase normally open points between substation are to have gang operated air break switches (GOABS) installed over the work plan period.
11. All substations should have three phase reclosers installed in order to provide adequate protection schemes to improve reliability.
12. All underground circuits are to be designed and installed to allow for a loop feed configuration with faulted circuit indicators for system reliability.

**It is recommended that proposed construction items required for voltage improvements whose forecast need is based solely on calculated voltage from computerized circuit analysis printouts, not be authorized for construction until such calculated voltages are measured in the field and extrapolated to peak loading periods and then compared to calculated values to corroborate that actual voltages are below the above minimum design levels.**

**DISTRIBUTION LINE AND EQUIPMENT COST**

**DISTRIBUTION LINE COST**

ESTIMATED COST PER MILE	DESCRIPTION
\$55,000	1 PHASE TO 3 PHASE 110 ACSR
\$44,000	1 PHASE TO 1 PHASE 110 ACSR
\$73,000	3 PHASE TO 3 PHASE 336.4 ACSR
\$130,000	D. C. TO D.C. 397 SPACER CABLE
\$100,000	3 PHASE TO 795 SPACER CABLE
\$78,000	3 PHASE TO 397 SPACER CABLE

**DISTRIBUTION EQUIPMENT (INSTALLED COST)**

ESTIMATED COST	DESCRIPTION
\$2,000	TYPE "L" (VACUUM) MECHANICAL OCR
\$100	CUTOUT
\$5,000	AIR BREAK SWITCH
\$23,600	3 PHASE 150 AMP REGULATOR BANK
\$26,600	3 PHASE 300 AMP REGULATOR BANK
\$6,300	1 PHASE 100 AMP REGULATOR
\$1,640	FIXED CAPACITOR
\$2,840	SWITCHED CAPACITOR



# ACTUAL CONVERSION COST

(HISTORICAL DATA)

WORK ORDER NUMBER	JOB DESCRIPTION	MILES	TOTAL COST	COST PER MILE	
954515	1 PHASE 6ACWC TO 3 PHASE 110 ACSR	1.80	\$81,465	\$45,258	
930385	3 PHASE 110 CU TO D.C. 336.4 ACSR	1.00	\$53,044	\$53,044	
940833	1 PHASE 6ACWC TO 3 PHASE 110 ACSR	2.50	\$90,513	\$36,205	
931133	1 PHASE 6ACWC TO 3 PHASE 110 ACSR	5.20	\$126,355	\$24,299	
940834	1 PHASE 6ACWC TO 3 PHASE 110 ACSR	2.30	\$77,525	\$33,707	
940312	NEW LINE 3 PHASE 336.4 ACSR	1.50	\$33,623	\$22,415	
950365	NEW LINE 3 PHASE 336.4 ACSR	0.60	\$30,146	\$50,243	
954709	3 PHASE 110 CU TO D.C. 336.4 ACSR	2.20	\$115,000	\$52,273	
940039	1 PHASE 6ACWC TO 3 PHASE 110 ACSR	2.70	\$92,539	\$34,274	
960484	3 PHASE 110 CU TO 336.4 ACSR	9.26	\$373,725	\$40,359	DARWIN THOMAS FEEDER
970042	1 PHASE 6ACWC TO 3 PHASE 110 ACSR	1.29	\$64,710	\$50,163	
964223	1 PHASE 6ACWC TO 3 PHASE 336.4 ACSR	0.92	\$51,665	\$56,158	ARMSTRONG LANE
970207	3 PHASE 110 CU TO 336.4 ACSR	2.75	\$173,138	\$62,959	
960142	1 PHASE 6ACWC TO 3 PHASE 110 ACSR	1.35	\$62,954	\$46,633	ALLEN PLACE NORTH
970005	3 PHASE 110 CU TO 336.4 ACSR	2.49	\$181,838	\$73,027	
960245	2 PHASE 4A CWC TO 336.4 ACSR	0.83	\$38,290	\$46,133	
960075	1 PHASE 6ACWC TO 3 PHASE 110 ACSR	3.78	\$158,412	\$41,908	
970802	1 PHASE 6ACWC TO 3 PHASE 110 ACSR	0.94	\$34,346	\$36,538	
980096	1 PHASE 6ACWC TO 3 PHASE 110 ACSR	3.27	\$129,540	\$39,615	
980263	1 PHASE 6A CWC TO 1 PHASE 110 ACSR	0.69	\$10,297	\$14,923	
980045	1 PHASE 6A CWC TO 1 PHASE 110 ACSR	3.8	\$122,273	\$32,177	CLOYD LANE
970803	NEW LINE 3 PHASE 336.4 ACSR	1.07	\$51,600	\$48,224	
220143	3 PHASE 6ACWC TO 3 PHASE 336.4 ACSR	1.94	\$104,792	\$54,016	STRINGER LANE
210157	3 PHASE 2A CU TO 336.4 ACSR	3.6	\$265,544	\$73,762	HWY 480 CONVERSION
990065	NEW LINE 3 PHASE 110 ACSR	0.54	\$19,447	\$36,013	NALLEY & GIBSON
200144	NEW LINE 3 PHASE 336.4 ACSR	1.56	\$81,145	\$52,016	CEDAR GROVE IND PARK
990564	1 PHASE 6ACWC TO D.C 397 SPACER(1.63 MI)	5.77	\$350,517	\$60,748	FREDRICKSBURG SUB CONVERSION
	1 PHASE 6ACWC TO 3 PHASE 336.4 ACSR(4.14 MI)				
210630	NEW LINE D.C 397 SPACER (.57 MI)	5.11	\$250,380	\$48,998	SPRINGFIELD IND PARK
	NEW LINE 3 PHASE 336.4 ACSR (4.54 MI)				
201183	1 PHASE 6ACWC TO 3 PHASE 110 ACSR	0.66	\$27,804	\$42,127	HUBBARDS LANE
200180	3 PHASE 110 CU TO 336.4 ACSR	2.11	\$53,951	\$25,569	HWY 62
990710	1 PHASE 6ACWC TO 3 PHASE 110 ACSR	0.91	\$42,908	\$47,152	NEW HAVEN LAGOON
210637	1 PHASE 6ACWC TO 3 PHASE 110 ACSR	2.32	\$71,289	\$30,728	CITY OF BARDSTOWN SEWER
210735	NEW LINE 3 PHASE 336.4 ACSR	0.64	\$31,313	\$48,927	WYETH AYERST
201336	NEW LINE 3 PHASE 336.4 ACSR	0.95	\$28,512	\$30,013	BROOKS IND SITE
210873	NEW LINE 1 PHASE 110 ACSR	1.25	\$19,563	\$15,650	HICKMAN FARM DIVISION
210699	1 PHASE 6A CWC TO 1 PHASE 110 ACSR	0.82	\$19,295	\$23,530	MAX ROUSE RD
200084	NEW LINE 3 PHASE 336.4 ACSR	1.6	\$86,793	\$54,246	DALE LANE
210158	1 PHASE 6ACWC TO 3 PHASE 110 ACSR	0.79	\$35,930	\$45,481	KEITH KNOB
201049	3 PHASE 2A CU TO 336.4 ACSR	1.05	\$71,460	\$68,057	BROOKS NORTH
210872	NEW LINE 3 PHASE 336.4 ACSR	0.99	\$39,901	\$40,304	MT WASH IND SITE
990477	2 PHASE 6ACWC TO 3 PHASE 110 ACSR	2.74	\$82,050	\$22,646	31E THREE PHASE
985060	NEW LINE D.C 397 SPACER (1.79 MI)	2.44	\$280,582	\$114,993	BEULAH BEAM DC
	NEW LINE 3 PHASE 397 SPACER (.65 MI)				
200161	NEW LINE 3 PHASE 110 ACSR	1.61	\$83,047	\$51,582	CEDAR GROVE NORTH
210121	NEW LINE 795 SPACER CABLE(2.79 MI)	3.64	\$325,540	\$89,434	CEDAR GROVE INDUSTRIAL PARK
	3 PHASE 2A CU TO 336.4 ACSR(0.85 MI)				
230079	1 PHASE 6ACWC TO 3 PHASE 110 ACSR	0.98	\$39,527	\$40,334	WATERFORD RD
220704	1 PHASE 6ACWC TO 3 PHASE 110 ACSR	0.86	\$57,223	\$66,538	HWY 660
220920	NEW LINE 397 SPACER CABLE(1.6 MI)	2.03	\$138,682	\$68,316	SCHULER INDUSTRIAL PARK
	NEW LINE 3 PHASE 336.4 ACSR(0.43 MI)				
220618	NEW LINE 3 PHASE 2 ACSR	0.59	\$22,009	\$37,303	KNOPPS DAIRY
220895	NEW LINE 3 PHASE 336.4 ACSR	0.94	\$50,516	\$53,740	CEDAR GROVE INDUSTRIAL PARK
990770	1 PHASE 6A CWC TO 1 PHASE 110 ACSR	0.84	\$35,463	\$42,218	ICETOWN RD
200325	1 PHASE 6ACWC TO 3 PHASE 110 ACSR	1.33	\$66,520	\$50,015	STRINGTOWN RD
220195	3 PHASE 2A CU TO 336.4 ACSR	1.92	\$147,757	\$66,957	GOSPEL HILL
210359	3 PHASE 2A CU TO 336.4 ACSR(2.49 MI)	4.01	\$254,375	\$63,435	BALLTOWN
	3 PHASE 2A CU TO 397 SPACER CABLE(1.52 MI)				
200144	NEW LINE 3 PHASE 336.4 ACSR	0.78	\$81,145	\$104,032	CEDAR GROVE INDUSTRIAL PARK
201156	NEW LINE 3 PHASE 336.4 ACSR	0.22	\$14,542	\$66,100	CEDAR GROVE INDUSTRIAL PARK
980830	1 PHASE 6ACWC TO 3 PHASE 110 ACSR	3.17	\$121,768	\$38,413	LOVE RIDGE
210696	1 PHASE 6A CWC TO 1 PHASE 110 ACSR	0.88	\$20,810	\$23,648	BLOOMFIELD SUB
201156	NEW LINE 3 PHASE 336.4 ACSR	0.22	\$14,542	\$66,100	CEDAR GROVE IND PARK
230330	1 PHASE 6A CWC TO 1 PHASE 110 SPACER CABLE	2.86	\$126,170	\$44,115	GRAYS RUN
230331	1 PHASE 6A CWC TO 1 PHASE 110 ACSR	1.74	\$80,463	\$46,243	LILLY PIKE
230147	3 PHASE 4A CU TO 336.4 ACSR	7.03	\$302,587	\$43,042	HWY 509

## SECTIONALIZING STUDIES

Salt River Electric performs annual or when the system changes sectionalizing studies to calculate the coordination data for system protection. The philosophy includes removing the fast trips from the substation ocrs and raising ground trip values as high as 200 amps where minimum trips will allow. This also allows the use of larger downline ocrs to handle the larger loads that Salt River Electric is experiencing. Better coordination between ocrs is achieved by this philosophy. The fault current analysis from this study is utilized by engineering to locate fault information provided by SCADA.

A list has been made of OCR's, fuses, switches and other devices required to adequately protect the entire system. Fused cutouts will be added to all three phase lines at taps and transformers where none exist to minimize outages, improve troubleshooting and minimize blinking lights.

In addition to the above new protection requirements, annually, one third of the system's OCR's are removed, inspected, maintained, (cleaned, tested and serviced), and re-installed.

Copies of the data, calculations and final results of the above circuit protection studies are utilized by Salt River's Engineering Department on a daily basis for coordination decisions. Also retained are Salt River's OCR maintenance and test reports.

EAST KENTUCKY POWER  
SUBSTATION LOAD DATA REPORT  
SALT RIVER ECC

01/01/2005 00:01-AM  
01/31/2005 24:00-PM  
DPPKDI

Date 2/14/2005  
Page 1

LOCATION	MAXIMUM KW OCCURRENCE			KVA	PF	MIN VOLTS	MAX VOLTS	AVG. VOLTS	MAX KVAR	MIN LF	KWH
	KW	KVAR	LF								
ALLTOWN	12,276	2,038	7,358	12,444	0.99	7,408	8,253	7,968	2,063	195	4,845,022
ARDSTOWN SHOP. CTR.	9,291	1,703	7,408	9,446	0.98	7,408	8,205	7,940	1,703	174	3,820,251
ARDSTOWN SHOP. CTR.	4,521	1,697	6,698	4,829	0.94	6,698	7,677	7,529	1,849	356	2,280,664
BULAH BEAM	6,739	235	7,584	6,743	1.00	7,584	7,959	7,758	307	-367	3,262,144
COOMFIELD	7,271	1,088	7,183	7,352	0.99	7,183	7,936	7,646	1,088	-40	2,898,930
COUE LICK	7,622	463	7,514	7,637	1.00	7,514	7,898	7,700	500	-400	3,321,977
COOKS	8,364	609	7,461	8,386	1.00	7,461	7,934	7,669	2,301	-317	4,231,706
EDAR GROVE	13,404	1,387	7,202	13,475	0.99	7,202	7,788	7,504	1,387	-659	5,808,798
ERWIN THOMAS	10,269	1,315	7,254	10,352	0.99	7,254	7,856	7,577	1,315	-269	4,080,296
FAST BARDSTOWN	14,933	2,616	7,461	15,160	0.99	7,461	8,282	8,009	2,687	191	6,250,781
FEDRICKSBURG	3,930	432	7,202	3,953	0.99	7,202	7,984	7,698	434	-85	1,632,154
FISPEL HILL	5,089	235	7,883	5,094	1.00	7,883	8,219	8,054	235	-367	2,289,190
FLETCHER	11,906	1,786	7,353	12,039	0.99	7,353	8,342	8,034	1,822	10	4,493,791
NOB CREEK	2,293	-17	7,831	2,293	-1.00	7,831	8,076	7,947	-8	-278	952,061
EBANON JUNCTION #1	2,679	1,328	2,387	2,990	0.90	2,387	2,432	2,409	1,344	11	1,036,616
EBANON JUNCTION #2	3,455	358	7,132	3,473	0.99	7,132	7,996	7,746	417	12	1,456,801
ELY TULIP	6,048	1,222	7,087	6,170	0.98	7,087	7,756	7,545	2,727	-1,508	3,267,633
ERT. WASHINGTON	9,245	828	7,673	9,282	1.00	7,673	8,153	7,909	828	-273	4,157,812
ORTH SPRINGFIELD	9,550	1,570	7,123	9,678	0.99	7,123	7,963	7,624	1,570	-104	4,125,902
LEASANT GROVE	8,096	823	7,209	8,137	0.99	7,209	7,749	7,489	858	-299	3,634,455
HEPHERDSVILLE #1	5,741	639	6,993	5,776	0.99	6,993	7,802	7,537	724	8	2,944,591
HEPHERDSVILLE #2	7,487	1,430	6,916	7,622	0.98	6,916	7,915	7,620	1,458	481	3,164,523
OUTH SPRINGFIELD	3,875	104	7,152	3,876	1.00	7,152	7,965	7,654	131	-365	1,665,996
AYLORSVILLE	11,474	2,113	6,739	11,667	0.98	6,739	7,936	7,568	2,476	319	4,709,410
WEST BARDSTOWN	13,336	1,811	7,260	13,459	0.99	7,260	8,378	8,016	1,814	-82	5,342,999
WEST MT. WASHINGTON	10,097	-90	7,541	10,098	-1.00	7,541	7,989	7,755	-50	-1,277	4,506,625
WOOSLEY	3,419	593	7,300	3,470	0.99	7,300	7,968	7,766	619	136	1,376,547
<u>Total KW:</u>	212,406										91,557,672.10
											206,420.30
											206,420.30
											2,544,368.80

SALT RIVER ECC TOTAL SUBSTATION PEAK DEMAND 01/18/2005 07:30  
01/18/2005 07:30  
01/18/2005 07:30  
TOTAL SUBSTATIONS = 27

NOTE - DATA EXCLUDES MEMBER AND EKP OWN USE, BOTH OFF AND ON-PEAK DATA ARE INCLUDED.  
MAXIMUM KW PEAK MAY NOT MATCH BILLING PEAK.  
MAXIMUM KW PEAK MAY OCCUR OUTSIDE TIME-OF-DAY, DURING A SWITCH, OR DUE TO SOME UNUSUAL VOLTAGE CONDITION.  
(-) DENOTES KVAR RECEIVED.

04 24:00 P  
**SUBSTATION LOAD DATA**  
**SALT RIVER ECC**

8/18/2004  
 Page 1

KW	KVAR	PF	MIN VOLTS	MAX VOLTS	AVG VOLTS	MAX KVAR	MIN LF	KWH	Date
9,032	2,722	0.96	7,336	8,157	7,836	2,775	-95	4,020,343	8/18/2004
7,667	2,227	0.96	7,384	8,152	7,869	2,264	-145	3,150,476	8/18/2004
4,030	1,971	0.90	6,931	7,819	7,395	1,973	419	1,608,038	8/18/2004
9,565	2,714	0.96	7,068	7,883	7,561	2,721	-130	4,001,335	8/18/2004
5,305	1,601	0.96	7,324	8,059	7,770	1,601	40	2,184,704	8/18/2004
7,365	1,794	0.97	7,161	7,845	7,558	1,794	-196	3,284,114	8/18/2004
10,292	4,446	0.92	6,847	7,833	7,442	4,446	0	3,973,375	8/18/2004
10,063	2,551	0.97	7,141	7,779	7,469	2,551	-1,247	4,443,012	8/18/2004
8,411	3,130	0.94	7,098	7,764	7,471	3,140	357	3,302,541	8/18/2004
10,855	4,388	0.93	7,284	8,198	7,868	4,571	379	4,789,942	8/18/2004
3,021	855	0.96	7,188	7,893	7,615	855	-159	1,173,668	8/18/2004
5,283	925	0.99	7,661	8,179	7,961	1,185	-384	2,017,997	8/18/2004
8,091	2,359	0.96	7,224	8,126	7,798	2,368	-9	3,321,507	8/18/2004
2,144	-139	-1.00	7,644	8,032	7,874	274	-484	616,819	8/18/2004
2,793	1,373	0.90	2,356	2,437	2,407	1,391	14	1,582,488	8/18/2004
3,056	903	0.96	7,310	8,049	7,729	1,023	-101	1,284,995	8/18/2004
6,217	1,461	0.97	7,012	7,752	7,464	2,954	-1,581	3,351,777	8/18/2004
10,604	3,435	0.95	7,045	8,061	7,681	3,469	0	4,212,575	8/18/2004
6,765	1,877	0.96	6,981	7,840	7,539	1,900	81	3,184,042	8/18/2004
10,999	3,876	0.94	7,005	7,688	7,384	3,891	40	4,350,951	8/18/2004
7,551	2,649	0.94	6,959	7,956	7,488	4,218	-1,499	3,089,755	8/18/2004
8,257	3,297	0.93	5,563	8,082	7,608	3,304	642	3,213,190	8/18/2004
3,044	906	0.96	7,092	7,896	7,572	982	-307	1,318,834	8/18/2004
8,785	3,227	0.94	6,732	7,809	7,400	3,396	0	3,941,599	8/18/2004
9,900	3,102	0.95	7,142	8,150	7,771	3,158	242	4,121,268	8/18/2004
12,061	2,967	0.97	6,912	7,898	7,525	2,983	-951	4,784,495	8/18/2004
2,578	924	0.94	7,288	7,968	7,676	948	147	1,087,873	8/18/2004
193,753								81,411,709.03	8/18/2004

Total KWH:  
 185,998.70  
 185,116.00  
 1,893,508.40

SALT RIVER ECC TOTAL SUBSTATION PEAK DEMAND  
 07/13/2004 17:45  
 07/13/2004 17:00  
 07/13/2004 17:00  
 TOTAL SUBSTATIONS = 27

NOTE - DATA EXCLUDES MEMBER AND EKP OWN USE. BOTH OFF AND ON-PEAK DATA ARE INCLUDED.  
 MAXIMUM KW PEAK MAY NOT MATCH BILLING PEAK.  
 MAXIMUM KW PEAK MAY OCCUR OUTSIDE TIME-OF-DAY, DURING A SWITCH, OR DUE TO SOME UNUSUAL VOLTAGE CONDITION.  
 (-) DENOTES KVAR RECEIVED.

**SALT RIVER ELECTRIC COOPERATIVE  
SUMMARY OF OUTAGES**

CAUSE	2000	2001	2002	2003	2004	5 YEAR AVERAGE
POWER SUPPLY	0.11	0.02	0.38	0.44	0.37	0.26
EXTREME STORM	0.49	0.00	0.00	4.38	10.49	3.07
PREARRANGED	0.14	0.06	0.03	0.06	0.13	0.08
ALL OTHERS	1.93	1.40	1.74	1.59	2.28	1.79
TOTAL	2.67	1.48	2.15	6.47	13.27	5.21

HISTORICAL DATA 2002

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
UNDERGROUND													
NEW SERVICES	130	114	55	78	91	59	84	138	102	81	163	96	
1. WORK ORDERS - CONSTRUCTED ON ZIP	122	115	77	102	121	78	101	156	102	107	174	106	1361
2. LINEAR FEET - TOTAL	16315	12107	17420	18749	12200	15413	28740	18183	14790	23107	45583	18453	238060
PRIMARY	3536	820	8056	7068	2125	0	15099	3746	4628	8983	25031	6394	85996
SECONDARY	0	0	0	0	0	0	0	0	0	0	0	0	0
SERVICES	12679	11287	9354	11681	10075	15413	10641	14437	10162	14124	20352	12059	152464
3. AVERAGE LENGTH (L/101)	134	105	226	184	101	198	255	117	145	216	262	174	175
4. COST OF UNDERGROUND (219)	\$50,576.32	\$22,839.42	\$13,147.61	\$55,763.80	\$44,501.46	\$12,088.79	\$77,741.87	\$42,912.33	\$41,923.77	\$101,055.51	\$172,671.84	\$73,339.57	\$708,544.09
5. AVERAGE COST (60)	\$414.58	\$198.60	\$170.75	\$546.70	\$367.78	\$154.98	\$769.72	\$275.08	\$411.02	\$944.26	\$992.37	\$681.88	\$570.61
6. NEW TRANSFORMERS	16	18	30	44	17	15	22	36	11	36	24	20	259
7. INSTALLED COST PER TRANSFORMER	\$1,061.88	\$1,160.22	\$1,012.43	\$1,039.00	\$1,051.95	\$1,187.82	\$1,041.72	\$1,041.72	\$1,352.85	\$1,352.85	\$985.32	\$1,025.90	\$1,109.93
8. NEW METERS	130	114	55	78	91	59	84	138	102	81	163	96	1181
9. INSTALLED COST PER METER	\$73.70	\$73.70	\$73.70	\$73.70	\$73.70	\$73.70	\$73.70	\$73.70	\$73.70	\$73.70	\$73.70	\$73.70	\$73.70
OVERHEAD													
NEW SERVICES	42	27	36	37	24	37	33	36	34	46	30	32	
10. WORK ORDERS CONSTRUCTED ON ZIP	82	57	54	100	73	82	77	85	73	101	69	74	927
11. LINEAR FEET - TOTAL	40676	15734	8338	28508	16292	16083	18906	19302	17028	8953	17554	3657	211051
PRIMARY	34478	9914	4944	22648	11744	12583	15099	16466	12455	5046	14439	769	160805
SECONDARY	0	0	0	0	0	0	0	0	0	0	0	0	0
SERVICES	6198	5820	3394	5860	4546	3500	3807	2836	4573	3917	3115	2878	50446
12. AVERAGE LENGTH (L/101)	496	276	154	285	223	196	246	227	233	89	254	50	228
13. COST OF NEW CONSTRUCTION (219)	\$162,369.61	\$69,532.19	\$73,365.38	\$188,965.92	\$129,974.15	\$117,236.93	\$128,112.03	\$142,207.08	\$117,047.82	\$147,840.06	\$315,632.81	\$58,906.24	\$1,686,190.22
14. AVERAGE COST NEW SERVICE (1210)	\$1,980.12	\$1,654.40	\$1,959.82	\$1,888.66	\$1,700.47	\$1,428.72	\$1,666.79	\$1,673.02	\$1,603.99	\$1,464.75	\$4,572.94	\$796.03	\$1,796.32
15. NEW TRANSFORMERS	84	43	41	72	61	53	59	70	53	80	44	19	678
16. INSTALLED COST PER TRANSFORMER	\$479.37	\$514.40	\$482.87	\$481.14	\$537.25	\$749.33	\$479.86	\$605.45	\$552.62	\$508.41	\$467.21	\$480.64	\$519.89
17. NEW METERS	42	27	36	37	24	37	33	36	34	46	30	32	414
18. INSTALLED COST PER METER	\$73.70	\$73.70	\$73.70	\$73.70	\$73.70	\$73.70	\$73.70	\$73.70	\$73.70	\$73.70	\$73.70	\$73.70	\$73.70
19. SECURITY LIGHT TOTAL	27	33	23	13	22	36	23	40	26	41	25	19	328
20. INSTALLED COST PER LIGHT	\$237.65	\$422.17	\$126.61	\$457.08	\$227.42	\$105.07	\$528.41	\$605.50	\$296.99	\$225.78	\$377.44	\$437.35	\$328.46
21. SYSTEM IMPROVEMENTS - TOTAL	14	7	3	10	6	6	2	5	3	11	6	21	94
21. AVERAGE COST OF SYSTEM IMPROVEMENT	\$9,359.30	\$1,742.95	\$561.66	\$883.35	\$626.95	\$186.54	\$436.10	\$272.43	\$317.46	\$619.59	\$1,114.64	\$612.67	\$1,395.30
22. POLE REPLACEMENTS	14	22	4	52	2	33	2	42	15	3	19	6	226
24. AVERAGE COST PER REPLACEMENT	\$1,701.31	\$1,523.45	\$2,348.01	\$1,171.62	\$3,791.10	\$1,294.20	\$804.49	\$933.52	\$1,264.37	\$2,004.41	\$1,155.08	\$2,284.48	\$1,691.34
25. FDIAL OF WORK ORDERS (1110-1921)	245	212	157	225	222	202	203	286	204	260	274	220	2710
26. TOTAL TRANSFORMERS PURCHASED - UG	14	27	19	32	22	15	8	1	28	39	30	35	270
27. INSTALLED TRANSFORMER COST - UG	\$14,863.28	\$31,325.93	\$19,236.21	\$33,247.88	\$23,142.98	\$17,812.85	\$8,333.72	\$5,519.59	\$30,362.52	\$62,761.01	\$29,559.70	\$35,941.63	\$382,107.28
28. TOTAL TRANSFORMERS PURCHASED - OIL	69	93	159	39	37	21	20	71	51	75	46	97	771
29. INSTALLED TRANSFORMER COST - OIL	\$33,076.26	\$47,839.23	\$76,776.49	\$16,207.63	\$19,078.07	\$15,735.97	\$9,597.20	\$35,886.81	\$26,930.61	\$38,130.59	\$21,024.51	\$46,621.67	\$387,705.04
30. TOTAL METERS PURCHASED	0	1832	232	192	380	48	192	282	298	434	100	292	4282
31. INSTALLED METER COST	\$0.00	\$109,419.38	\$25,202.34	\$14,149.63	\$28,195.22	\$12,139.76	\$14,549.63	\$33,206.89	\$41,678.13	\$41,465.76	\$29,485.00	\$41,040.63	\$390,555.37
32. OTHER SPECIAL EQUIPMENT PURCHASED	\$2,908.55	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,183.33	\$480.66	\$5,873.03	\$0.00	\$4,762.13	\$19,207.70

HISTORICAL DATA 2003

DESCRIPTION	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<b>UNDERGROUND NEW SERVICES</b>													
1. WORK ORDERS - CONSTRUCTED ON 219	104	54	79	81	105	146	81	124	115	147	113	65	1359
2. LINEAR FEET - TOTAL	123	56	80	100	123	136	101	144	125	171	116	62	184718
3. PRIMARY	12449	9497	8177	17192	16089	35750	10386	17484	13989	21768	12500	13937	62607
4. SECONDARY	800	1088	1083	13241	3876	20741	2396	3278	3199	7522	328	5056	184718
5. SERVICES	11648	8409	7094	3951	12213	15009	7990	14206	10791	19746	0	0	0
6. AVERAGE LENGTH (219)	101	170	102	172	131	269	103	121	112	159	108	170	143
7. COST OF UNDERGROUND (219)	\$45,129.41	\$25,239.28	\$30,235.16	\$122,474.13	\$47,921.46	\$165,876.35	\$35,404.60	\$68,477.36	\$54,278.18	\$95,428.62	\$31,412.62	\$69,861.10	\$791,138.19
8. AVERAGE COST (40)	\$366.91	\$450.70	\$377.95	\$1,224.74	\$384.73	\$1,202.00	\$350.54	\$475.64	\$434.23	\$568.06	\$270.80	\$851.86	\$582.15
9. NEW TRANSFORMERS	17	4	16	22	21	29	22	18	20	39	14	22	238
10. INSTALLED COST PER TRANSFORMER	\$1,278.48	\$1,024.59	\$1,075.39	\$1,257.49	\$1,205.40	\$1,173.55	\$1,173.55	\$2,715.45	\$1,156.62	\$2,853.95	\$1,614.06	\$1,090.67	\$1,476.60
11. NEW METERS	104	54	79	81	105	146	81	124	115	147	113	65	1214
12. INSTALLED COST PER METER	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95
<b>OVERHEAD</b>													
<b>NEW SERVICES</b>													
13. WORK ORDERS CONSTRUCTED ON 119	38	15	26	39	51	56	37	30	22	44	24	31	857
14. LINEAR FEET - TOTAL	91	31	52	87	77	83	74	68	48	107	65	64	857
15. PRIMARY	3152	2021	9668	20211	12466	25303	18452	18153	6870	30071	11969	16192	183428
16. SECONDARY	-772	18629	8843	6222	8843	21466	14709	14833	4190	24066	8905	11845	149856
17. SERVICES	3864	2292	3446	3951	3623	3837	3743	3320	2080	6005	3064	4347	43572
18. AVERAGE LENGTH (1110)	35	675	166	232	162	272	249	267	143	281	184	253	226
19. COST OF NEW CONSTRUCTION (219)	\$376,356.00	\$67,908.84	\$89,784.74	\$163,706.30	\$163,256.73	\$489,376.84	\$160,714.93	\$115,315.63	\$89,396.84	\$22,633.46	\$133,747.50	\$181,184.35	\$2,253,382.16
20. AVERAGE COST NEW SERVICE (1110)	\$4,135.78	\$2,190.61	\$1,726.83	\$1,891.68	\$2,120.22	\$5,262.12	\$2,171.82	\$1,695.82	\$1,862.43	\$2,080.69	\$2,057.65	\$2,831.01	\$2,629.30
21. NEW TRANSFORMERS	52	27	44	51	36	53	46	32	26	77	45	46	535
22. INSTALLED COST PER TRANSFORMER	\$484.45	\$504.75	\$473.81	\$516.52	\$627.99	\$468.06	\$468.06	\$552.10	\$496.41	\$488.19	\$587.99	\$508.46	\$506.40
23. NEW METERS	38	15	26	39	51	56	37	30	22	44	24	31	413
24. INSTALLED COST PER METER	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95
25. SECURITY LIGHT TOTAL	33	20	43	19	10	44	28	22	20	28	49	31	347
26. INSTALLED COST PER LIGHT	\$514.05	\$494.06	\$122.43	\$413.13	\$229.14	\$97.98	\$442.11	\$269.53	\$348.32	\$402.21	\$456.18	\$657.73	\$403.91
27. SYSTEM IMPROVEMENTS - TOTAL	20	2	2	11	5	15	7	3	24	10	18	7	124
28. AVERAGE COST OF SYSTEM IMPROVEMENT	\$344.88	\$129.68	\$1,237.58	\$695.61	\$475.42	\$634.23	\$369.18	\$369.18	\$651.84	\$276.87	\$483.17	\$595.31	\$520.80
29. POLE REPLACEMENTS	9	14	24	2	30	45	1	12	21	45	13	15	231
30. AVERAGE COST PER REPLACEMENT	\$1,987.21	\$2,108.42	\$1,975.07	\$843.52	\$1,075.33	\$2,123.29	\$576.73	\$1,050.10	\$1,431.27	\$1,764.94	\$2,127.47	\$1,590.94	\$1,556.52
31. TOTAL OF WORK ORDERS (1110+19+21)	267	109	177	217	215	290	210	237	217	316	248	184	2687
32. TOTAL TRANSFORMERS PURCHASED - UG	19	24	10	10	26	27	23	3	35	2	25	18	222
33. INSTALLED TRANSFORMER COST - UG	\$24,291.21	\$24,590.16	\$10,753.90	\$12,574.90	\$31,340.34	\$28,562.93	\$26,991.57	\$8,146.35	\$40,481.75	\$5,907.80	\$40,351.55	\$19,632.10	\$273,624.66
34. TOTAL TRANSFORMERS PURCHASED - OH	53	140	24	44	48	60	21	83	48	46	116	49	742
35. INSTALLED TRANSFORMER COST - OH	\$25,675.83	\$70,665.65	\$11,371.39	\$22,726.84	\$25,343.28	\$28,124.35	\$9,829.31	\$51,345.23	\$23,827.87	\$22,456.74	\$68,206.96	\$24,914.31	\$384,487.76
36. TOTAL METERS PURCHASED	442	12	434	3	384	0	96	192	0	0	384	384	2351
37. INSTALLED METER COST	\$79,692.13	\$2,883.24	\$40,927.76	\$1,505.27	\$27,243.26	\$1,056.00	\$18,469.44	\$14,314.75	\$528.00	\$0.00	\$29,685.50	\$28,629.50	\$244,734.85
38. OTHER SPECIAL EQUIPMENT PURCHASED	\$6,001.54	\$2,161.02	\$1,668.24	\$0.00	\$0.00	\$4,510.41	\$0.00	\$0.00	\$14,182.46	\$1,670.97	\$20,114.89	\$69,761.53	\$69,761.53

HISTORICAL DATA 2004

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<b>UNDERGROUND</b>													
<b>NEW SERVICES</b>													
1. WORK ORDERS - CONSTRUCTED ON 219	151	75	123	102	119	111	97	137	126	191	153	113	
2. LINEAR FEET - TOTAL	148	82	123	108	114	92	108	132	117	216	156	124	1821
3. PRIMARY	15407	34555	42898	8471	10386	16766	18999	15428	11721	39375	97704	15167	266754
4. SECONDARY	0	0	0	0	1822	5581	9728	2515	500	16009	32556	833	93124
5. SERVICES	14661	13839	10910	8151	8774	11185	9168	12913	11221	23366	27148	14334	165870
6. AVERAGE LENGTH (2/1)	104	422	105	78	91	162	173	117	100	182	383	122	170
7. COST OF UNDERGROUND (219)	\$67,300.82	\$171,179.77	\$42,726.31	\$33,621.75	\$46,762.56	\$53,161.23	\$68,535.33	\$46,928.45	\$25,834.02	\$127,388.53	\$277,308.99	\$50,877.76	\$1,013,647.58
8. AVERAGE COST (43)	\$454.74	\$2,081.96	\$347.37	\$314.31	\$410.37	\$577.84	\$628.76	\$370.68	\$220.80	\$589.77	\$1,777.62	\$410.30	\$655.43
9. NEW TRANSFORMERS	28	23	27	18	19	20	14	21	8	54	23	13	288
10. INSTALLED COST PER TRANSFORMER	\$1,171.81	\$1,145.45	\$1,092.66	\$1,122.41	\$4,308.95	\$1,572.29	\$1,304.95	\$1,293.70	\$1,154.33	\$1,145.45	\$1,111.85	\$1,634.72	\$1,500.33
11. NEW METERS	151	75	123	102	119	111	97	137	126	191	153	113	1498
12. INSTALLED COST PER METER	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95
<b>OVERHEAD</b>													
<b>NEW SERVICES</b>													
13. WORK ORDERS CONSTRUCTED ON 219	36	16	54	24	24	35	18	44	46	49	32	26	
14. LINEAR FEET - TOTAL	65	46	90	57	61	75	52	77	77	77	57	41	788
15. PRIMARY	11908	7178	22596	7252	18843	4762	6352	14153	13688	22633	9222	5386	146943
16. SECONDARY	7320	5323	15621	3810	14566	1173	3809	10841	9411	15845	3549	5313	96381
17. SERVICES	4988	1855	6975	3442	4277	3589	2543	3312	4277	6188	5873	3043	50382
18. AVERAGE LENGTH (1/10)	183	156	251	127	309	63	122	189	178	233	162	204	166
19. COST OF NEW CONSTRUCTION (219)	\$112,228.58	\$86,657.83	\$164,329.39	\$108,577.27	\$108,626.18	\$132,562.68	\$65,731.56	\$124,675.70	\$126,963.05	\$225,507.65	\$64,416.04	\$75,285.40	\$1,385,981.33
20. AVERAGE COST NEW SERVICE (1/10)	\$1,726.59	\$1,888.21	\$1,714.77	\$1,804.86	\$1,780.75	\$1,767.50	\$1,264.07	\$1,758.81	\$1,648.87	\$2,324.82	\$1,130.11	\$1,536.23	\$1,756.60
21. NEW TRANSFORMERS	29	35	54	36	32	43	33	47	41	61	21	27	459
22. INSTALLED COST PER TRANSFORMER	\$603.12	\$521.84	\$538.57	\$21.13	\$509.84	\$334.46	\$808.44	\$575.85	\$597.05	\$600.93	\$559.44	\$592.70	\$588.62
23. NEW METERS	36	16	54	24	24	36	18	44	46	49	32	26	405
24. INSTALLED COST PER METER	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95	\$72.95
25. SECURITY LIGHT TOTAL	34	18	49	23	26	22	11	46	13	53	43	43	383
26. INSTALLED COST PER LIGHT	\$358.75	\$442.25	\$382.32	\$361.27	\$318.71	\$371.64	\$955.50	\$640.79	\$196.03	\$561.03	\$488.49	\$491.53	\$417.36
27. SYSTEM IMPROVEMENTS - TOTAL	11	2	6	6	4	11	16	13	3	7	7	12	100
28. AVERAGE COST OF SYSTEM IMPROVEMENT	\$737.00	\$384.36	\$1,245.50	\$709.89	\$382.56	\$638.49	\$764.06	\$805.14	\$446.72	\$615.50	\$682.19	\$410.52	\$669.33
29. POLE REPLACEMENTS	10	22	7	31	27	0	119	28	8	20	7	15	284
30. AVERAGE COST PER REPLACEMENT	\$1,237.95	\$1,223.79	\$972.60	\$1,608.30	\$951.84	\$0.00	\$1,649.07	\$2,102.04	\$1,057.41	\$1,286.03	\$1,805.33	\$2,151.45	\$1,342.23
31. TOTAL OF WORK ORDERS (1+16+19+21)	258	148	268	196	207	200	188	262	210	373	263	220	2793
32. TOTAL TRANSFORMERS PURCHASED - UG	58	32	28	23	2	38	21	20	34	23	8	51	338
33. INSTALLED TRANSFORMER COST - UG	\$67,965.10	\$35,654.40	\$30,591.80	\$25,615.35	\$8,617.90	\$59,975.10	\$27,391.45	\$24,674.00	\$39,247.38	\$26,345.35	\$8,895.60	\$83,370.95	\$439,554.10
34. TOTAL TRANSFORMERS PURCHASED - OH	67	61	90	33	31	126	25	45	83	52	59	67	738
35. INSTALLED TRANSFORMER COST - OH	\$40,406.73	\$31,639.59	\$48,471.10	\$20,497.27	\$15,759.89	\$87,344.94	\$16,116.75	\$25,317.55	\$49,554.37	\$31,248.28	\$32,447.62	\$39,711.13	\$419,355.22
36. TOTAL METERS PURCHASED	0	384	0	0	288	0	0	0	0	0	0	0	672
37. INSTALLED METER COST	\$1,056.00	\$28,629.50	\$1,056.00	\$0.00	\$21,472.13	\$576.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$52,789.63
38. OTHER SPECIAL EQUIPMENT PURCHASED	\$0.00	\$33,866.66	\$25,489.22	\$39,050.29	\$5,109.50	\$0.00	\$0.00	\$0.00	\$1,895.62	\$0.00	\$0.00	\$3,331.35	\$108,844.64





According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0572-0032. The time required to complete this information collection is estimated to average 25 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

UNITED STATES DEPARTMENT OF AGRICULTURE  
RURAL UTILITIES SERVICE

BORROWER DESIGNATION KY0021

PERIOD ENDED 12/2003

**FINANCIAL AND STATISTICAL REPORT**

BORROWER NAME AND ADDRESS  
SALT RIVER RURAL ELEC COOP CORP

111 W. Brashear Ave.

P.O. Box 609  
Bardstown, KY 40004-

INSTRUCTIONS - For detailed instructions, see RUS Bulletin 1717B-2.

This data will be used by RUS to review your financial situation. Your response is required (7 U.S.C. 901 et seq.) and may be confidential.

**CERTIFICATION**

We recognize that statements contained herein concern a matter within the jurisdiction of an agency of the United States and the making of a false, fictitious or fraudulent statement may render the maker subject to prosecution under Title 18, United States Code Section 1001.

We hereby certify that the entries in this report are in accordance with the accounts and other records of the system and reflect the status of the system to the best of our knowledge and belief.

**ALL INSURANCE REQUIRED BY PART 1788 OF 7 CFR CHAPTER XVII, RUS, WAS IN FORCE DURING THE REPORTING PERIOD AND RENEWALS HAVE BEEN OBTAINED FOR ALL POLICIES.**

**DURING THE PERIOD COVERED BY THIS REPORT PURSUANT TO PART 1718 OF 7 CFR CHAPTER XVII**

*(check one of the following)*

All of the obligations under the RUS loan documents have been fulfilled in all material respects

There has been a default in the fulfillment of the obligations under the RUS loan documents. Said default(s) is/are specifically described in Part D of this report.

J. Edward Boone, Vice President-Finance

02/26/2004

DATE

J. Larry Hicks, President & CEO

02/26/2004

DATE

USDA-RUS <b>FINANCIAL AND STATISTICAL REPORT</b>	BORROWER DESIGNATION KY0021
	PERIOD ENDED 12/2003
INSTRUCTIONS-See RUS Bulletin 1717B-2	

**Part A. Statement of Operations**

ITEM	Year-to-date Last Year (a)	Year-to-date This Year (b)	Year-to-date Budget (c)	This Month (d)
1. Operating Revenue and Patronage Capital	46,700,817	49,404,388	47,961,000	5,032,580
2. Power Production Expense	0	0	0	0
3. Cost of Purchased Power	32,033,881	34,225,783	33,275,000	3,487,162
4. Transmission Expense	0	0	0	0
5. Distribution Expense - Operation	1,623,979	1,934,403	1,838,220	233,203
6. Distribution Expense - Maintenance	1,488,913	1,872,065	1,813,214	84,029
7. Customer Accounts Expense	1,370,460	1,591,762	1,534,406	189,849
8. Customer Service and Informational Expense	129,267	144,603	146,337	13,140
9. Sales Expense	176,183	225,731	252,882	16,719
10. Administrative and General Expense	2,014,861	2,115,782	2,045,969	221,961
11. Total Operation & Maintenance Expense (2 thru 10)	38,837,544	42,110,129	40,906,028	4,246,063
12. Depreciation and Amortization Expense	3,678,060	3,917,624	3,730,000	331,575
13. Tax Expense - Property & Gross Receipts	0	0	0	0
14. Tax Expense - Other	54,293	55,937	58,000	0
15. Interest on Long-Term Debt	1,926,080	1,812,472	1,958,263	156,563
16. Interest Charged to Construction - Credit	0	0	0	0
17. Interest Expense - Other	32,279	38,407	30,000	3,420
18. Other Deductions	7,081	5,440	0	1,283
19. Total Cost of Electric Service (11 thru 18)	44,535,337	47,940,009	46,682,291	4,738,904
20. Patronage Capital & Operating Margins (1 minus 19)	2,165,480	1,464,379	1,278,709	293,676
21. Non Operating Margins - Interest	278,467	266,848	100,000	45,729
22. Allowance for Funds Used During Construction	0	0	0	0
23. Income (Loss) from Equity Investments	0	0	0	0
24. Non Operating Margins - Other	56,251	161,514	20,000	31,568
25. Generation and Transmission Capital Credits	3,067,758	2,490,690	0	2,490,690
26. Other Capital Credits and Patronage Dividends	114,175	137,768	100,000	0
27. Extraordinary Items	0	0	0	0
28. Patronage Capital or Margins (20 thru 27)	5,682,131	4,521,199	1,498,709	2,861,663

**Part B. Data on Transmission and Distribution Plant**

ITEM	Year-to-date Last Year (a)	Year-to-date This Year (b)
1. New Services Connected	1,605	1,627
2. Services Retired	191	234
3. Total Services in Place	42,087	43,491
4. Idle Services (Exclude Seasonal)	2,931	2,880
5. Miles Transmission	0.00	0.00
6. Miles Distribution - Overhead	3,193.15	3,229.78
7. Miles Distribution - Underground	304.05	342.68
8. Total Miles Energized (5 + 6 + 7)	3,497.20	3,572.46

USDA-RUS <b>FINANCIAL AND STATISTICAL REPORT</b>	BORROWER DESIGNATION KY0021
	PERIOD ENDED 12/2003

INSTRUCTIONS-See RUS Bulletin 1717B-2

**Part C. Balance Sheet**

ASSETS AND OTHER DEBITS		LIABILITIES AND OTHER CREDITS	
1. Total Utility Plant in Service	87,943,228	29. Memberships	1,272,540
2. Construction Work in Progress	1,155,875	30. Patronage Capital	35,996,829
3. Total Utility Plant (1 + 2)	89,099,103	31. Operating Margins - Prior Years	144,679
4. Accum. Provision for Depreciation and Amort.	26,203,728	32. Operating Margins - Current Year	4,092,837
5. Net Utility Plant (3 - 4)	62,895,375	33. Non-Operating Margins	561,278
6. Non-Utility Property (Net)	330,355	34. Other Margins and Equities	1,637,930
7. Investments in Subsidiary Companies	0	35. Total Margins & Equities (29 thru 34)	43,706,093
8. Invest. in Assoc. Org. - Patronage Capital	14,242,195	36. Long-Term Debt - RUS (Net)	19,680,730
9. Invest. in Assoc. Org. - Other - General Funds	1,659	(Payments - Unapplied)	0
10. Invest. in Assoc. Org. - Other - Nongeneral Funds	1,830,733	37. Long-Term Debt - RUS - Econ. Devel. (Net)	251,851
11. Investments in Economic Development Projects	359,258	38. Long-Term Debt - FFB - RUS Guaranteed	0
12. Other Investments	0	39. Long-Term Debt - Other - RUS Guaranteed	0
13. Special Funds	0	40. Long-Term Debt Other (Net)	29,155,164
14. Total Other Property & Investments (6 thru 13)	16,764,200	41. Total Long-Term Debt (36 thru 40)	49,087,745
15. Cash - General Funds	1,449,416	42. Obligations Under Capital Leases - Noncurrent	0
16. Cash - Construction Funds - Trustee	0	43. Accumulated Operating Provisions and Asset Retirement Obligations	217,064
17. Special Deposits	0	44. Total Other Noncurrent Liabilities (42 + 43)	217,064
18. Temporary Investments	5,267,519	45. Notes Payable	0
19. Notes Receivable (Net)	6,493,500	46. Accounts Payable	4,674,773
20. Accounts Receivable - Sales of Energy (Net)	6,084,270	47. Consumers Deposits	705,064
21. Accounts Receivable - Other (Net)	200,195	48. Current Maturities Long-Term Debt	2,273,925
22. Materials and Supplies - Electric & Other	814,546	49. Current Maturities Long-Term Debt-Economic Development	111,111
23. Prepayments	88,096	50. Current Maturities Capital Leases	0
24. Other Current and Accrued Assets	21,483	51. Other Current and Accrued Liabilities	768,983
25. Total Current and Accrued Assets (15 thru 24)	20,419,025	52. Total Current & Accrued Liabilities (45 thru 51)	8,533,856
26. Regulatory Assets	0	53. Regulatory Liabilities	0
27. Other Deferred Debits	1,873,421	54. Other Deferred Credits	407,263
28. Total Assets and Other Debits (5+14+25 thru 27)	101,952,021	55. Total Liabilities and Other Credits (35+ 41 + 44 + 52 thru 54)	101,952,021

Name of Borrower		Report Year	Report Period
SALT RIVER RURAL ELEC COOP CORP (KY0021)		2003	12
<b>Part D. Notes to Financial Statements</b>			

USDA-RUS <b>FINANCIAL AND STATISTICAL REPORT</b>	BORROWER DESIGNATION KY0021
	PERIOD ENDED 12/2003

INSTRUCTIONS-See RUS Bulletin 1717B-2

**Part E. Changes in Utility Plant**

PLANT ITEM	Balance Beginning of Year	Additions	Retirements	Adjustments and Transfers	Balance End of Year
Distribution Plant	75,152,698	5,136,441	520,468	0	79,768,671
General Plant	4,095,014	531,724	274,826	0	4,351,912
Headquarters Plant	4,111,813	10,832	0	( 300,000)	3,822,645
Intangibles	0	0	0	0	0
Transmission Plant	0	0	0	0	0
All Other Utility Plant	0	0	0	0	0
Total Utility Plant in Service (1 thru 6)	83,359,525	5,678,997	795,294	( 300,000)	87,943,228
Construction Work in Progress	787,405	368,470			1,155,875
<b>TOTAL UTILITY PLANT (7 + 8)</b>	<b>84,146,930</b>	<b>6,047,467</b>	<b>795,294</b>	<b>( 300,000)</b>	<b>89,099,103</b>

**Part F. Materials and Supplies**

ITEM	Balance Beginning of Year (a)	Purchased (b)	Salvaged (c)	Used (Net) (d)	Sold (e)	Adjustment (f)	Balance End of Year (g)
1. Electric	584,710	1,555,215	12,047	1,382,104	18,347	( 36,753)	714,768
2. Other	110,841	46,821	0	0	57,115	( 769)	99,778

**Part G. Service Interruptions**

ITEM	Avg. Hours per Consumer by Cause	Avg. Hours per Consumer by Cause	Avg. Hours per Consumer by Cause	Avg. Hours per Consumer by Cause	TOTAL (e)
	Power Supplier (a)	Extreme Storm (b)	Prearranged (c)	All Other (d)	
1. Present Year	0.44	4.38	0.06	1.59	6.47
2. Five-Year Average	0.21	1.04	0.08	1.70	3.03

**Part H. Employee-Hour and Payroll Statistics**

	Amount
1. Number of Full Time Employees	81
2. Employee - Hours Worked - Regular Time	160,787
3. Employee - Hours Worked - Overtime	12,289
4. Payroll - Expensed	2,847,060
5. Payroll - Capitalized	1,066,188
6. Payroll - Other	299,807

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**Part I. Patronage Capital**

ITEM	DESCRIPTION	This Year (a)	Cumulative (b)
1. Capital Credits Distributions	a. General Retirements	1,472,226	8,767,228
	b. Special Retirements	94,690	1,403,040
	c. Total Retirements (a + b)	1,566,916	10,170,268
2. Capital Credits Received	a. Cash Received From Retirement of Patronage Capital by Suppliers of Electric Power	0	
	b. Cash Received From Retirement of Patronage Capital by Lenders for Credit Extended to the Electric System	53,570	
	c. Total Cash Received (a + b)	53,570	

**Part J. Due from Consumers for Electric Service**

	Amount
1. AMOUNT DUE OVER 60 DAYS	25,653
2. AMOUNT WRITTEN OFF DURING YEAR	281,015

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**Part K. kWh Purchased and Total Cost**

Line No.	ITEM (a)	RUS Use Only Supplier Code (b)	kWh Purchased (c)	Total Cost (d)	Average Cost (Cents/kWh) (e)	Included in Total Cost Fuel Cost Adjustment (f)	Included in Total Cost Wheeling and Other Charges (or credits) (g)
1	East Kentucky Power Coop, Inc (KY0059)	5580	859,868,666	34,225,783	3.98	1,833,234	868,932
2		0	0	0	0.00	0	0
3		0	0	0	0.00	0	0
4		0	0	0	0.00	0	0
5		0	0	0	0.00	0	0
6		0	0	0	0.00	0	0
7		0	0	0	0.00	0	0
8		0	0	0	0.00	0	0
9		0	0	0	0.00	0	0
10		0	0	0	0.00	0	0
11		0	0	0	0.00	0	0
12		0	0	0	0.00	0	0
13		0	0	0	0.00	0	0
14		0	0	0	0.00	0	0
15		0	0	0	0.00	0	0
16		0	0	0	0.00	0	0
17		0	0	0	0.00	0	0
18		0	0	0	0.00	0	0
19		0	0	0	0.00	0	0
20		0	0	0	0.00	0	0
	<b>Total</b>		859,868,666	34,225,783	3.98	1,833,234	868,932





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**Part M. Annual Meeting and Board Data**

1. Date of Last Annual Meeting  06/02/2003	2. Total Number of Members  16,389	3. Number of Members Present at Meeting  687	4. Was Quorum Present (Y/N) ?  Y
5. Number of Members Voting by Proxy or Mail  3,475	6. Total Number of Board Members  6	7. Total Amount of Fees and Expenses for Board Members  154,725	8. Does Manager Have Written Contract (Y/N) ?  Y

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**Part N. Long-Term Debt and Debt Service Requirements**

ITEM	Balance End of Year	Billed This Year  Interest	Billed This Year  Principal	Billed This Year  Total
	(a)	(b)	(c)	(d)
Rural Utilities Service (Excludes RUS - Economic Development Loans)	19,680,730	1,033,896	15,208,990	16,242,886.00
National Rural Utilities Cooperative Finance Corporation	12,997,969	203,146	0	203,146.00
Bank for Cooperatives	16,157,195	575,430	177,190	752,620.00
Federal Financing Bank	0	0	0	0.00
RUS - Economic Development Loans	251,851	0	111,111	111,111.00
Other (List Separately)	0	0	0	0.00
	0	0	0	0.00
	0	0	0	0.00
	0	0	0	0.00
	0	0	0	0.00
	0	0	0	0.00
	0	0	0	0.00
	0	0	0	0.00
	0	0	0	0.00
	0	0	0	0.00
	0	0	0	0.00
	0	0	0	0.00
	0	0	0	0.00
	0	0	0	0.00
	0	0	0	0.00
	0	0	0	0.00
	0	0	0	0.00
<b>TOTAL</b>	<b>49,087,745</b>	<b>1,812,472</b>	<b>15,497,291</b>	<b>17,309,763.00</b>

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**Part O. Power Requirements Data Base - Annual Summary**

CLASSIFICATION	Consumer Sales & Revenue Data	December (a)	Average No. Consumers Served (b)	Total Year to Date (c)
1. Residential Sales (excluding seasonal)	a. No. Consumers Served	38,160	37,446	
	b. kWh Sold			585,020,947
	c. Revenue			36,031,040
2. Residential Sales - Seasonal	a. No. Consumers Served	22	25	
	b. kWh Sold			168,017
	c. Revenue			11,689
3. Irrigation Sales	a. No. Consumers Served	0	0	
	b. kWh Sold			0
	c. Revenue			0
4. Comm. and Ind. 1000 KVA or Less	a. No. Consumers Served	2,220	2,196	
	b. kWh Sold			125,822,949
	c. Revenue			7,840,664
5. Comm. and Ind. Over 1000 KVA	a. No. Consumers Served	9	9	
	b. kWh Sold			101,780,835
	c. Revenue			4,340,708
6. Public Street & Highway Lighting	a. No. Consumers Served	200	200	
	b. kWh Sold			2,161,752
	c. Revenue			235,289
7. Other Sales to Public Authorities	a. No. Consumers Served	0	0	
	b. kWh Sold			0
	c. Revenue			0
8. Sales for Resales - RUS Borrowers	a. No. Consumers Served	0	0	
	b. kWh Sold			0
	c. Revenue			0
9. Sales for Resale - Other	a. No. Consumers Served	0	0	
	b. kWh Sold			0
	c. Revenue			0
10. TOTAL No. of Consumers (lines 1a thru 9a)		40,611	39,876	
11. TOTAL kWh Sold (lines 1b thru 9b)				814,954,500
12. TOTAL Revenue Received From Sales of Electric Energy (line 1c thru 9c)				48,459,390
13. Other Electric Revenue				944,998
14. kWh - Own Use				596,946
15. TOTAL kWh Purchased				859,868,666
16. TOTAL kWh Generated				0
17. Cost of Purchases and Generation and Transmission Expense				34,225,783
18. Interchange - kWh - Net				0
19. System Peak - Sum Annual Peak kW Input from all Sources (Metered)				199,906

Non-coincident \_\_\_\_\_ Coincident  X

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**7a - Part I. Investments**

Line No.	Description (a)	Included (\$) (b)	Excluded (\$) (c)	Income or Loss (\$) (d)	Rural Development (e)
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**2. INVESTMENTS IN ASSOCIATED ORGANIZATIONS**

1	East Kentucky Power Cooperative	0	13,998,653	2,490,690	
2	United Utility Supply	74,580	0	0	
3	National Information Solution Cooperative	66,050	0	0	
4	Ky. Association of Electric Cooperatives	39,484	0	10,488	
5	Federated Rural Electric Insurance Exchange	33,280	0	9,378	
6	CFC-Membership Fee	0	1,000	0	
7	Envision	29,148	0	507	
8	Ermco Transformers	100	0	0	
9	CFC-SCTC	0	846,287	0	
10	NRTC	1,559	0	0	
11	National Bank for Cooperatives	0	984,446	56,315	
<b>Total: 2. INVESTMENTS IN ASSOCIATED ORGANIZATIONS</b>		<b>244,201</b>	<b>15,830,386</b>	<b>2,567,378</b>	

**3. INVESTMENTS IN ECONOMIC DEVELOPMENT PROJECTS**

12	Rural Econ. Develop. Loan-Chris Creation	0	48,148	0	X
13	Rural Econ. Develop. Loan-B & G Machine	0	91,666	0	X
14	Rural Econ. Develop. Loan-Vittitow Cabinet	0	219,444	0	X
<b>Total: 3. INVESTMENTS IN ECONOMIC DEVELOPMENT</b>		<b>0</b>	<b>359,258</b>	<b>0</b>	

**1. NON-UTILITY PROPERTY (NET)**

15	Rental Property	330,355	0		
<b>Total: 1. NON-UTILITY PROPERTY (NET)</b>		<b>330,355</b>	<b>0</b>		

**6. CASH - GENERAL**

16	Wilson & Muir Bank & Trust Co.	0	97,812		
17	Farmers Bank & Trust Co.-Payroll	0	63,000		
18	Farmers Bank & Trust Co.-General Fund	351,566	100,000		
19	Salt River Electric-Working Funds	4,550	0		
20	The Peoples Bank	433,669	100,000		
21	Kentucky Home Bank-General Fund	168,012	100,000		
22	Kentucky Home Bank-Capital Credits	0	30,807		
<b>Total: 6. CASH - GENERAL</b>		<b>957,797</b>	<b>491,619</b>		

**8. TEMPORARY INVESTMENTS**

23	The Peoples Bank of Bullitt County	157,592	100,000		
24	The Peoples Bank of Taylorsville	0	42,507		
25	BB & T	0	12,420		
26	CFC-Commercial Paper	0	750,000		
27	EKPC-Power Bill Prepayment	4,200,000	0		
28	KAEC-PCB Deloxification Certificate	5,000	0		
<b>Total: 8. TEMPORARY INVESTMENTS</b>		<b>4,362,592</b>	<b>904,927</b>		

**9. ACCOUNTS & NOTES RECEIVABLE - NET**

29	Springfield/Washington Co. Econ. Dev. Auth.	493,500	0	0	X
30	East Kentucky Power Cooperative	6,000,000	0	0	
31	Other Accounts Receivable	0	150,812	0	

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Line No.	Description (a)	Included (\$) (b)	Excluded (\$) (c)	Income or Loss (\$) (d)	Rural Development (e)
32	Comfort Loans	49,553	0	0	
<b>Total: 9. ACCOUNTS &amp; NOTES RECEIVABLE - NET</b>		<b>6,543,053</b>	<b>150,642</b>	<b>0</b>	
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
60					

<b>11. TOTAL INVESTMENTS</b>	12,437,998	17,736,832	2,567,378
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**7a - Part II. Loan Guarantees/Part III. Ratio**

Line No.	Organization (a)	Maturity date (b)	Original Amount (\$) (c)	Loan Balance (\$) (d)	Rural Development (e)
1			0	0	
2			0	0	
3			0	0	
4			0	0	
5			0	0	
6			0	0	
7			0	0	
8			0	0	
9			0	0	
10			0	0	
<b>TOTALS</b>			0	0	
<b>TOTAL (included Loan Guarantees only)</b>			0	0	

Ratio of Investments and Loan Guarantees to Utility Plant [Total of Included Investments (Part I, 11b) and Loan Guarantees - Loan Balance (Part II, 5d) to Total Utility Plant (Form 7, Part C, Line 3)]

14.0 %

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7a - Part IV. Loans

Line No.	Organization (a)	Maturity date (b)	Original Amount (\$) (c)	Loan Balance (\$) (d)	Rural Development (e)
1	Employees, Officers, Directors		0	0	
2	Energy Resource Conservation Loans		0	0	
3			0	0	
4			0	0	
5			0	0	
6			0	0	
7			0	0	
8			0	0	
9			0	0	
10			0	0	
11			0	0	
12			0	0	
13			0	0	
14			0	0	
15			0	0	
TOTALS			0	0	



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UNITED STATES DEPARTMENT OF AGRICULTURE  
RURAL UTILITIES SERVICE

BORROWER DESIGNATION KY0021

PERIOD ENDED 12/2004

**FINANCIAL AND STATISTICAL REPORT**

BORROWER NAME AND ADDRESS  
SALT RIVER RURAL ELEC COOP CORP

111 W. Brashear Ave.

P.O. Box 609

Bardstown, KY 40004-

INSTRUCTIONS - For detailed instructions, see RUS Bulletin 1717B-2.

This data will be used by RUS to review your financial situation. Your response is required (7 U.S.C. 901 et seq.) and may be confidential.

**CERTIFICATION**

We recognize that statements contained herein concern a matter within the jurisdiction of an agency of the United States and the making of a false, fictitious or fraudulent statement may render the maker subject to prosecution under Title 18, United States Code Section 1001.

We hereby certify that the entries in this report are in accordance with the accounts and other records of the system and reflect the status of the system to the best of our knowledge and belief.

ALL INSURANCE REQUIRED BY PART 1788 OF 7 CFR CHAPTER XVII, RUS, WAS IN FORCE DURING THE REPORTING PERIOD AND RENEWALS HAVE BEEN OBTAINED FOR ALL POLICIES.

DURING THE PERIOD COVERED BY THIS REPORT PURSUANT TO PART 1718 OF 7 CFR CHAPTER XVII  
(check one of the following)

All of the obligations under the RUS loan documents have been fulfilled in all material respects

There has been a default in the fulfillment of the obligations under the RUS loan documents. Said default(s) is/are specifically described in Part D of this report.

J. Edward Boone, Vice President-Finance

02/23/2005

DATE

Larry Hicks, President & CEO

02/23/2005

DATE

USDA-RUS <b>FINANCIAL AND STATISTICAL REPORT</b>	BORROWER DESIGNATION KY0021
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**Part A. Statement of Operations**

ITEM	Year-to-date Last Year (a)	Year-to-date This Year (b)	Year-to-date Budget (c)	This Month (d)
1. Operating Revenue and Patronage Capital	49,404,388	55,071,525	51,124,000	5,483,152
2. Power Production Expense	0	0	0	0
3. Cost of Purchased Power	34,225,783	39,252,829	36,030,000	4,139,068
4. Transmission Expense	0	0	0	0
5. Distribution Expense - Operation	1,934,403	2,053,210	1,934,420	193,548
6. Distribution Expense - Maintenance	1,872,065	2,231,817	1,751,113	464,642
7. Customer Accounts Expense	1,591,762	1,672,472	1,545,357	226,553
8. Customer Service and Informational Expense	144,603	151,995	146,136	13,182
9. Sales Expense	225,731	300,717	290,154	27,911
10. Administrative and General Expense	2,115,782	2,361,993	2,146,202	183,221
11. Total Operation & Maintenance Expense (2 thru 10)	42,110,129	48,025,033	43,843,382	5,248,125
12. Depreciation and Amortization Expense	3,917,624	4,132,622	4,149,000	351,992
13. Tax Expense - Property & Gross Receipts	0	0	0	0
14. Tax Expense - Other	55,937	55,735	58,000	0
15. Interest on Long-Term Debt	1,812,472	2,105,563	2,009,479	188,840
16. Interest Charged to Construction - Credit	0	0	0	0
17. Interest Expense - Other	38,407	60,218	39,600	6,671
18. Other Deductions	5,440	1,875	0	0
19. Total Cost of Electric Service (11 thru 18)	47,940,009	54,381,046	50,099,461	5,795,628
20. Patronage Capital & Operating Margins (1 minus 19)	1,464,379	690,479	1,024,539	( 312,476)
21. Non Operating Margins - Interest	266,848	550,407	400,000	41,821
22. Allowance for Funds Used During Construction	0	0	0	0
23. Income (Loss) from Equity Investments	0	0	0	0
24. Non Operating Margins - Other	161,514	138,783	100,000	25,272
25. Generation and Transmission Capital Credits	2,490,690	0	3,025,000	0
26. Other Capital Credits and Patronage Dividends	137,768	196,652	75,000	0
27. Extraordinary Items	0	0	0	0
28. Patronage Capital or Margins (20 thru 27)	4,521,199	1,576,321	4,624,539	( 245,383)

**Part B. Data on Transmission and Distribution Plant**

ITEM	Year-to-date Last Year (a)	Year-to-date This Year (b)
1. New Services Connected	1,627	1,903
2. Services Retired	234	145
3. Total Services in Place	43,491	45,412
4. Idle Services (Exclude Seasonal)	2,880	3,177
5. Miles Transmission	0.00	0.00
6. Miles Distribution - Overhead	3,229.78	3,257.61
7. Miles Distribution - Underground	342.68	391.69
8. Total Miles Energized (5 + 6 + 7)	3,572.46	3,649.30

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**Part C. Balance Sheet**

ASSETS AND OTHER DEBITS		LIABILITIES AND OTHER CREDITS	
1. Total Utility Plant in Service	92,442,405	29. Memberships	1,359,190
2. Construction Work in Progress	884,809	30. Patronage Capital	38,884,468
3. Total Utility Plant (1 + 2)	93,327,214	31. Operating Margins - Prior Years	144,679
4. Accum. Provision for Depreciation and Amort.	29,452,496	32. Operating Margins - Current Year	887,131
5. Net Utility Plant (3 - 4)	63,874,718	33. Non-Operating Margins	822,106
6. Non-Utility Property (Net)	309,425	34. Other Margins and Equities	1,958,148
7. Investments in Subsidiary Companies	0	35. Total Margins & Equities (29 thru 34)	44,055,722
8. Invest. in Assoc. Org. - Patronage Capital	14,283,223	36. Long-Term Debt - RUS (Net)	19,921,644
9. Invest. in Assoc. Org. - Other - General Funds	1,659	(Payments - Unapplied)	0
10. Invest. in Assoc. Org. - Other - Nongeneral Funds	1,963,314	37. Long-Term Debt - RUS - Econ. Devel. (Net)	600,001
11. Investments in Economic Development Projects	644,444	38. Long-Term Debt - FFB - RUS Guaranteed	0
12. Other Investments	0	39. Long-Term Debt - Other - RUS Guaranteed	0
13. Special Funds	0	40. Long-Term Debt Other (Net)	27,536,550
14. Total Other Property & Investments (6 thru 13)	17,202,065	41. Total Long-Term Debt (36 thru 40)	48,058,195
15. Cash - General Funds	1,200,839	42. Obligations Under Capital Leases - Noncurrent	0
16. Cash - Construction Funds - Trustee	0	43. Accumulated Operating Provisions and Asset Retirement	
17. Special Deposits	0	Obligations	272,372
18. Temporary Investments	6,384,566	44. Total Other Noncurrent Liabilities (42 + 43)	272,372
19. Notes Receivable (Net)	3,668,674	45. Notes Payable	0
20. Accounts Receivable - Sales of Energy (Net)	7,048,968	46. Accounts Payable	5,217,614
21. Accounts Receivable - Other (Net)	141,330	47. Consumers Deposits	801,865
22. Materials and Supplies - Electric & Other	754,736	48. Current Maturities Long-Term Debt	2,312,869
23. Prepayments	219,398	49. Current Maturities Long-Term Debt-Economic	
24. Other Current and Accrued Assets	22,612	Development	51,850
25. Total Current and Accrued Assets (15 thru 24)	19,441,123	50. Current Maturities Capital Leases	0
26. Regulatory Assets	0	51. Other Current and Accrued Liabilities	1,054,527
27. Other Deferred Debits	1,598,295	52. Total Current & Accrued Liabilities (45 thru 51)	9,438,725
28. Total Assets and Other Debits (5+14+25 thru 27)	102,116,201	53. Regulatory Liabilities	0
		54. Other Deferred Credits	291,187
		55. Total Liabilities and Other Credits (35+ 41 + 44 + 52 thru 54)	102,116,201

Name of Borrower		Report Year	Report Period
SALT RIVER RURAL ELEC COOP CORP (KY0021)		2004	12
<b>Part D. Notes to Financial Statements</b>			

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**Part E. Changes in Utility Plant**

PLANT ITEM	Balance Beginning of Year	Additions	Retirements	Adjustments and Transfers	Balance End of Year
Distribution Plant	79,768,671	5,062,114	676,163	0	84,154,622
General Plant	4,351,912	399,479	306,364	0	4,445,027
Headquarters Plant	3,822,645	20,111	0	0	3,842,756
Intangibles	0	0	0	0	0
Transmission Plant	0	0	0	0	0
All Other Utility Plant	0	0	0	0	0
Total Utility Plant in Service (1 thru 6)	87,943,228	5,481,704	982,527	0	92,442,405
Construction Work in Progress	1,155,875	( 271,066)			884,809
<b>TOTAL UTILITY PLANT (7 + 8)</b>	<b>89,099,103</b>	<b>5,210,638</b>	<b>982,527</b>	<b>0</b>	<b>93,327,214</b>

**Part F. Materials and Supplies**

ITEM	Balance Beginning of Year (a)	Purchased (b)	Salvaged (c)	Used (Net) (d)	Sold (e)	Adjustment (f)	Balance End of Year (g)
1. Electric	714,768	1,413,056	22,502	1,498,529	15,224	( 34,654)	601,919
2. Other	99,778	111,344	0	0	59,187	882	152,817

**Part G. Service Interruptions**

ITEM	Avg. Hours per Consumer by Cause Power Supplier (a)	Avg. Hours per Consumer by Cause Extreme Storm (b)	Avg. Hours per Consumer by Cause Prearranged (c)	Avg. Hours per Consumer by Cause All Other (d)	TOTAL (e)
1. Present Year	0.37	10.49	0.13	2.28	13.27
2. Five-Year Average	0.27	3.26	0.08	1.80	5.41

**Part H. Employee-Hour and Payroll Statistics**

	Amount
1. Number of Full Time Employees	77
2. Employee - Hours Worked - Regular Time	159,050
3. Employee - Hours Worked - Overtime	12,407
4. Payroll - Expensed	3,347,933
5. Payroll - Capitalized	1,069,701
6. Payroll - Other	193,497

USDA-RUS <b>FINANCIAL AND STATISTICAL REPORT</b>	BORROWER DESIGNATION KY0021
	PERIOD ENDED 12/2004

INSTRUCTIONS-See RUS Bulletin 1717B-2

**Part I. Patronage Capital**

ITEM	DESCRIPTION	This Year (a)	Cumulative (b)
1. Capital Credits Distributions	a. General Retirements	1,503,272	10,270,500
	b. Special Retirements	130,289	1,533,329
	c. Total Retirements (a + b)	1,633,561	11,803,829
2. Capital Credits Received	a. Cash Received From Retirement of Patronage Capital by Suppliers of Electric Power	0	
	b. Cash Received From Retirement of Patronage Capital by Lenders for Credit Extended to the Electric System	86,433	
	c. Total Cash Received (a + b)	86,433	

**Part J. Due from Consumers for Electric Service**

	Amount
1. AMOUNT DUE OVER 60 DAYS	35,059
2. AMOUNT WRITTEN OFF DURING YEAR	273,852

USDA-RUS <b>FINANCIAL AND STATISTICAL REPORT</b>	BORROWER DESIGNINATION KY0021
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**Part K. kWh Purchased and Total Cost**

Line No.	ITEM (a)	RUS Use Only Supplier Code (b)	kWh Purchased (c)	Total Cost (d)	Average Cost (Cents/kWh) (e)	Included in Total Cost  Fuel Cost Adjustment (f)	Included in Total Cost Wheeling and Other Charges (or credits) (g)
1	East Kentucky Power Coop, Inc (KY0059)	5580	903,274,223	39,252,829	4.35	4,520,283	868,932
2		0	0	0	0.00	0	0
3		0	0	0	0.00	0	0
4		0	0	0	0.00	0	0
5		0	0	0	0.00	0	0
6		0	0	0	0.00	0	0
7		0	0	0	0.00	0	0
8		0	0	0	0.00	0	0
9		0	0	0	0.00	0	0
10		0	0	0	0.00	0	0
11		0	0	0	0.00	0	0
12		0	0	0	0.00	0	0
13		0	0	0	0.00	0	0
14		0	0	0	0.00	0	0
15		0	0	0	0.00	0	0
16		0	0	0	0.00	0	0
17		0	0	0	0.00	0	0
18		0	0	0	0.00	0	0
19		0	0	0	0.00	0	0
20		0	0	0	0.00	0	0
<b>Total</b>			903,274,223	39,252,829	4.35	4,520,283	868,932





USDA-RUS <b>FINANCIAL AND STATISTICAL REPORT</b>	BORROWER DESIGNATION KY0021
	PERIOD ENDED 12/2004

INSTRUCTIONS-See RUS Bulletin 1717B-2

**Part M. Annual Meeting and Board Data**

1. Date of Last Annual Meeting 06/21/2004	2. Total Number of Members 9,659	3. Number of Members Present at Meeting 805	4. Was Quorum Present (Y/N) ? Y
5. Number of Members Voting by Proxy or Mail 2,052	6. Total Number of Board Members 6	7. Total Amount of Fees and Expenses for Board Members 162,601	8. Does Manager Have Written Contract (Y/N) ? Y



USDA-RUS <b>FINANCIAL AND STATISTICAL REPORT</b>	BORROWER DESIGNATION KY0021
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INSTRUCTIONS-See RUS Bulletin 1717B-2

**Part O. Power Requirements Data Base - Annual Summary**

CLASSIFICATION	Consumer Sales & Revenue Data	December	Average No. Consumers Served	Total Year to Date
		(a)	(b)	(c)
1. Residential Sales (excluding seasonal)	a. No. Consumers Served	39,679	38,957	
	b. kWh Sold			609,982,010
	c. Revenue			39,732,157
2. Residential Sales - Seasonal	a. No. Consumers Served	21	22	
	b. kWh Sold			156,365
	c. Revenue			10,452
3. Irrigation Sales	a. No. Consumers Served	0	0	
	b. kWh Sold			0
	c. Revenue			0
4. Comm. and Ind. 1000 KVA or Less	a. No. Consumers Served	2,322	2,268	
	b. kWh Sold			141,129,331
	c. Revenue			9,197,488
5. Comm. and Ind. Over 1000 KVA	a. No. Consumers Served	9	9	
	b. kWh Sold			105,741,858
	c. Revenue			4,831,734
6. Public Street & Highway Lighting	a. No. Consumers Served	204	202	
	b. kWh Sold			2,190,666
	c. Revenue			253,295
7. Other Sales to Public Authorities	a. No. Consumers Served	0	0	
	b. kWh Sold			0
	c. Revenue			0
8. Sales for Resales - RUS Borrowers	a. No. Consumers Served	0	0	
	b. kWh Sold			0
	c. Revenue			0
9. Sales for Resale - Other	a. No. Consumers Served	0	0	
	b. kWh Sold			0
	c. Revenue			0
10. TOTAL No. of Consumers (lines 1a thru 9a)		42,235	41,458	
11. TOTAL kWh Sold (lines 1b thru 9b)				859,200,230
12. TOTAL Revenue Received From Sales of Electric Energy (line 1c thru 9c)				54,025,126
13. Other Electric Revenue				1,046,399
14. kWh - Own Use				665,431
15. TOTAL kWh Purchased				903,274,223
16. TOTAL kWh Generated				0
17. Cost of Purchases and Generation and Transmission Expense				39,252,829
18. Interchange - kWh - Net				0
19. System Peak - Sum Annual Peak KW Input from all Sources (Metered)				205,447

Non-coincident  Coincident

USDA-RUS  <b>FINANCIAL AND STATISTICAL REPORT</b>	BORROWER DESIGNATION
	KY0021
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**7a - Part I. Investments**

Line No.	Description (a)	Included (\$) (b)	Excluded (\$) (c)	Income or Loss (\$) (d)	Rural Development (e)
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**2. INVESTMENTS IN ASSOCIATED ORGANIZATIONS**

1	East Kentucky Power Cooperative	0	13,998,653	0	
2	United Utility Supply	81,832	0	9,065	
3	National Information Solution Cooperative	71,980	0	7,507	
4	Ky. Association of Electric Cooperatives	50,047	0	13,203	
5	Federated Rural Electric Insurance Exchange	38,839	0	6,405	
6	CFC-Membership Fee	0	1,000	0	
7	Envision	28,498	0	7,286	
8	Ermco Transformers	100	0	0	
9	CFC-SCTC	0	924,490	0	
10	NRTC	1,559	0	0	
11	National Bank for Cooperatives	0	1,038,824	111,940	
<b>Total: 2. INVESTMENTS IN ASSOCIATED ORGANIZATIONS</b>		<b>272,855</b>	<b>15,975,341</b>	<b>196,652</b>	

**3. INVESTMENTS IN ECONOMIC DEVELOPMENT PROJECTS**

12	Rural Econ. Develop. Loan-B & G Machine	0	58,333	0	X
13	Rural Econ. Develop. Loan-Vititow Cabinet	0	186,111	0	X
14	Rural Econ. Develop. Loan-Synergy	0	400,000	0	X
<b>Total: 3. INVESTMENTS IN ECONOMIC DEVELOPMENT</b>		<b>0</b>	<b>644,444</b>	<b>0</b>	

**1. NON-UTILITY PROPERTY (NET)**

15	Rental Property	309,425	0		
<b>Total: 1. NON-UTILITY PROPERTY (NET)</b>		<b>309,425</b>	<b>0</b>		

**6. CASH - GENERAL**

16	Wilson & Muir Bank & Trust Co.	63,558	100,000		
17	Town & Country Bank-Payroll	38,000	100,000		
18	Town & Country Bank-General Fund	150,336	100,000		
19	Salt River Electric-Working Funds	6,550	0		
20	The Peoples Bank	205,109	100,000		
21	Kentucky Home Bank-General Fund	220,042	100,000		
22	Kentucky Home Bank-Capital Credits	0	17,244		
<b>Total: 6. CASH - GENERAL</b>		<b>683,595</b>	<b>517,244</b>		

**8. TEMPORARY INVESTMENTS**

23	The Peoples Bank of Bullitt County	19,703	100,000		
24	The Peoples Bank of Taylorsville	18,351	100,000		
25	BB & T	0	55,835		
26	CFC-Commercial Paper	0	3,300,000		
27	EKPC-Power Bill Prepayment	2,785,677	0		
28	KAEC-PCB Deloxification Certificate	5,000	0		
<b>Total: 8. TEMPORARY INVESTMENTS</b>		<b>2,828,731</b>	<b>3,555,835</b>		

**9. ACCOUNTS & NOTES RECEIVABLE - NET**

29	Springfield/Washington Co. Econ. Dev. Authority	493,500	0	0	X
30	Nelson County Fiscal Court	3,175,174	0	0	X
31	Other Accounts Receivable	0	101,310	0	

USDA-RUS <b>FINANCIAL AND STATISTICAL REPORT</b>	BORROWER DESIGNATION KY0021
INSTRUCTIONS-See RUS Bulletin 1717B-2	PERIOD ENDED 12/2004

Line No.	Description (a)	Included (\$) (b)	Excluded (\$) (c)	Income or Loss (\$) (d)	Rural Development (e)
32	Comfort Loans	40,020	0	0	
<b>Total: 9. ACCOUNTS &amp; NOTES RECEIVABLE - NET</b>		<b>3,708,694</b>	<b>101,310</b>	<b>0</b>	
<b>2. INVESTMENTS IN ASSOCIATED ORGANIZATIONS</b>					
33	CFC Patronage Capital	0	12,374	41,246	
<b>Total: 2. INVESTMENTS IN ASSOCIATED ORGANIZATIONS</b>		<b>272,855</b>	<b>15,975,341</b>	<b>196,652</b>	
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
60					
<b>11. TOTAL INVESTMENTS</b>		<b>7,803,300</b>	<b>20,794,174</b>	<b>196,652</b>	

USDA-RUS <b>FINANCIAL AND STATISTICAL REPORT</b>	BORROWER DESIGNATION KY0021
	PERIOD ENDED 12/2004

INSTRUCTIONS-See RUS Bulletin 1717B-2

**7a - Part II. Loan Guarantees/Part III. Ratio**

Line No.	Organization (a)	Maturity date (b)	Original Amount (\$) (c)	Loan Balance (\$) (d)	Rural Development (e)
1			0	0	
2			0	0	
3			0	0	
4			0	0	
5			0	0	
6			0	0	
7			0	0	
8			0	0	
9			0	0	
10			0	0	
<b>TOTALS</b>			0	0	
<b>TOTAL (included Loan Guarantees only)</b>			0	0	

Ratio of Investments and Loan Guarantees to Utility Plant [Total of Included Investments (Part I, 11b) and Loan Guarantees - Loan Balance (Part II, 5d) to Total Utility Plant (Form 7, Part C, Line 3)]

8.3 %

USDA-RUS  
**FINANCIAL AND STATISTICAL REPORT**

BORROWER DESIGNATION

KY0021

PERIOD ENDED

12/2004

INSTRUCTIONS-See RUS Bulletin 1717B-2

**7a - Part IV. Loans**

Line No.	Organization (a)	Maturity date (b)	Original Amount (\$) (c)	Loan Balance (\$) (d)	Rural Development (e)
1	Employees, Officers, Directors		0	0	
2	Energy Resource Conservation Loans		0	0	
3			0	0	
4			0	0	
5			0	0	
6			0	0	
7			0	0	
8			0	0	
9			0	0	
10			0	0	
11			0	0	
12			0	0	
13			0	0	
14			0	0	
15			0	0	
<b>TOTALS</b>			0	0	

# SUBSTATION LOADING TABLE

	MAX. LIMIT		PROJECTED		PROJECTED		PROJECTED		WITH SPOT LOAD		WITH SPOT LOAD		
	SUMMER RATING	WINTER RATING	SUMMER PERCENT CAPACITY	WINTER PERCENT CAPACITY	2007 SUMMER	2008 WINTER	2007 SUMMER	2008 WINTER	SPOT LOADS	2007 SUMMER	2008 WINTER	PERCENT CAPACITY	PERCENT CAPACITY
TATION	13,622	17,180	69	72	10870	14311	80	83		10870	14311	80	83
TOWN	9,815	13,744	81	69	9180	10863	94	79		9180	10863	94	79
STOWN SHOP. CIR.	5,595	7,452	80	65	5159	5553	95	75		5159	5553	95	75
A	11,077	13,744	90	49	11433	7754	103	56		11433	7754	103	56
AH BEAM	9,815	13,744	56	53	8717	8455	65	62	3000	11717	11783	106	86
MFIELD	11,077	13,744	68	56	12893	9644	95	70	2000	14893	11644	109	85
BLICK	13,622	13,744	82	61	11938	15496	88	90		11938	15496	88	90
JKS	13,622	17,180	76	78	10321	11905	72	83		10321	11905	72	83
AR GROVE	14,429	14,429	62	72	13464	17434	99	101	750	14214	18184	104	106
WIN THOMAS	13,622	17,180	86	88	3611	4546	27	33		3611	4546	27	33
BARDESTOWN	13,622	13,744	23	29	6169	5858	63	45		6169	5858	63	45
DRICKSBURG	9,815	13,146	55	39	9692	13845	88	101		9692	13845	88	101
PEL HILL	11,077	13,744	76	88	2471	2637	112	71		2471	2637	112	71
TICHENOR	2,205	3,735	71	61	3579	3439	81	50		3579	3439	81	50
JB CREEK	4,410	6,872	71	44	3664	3994	74	59		3664	3994	74	59
ANON JUNCTION #1	4,922	6,823	65	51	12819	10674	91	74		12819	10674	91	74
ANON JUNCTION #2	13,622	14,429	82	64	8074	11130	73	81		8074	11130	73	81
WASHINGTON	11,077	13,744	63	70	13411	9358	98	65	750	14161	10108	103	70
JTH SPRINGFIELD	13,622	14,429	86	56	9203	6642	68	48	8500	17703	15142	136	110
ASANT GROVE	13,622	14,429	59	42	10225	8765	92	64	0	10225	8765	92	64
PHERSVILLE #1	11,077	13,744	80	55	3652	4457	58	65		3652	4457	58	65
PHERSVILLE #2	6,266	6,823	51	57	10763	13417	79	83	750	11513	14167	85	98
JTH SPRINGFIELD	13,622	14,429	69	81	14284	11613	105	80		14284	11613	105	80
LORSVILLE	13,622	14,429	76	70	11930	15478	88	90	1500	13430	16978	99	99
MT. WASHINGTON	13,622	17,180	76	78	3149	3991	67	64	750	3899	4741	83	76
ST BARDSTOWN	4,700	6,260	58	55									

TALS 197430 208731 227045 240041 245044 258040

TALS	14,429	14,429
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\*\* LITTLE MOUNT TO RELIEVE LOADING ON TAYLORSVILLE IN 2006  
 \*\* MT WASHINGTON TO BE UPGRADED TO 20 MVA IN 2005 TO RELIEVE LOAD ON W MT WASHINGTON, PLEASANT GROVE AND BEULAH BEAM  
 \*\* EAST BARDSTOWN TO BE UPGRADED OR REPLACED IN 2006  
 \*\* CEDAR GROVE INDUSTRIAL PARK TO BE ADDED IN 2007

\*\*\*\* FLAGGED AT 90 %



## STATUS OF 2000-2002 CONSTRUCTION WORK PLAN

SERIES	
301	CARRYOVER
302	CARRYOVER
303	CARRYOVER
304	CARRYOVER
305	COMPLETED
306	COMPLETED
307	DELETED
308	COMPLETED
309	DELETED
310	DELETED
311	COMPLETED
312	COMPLETED
313	DELETED
314	DELETED
315	COMPLETED
316	COMPLETED
317	COMPLETED
318	COMPLETED
319	DELETED
320	DELETED
321	DELETED
322	DELETED
323	DELETED
324	COMPLETED
325	DELETED
326	DELETED
327	DELETED
328	DELETED
329	COMPLETED
330	COMPLETED
331	COMPLETED
332	COMPLETED
333	DELETED
334	DELETED
335	COMPLETED
336	DELETED
337	COMPLETED
338	COMPLETED
339	DELETED
340	DELETED
341	COMPLETED
342	COMPLETED
343	COMPLETED
344	COMPLETED
345	COMPLETED
346	COMPLETED
347	COMPLETED
348	COMPLETED
349	COMPLETED
350	COMPLETED
351	COMPLETED
352	DELETED
353	DELETED
354	DELETED
355	DELETED
356	DELETED
357	DELETED
358	DELETED
359	DELETED
360	DELETED
361	DELETED

**SALT RIVER ELECTRIC SYSTEM PLANNING REPORT**  
**DISTRIBUTION COST SUMMARY**  
**2005-2008 WORK PLAN**

SUBSTATION	FEDER NUMBER	RUS CODE	NEW CONDUCTOR SIZE	COST PER MILE	NO. OF MILES	EXTENDED COST
BALTOON	F1 F2 & F4	301 302	3 PHASE 2ACWC TO 3 PHASE 336.4 ACSR D.C. 2ACWC TO D.C. 336.4 ACSR	\$73,000 \$130,000	3.13 1.70	\$226,490 \$221,000
BARDSTOWN SHOPPING CENTER	F2	303	3 PHASE 2ACWC TO 3 PHASE 336.4 ACSR	\$73,000	2.98	\$217,540
BLOOMFIELD	F4	304	3 PHASE 1\0 CU TO 3 PHASE 336.4 ACSR	\$73,000	1.47	\$107,310
BLUE LICK	F4	305	3 PHASE 2ACWC TO 3 PHASE 336.4 ACSR	\$73,000	0.73	\$54,020
NORTH SPRINGFIELD	F5	306	3 PHASE 2ACWC TO 3 PHASE 336.4 ACSR	\$73,000	3.73	\$272,290
SEVENSVILLE Shepherdville Substation to Cedar Grove Industrial Park	F5	307	795 ACSR	\$100,000	2.74	\$274,000
WEST BARDSTOWN	F1 F2 F4 & F5	308 309 310	3 PHASE 1\0 CU TO 3 PHASE 336.4 ACSR 3 PHASE 1\0 CU TO 3 PHASE 336.4 ACSR D.C. 1\0 CU TO D.C. 336.4 ACSR	\$73,000 \$73,000 \$130,000	1.46 1.18 4.12	\$106,580 \$86,140 \$535,600
JOE TICHENOR Joe Tichenor to Cox's Creek Elementary School	F1	311	3 PHASE 6ACWC TO 3 PHASE 336.4 ACSR	\$73,000	0.64	\$46,720
DARREN THOMAS Plum Ridge Road	F4	312	1 PHASE 6ACWC TO 3 PHASE 1\0 ACSR	\$55,000	1.79	\$98,450
FREDRICKSBURG Maud Hill to Campground Church Road Hardney Road Cane Run Road to Borders Road	F2 F3 F4	313 314 315	3 PHASE 6ACWC TO 3 PHASE 336.4 ACSR 1 PHASE 6ACWC TO 3 PHASE 1\0 ACSR 2 PHASE 6ACWC TO 3 PHASE 336.4 ACSR	\$73,000 \$51,000 \$75,000	3.13 0.33 2.59	\$228,490 \$51,150 \$189,070
BALTOON Bueba Road	F1	316	CONDUCTOR REPLACEMENT 1 PHASE 6ACWC TO 3 PHASE 1\0 ACSR	\$44,000	2.40	\$105,600
NORTH SPRINGFIELD Tatum Ridge Road	F5	317	CONDUCTOR REPLACEMENT 1 PHASE 6ACWC TO 3 PHASE 1\0 ACSR	\$44,000	4.10	\$180,400
WEST BARDSTOWN Bennetts Lane	F5	318	CONDUCTOR REPLACEMENT 1 PHASE 6ACWC TO 3 PHASE 1\0 ACSR	\$44,000	1.00	\$44,000
BROOKS Mt Blair Road	F5	319	CONDUCTOR REPLACEMENT 1 PHASE 6ACWC TO 3 PHASE 1\0 ACSR	\$44,000	2.50	\$110,000
WEST BARDSTOWN Lutheran Church Road	F1	320	CONDUCTOR REPLACEMENT 1 PHASE 6ACWC TO 3 PHASE 1\0 ACSR	\$44,000	1.10	\$48,400
BALTOON Jim Clark Road	F1	321	CONDUCTOR REPLACEMENT 1 PHASE 6ACWC TO 3 PHASE 1\0 ACSR	\$44,000	2.30	\$101,200
					TOTAL	\$3,506,450

0005-2008 CONSTRUCTION WORK PLAN  
 SECTIONALIZING EQUIPMENT (SERIES 603)

NEW OCR (VACUUM)	90	\$2,000	\$180,000
UPGRADE EXISTING OCR	75	\$300	\$22,500
CUTOUTS	560	\$100	\$56,000
OCR MAINTENANCE	450	\$110	\$49,500
AIR BREAK SWITCHES (GAOE)	36	\$5,000	\$180,000
TOTAL			\$488,000

DISTRIBUTION LINE VOLTAGE REGULATORS

CFR CODE: 604

ESTIMATED COST: \$623,400

BALLTOWN	F1	1 PHASE 100 AMP REGULATOR	\$6,300
	F1	3 PHASE 150 AMP REGULATOR BANK	\$23,600
	F1	3 PHASE 150 AMP REGULATOR BANK	\$23,600
BLOOMFIELD	F4	3 PHASE 300 AMP REGULATOR BANK	\$26,600
	F4	3 PHASE 150 AMP REGULATOR BANK	\$23,600
	F1	1 PHASE 100 AMP REGULATOR	\$6,300
	F2	1 PHASE 100 AMP REGULATOR	\$6,300
BROOKS	F5	1 PHASE 100 AMP REGULATOR	\$6,300
EAST BARDSTOWN	F2	1 PHASE 100 AMP REGULATOR	\$6,300
	F2	1 PHASE 100 AMP REGULATOR	\$6,300
	F1	3 PHASE 300 AMP REGULATOR BANK	\$26,600
CEDAR GROVE	F2	1 PHASE 100 AMP REGULATOR	\$6,300
	F2	1 PHASE 100 AMP REGULATOR	\$6,300
	F5	3 PHASE 300 AMP REGULATOR BANK	\$26,600
	F4	3 PHASE 150 AMP REGULATOR BANK	\$23,600
	F3	3 PHASE 150 AMP REGULATOR BANK	\$23,600
NORTH SPRINGFIELD	F5	3 PHASE 300 AMP REGULATOR BANK	\$26,600
	F1	3 PHASE 300 AMP REGULATOR BANK	\$26,600
	F5	1 PHASE 100 AMP REGULATOR	\$6,300
	F5	1 PHASE 100 AMP REGULATOR	\$6,300
PLEASANT GROVE	F1	3 PHASE 150 AMP REGULATOR BANK	\$23,600
	F4	1 PHASE 100 AMP REGULATOR	\$6,300
SHEPHERDSVILLE #1	F3	3 PHASE 150 AMP REGULATOR BANK	\$23,600
SHEPHERDSVILLE #2	F6	3 PHASE 150 AMP REGULATOR BANK	\$23,600
SOUTH SPRINGFIELD	F5	1 PHASE 100 AMP REGULATOR	\$6,300
	F2	3 PHASE 150 AMP REGULATOR BANK	\$23,600
TAYLORSVILLE	F3	3 PHASE 300 AMP REGULATOR BANK	\$26,600
WEST BARDSTOWN	F5	3 PHASE 150 AMP REGULATOR BANK	\$23,600
JOE TICHENOR	F2	3 PHASE 300 AMP REGULATOR BANK	\$26,600
	F3	3 PHASE 150 AMP REGULATOR BANK	\$23,600
	F3	1 PHASE 100 AMP REGULATOR	\$6,300
	F4	3 PHASE 300 AMP REGULATOR BANK	\$26,600
DARWIN THOMAS	F2	1 PHASE 100 AMP REGULATOR	\$6,300
	F3	3 PHASE 300 AMP REGULATOR BANK	\$26,600
	F4	1 PHASE 100 AMP REGULATOR	\$6,300
FREDRICKSBURG	F1	1 PHASE 100 AMP REGULATOR	\$6,300
	F3	3 PHASE 150 AMP REGULATOR BANK	\$23,600

TOTAL \$623,400

2005-2008 CONSTRUCTION WORK PLAN  
CAPACITORS (SERIES 605)

FIXED CAPACITORS	28	\$1,640	\$45,920
SWITCHED CAPACITORS	42	\$2,840	\$119,280
TOTAL			\$165,200

YEAR: 2006

PROJECT NAME: Balltown Substation to Ky 49

CFR CODE: 301\*

ESTIMATED COST: \$228,490

DESCRIPTION OF PROPOSED CONSTRUCTION:

A 3.13 mile conversion of three phase 2ACWC to three phase 336.4 ACSR through KY 46 to KY 49 in southeastern Nelson County.

REASON FOR PROPOSED CONSTRUCTION:

Design criteria not met include 1,2 and 5. This feeder has 923 customers and 5000 KW through it. There is one set of existing three phase regulators on this circuit. Ampacity levels of 100% will be corrected by this conversion.

RESULTS OF PROPOSED CONSTRUCTION:

All design criteria will be met with this project.

ALTERNATIVE CORRECTIVE PLANS INVESTIGATED:

No alternatives were investigated because of the ampacity levels and the existing set of three phase regulators.

\* Carryover from 2000-2002 CWP

YEAR: 2007

PROJECT NAME: Balltown Substation to Ky 46

CFR CODE: 302

ESTIMATED COST: \$221,000

DESCRIPTION OF PROPOSED CONSTRUCTION:

This conversion consists of 1.70 mile of double circuit 2acwc to double circuit 336.4 acsr through US 31E to Ky 46 at Culvertown.

REASON FOR PROPOSED CONSTRUCTION

This project will correct voltage problems on circuits 02 & 04 that dip to 113 and 115 volts.

RESULTS OF PROPOSED CONSTRUCTION:

By constructing this project all items not being met above will be corrected.

ALTERNATIVE CORRECTIVE PLANS INVESTIGATED:

Alternative number 2 includes the installation of three sets of three phase regulators. This plan is not as reliable. Economic analysis of this plan suggests that the conversion is the best option.

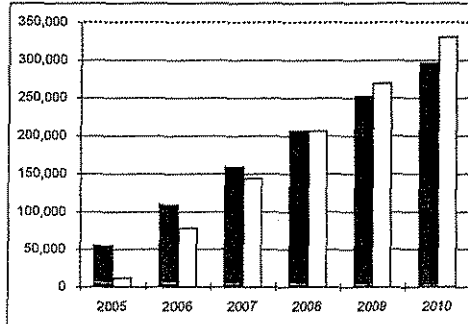
## COMPARISON OF TOTAL ACCUMULATED COST and kWh LOSSES OF PLAN 1 vs PLAN 2

*(All costs are the the accumulated present worth of the inflated cost)*

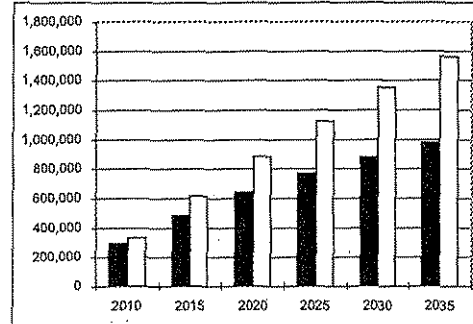
### TOTAL COSTS (\$)

YEAR	PLAN 1	PLAN 2
2005	55,700	11,900
2006	108,600	78,400
2007	159,000	143,500
2008	207,000	207,200
2009	252,700	269,600
2010	296,400	330,800
2015	487,500	619,600
2020	642,500	883,600
2025	770,900	1,126,500
2030	879,600	1,351,400
2035	979,500	1,562,500

For first 6 years, favors PLAN 1 by 10.4%



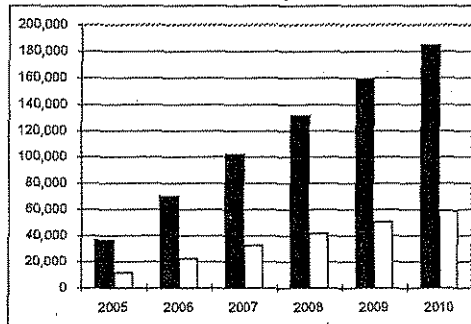
At 30 years, favors PLAN 1 by 37.3%



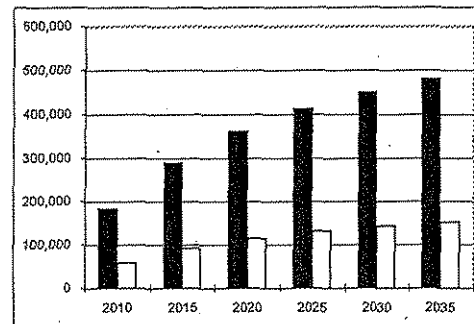
### TOTAL CAPITALIZED COSTS (\$)

YEAR	PLAN 1	PLAN 2
2005	36,490	11,690
2006	70,480	22,580
2007	102,150	32,720
2008	131,650	42,180
2009	159,130	50,980
2010	184,740	59,180
2015	288,800	92,500
2020	361,800	115,900
2025	413,000	132,300
2030	449,000	143,800
2035	480,400	153,900

For first 6 years, favors PLAN 2 by 68.0%



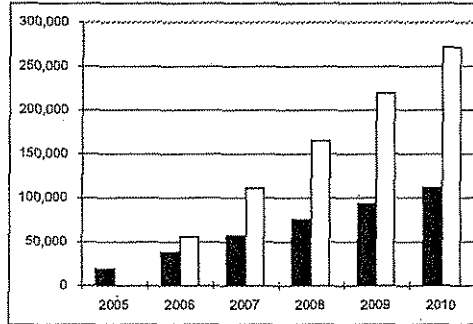
At 30 years, favors PLAN 2 by 68.0%



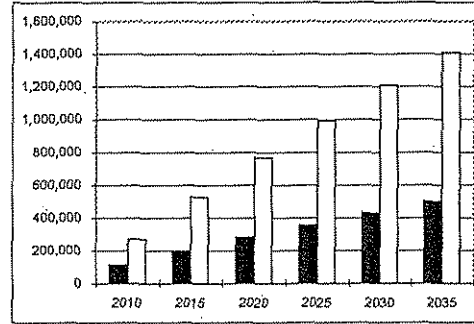
### TOTAL COST OF LOSSES (\$)

YEAR	PLAN 1	PLAN 2
2005	19,180	210
2006	38,130	55,810
2007	56,850	110,750
2008	75,340	165,020
2009	93,610	218,640
2010	111,668	271,617
2015	198,700	527,100
2020	280,700	767,700
2025	357,900	994,200
2030	430,600	1,207,600
2035	499,100	1,408,600

For first 6 years, favors PLAN 1 by 58.9%



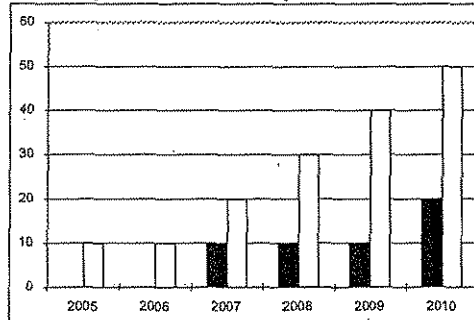
At 30 years, favors PLAN 1 by 64.6%



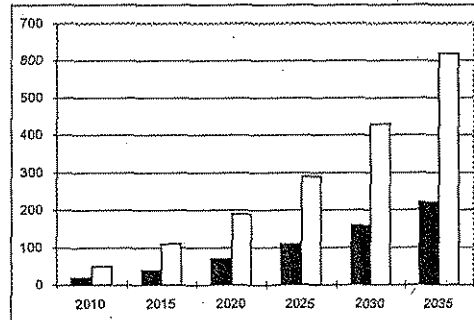
### TOTAL ACCUMULATED LOSSES (MWH)

YEAR	PLAN 1	PLAN 2
2005	0	10
2006	0	10
2007	10	20
2008	10	30
2009	10	40
2010	20	50
2015	40	110
2020	70	190
2025	110	290
2030	160	430
2035	220	620

For first 6 years, favors PLAN 1 by 60.0%



At 30 years, favors PLAN 1 by 64.5%



2.95% Given annual inflation rate  
7.34% Given annual present worth rate

PLAN 1 PLAN 1 BALLTOWN FDR 02 & 04 WITH LINE CONVERSION  
 PLAN 2 PLAN 2 BALLTOWN FDR 02 & 04 WITH REGULATORS



**ANNUAL & ACCUMULATED TOTALS of the PRESENT WORTH of the INFLATED COSTS of CARRYING CHARGES, MAINTENANCE and LOSSES**

PLAN: PLAN 1 BALTOWN FDR 02 & 04 WITH LINE CONVERSION  
 COMPANY: SALT RIVER ELECTRIC

ENGINEER: GARY PILE  
 DATE: 03/15/05

2005	PRESENT YEAR (First year of plan)
2.95	ANNUAL INFLATION RATE (%)
7.34	BLENDED INTEREST RATE (%) (& Present Worth Factor)
0.06	TAX RATE (%)
4.47	DEPRECIATION RATE (%)
4.64	OPERATIONS & MAINTENANCE RATE (%)
16.51%	FIXED CHARGE RATE (Sum of Above)

5.22	DEMAND COST (\$/KW/MONTH)
0.030	ENERGY COST (\$/KWH)
305.0	CIRCUIT or AREA MONTHLY AVERAGE PEAK DEMAND LOSSES (KW)
3.0	CIRCUIT or AREA ANNUAL GROWTH RATE (%)
0.55	ANNUAL LOAD FACTOR (%) (~ 40 to 90%)
0.001	CALCULATED LOSS FACTOR

DECREASE IN CIRCUIT PEAK DEMAND LOSSES (Optional)  
 YEAR DECREASE EXPECTED  
 AMOUNT (KW) (Present Year)

**PLAN 1 SUMMARY (Accumulated Totals, Rounded Off)**

YEAR	MWH LOSSES	PRESENT WORTH OF INFLATED COST (\$)		TOTALS
		FIXED CHARGES	MAINTENANCE	
2010	20	184,700	0	111,700
2015	40	288,800	0	198,700
2020	70	361,800	0	280,700
2025	110	413,000	0	357,900
2030	160	449,000	0	430,600
2035	220	480,400	0	499,100

TOTAL COST OF NEW CONSTRUCTION: \$221,000 -2005 DOLLARS  
 TOTAL COST OF ADDED MAINTENANCE: 0 -2005 DOLLARS

YEAR	DESCRIPTION of NEW CONSTRUCTION or ADDITIONAL MAINTENANCE	PRESENT ESTIMATED COST (\$)	CONSTRUCTION MAINTENANCE	CALCULATED LOSSES		YEARLY TOTAL PRESENT WORTH OF INFLATED COSTS (\$)	
				PEAK KW (avg./mo.)	Annual KWH Accum. KWH	ANNUAL for Year (Top)	ACCUMULATED through Year (Bottom)
2005	1.7 MILE D.C. 397 SPACER CABLE	221,000		305.0	2,419	36,487	19,178
2006				314.2	2,566	33,992	18,947
2007				323.6	2,723	31,668	18,720
2008				333.3	2,889	29,502	18,495
2009				343.3	3,064	27,485	18,273
2010				353.6	3,251	25,805	18,054
					16,912	184,739	111,668
						55,665	55,665
						50,388	50,388
						158,992	158,992
						47,997	47,997
						206,990	206,990
						45,758	45,758
						252,748	252,748
						43,659	43,659
						296,407	296,407

YEAR	DESCRIPTION OF NEW CONSTRUCTION or ADDITIONAL MAINTENANCE	PRESENT ESTIMATED COST (\$)		CALCULATED LOSSES		YEARLY TOTAL PRESENT WORTH OF INFLATED COST (\$)			
		CONSTRUCTION	MAINTENANCE	PEAK KW	ANNUAL KWH	FIXED CHARGES	MAINTENANCE	LOSSES	ROW TOTALS
2011				364.2	3,449	23,854	0	17,837	41,692
					20,361	208,594	0	129,505	338,099
2012				375.1	3,669	22,223	0	17,623	39,847
					24,020	230,817	0	147,128	377,945
2013				386.4	3,882	20,704	0	17,412	38,116
					27,902	251,521	0	164,541	416,061
2014				398.0	4,118	19,288	0	17,204	36,491
					32,020	270,809	0	181,744	452,553
2015				409.9	4,369	17,969	0	16,998	34,966
					36,390	288,778	0	198,742	487,519

YEAR	CALCULATED LOSSES		ANNUAL PRESENT WORTH OF INFLATED COST (\$)			
	PEAK KW	ANNUAL KWH	FIXED CHARGES	MAINTENANCE	LOSSES	ROW TOTALS
2016	422.2	4,635	16,740	0	16,794	33,534
2017	434.9	4,917	15,596	0	16,593	32,188
2018	447.9	5,217	14,529	0	16,394	30,924
2019	461.3	5,535	13,536	0	16,198	29,734
2020	475.2	5,872	12,610	0	16,005	28,615
2021	489.4	6,229	11,748	0	15,813	27,561
2022	504.1	6,609	10,944	0	15,625	26,569
2023	519.2	7,011	10,196	0	15,438	25,634
2024	534.8	7,438	9,499	0	15,254	24,753
2025	550.9	7,891	8,849	0	15,072	23,921
2026	567.4	8,372	8,244	0	14,892	23,136
2027	584.4	8,882	7,680	0	14,715	22,395
2028	601.9	9,422	7,155	0	14,539	21,695
2029	620.0	9,996	6,666	0	14,366	21,032
2030	638.6	10,605	6,210	0	14,195	20,405
2031	657.8	11,251	5,785	0	14,027	19,812
2032	677.5	11,936	5,390	0	13,860	19,250
2033	697.8	12,663	5,021	0	13,695	18,717
2034	718.8	13,434	4,678	0	13,533	18,211
2035	740.3	14,252	4,358	0	13,372	17,730

**ANNUAL & ACCUMULATED TOTALS of the PRESENT WORTH of the INFLATED COSTS of CARRYING CHARGES, MAINTENANCE and LOSSES**

PLAN: PLAN 2 BALLTOWN FDR 02 & 04 WITH REGULATORS  
 COMPANY: SALT RIVER ELECTRIC

ENGINEER: GARY PILE  
 DATE: 03/15/05

2005	PRESENT YEAR (First year of plan)
2.95	ANNUAL INFLATION RATE (%)
7.34	BLENDED INTEREST RATE (%) (& Present Worth Factor)
0.06	TAX RATE (%)
4.47	DEPRECIATION RATE (%)
4.64	OPERATIONS & MAINTENANCE RATE (%)
16.51%	FIXED CHARGE RATE (Sum of Above)

5.22	DEMAND COST (\$/KW/MONTH)
0.030	ENERGY COST (\$/KWH)
895.00	CIRCUIT or AREA PEAK MONTHLY AVERAGE DEMAND LOSSES (KW)
3.0	CIRCUIT or AREA ANNUAL GROWTH RATE (%)
0.55	ANNUAL LOAD FACTOR (%) (~ 40 to 90%)
0.001	CALCULATED LOSS FACTOR

	DECREASE IN CIRCUIT PEAK DEMAND LOSSES (Optional)
	YEAR DECREASE EXPECTED
	AMOUNT (KW) (Present Year)

**PLAN 1 SUMMARY (Accumulated Totals, Rounded Off)**

YEAR	MWH LOSSES	PRESENT WORTH OF INFLATED COST (\$)		TOTALS
		FIXED CHARGES	MAINTENANCE	
2010	50	59,200	0	330,800
2015	110	92,500	0	619,600
2020	190	115,900	0	883,600
2025	290	132,300	0	1,126,500
2030	430	143,800	0	1,351,400
2035	620	153,900	0	1,562,500

TOTAL COST OF NEW CONSTRUCTION: \$70,800      -2005 DOLLARS  
 TOTAL COST OF ADDED MAINTENANCE: 0      -2005 DOLLARS

YEAR	DESCRIPTION of NEW CONSTRUCTION or ADDITIONAL MAINTENANCE	PRESENT ESTIMATED COST (\$)		YEARLY TOTAL PRESENT WORTH OF INFLATED COSTS (\$)	
		CONSTRUCTION	MAINTENANCE	ANNUAL for Year (Top)	ACCUMULATED through Year (Bottom)
2005	3 PHASE 150 AMP REGULATOR	23,600		11,689	11,902
	3 PHASE 150 AMP REGULATOR	23,600		11,689	11,902
	3 PHASE 150 AMP REGULATOR	23,600			
2006				10,890	66,490
				22,579	78,392
2007				10,145	65,077
				32,724	143,469
2008				9,451	63,724
				42,175	207,194
2009				8,805	62,426
				50,980	269,620
2010				8,203	61,181
				59,183	330,801

YEAR	DESCRIPTION of NEW CONSTRUCTION or ADDITIONAL MAINTENANCE	PRESENT ESTIMATED COST (\$)		CALCULATED LOSSES		YEARLY TOTAL PRESENT WORTH OF INFLATED COST (\$)			
		CONSTRUCTION	MAINTENANCE	PEAK KW	ANNUAL KWH	FIXED CHARGES	MAINTENANCE	LOSSES	ROW TOTALS
2011				1068.7	10,121	7,642	0	52,342	59,985
					59,748	66,826	0	323,960	390,785
2012				1100.7	10,737	7,119	0	51,715	58,834
					70,485	73,945	0	375,675	449,620
2013				1133.8	11,391	6,633	0	51,095	57,728
					81,877	80,578	0	426,770	507,347
2014				1167.8	12,085	6,179	0	50,483	56,662
					93,962	86,757	0	477,252	564,009
2015				1202.8	12,821	5,757	0	49,878	55,635
					106,782	92,513	0	527,130	619,644

YEAR	CALCULATED LOSSES		ANNUAL PRESENT WORTH OF INFLATED COST (\$)			
	PEAK KW	ANNUAL KWH	FIXED CHARGES	MAINTENANCE	LOSSES	ROW TOTALS
2016	1238.9	13,602	5,363	0	49,281	54,644
2017	1276.1	14,430	4,996	0	48,691	53,687
2018	1314.3	15,309	4,655	0	48,108	52,763
2019	1353.8	16,241	4,336	0	47,533	51,869
2020	1394.4	17,230	4,040	0	46,965	51,004
2021	1436.2	18,279	3,764	0	46,403	50,167
2022	1479.3	19,393	3,506	0	45,849	49,355
2023	1523.7	20,574	3,266	0	45,302	48,568
2024	1569.4	21,827	3,043	0	44,761	47,804
2025	1616.5	23,156	2,835	0	44,227	47,062
2026	1665.0	24,566	2,641	0	43,700	46,341
2027	1714.9	26,062	2,461	0	43,179	45,639
2028	1766.4	27,649	2,292	0	42,665	44,957
2029	1819.4	29,333	2,136	0	42,157	44,292
2030	1873.9	31,120	1,989	0	41,655	43,645
2031	1930.1	33,015	1,853	0	41,160	43,013
2032	1988.1	35,025	1,727	0	40,671	42,397
2033	2047.7	37,158	1,609	0	40,188	41,796
2034	2109.1	39,421	1,499	0	39,711	41,209
2035	2172.4	41,822	1,396	0	39,240	40,636

YEAR: 2007

PROJECT NAME: Bardstown Shopping Center Substation to Botland

CFR CODE: 303

ESTIMATED COST: \$217,540

DESCRIPTION OF PROPOSED CONSTRUCTION:

This project will consist of a 2.98 mile conversion of three phase 2acwc to three phase 336.4 ACSR from Bardstown to Botland along US 150 in central Nelson County.

REASON FOR PROPOSED CONSTRUCTION:

This job will correct voltage problems on circuit 02 and provide better reliability to a faster than normal growing area.

RESULTS OF PROPOSED CONSTRUCTION:

This project will provide for Design Criteria #1 to be met.

ALTERNATIVE CORRECTIVE PLANS INVESTIGATED:

The alternative would be to install one set of regulators on this feeder. This alternative proved to be the most economic. Due to the growth in this area and the backfeeding capabilities for important loads on this circuit along with the load being forecast for this three year period it was determined that this alternative would be a temporary solution at best.

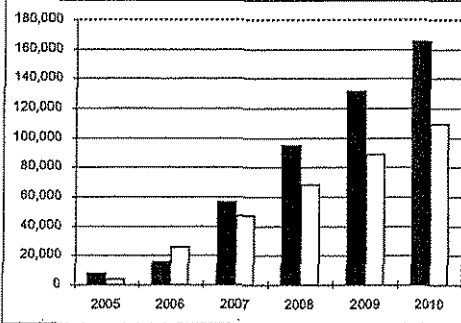
## COMPARISON OF TOTAL ACCUMULATED COST and kWh LOSSES OF PLAN 1 vs PLAN 2

*(All costs are the the accumulated present worth of the inflated cost)*

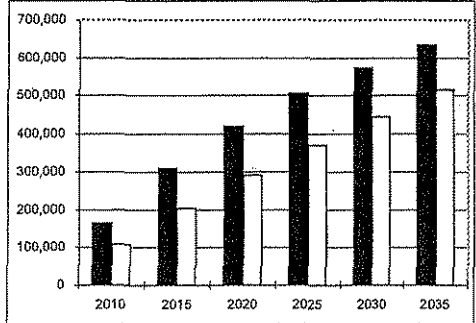
### TOTAL COSTS (\$)

YEAR	PLAN 1	PLAN 2
2005	8,000	4,000
2006	15,900	25,900
2007	56,700	47,400
2008	95,200	68,400
2009	131,500	89,100
2010	165,700	109,300
2015	310,500	204,500
2020	420,800	291,600
2025	508,400	371,800
2030	574,200	445,900
2035	635,500	515,500

For first 6 years, favors PLAN 2 by 34.0%



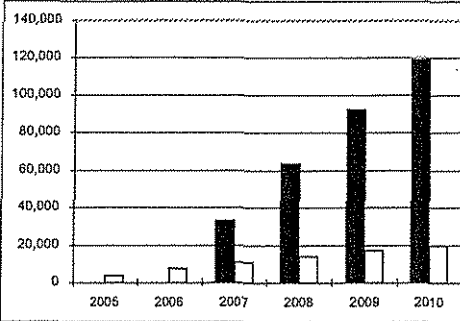
At 30 years, favors PLAN 2 by 18.9%



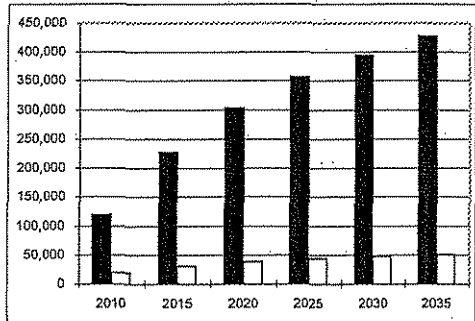
### TOTAL CAPITALIZED COSTS (\$)

YEAR	PLAN 1	PLAN 2
2005	0	3,900
2006	0	7,530
2007	33,040	10,910
2008	63,820	14,060
2009	92,490	16,990
2010	119,200	19,730
2015	227,700	30,800
2020	303,900	38,600
2025	357,400	44,100
2030	394,900	47,900
2035	427,700	51,300

For first 6 years, favors PLAN 2 by 83.4%



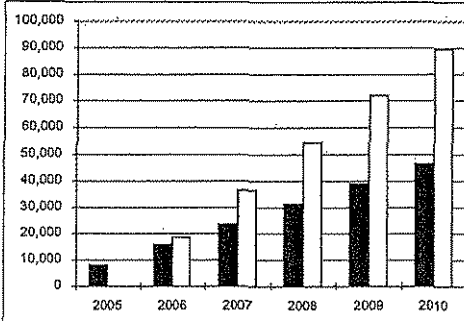
At 30 years, favors PLAN 2 by 88.0%



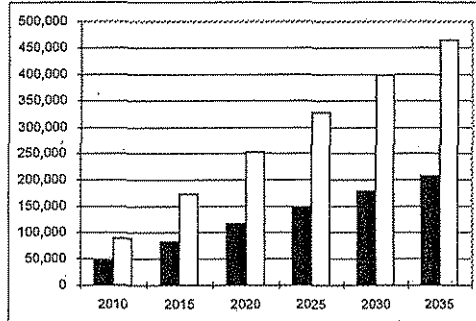
### TOTAL COST OF LOSSES (\$)

YEAR	PLAN 1	PLAN 2
2005	7,990	70
2006	15,880	18,400
2007	23,670	36,500
2008	31,370	54,390
2009	38,980	72,070
2010	46,498	89,528
2015	82,800	173,700
2020	116,900	253,000
2025	149,000	327,700
2030	179,300	398,000
2035	207,800	464,200

For first 6 years, favors PLAN 1 by 48.1%



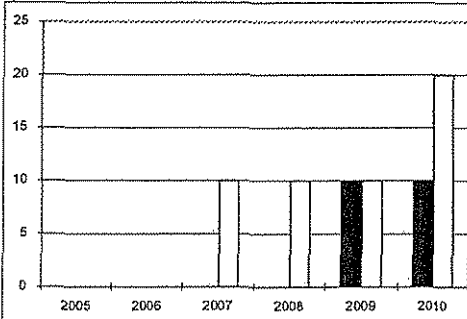
At 30 years, favors PLAN 1 by 55.2%



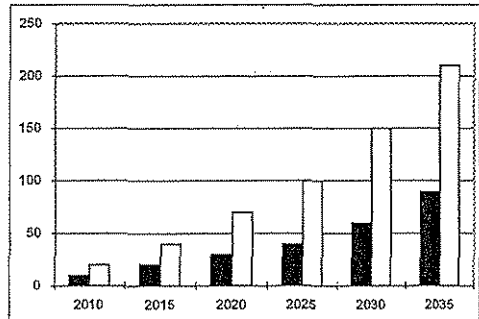
### TOTAL ACCUMULATED LOSSES (MWH)

YEAR	PLAN 1	PLAN 2
2005	0	0
2006	0	0
2007	0	10
2008	0	10
2009	10	10
2010	10	20
2015	20	40
2020	30	70
2025	40	100
2030	60	150
2035	90	210

For first 6 years, favors PLAN 1 by 50.0%



At 30 years, favors PLAN 1 by 57.1%



2.95% Given annual inflation rate  
7.34% Given annual present worth rate

PLAN 1 PLAN 1 BTOWN SHOP CTR FDR 02 WITH LINE CONVERSION  
 PLAN 2 PLAN 2 BTOWN SHOPPING CTR FDR 02 WITH REGULATORS

**ANNUAL & ACCUMULATED TOTALS of the PRESENT WORTH of the INFLATED COSTS of CARRYING CHARGES, MAINTENANCE and LOSSES**

PLAN: PLAN 1 BLOWN SHOP CTR FDR 02 WITH LINE CONVERSION  
 COMPANY: SALT RIVER ELECTRIC

ENGINEER: GARY PILE  
 DATE: 03/22/06

2005	PRESENT YEAR (First year of plan)
2.95	ANNUAL INFLATION RATE (%)
7.34	BLENDED INTEREST RATE (%) (& Present Worth Factor)
0.06	TAX RATE (%)
4.47	DEPRECIATION RATE (%)
4.64	OPERATIONS & MAINTENANCE RATE (%)
16.51%	FIXED CHARGE RATE (Sum of Above)
5.22	DEMAND COST (\$/KW/MONTH)
0.030	ENERGY COST (\$/KWH)
127.0	CIRCUIT or AREA MONTHLY AVERAGE PEAK DEMAND LOSSES (kW)
3.0	CIRCUIT or AREA ANNUAL GROWTH RATE (%)
0.55	ANNUAL LOAD FACTOR (%) (~ 40 to 90%)
0.001	CALCULATED LOSS FACTOR

DECREASE IN CIRCUIT PEAK DEMAND LOSSES (Optional)  
 YEAR DECREASE EXPECTED  
 AMOUNT (kW) (Present Year)

PLAN 1 SUMMARY (Accumulated Totals, Rounded Off)

YEAR	MWH LOSSES	PRESENT WORTH OF INFLATED COST (\$)			TOTALS
		FIXED CHARGES	MAINTENANCE	LOSSES	
2010	10	119,200	0	46,500	165,700
2015	20	227,700	0	82,800	310,500
2020	30	303,900	0	116,900	420,800
2025	40	357,400	0	149,000	506,400
2030	60	394,900	0	179,300	574,200
2035	90	427,700	0	207,800	635,500

TOTAL COST OF NEW CONSTRUCTION: \$217,540      -2005 DOLLARS  
 TOTAL COST OF ADDED MAINTENANCE: 0      -2005 DOLLARS

YEAR	DESCRIPTION of NEW CONSTRUCTION or ADDITIONAL MAINTENANCE	PRESENT ESTIMATED COST (\$)		CALCULATED LOSSES		YEARLY TOTAL PRESENT WORTH OF INFLATED COSTS (\$)	
		CONSTRUCTION	MAINTENANCE	Annual kWh	Accum. kWh	ANNUAL for Year (Top)	ACCUMULATED through Year (Bottom)
2005				127.0	1,007	0	7,986
2006				130.8	1,069	0	7,986
2007	2.98 MILE 2ACWC TO 336.4 ACSR	217,540		134.7	1,134	33,038	7,986
2008				138.8	1,203	30,779	7,986
2009				142.9	1,276	28,674	7,986
2010				147.2	1,354	26,714	7,986

YEAR	DESCRIPTION of NEW CONSTRUCTION or ADDITIONAL MAINTENANCE	PRESENT ESTIMATED COST (\$)		CALCULATED LOSSES		YEARLY TOTAL PRESENT WORTH OF INFLATED COST (\$)			
		CONSTRUCTION	MAINTENANCE	PEAK KW	ANNUAL KWH	FIXED CHARGES	MAINTENANCE	LOSSES	ROW TOTALS
2011				151.6	1,436 8,478	24,987	0	7,427	32,314 198,017
2012				156.2	1,524 10,002	23,185	0	7,338	30,523 228,540
2013				160.9	1,616 11,618	21,600	0	7,250	28,850 257,390
2014				165.7	1,715 13,333	20,123	0	7,163	27,286 284,676
2015				170.7	1,819 15,152	18,747	0	7,078	25,824 310,500

YEAR	CALCULATED LOSSES		ANNUAL PRESENT WORTH OF INFLATED COST (\$)			
	PEAK KW	ANNUAL KWH	FIXED CHARGES	MAINTENANCE	LOSSES	ROW TOTALS
2016	175.8	1,930	17,465	0	6,993	24,458
2017	181.1	2,048	16,270	0	6,909	23,180
2018	186.5	2,172	15,158	0	6,827	21,984
2019	192.1	2,305	14,121	0	6,745	20,866
2020	197.9	2,445	13,156	0	6,664	19,820
2021	203.8	2,594	12,256	0	6,585	18,841
2022	209.9	2,752	11,418	0	6,506	17,924
2023	216.2	2,919	10,637	0	6,428	17,066
2024	222.7	3,097	9,910	0	6,352	16,261
2025	229.4	3,286	9,232	0	6,276	15,508
2026	236.3	3,486	8,601	0	6,201	14,802
2027	243.3	3,698	8,013	0	6,127	14,140
2028	250.6	3,923	7,465	0	6,054	13,519
2029	258.2	4,162	6,954	0	5,982	12,936
2030	265.9	4,416	6,479	0	5,911	12,390
2031	273.9	4,685	6,036	0	5,841	11,876
2032	282.1	4,970	5,623	0	5,771	11,394
2033	290.6	5,273	5,239	0	5,703	10,941
2034	299.3	5,594	4,880	0	5,635	10,515
2035	308.3	5,935	4,547	0	5,568	10,115



**ANNUAL & ACCUMULATED TOTALS of the PRESENT WORTH of the INFLATED COSTS of CARRYING CHARGES, MAINTENANCE and LOSSES**

PLAN: PLAN 2 B TOWN SHOPPING CTR FDR 02 WITH REGULATORS  
 COMPANY: SALT RIVER ELECTRIC

ENGINEER: GARY PILE  
 DATE: 03/22/05

2005	PRESENT YEAR (First year of plan)
2.95	ANNUAL INFLATION RATE (%)
7.34	BLENDED INTEREST RATE (%) (& Present Worth Factor)
0.06	TAX RATE (%)
4.47	DEPRECIATION RATE (%)
4.64	OPERATIONS & MAINTENANCE RATE (%)
16.51%	FIXED CHARGE RATE (Sum of Above)
5.22	DEMAND COST (\$/KWH/MONTH)
0.030	ENERGY COST (\$/KWH)
295.00	CIRCUIT or AREA PEAK MONTHLY AVERAGE DEMAND LOSSES (KW)
3.0	CIRCUIT or AREA ANNUAL GROWTH RATE (%)
0.55	ANNUAL LOAD FACTOR (%) (~ 40 to 90%)
0.001	CALCULATED LOSS FACTOR

DECREASE IN CIRCUIT PEAK DEMAND LOSSES (Optional)  
 YEAR DECREASE EXPECTED  
 AMOUNT (KW) (Present Year)

**PLAN 1 SUMMARY (Accumulated Totals, Rounded Off)**

YEAR	MWH LOSSES	PRESENT WORTH OF INFLATED COST (\$)		TOTALS
		FIXED CHARGES	MAINTENANCE	
2010	20	19,700	0	109,200
2015	40	30,800	0	204,500
2020	70	38,600	0	291,600
2025	100	44,100	0	371,800
2030	150	47,900	0	445,900
2035	210	51,300	0	515,500

TOTAL COST OF NEW CONSTRUCTION: \$23,600 -2005 DOLLARS  
 TOTAL COST OF ADDED MAINTENANCE: 0 -2005 DOLLARS

YEAR	CALCULATED LOSSES PEAK KW (avg./mo.)	Annual KWH Accum. KWH	PRESENT ESTIMATED COST (\$) CONSTRUCTION MAINTENANCE	YEARLY TOTAL PRESENT WORTH OF INFLATED COSTS (\$)			
				ANNUAL for Year (Top)	ACCUMULATED through Year (Bottom)		
				FIXED CHARGES	MAINTENANCE		
2005	0.0	2,340 2,340	23,600	3,896	0	70	3,967
2006	303.9	2,482 4,822		3,630	0	18,326	21,956
2007	313.0	2,633 7,455		3,382	0	18,106	21,488
2008	322.4	2,794 10,249		10,908	0	36,503	47,411
2009	332.0	2,964 13,213		3,150	0	17,889	21,039
2010	342.0	3,144 16,358		14,058	0	54,391	68,450
				2,935	0	17,674	20,609
				16,993	0	72,066	89,059
				2,734	0	17,462	20,196
				19,728	0	89,528	109,255

YEAR	DESCRIPTION OF NEW CONSTRUCTION or ADDITIONAL MAINTENANCE	PRESENT ESTIMATED COST (\$)		CALCULATED LOSSES		YEARLY TOTAL PRESENT WORTH OF INFLATED COST (\$)			
		CONSTRUCTION	MAINTENANCE	PEAK KW	ANNUAL KWH	FIXED CHARGES	MAINTENANCE	LOSSES	ROW TOTALS
2011				352.2	3,336 19,694	2,547	0	17,253	19,800 129,055
2012				362.8	3,539 23,233	2,373	0	17,046	19,419 148,474
2013				373.7	3,755 26,987	2,211	0	16,841	19,052 167,526
2014				384.9	3,983 30,971	2,060	0	16,640	18,699 186,226
2015				396.5	4,226 35,196	1,919	0	16,440	18,359 204,585

YEAR	CALCULATED LOSSES		ANNUAL PRESENT WORTH OF INFLATED COST (\$)			
	PEAK KW	ANNUAL KWH	FIXED CHARGES	MAINTENANCE	LOSSES	ROW TOTALS
2016	408.3	4,483	1,788	0	16,243	18,031
2017	420.6	4,756	1,665	0	16,049	17,714
2018	433.2	5,046	1,552	0	15,857	17,408
2019	446.2	5,353	1,445	0	15,667	17,113
2020	459.6	5,679	1,347	0	15,480	16,827
2021	473.4	6,025	1,255	0	15,295	16,549
2022	487.6	6,392	1,169	0	15,112	16,281
2023	502.2	6,781	1,089	0	14,932	16,021
2024	517.3	7,194	1,014	0	14,754	15,768
2025	532.8	7,632	945	0	14,578	15,523
2026	548.8	8,097	880	0	14,404	15,284
2027	565.3	8,590	820	0	14,232	15,052
2028	582.2	9,113	764	0	14,063	14,827
2029	599.7	9,668	712	0	13,895	14,607
2030	617.7	10,257	663	0	13,730	14,393
2031	636.2	10,882	618	0	13,567	14,184
2032	655.3	11,545	576	0	13,405	13,981
2033	674.9	12,248	536	0	13,246	13,782
2034	695.2	12,994	500	0	13,089	13,589
2035	716.0	13,785	465	0	12,934	13,399

YEAR: 2007

PROJECT NAME: Chaplin Road conversion

CFR CODE: 304

ESTIMATED COST: \$107,310

DESCRIPTION OF PROPOSED CONSTRUCTION:

This project involves the conversion of 1.47 miles of 1/0 cu to 336.4 acsr along Sheilds Bend road in northeastern Nelson County. This project is on Bloomfield Substation fdr 04.

REASON FOR PROPOSED CONSTRUCTION:

This project will correct voltage problems on circuit 04.

RESULTS OF PROPOSED CONSTRUCTION:

The construction of these projects all design criteria will be met.

ALTERNATIVE CORRECTIVE PLANS INVESTIGATED:

No alternatives were considered because of three sets of existing regulators on this circuit.

YEAR: 2006

PROJECT NAME: Blue Lick Road Conversion

CFR CODE: 305

ESTIMATED COST: \$54,020

DESCRIPTION OF PROPOSED CONSTRUCTION:

This project requires the conversion of 0.73 miles of three phase 2acwc to three phase 336.4 ACSR along Blue Lick road in northern Bullitt County. This project is on Blue Lick Substation fdr 04.

REASON FOR PROPOSED CONSTRUCTION

This project will correct over 100% ampacity problems on circuit 04.

RESULTS OF PROPOSED CONSTRUCTION:

With this construction all design criteria will be met.

ALTERNATIVE CORRECTIVE PLANS INVESTIGATED:

No alternatives were considered because of the ampacity issues.

YEAR: 2006

PROJECT NAME: North Springfield Substation to Willisburg

CFR CODE: 306

ESTIMATED COST: \$272,290

DESCRIPTION OF PROPOSED CONSTRUCTION:

This project involves the conversion of 3.73 miles of 2acwc to 336.4 acsr from along KY 555 in northern Washington County. This project is on North Springfield Substation for 05.

REASON FOR PROPOSED CONSTRUCTION

This project will correct over 92% ampacity problems on circuit 05 as well as voltage problems that dip as low as 109 volts with one set of existing regulation.

RESULTS OF PROPOSED CONSTRUCTION:

With the construction of this project all design criteria items will be met.

ALTERNATIVE CORRECTIVE PLANS INVESTIGATED:

No alternatives were considered of the ampacity problems.

YEAR: 2005

PROJECT NAME: Shepherdsville Substation to Cedar Grove  
Industrial Park

CFR CODE: 307

ESTIMATED COST: \$274,000

DESCRIPTION OF PROPOSED CONSTRUCTION:

A 2.74 mile conversion to 795 acsr from Shepherdsville Substation along I-65 to cedar Grove Industrial Park in central Bullitt County.

REASON FOR PROPOSED CONSTRUCTION

Design criteria not met include 1,2 and 5. This feeder serves an existing industrial park that will receive 8500 KW in new commercial load in 2005 and early 2006.

RESULTS OF PROPOSED CONSTRUCTION:

With the construction of this project all design criteria items will be met.

ALTERNATIVE CORRECTIVE PLANS INVESTIGATED:

No alternatives were investigated because of the ampacity levels.

YEAR: 2006

PROJECT NAME: West Bardstown to Samuels

CFR CODE: 308

ESTIMATED COST: \$106,580

DESCRIPTION OF PROPOSED CONSTRUCTION:

This project involves the conversion of 1.46 miles of 1/0 cu to 336.4 acsr along ky 245 in central Nelson County. This conversion is on West Bardstown fdr 01.

REASON FOR PROPOSED CONSTRUCTION

This project will correct over 87% ampacity problems on circuit 01. This circuit will have a 175 lot subdivision with houses already under construction. The new Flaget Hospital (1500 KW) is reflected in this study and is scheduled to be operational by summer 2005.

RESULTS OF PROPOSED CONSTRUCTION:

With the construction of this project all design criteria items will be met.

ALTERNATIVE CORRECTIVE PLANS INVESTIGATED:

No alternatives were investigated because of the ampacity problems.

YEAR: 2006

PROJECT NAME: West Bardstown to Nazareth

CFR CODE: 309

ESTIMATED COST: \$86,140

DESCRIPTION OF PROPOSED CONSTRUCTION:

This project involves the conversion of 1.18 miles of 1/0 cu to 336.4 acsr along ky 332 in central Nelson County. This conversion is on West Bardstown Substation fdr 02.

REASON FOR PROPOSED CONSTRUCTION

This project will correct a weak link on this circuit. This conversion will allow load to be shifted from East Bardstown Substation which is experiencing tremendous growth. This circuit will be entirely 336.4 acsr allowing for better reliability around the Bardstown area.

RESULTS OF PROPOSED CONSTRUCTION:

All Design Criteria will be met with the completion of this conversion.

ALTERNATIVE CORRECTIVE PLANS INVESTIGATED:

No alternatives were considered for this project due to the existing loading conditions on East Bardstown Substation.



YEAR: 2007

PROJECT NAME: West Bardstown to Boston Road

CFR CODE: 310

ESTIMATED COST: \$535,600

DESCRIPTION OF PROPOSED CONSTRUCTION:

This project will be a conversion of 4.12 miles of double circuit 1/0 cu to double circuit 336.4 acsr along Ben Irvin Road in central Nelson County. This conversion will be on West Bardstown Substation fdrs 04 & 05.

REASON FOR PROPOSED CONSTRUCTION

This project will correct voltage and reliability problems on these feeders. This area is primed for increased growth due to the relocation of major highway and the construction of a new road to connect other major roads around Bardstown.

RESULTS OF PROPOSED CONSTRUCTION:

By constructing this project all Design criteria will be met and reliability will be increased.

ALTERNATIVE CORRECTIVE PLANS INVESTIGATED:

The alternative would be to install two sets of regulators on these circuits to correct these voltage problems. This alternative proved to be the most cost effective method but was rejected because of the road changes and growth in this area.

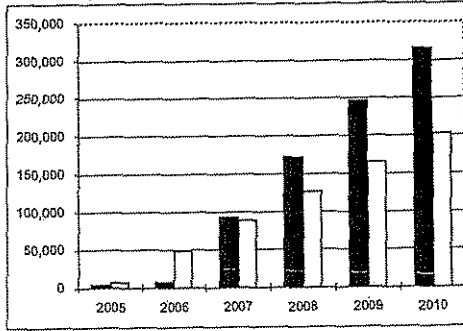
## COMPARISON OF TOTAL ACCUMULATED COST and kWh LOSSES OF PLAN 1 vs PLAN 2

*(All costs are the the accumulated present worth of the inflated cost)*

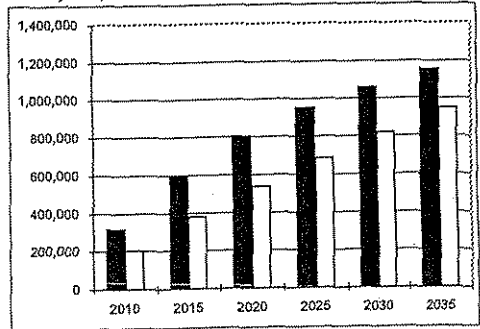
### TOTAL COSTS (\$)

YEAR	PLAN 1	PLAN 2
2005	3,900	7,900
2006	7,800	48,600
2007	92,900	88,400
2008	172,400	127,300
2009	246,800	165,400
2010	316,200	202,700
2015	601,100	378,600
2020	805,300	538,800
2025	952,600	685,900
2030	1,059,800	821,900
2035	1,154,500	949,400

For first 6 years, favors PLAN 2 by 35.9%



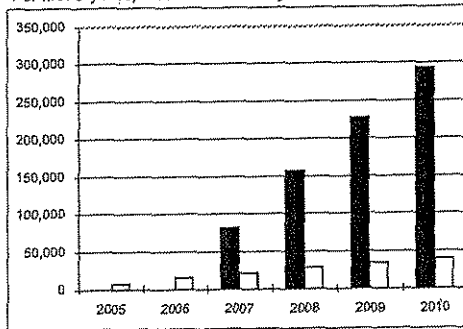
At 30 years, favors PLAN 2 by 17.8%



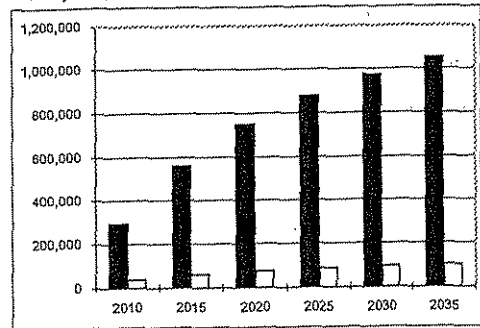
### TOTAL CAPITALIZED COSTS (\$)

YEAR	PLAN 1	PLAN 2
2005	0	7,790
2006	0	15,050
2007	81,340	21,820
2008	157,120	28,120
2009	227,720	33,990
2010	293,490	39,460
2015	560,700	61,700
2020	748,200	77,300
2025	879,800	88,200
2030	972,200	95,900
2035	1,053,000	102,600

For first 6 years, favors PLAN 2 by 86.6%



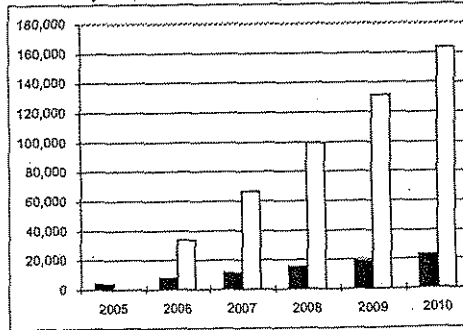
At 30 years, favors PLAN 2 by 90.3%



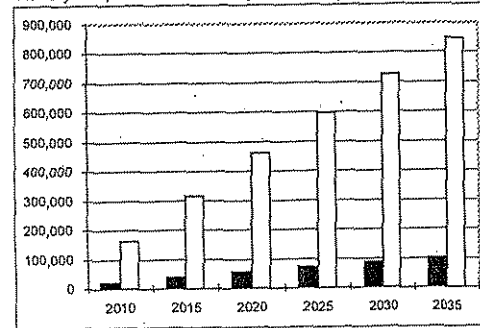
### TOTAL COST OF LOSSES (\$)

YEAR	PLAN 1	PLAN 2
2005	3,900	130
2006	7,750	33,550
2007	11,560	66,570
2008	15,320	99,200
2009	19,030	131,430
2010	22,700	163,274
2015	40,400	316,900
2020	57,100	461,500
2025	72,800	597,700
2030	87,600	726,000
2035	101,500	846,800

For first 6 years, favors PLAN 1 by 86.1%



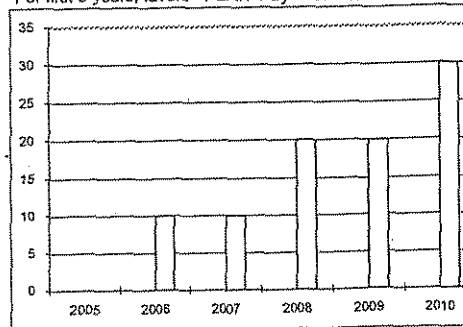
At 30 years, favors PLAN 1 by 88.0%



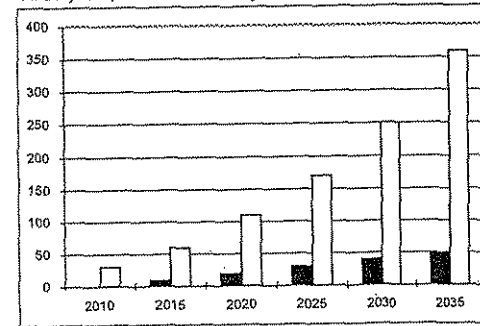
### TOTAL ACCUMULATED LOSSES (MWH)

YEAR	PLAN 1	PLAN 2
2005	0	0
2006	0	10
2007	0	10
2008	0	20
2009	0	20
2010	0	30
2015	10	60
2020	20	110
2025	30	170
2030	40	250
2035	50	360

For first 6 years, favors PLAN 1 by 100.0%



At 30 years, favors PLAN 1 by 86.1%



2.95% Given annual inflation rate  
7.34% Given annual present worth rate

PLAN 1 PLAN 1 W BARDSTOWN FDR 04 & 05 WITH LINE CONVERSION  
 PLAN 2 PLAN 2 W BARDSTOWN FDR 04 & 05 WITH REGULATORS

**ANNUAL & ACCUMULATED TOTALS of the PRESENT WORTH of the INFLATED COSTS of CARRYING CHARGES, MAINTENANCE and LOSSES**

PLAN: PLAN 2 W BARDSTOWN FDR 04 & 05 WITH REGULATORS  
 COMPANY: SALT RIVER ELECTRIC

ENGINEER: GARY PILE  
 DATE: 03/22/05

2005	PRESENT YEAR (First year of plan)
2.95	ANNUAL INFLATION RATE (%)
7.34	BLENDED INTEREST RATE (%) (& Present Worth Factor)
0.06	TAX RATE (%)
4.47	DEPRECIATIONS & MAINTENANCE RATE (%)
4.64	OPERATIONS & MAINTENANCE RATE (%)
16.51%	FIXED CHARGE RATE (Sum of Above)
5.22	DEMAND COST (\$/KW/MONTH)
0.030	ENERGY COST (\$/KWH)
538.00	CIRCUIT or AREA PEAK MONTHLY AVERAGE DEMAND LOSSES (kW)
3.0	CIRCUIT or AREA ANNUAL GROWTH RATE (%)
0.55	ANNUAL LOAD FACTOR (%) (~ 40 to 90%)
0.001	CALCULATED LOSS FACTOR

DECREASE IN CIRCUIT PEAK DEMAND LOSSES (Optional)  
 YEAR DECREASE EXPECTED  
 AMOUNT (kW) (Present Year)

**PLAN 1 SUMMARY (Accumulated Totals, Rounded Off)**

YEAR	MWH LOSSES	PRESENT WORTH OF INFLATED COST (\$)			TOTALS
		FIXED CHARGES	MAINTENANCE	LOSSES	
2010	30	39,500	0	163,300	202,800
2015	60	61,700	0	316,900	378,600
2020	110	77,300	0	461,500	538,800
2025	170	88,200	0	597,700	685,900
2030	250	95,900	0	726,000	821,900
2035	360	102,600	0	846,800	949,400

TOTAL COST OF NEW CONSTRUCTION: \$47,200 -2005 DOLLARS  
 TOTAL COST OF ADDED MAINTENANCE: 0 -2005 DOLLARS

YEAR	CALCULATED LOSSES PEAK KW (avg./mo.)	Annual KWH Accum. KWH	PRESENT ESTIMATED COST (\$) CONSTRUCTION	MAINTENANCE	YEARLY TOTAL PRESENT WORTH OF INFLATED COSTS (\$)			
					FIXED CHARGES	MAINTENANCE	LOSSES	
2005	0.0	4,267 4,267	23,600 23,600		7,793	0	128	7,921
2006	554.1	4,527 8,794			7,260	0	33,422	40,682
2007	570.8	4,803 13,597			6,763	0	33,021	39,784
2008	587.9	5,095 18,692			21,816	0	66,571	88,387
2009	605.5	5,405 24,097			6,301	0	32,624	38,925
2010	623.7	5,735 29,832			28,117	0	99,195	127,312
					5,870	0	32,233	38,103
					33,987	0	131,428	165,415
					5,469	0	31,846	37,315
					39,456	0	163,274	202,730

YEAR	DESCRIPTION OF NEW CONSTRUCTION or ADDITIONAL MAINTENANCE	PRESENT ESTIMATED COST (\$)		CALCULATED LOSSES		YEARLY TOTAL PRESENT WORTH OF INFLATED COST (\$)			
		CONSTRUCTION	MAINTENANCE	PEAK KW	ANNUAL KWH	FIXED CHARGES	MAINTENANCE	LOSSES	ROW TOTALS
2011				842.4	6,084 35,916	5,035 44,550	0 0	31,464 194,738	36,559 239,288
2012				661.7	6,454 42,370	4,746 49,297	0 0	31,087 225,825	35,833 275,121
2013				681.5	6,847 49,217	4,422 53,718	0 0	30,714 256,539	35,136 310,257
2014				702.0	7,254 56,482	4,119 57,838	0 0	30,346 286,885	34,465 344,722
2015				723.0	7,707 64,189	3,838 61,676	0 0	29,982 316,867	33,820 378,543

YEAR	CALCULATED LOSSES		ANNUAL PRESENT WORTH OF INFLATED COST (\$)			
	PEAK KW	ANNUAL KWH	FIXED CHARGES	MAINTENANCE	LOSSES	ROW TOTALS
2016	744.7	8,176	3,575	0	29,623	33,199
2017	767.1	8,674	3,331	0	29,269	32,600
2018	790.1	9,202	3,103	0	28,919	32,022
2019	813.8	9,763	2,891	0	28,573	31,464
2020	838.2	10,357	2,693	0	28,231	30,924
2021	863.3	10,988	2,509	0	27,894	30,403
2022	889.2	11,657	2,337	0	27,561	29,898
2023	915.9	12,367	2,178	0	27,232	29,409
2024	943.4	13,120	2,029	0	26,907	28,935
2025	971.7	13,919	1,890	0	26,586	28,476
2026	1000.8	14,767	1,761	0	26,269	28,029
2027	1030.9	15,666	1,640	0	25,956	27,596
2028	1061.8	16,620	1,528	0	25,646	27,175
2029	1093.6	17,633	1,424	0	25,341	26,765
2030	1126.5	18,707	1,326	0	25,040	26,366
2031	1160.2	19,846	1,236	0	24,742	25,978
2032	1195.1	21,054	1,151	0	24,448	25,599
2033	1230.9	22,337	1,072	0	24,157	25,230
2034	1267.8	23,697	999	0	23,871	24,870
2035	1305.9	25,140	931	0	23,588	24,518

**ANNUAL & ACCUMULATED TOTALS of the PRESENT WORTH of the INFLATED COSTS of CARRYING CHARGES, MAINTENANCE and LOSSES**

PLAN: PLAN 1 W BARDSTOWN FDR 04 & 05 WITH LINE CONVERSION  
 COMPANY: SALT RIVER ELECTRIC  
 ENGINEER: GARY PILE  
 DATE: 03/22/05

2005	PRESENT YEAR (First year of plan)
2.95	ANNUAL INFLATION RATE (%)
7.34	BLENDED INTEREST RATE (%) (& Present Worth Factor)
0.06	TAX RATE (%)
4.47	DEPRECIATIONS & MAINTENANCE RATE (%)
4.64	FIXED CHARGE RATE (Sum of Above)
16.51%	
5.22	DEMAND COST (\$/KW/MONTH)
0.030	ENERGY COST (\$/KWH)
62.0	CIRCUIT or AREA MONTHLY AVERAGE PEAK DEMAND LOSSES (KW)
3.0	CIRCUIT or AREA ANNUAL GROWTH RATE (%)
0.55	ANNUAL LOAD FACTOR (%) (~ 40 to 90%)
0.001	CALCULATED LOSS FACTOR

DECREASE IN CIRCUIT PEAK DEMAND LOSSES (Optional)  
 YEAR DECREASE EXPECTED  
 AMOUNT (KW) (Present Year)

**PLAN 1 SUMMARY (Accumulated Totals, Rounded Off)**

YEAR	MWH LOSSES	PRESENT WORTH OF INFLATED COST (\$)		TOTALS
		FIXED CHARGES	MAINTENANCE	
2010	0	293,500	0	316,200
2015	10	560,700	0	601,100
2020	20	748,200	0	805,300
2025	30	879,800	0	952,600
2030	40	972,200	0	1,059,800
2035	50	1,053,000	0	1,154,500

TOTAL COST OF NEW CONSTRUCTION: \$535,600 -2005 DOLLARS  
 TOTAL COST OF ADDED MAINTENANCE: 0 -2005 DOLLARS

YEAR	CALCULATED LOSSES PEAK KW (avg./mo.)	Annual kWh Accum. kWh	PRESENT ESTIMATED COST (\$)		YEARLY TOTAL PRESENT WORTH OF INFLATED COSTS (\$)	
			CONSTRUCTION	MAINTENANCE	ANNUAL for Year (Top); ACCUMULATED through Year (Bottom)	ROW TOTALS
2005	62.0	492			0	3,898
2006	63.9	1,013			0	7,750
2007	65.8	1,567	535,600		81,342	85,148
2008	67.7	2,154			157,123	172,438
2009	69.8	2,777			227,721	246,751
2010	71.9	3,438			316,191	316,191

YEAR	DESCRIPTION OF NEW CONSTRUCTION or ADDITIONAL MAINTENANCE	PRESENT ESTIMATED COST (\$)		CALCULATED LOSSES		YEARLY TOTAL PRESENT WORTH OF INFLATED COST (\$)			
		CONSTRUCTION	MAINTENANCE	PEAK KW	ANNUAL KWH	FIXED CHARGES	MAINTENANCE	LOSSES	ROW TOTALS
2011				74.0	701	61,273	0	3,626	64,899
					4,139	354,765	0	26,326	381,090
2012				76.3	744	57,083	0	3,582	60,666
					4,883	411,848	0	29,908	441,756
2013				78.5	789	53,180	0	3,540	56,719
					5,672	465,028	0	33,448	498,476
2014				80.9	837	49,543	0	3,497	53,041
					6,509	514,571	0	36,945	551,516
2015				83.3	888	46,156	0	3,455	49,611
					7,397	560,727	0	40,400	601,127

YEAR	CALCULATED LOSSES		ANNUAL PRESENT WORTH OF INFLATED COST (\$)			
	PEAK KW	ANNUAL KWH	FIXED CHARGES	MAINTENANCE	LOSSES	ROW TOTALS
2016	85.8	942	42,999	0	3,414	46,413
2017	88.4	1,000	40,059	0	3,373	43,432
2018	91.0	1,060	37,320	0	3,333	40,652
2019	93.8	1,125	34,768	0	3,293	38,061
2020	96.6	1,194	32,390	0	3,253	35,644
2021	99.5	1,266	30,176	0	3,215	33,390
2022	102.5	1,343	28,112	0	3,176	31,288
2023	105.6	1,425	26,190	0	3,138	29,328
2024	108.7	1,512	24,399	0	3,101	27,500
2025	112.0	1,604	22,730	0	3,064	25,794
2026	115.3	1,702	21,176	0	3,027	24,203
2027	118.8	1,805	19,728	0	2,991	22,719
2028	122.4	1,915	18,379	0	2,956	21,335
2029	126.0	2,032	17,122	0	2,920	20,043
2030	129.8	2,156	15,951	0	2,886	18,837
2031	133.7	2,287	14,861	0	2,851	17,712
2032	137.7	2,426	13,845	0	2,817	16,662
2033	141.9	2,574	12,898	0	2,784	15,682
2034	146.1	2,731	12,016	0	2,751	14,767
2035	150.5	2,897	11,194	0	2,718	13,912

YEAR: 2007

PROJECT NAME: Joe Tichenor to Cox's Creek Elementary School

CFR CODE: 311

ESTIMATED COST: \$46,720

DESCRIPTION OF PROPOSED CONSTRUCTION:

This project includes 0.64 miles of 4acwc to 336.4 acsr along US 31E in central Nelson County. This conversion will be on Joe Tichenor fdr 01.

REASON FOR PROPOSED CONSTRUCTION

This conversion will correct ampacity problems of 88% on this feeder.

RESULTS OF PROPOSED CONSTRUCTION:

With the construction of this project all design criteria will be met and reliability will be increased.

ALTERNATIVE CORRECTIVE PLANS INVESTIGATED:

No alternatives were considered because of the ampacity problems.

YEAR: 2007

PROJECT NAME: Plum Ridge Road

CFR CODE: 312

ESTIMATED COST: \$98,450

DESCRIPTION OF PROPOSED CONSTRUCTION:

This project includes 1.79 mile 6a cwc to three phase 1/0 acsr along Plum Ridge Road in northern Spencer County. This conversion is on Darwin Thomas Substation fdr 04.

REASON FOR PROPOSED CONSTRUCTION

This conversion will correct voltage problems on this feeder.

RESULTS OF PROPOSED CONSTRUCTION:

With the construction of this project all design criteria will be met and reliability will be increased.

ALTERNATIVE CORRECTIVE PLANS INVESTIGATED:

No alternatives were considered because of the ampacity problems because the installation of a regulator did not solve voltage problems.



YEAR: 2005

PROJECT NAME: Maud Hill to Campground Church Road

CFR CODE: 313

ESTIMATED COST: \$228,490

DESCRIPTION OF PROPOSED CONSTRUCTION:

A 3.13 mile conversion of three phase 6ACWC to three phase 336.4 ACSR along ky 55 from Maud Hill to Campground Road in central Washington County. This project is on Fredricksburg Substation fdr 02.

REASON FOR PROPOSED CONSTRUCTION

This conversion will correct voltage problems on this circuit. This project will also correct reliability issues as this 6a cwc circuit has been down in about every storm in the last ten years with many splices and other problems. This circuit has been subjected to overloads during emergency backfeeds because of the small wire on this main feeder.

RESULTS OF PROPOSED CONSTRUCTION:

With the construction of this project all design criteria will be met.

ALTERNATIVE CORRECTIVE PLANS INVESTIGATED:

No alternatives were considered because of the reliability issues.

YEAR: 2007

PROJECT NAME: Hardesty Road

CFR CODE: 314

ESTIMATED COST: \$51,150

DESCRIPTION OF PROPOSED CONSTRUCTION:

This project involves the conversion of 0.93 mile of 6acwc to 3 phase 1/0 acsr along Hardesty Road in central Washington County. This is on Fredricksburg Substation fdr 03.

REASON FOR PROPOSED CONSTRUCTION

This project is required because of voltage problems in this feeder. One set of three phase regulators were installed on the main line and a single phase regulator would not correct voltage.

RESULTS OF PROPOSED CONSTRUCTION:

With the construction of this project all design criteria will be met.

ALTERNATIVE CORRECTIVE PLANS INVESTIGATED:

No alternatives were considered because two sets of regulators would not correct voltage problems.

YEAR: 2006

PROJECT NAME: Cane Run Road to Borders Road

CFR CODE: 315

ESTIMATED COST: \$189,070

DESCRIPTION OF PROPOSED CONSTRUCTION:

A 2.59 mile conversion from two phase 6acwc to three phase 336.4 ACSR along Short Creek Road in central Washington County. This is on Fredricksburg Substation fdr 04.

REASON FOR PROPOSED CONSTRUCTION

This project is required to allow load to be shifted from Bardstown Shopping Center Substation fdr 02 to this circuit.

RESULTS OF PROPOSED CONSTRUCTION:

With the construction of this project all design criteria items will be met and more reliable service will be provided.

ALTERNATIVE CORRECTIVE PLANS INVESTIGATED:

No alternatives were considered because of the load shifting capabilities.

YEAR: 2005

PROJECT NAME: Burba Road

CFR CODE: 316

ESTIMATED COST: \$105,600

DESCRIPTION OF PROPOSED CONSTRUCTION:

A 2.4 mile conversion of single phase 6A to three phase 1\0 ACSR along Burba Road in central Nelson County. This is on Balltown Substation fdr 01.

REASON FOR PROPOSED CONSTRUCTION

This is a conductor replacement item

RESULTS OF PROPOSED CONSTRUCTION:

With the construction of this project all design criteria will be met and more reliable service will be provided.

ALTERNATIVE CORRECTIVE PLANS INVESTIGATED:

No alternatives were considered.

YEAR: 2005

PROJECT NAME: Tatum Ridge Road

CFR CODE: 317

ESTIMATED COST: \$180,400

DESCRIPTION OF PROPOSED CONSTRUCTION:

A 4.1 mile conversion of single phase 6ACWC to single phase 1/0 ACSR along Tatum Ridge Road In central Washington County. This Project is on North Springfield Substation fdr 05.

REASON FOR PROPOSED CONSTRUCTION

This is a conductor replacement item.

RESULTS OF PROPOSED CONSTRUCTION:

With the construction of this project all design criteria will be met.

ALTERNATIVE CORRECTIVE PLANS INVESTIGATED:

No alternatives were considered.

YEAR: 2006

PROJECT NAME: Bennetts Lane

CFR CODE: 318

ESTIMATED COST: \$44,000

DESCRIPTION OF PROPOSED CONSTRUCTION:

A 1.0 mile conversion of single phase 6A to single phase 1\0 ACSR through Bennetts Lane in central Nelson County. This is on West Bardstown Substation fdr 05.

REASON FOR PROPOSED CONSTRUCTION

This is a conductor replacement item.

RESULTS OF PROPOSED CONSTRUCTION:

With the construction of this project all design criteria will be met and more reliable service provided.

ALTERNATIVE CORRECTIVE PLANS INVESTIGATED:

No alternatives were considered.

YEAR: 2007

PROJECT NAME: Mt. Elmira Road

CFR CODE: 319

ESTIMATED COST: \$110,000

DESCRIPTION OF PROPOSED CONSTRUCTION:

This project is a 2.5 mile single phase 6a cwc to single phase 1/0 acsr conversion along Mt Elmira road in central Bullitt County. This is on Brooks Substation fdr 05.

REASON FOR PROPOSED CONSTRUCTION:

This is a conductor replacement item.

RESULTS OF PROPOSED CONSTRUCTION:

By completing this line all design criteria will be met.

ALTERNATIVE CORRECTIVE PLANS INVESTIGATED:

No alternatives were considered.

YEAR: 2007

PROJECT NAME: Lutheran Church Road

CFR CODE: 320

ESTIMATED COST: \$48,400

DESCRIPTION OF PROPOSED CONSTRUCTION:

This job is a 1.1 mile conversion of single phase 8ACWC to single phase 1/0 ACSR along Lutheran Church road in central Nelson County. This is on West Bardstown Substation fdr 01.

REASON FOR PROPOSED CONSTRUCTION:

This project is conductor replacement item.

RESULTS OF PROPOSED CONSTRUCTION:

All design criteria will be met by building this project as proposed.

ALTERNATIVE CORRECTIVE PLANS INVESTIGATED:

No alternatives considered.



YEAR: 2005

PROJECT NAME: Jim Clark Road

CFR CODE: 321

ESTIMATED COST: \$101,200

DESCRIPTION OF PROPOSED CONSTRUCTION:

This project will consist of the conversion of 2.3 miles of single phase 6acwc to single phase 1/0 ACSR along Jim Clark road in central Nelson County. This is on Balltown Substation fdr 01.

REASON FOR PROPOSED CONSTRUCTION:

This is a conductor replacement item.

RESULTS OF PROPOSED CONSTRUCTION:

All Design Criteria will be met.

ALTERNATIVE CORRECTIVE PLANS INVESTIGATED:

No alternatives were considered.

YEAR: 2005-2008

PROJECT NAME: AMR

CFR CODE: 704

ESTIMATED COST: \$870,000

DESCRIPTION OF PROPOSED CONSTRUCTION:

This AMR project for the utilization of TS2 meters for the addition of 7138 new customers during this construction work plan period. The cost estimate is \$122 per meter.

YEAR: 2005-2008

PROJECT NAME: SCADA

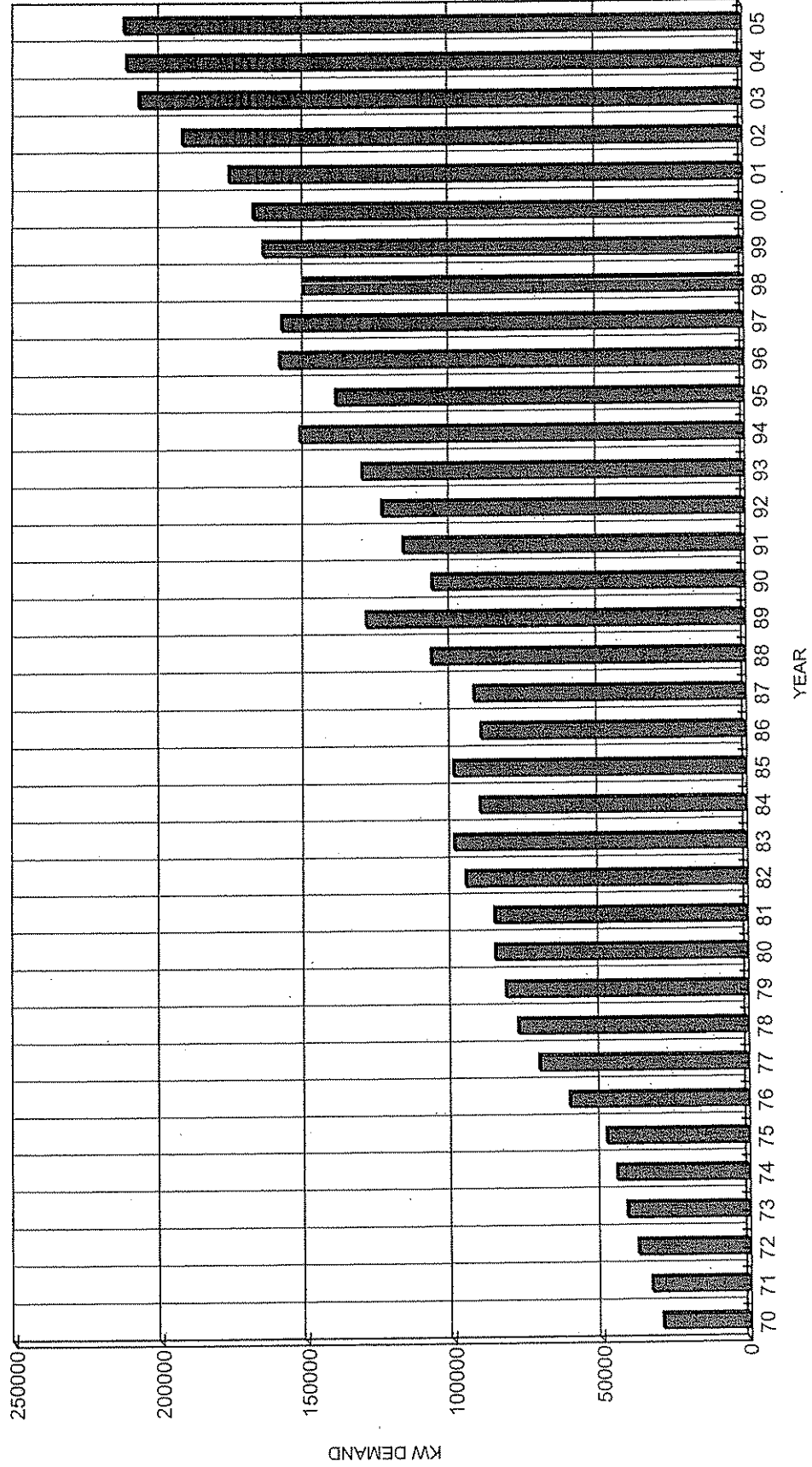
CFR CODE: 702

ESTIMATED COST: \$60,000

DESCRIPTION OF PROPOSED PROJECT:

This SCADA project includes the RTU's and communications for four anticipated new substations at \$15,000 each.

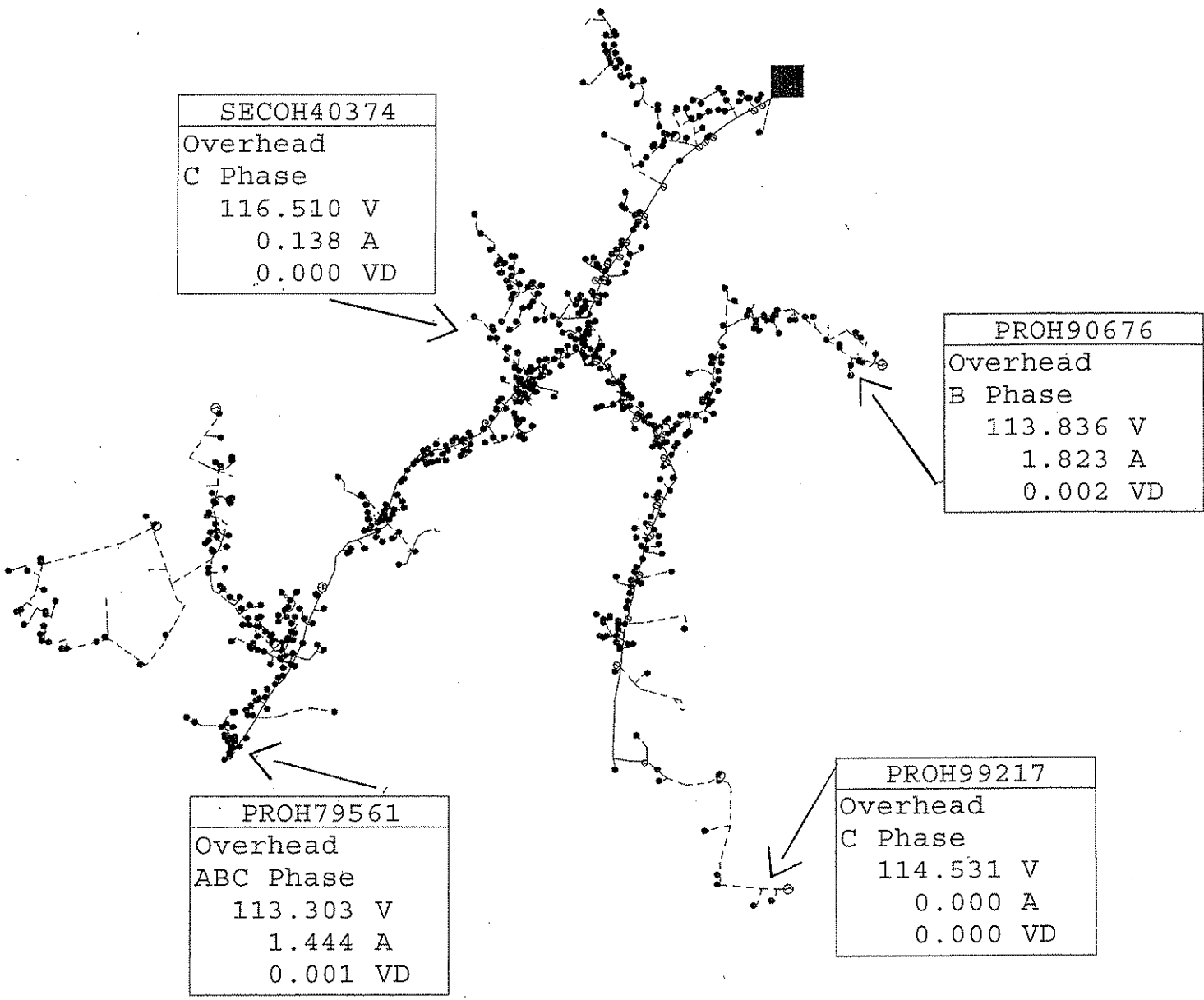
MAXIMUM KW DEMAND  
1970-2005



BALLTOWN SUBSTATION

2008 LOAD LEVEL  
BEFORE CORRECTIONS

14,117 KW



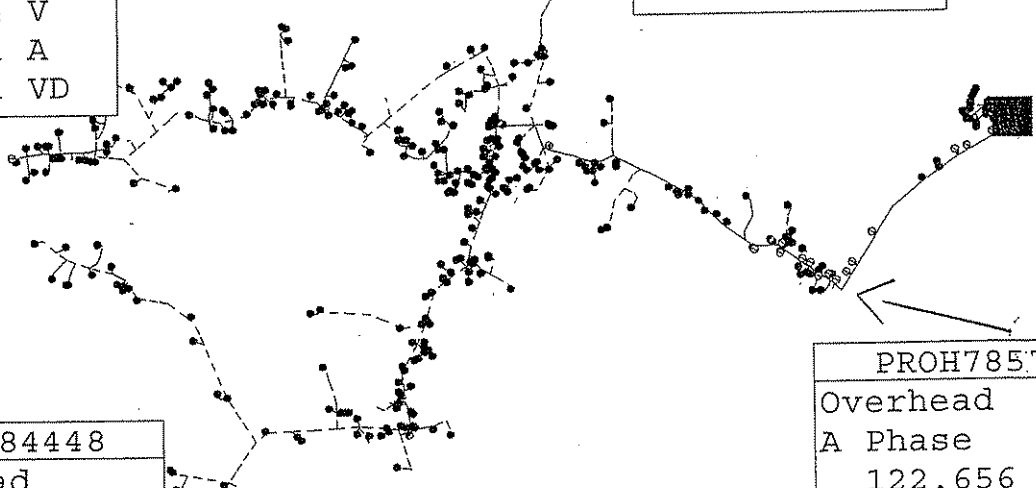
Balltown fdr 02  
 Winter 2008 Load Level  
 Before Corrections

PROH81098
Overhead
A Phase
115.204 V
0.841 A
0.001 VD

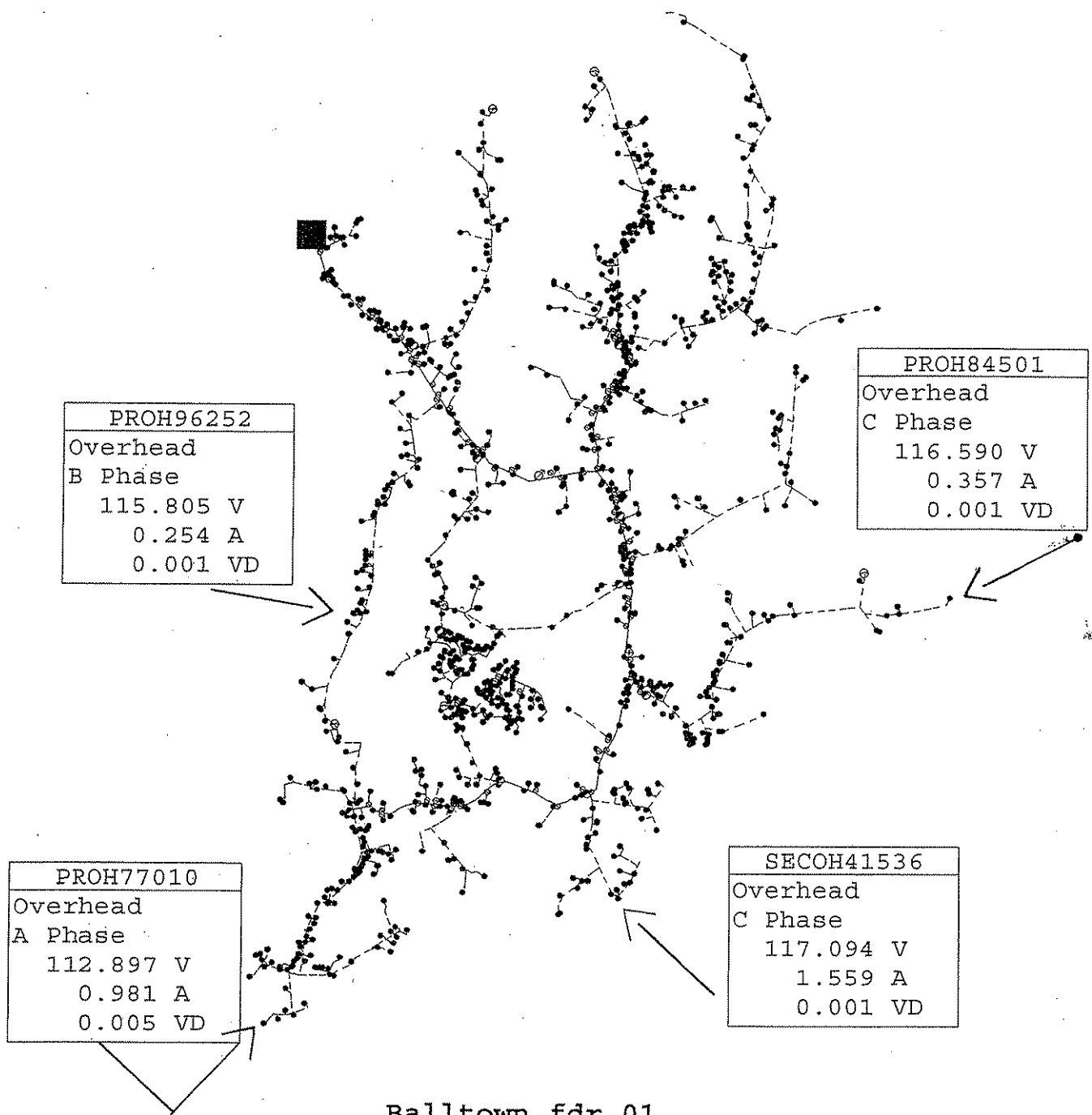
PROH94913
Overhead
A Phase
120.058 V
0.703 A
0.014 VD

PROH78576
Overhead
A Phase
122.656 V
2.097 A
0.008 VD

PROH84448
Overhead
B Phase
115.612 V
0.000 A
0.000 VD



Balltown fdr 04  
 Winter 2008 Load Level  
 Before Corrections



PROH96252
Overhead
B Phase
115.805 V
0.254 A
0.001 VD

PROH84501
Overhead
C Phase
116.590 V
0.357 A
0.001 VD

PROH77010
Overhead
A Phase
112.897 V
0.981 A
0.005 VD

SECOH41536
Overhead
C Phase
117.094 V
1.559 A
0.001 VD

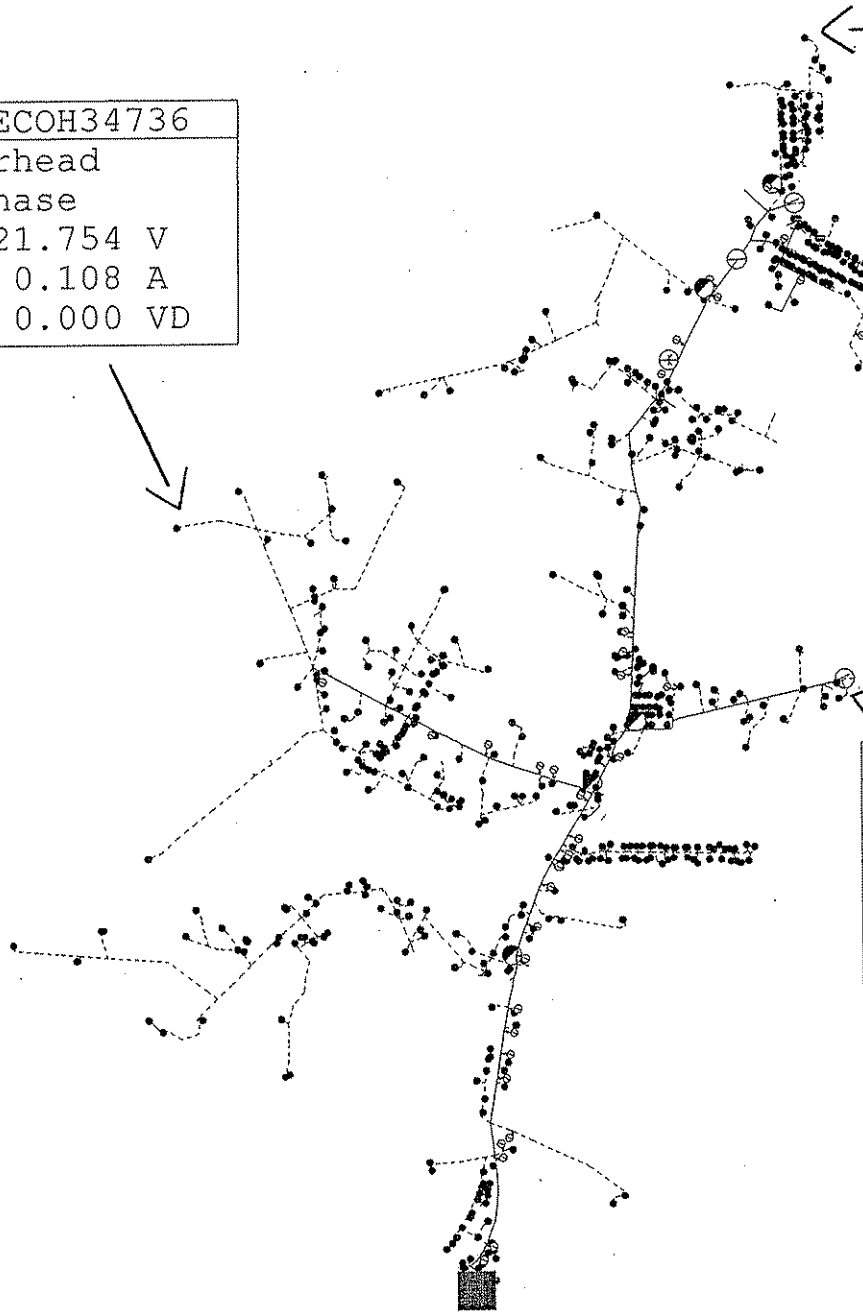
Balltown fdr 01  
 Winter 2008 Load Level  
 Before Corrections



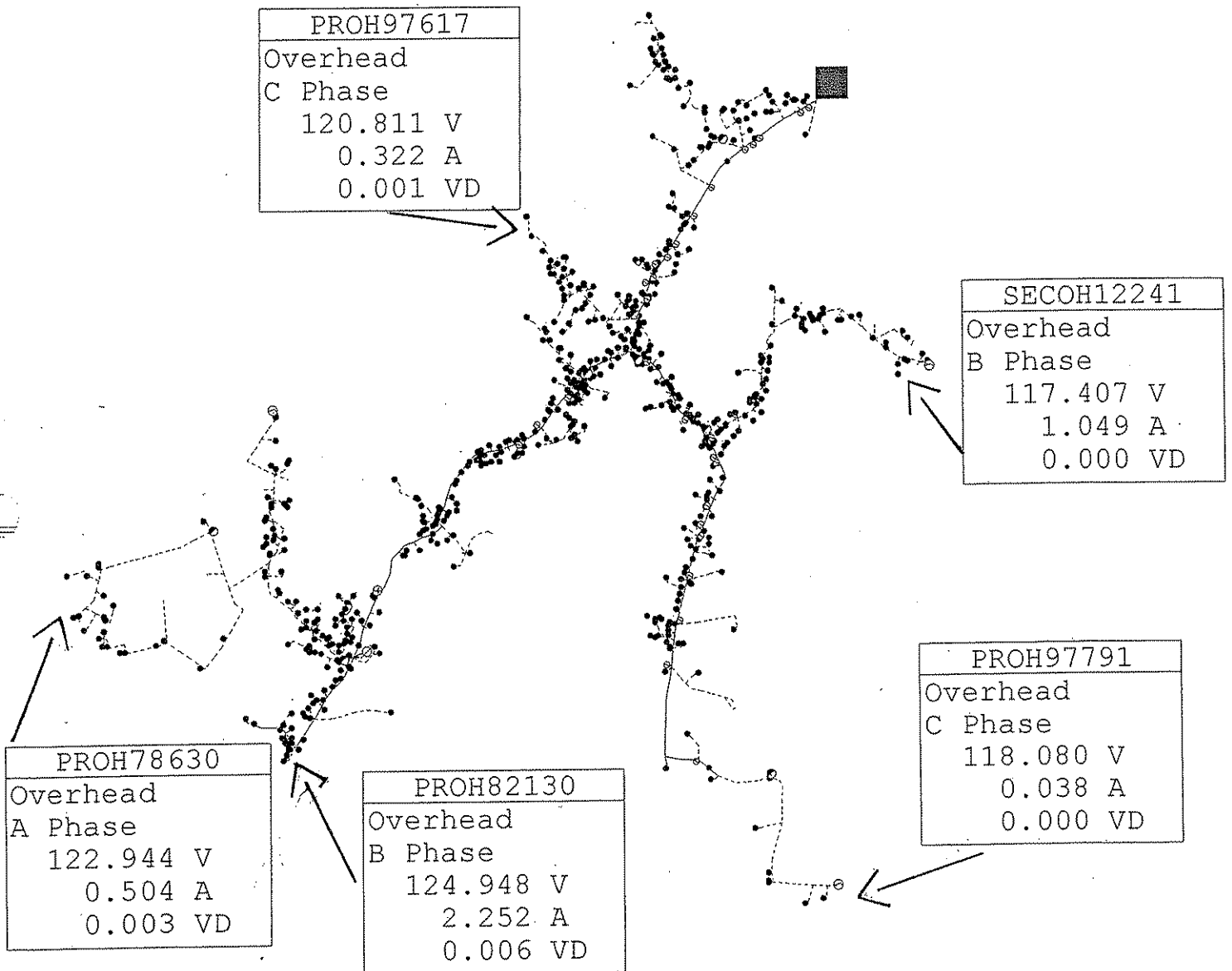
SECOH34736
Overhead
B Phase
121.754 V
0.108 A
0.000 VD

PROH76799
Overhead
B Phase
120.937 V
0.203 A
0.000 VD

PRUG3742
Underground
A Phase
122.580 V
1.512 A
0.004 VD



Balltown fdr 05  
 Winter 2008 Load Level  
 Before Corrections



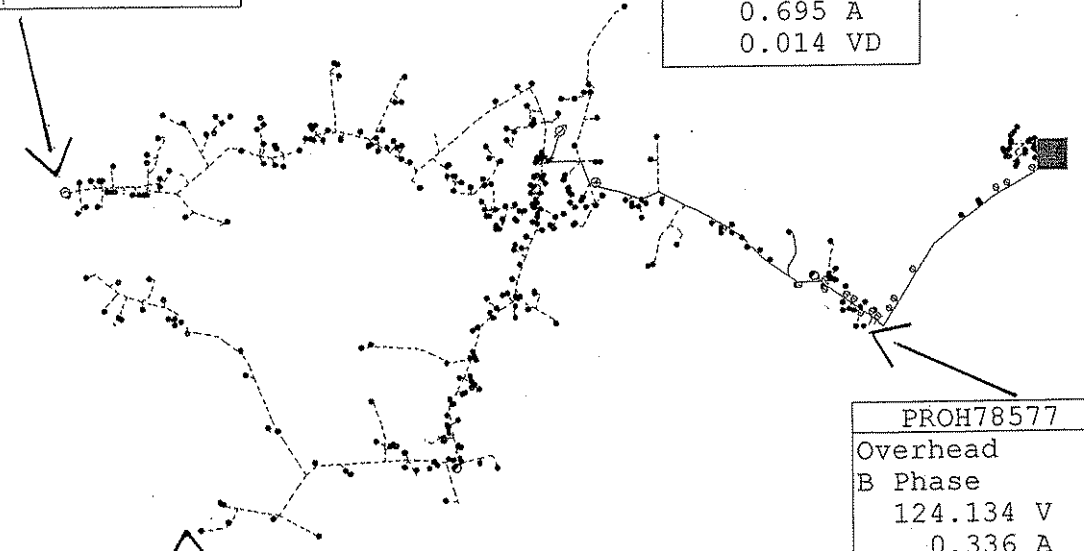
Balltown fdr 02  
 Winter 2008 Load Level  
 After Corrections

SECOH11364
Overhead
A Phase
119.821 V
0.809 A
0.000 VD

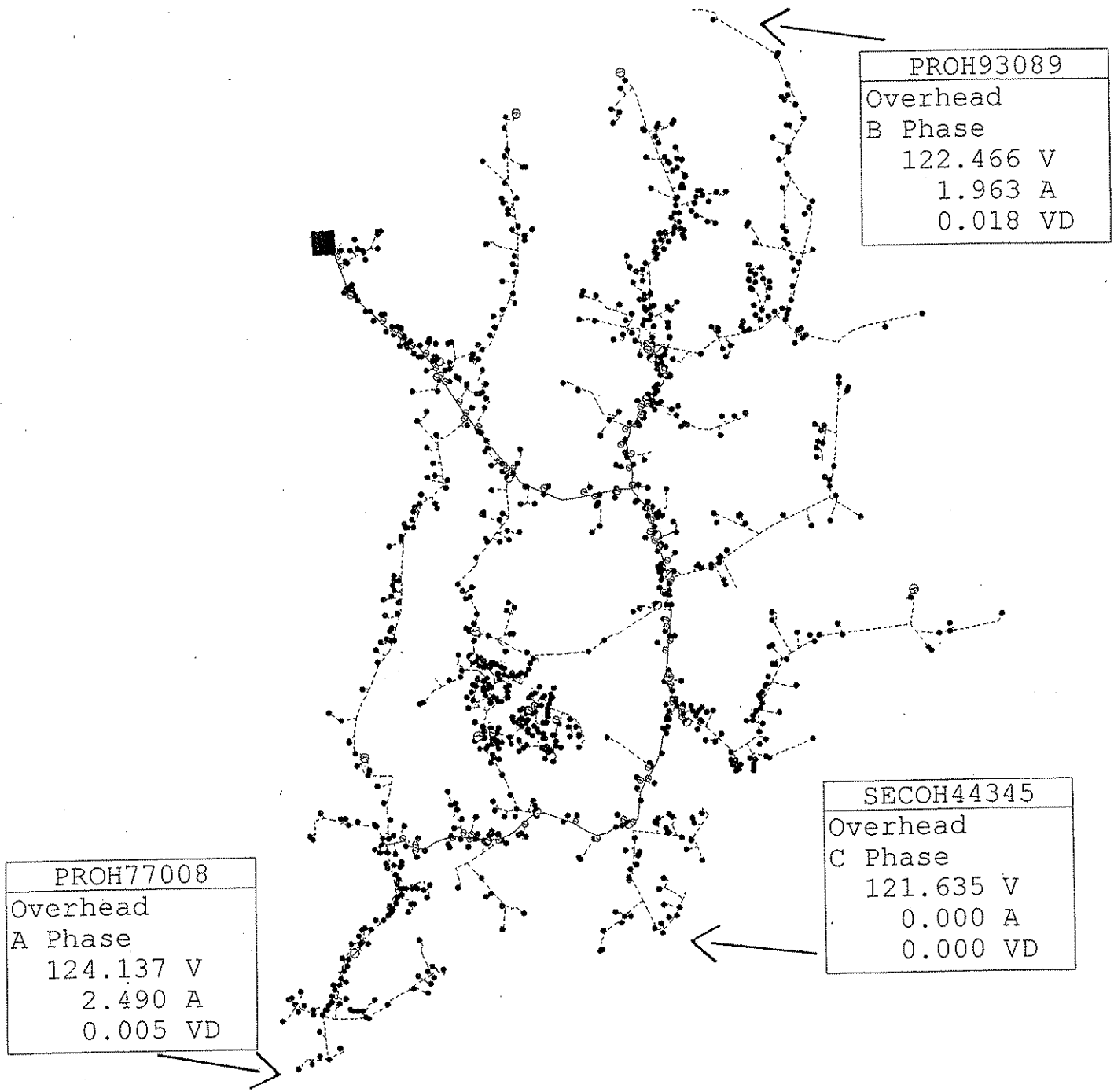
PROH94913
Overhead
A Phase
121.456 V
0.695 A
0.014 VD

PROH78577
Overhead
B Phase
124.134 V
0.336 A
0.001 VD

PROH84448
Overhead
B Phase
120.211 V
0.000 A
0.000 VD



Balltown fdr 04  
 Winter 2008 Load Level  
 After Corrections

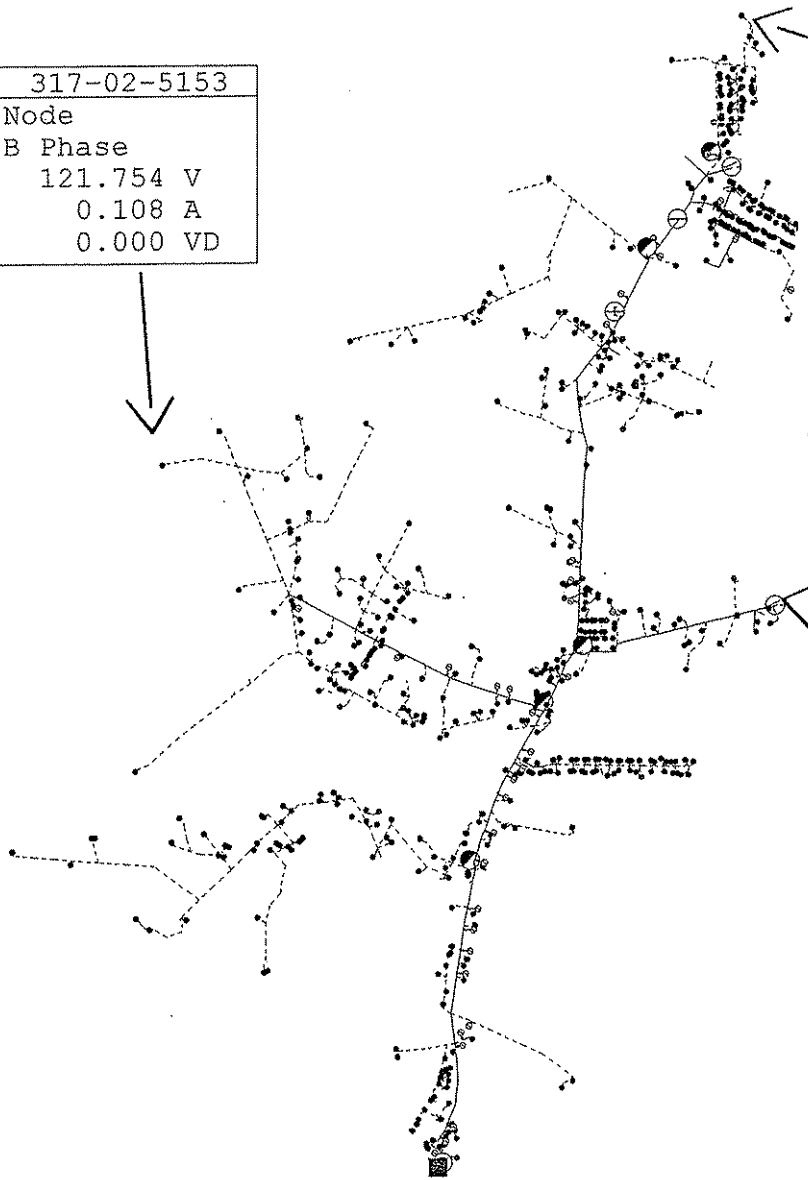


Balltown fdr 01  
 Winter 2008 Load Level  
 After Corrections

317-02-5153
Node
B Phase
121.754 V
0.108 A
0.000 VD

298-02-4452
Node
B Phase
120.937 V
0.203 A
0.000 VD

318-14-5393
Node
A Phase
122.580 V
1.525 A
0.000 VD



Balltown fdr 05  
Winter 2008 Load Level  
After Corrections

# BALLTOWN SUBSTATION

## 2008 LOAD LEVEL AFTER CORRECTIONS

14,177 KW

FDR 01 3.13 MILE 2ACWC TO 336.4 ACSR (\$228,490)  
FDR 01 3 PHASE 150 AMP REGULATOR (\$23,600)  
FDR 01 3 PHASE 150 AMP REGULATOR (\$23,600)  
FDR 01 1 PHASE 100 AMP REGULATOR (\$6,300)

FDR 02 1.70 MILE DC 2ACWC TO DC 397 SPACER CABLE(\$221,000)  
FDR 04 1.70 MILE DC 2ACWC TO DC 397 SPACER CABLE

Balanced Voltage Drop Report  
Source: 01

Database: C:\MILSOFT\PROGRAMS\ALLSUBSCORRECTED.WM\  
Title:  
Case:

02/25/2005 11:22 Page 1

		Units Displayed In Volts															Element			
		-Base Voltage: 125.0-																		
Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
C 01			ABC BALLTOWN	7.20Y	125.0	0.00	0.00	658.12	110	13543	4321	95	0.00	0.0	0.000	0.000	0	0	0	2360 C
----- Feeder NO. 1		Beginning with Node Element 336-23-2262																		
336-23-2262	01		ABC Node	7.20Y	125.0	0.00	0.00	230.54	0	4710	1617	95	0.00	0.0	0.000	0.000	0	0	0	923
C 373-06-1244	PROH97701		ABC L-100 OCR	6.79Y	117.9	0.00	7.12	115.54	116	2256	669	96	0.00	0.0	3.853	0.000	0	0	0	442 C
C 406-00-2191	PROH92780		A 4R-70 OCR	6.88Y	119.5	0.00	5.51	75.41	108	499	141	96	0.00	0.0	8.479	0.000	0	0	0	90 C
C 390-06-7350	PROH79922		C H-50 OCR	7.06Y	122.5	0.00	2.49	52.62	105	357	100	96	0.00	0.0	5.425	0.000	0	0	0	66 C
----- Feeder NO. 2		Beginning with Node Element 336-23-2062																		
336-23-2062	01		ABC Node	7.20Y	125.0	0.00	0.00	173.84	0	3584	1120	95	0.00	0.0	0.000	0.000	0	0	0	594
----- Feeder NO. 4		Beginning with Node Element 336-23-2063																		
336-23-2063	01		ABC Node	7.20Y	125.0	0.00	0.00	74.75	0	1548	459	96	0.00	0.0	0.000	0.000	0	0	0	300
C 335-19-8112	PROH98122		B H-50 OCR	7.13Y	123.9	0.00	1.14	81.65	163	560	159	96	0.00	0.0	4.674	0.000	0	0	0	116 C
----- Feeder NO. 5		Beginning with Node Element 336-23-2263																		
336-23-2263	01		ABC Node	7.20Y	125.0	0.00	0.00	179.08	0	3701	1125	96	0.00	0.0	0.000	0.000	0	0	0	543

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total		
KW	13050	0	0	0	0	0	492	0.00	13543	Lowest Voltage = 117.07 on Element PROH97934	
KVAR	3600	0	0	-20	0	0	741		4321	Max Accm VoltD = 7.93 on Element PROH97934	
										Max Elem VoltD = 0.84 on Element PROH96029	

Substation Summary:  
Substation

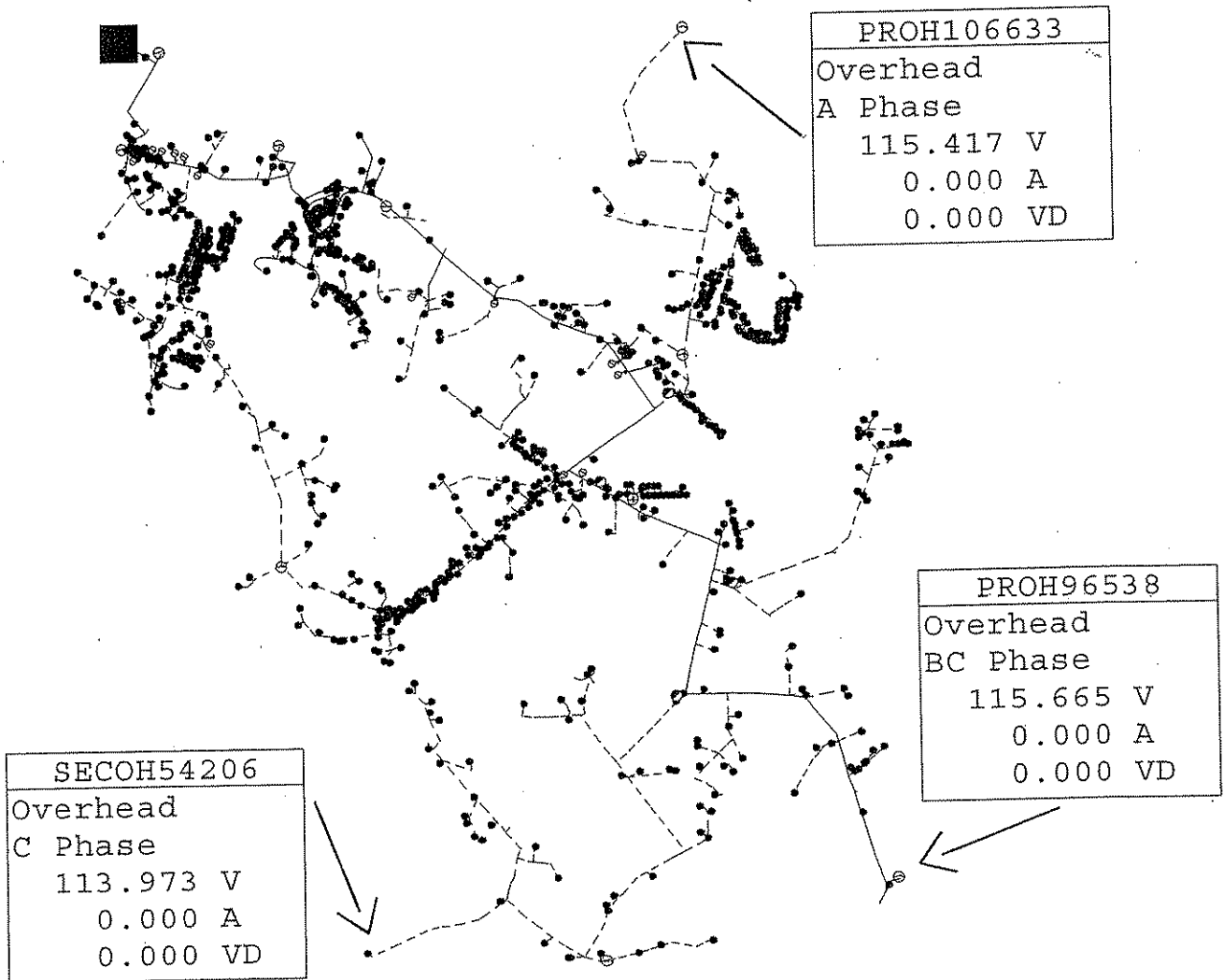
	KW	KW Losses	KVAR	KVAR Losses	KVA
01	13050.00	492.00	3600.00	741.00	14215.38
Total:	13050.00	492.00	3600.00	741.00	14215.38



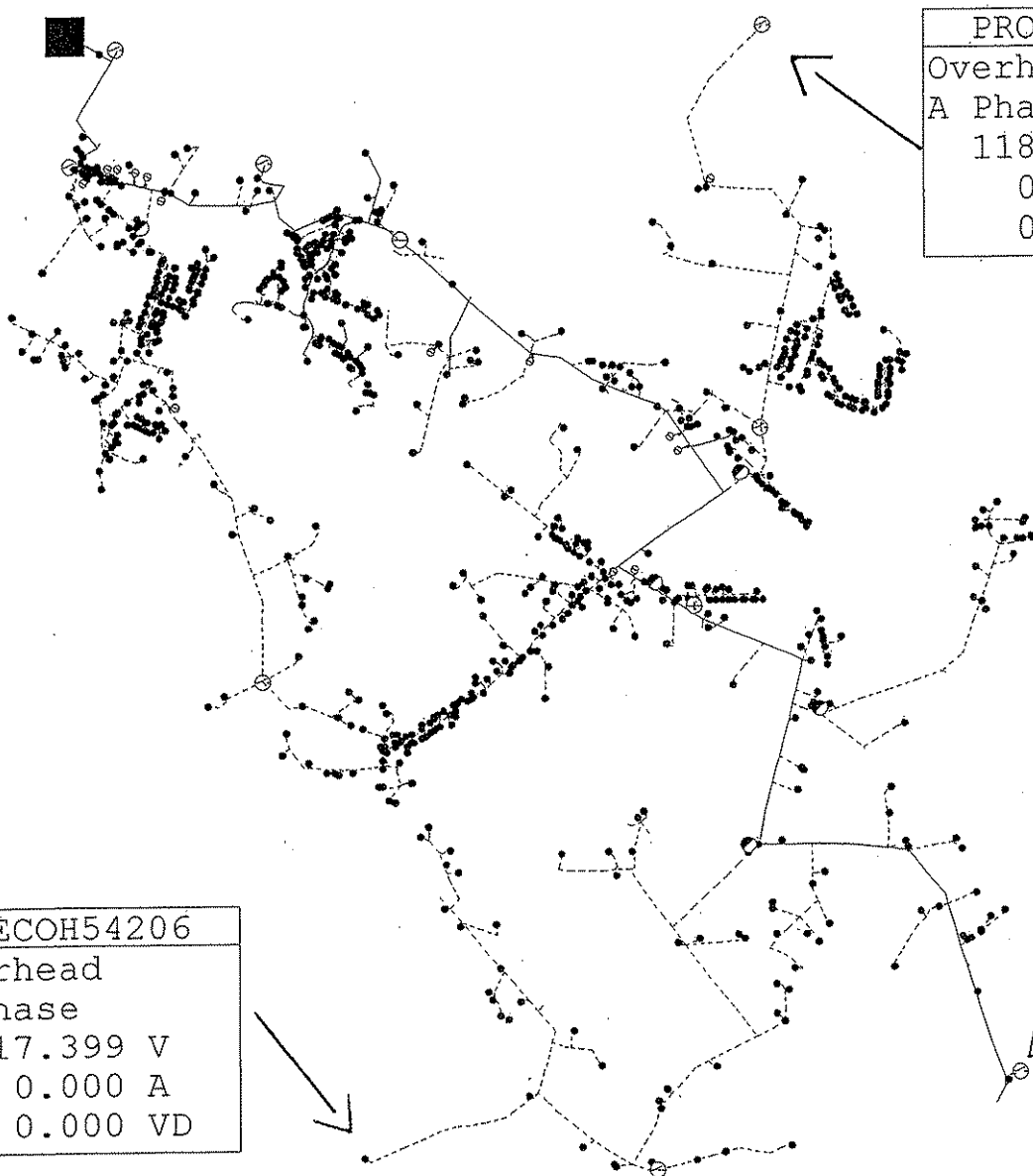
BARDSTOWN SHOPPING CENTER  
SUBSTATION

2008 LOAD LEVEL  
BEFORE CORRECTIONS

10,685 KW



Bardstown Shopping Center fdr 02  
 Winter 2008 Load Level  
 Before Corrections



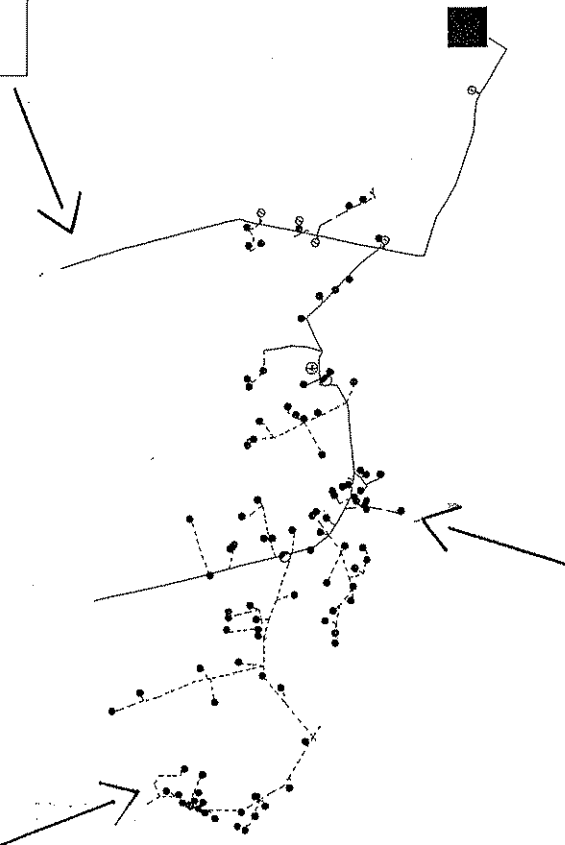
PROH106633
Overhead
A Phase
118.060 V
0.000 A
0.000 VD

PROH96538
Overhead
BC Phase
119.041 V
0.000 A
0.000 VD

SECOH54206
Overhead
C Phase
117.399 V
0.000 A
0.000 VD

Bardstown Shopping Center fdr 02  
 Winter 2008 Load Level  
 After  
 Corrections

PROH98580
Overhead
ABC Phase
122.328 V
0.000 A
0.000 VD

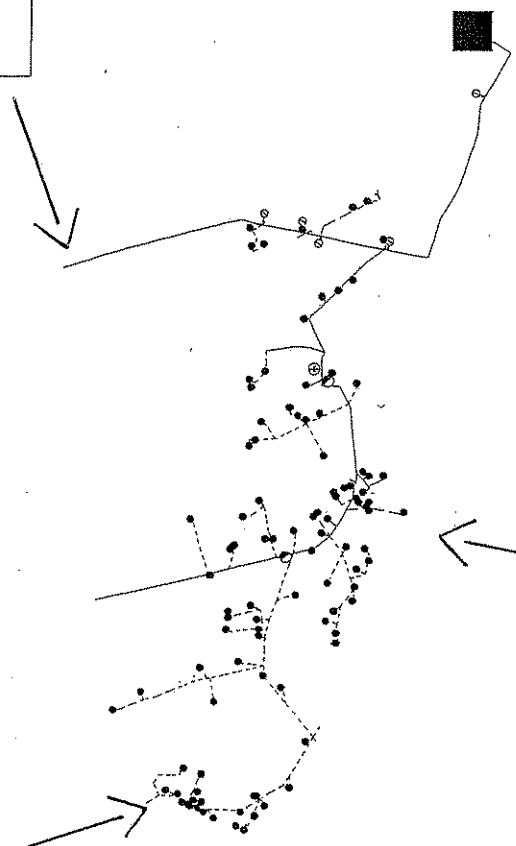


SECOH52175
Overhead
A Phase
119.495 V
0.377 A
0.000 VD

PROH99381
Overhead
B Phase
118.509 V
0.000 A
0.000 VD

Bardstown Shopping Center fdr 01  
 Winter 2008 Load Level  
 After

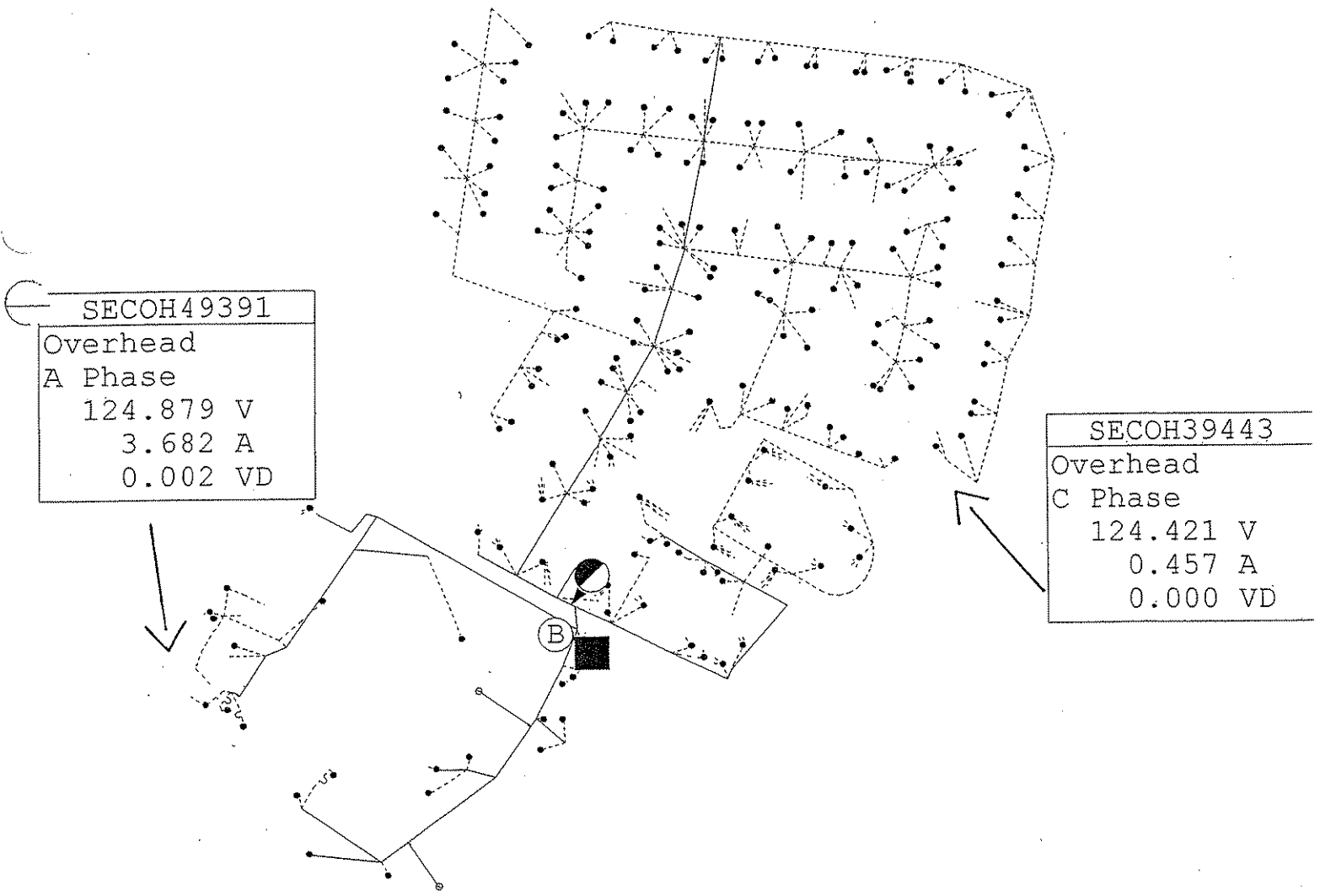
PROH98580
Overhead
ABC Phase
122.328 V
0.000 A
0.000 VD



SECOH52175
Overhead
A Phase
119.495 V
0.377 A
0.000 VD

PROH99381
Overhead
B Phase
118.509 V
0.000 A
0.000 VD

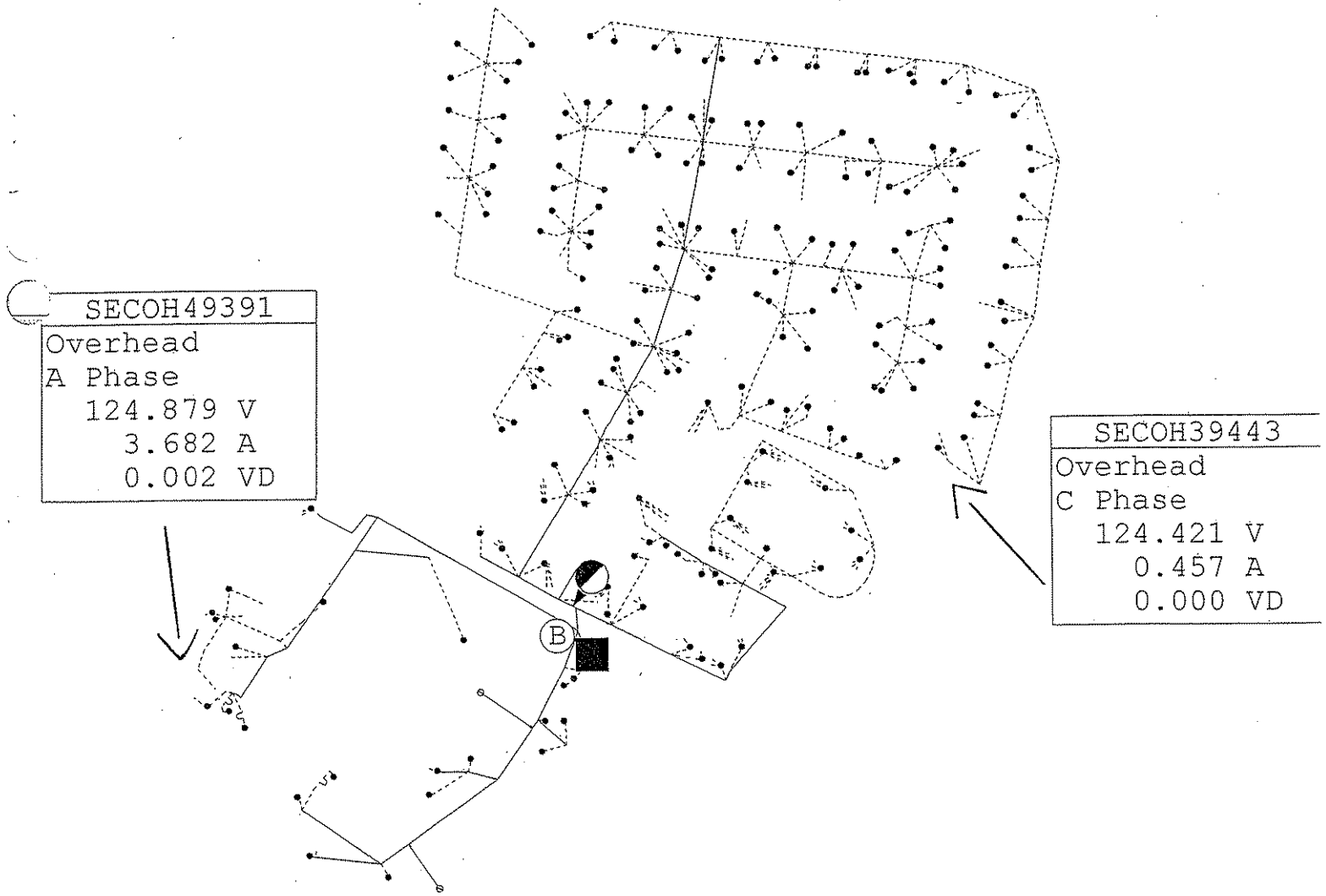
Bardstown Shopping Center fdr 01  
 Winter 2008 Load Level  
 Before  
 Corrections



SECOH49391
Overhead
A Phase
124.879 V
3.682 A
0.002 VD

SECOH39443
Overhead
C Phase
124.421 V
0.457 A
0.000 VD

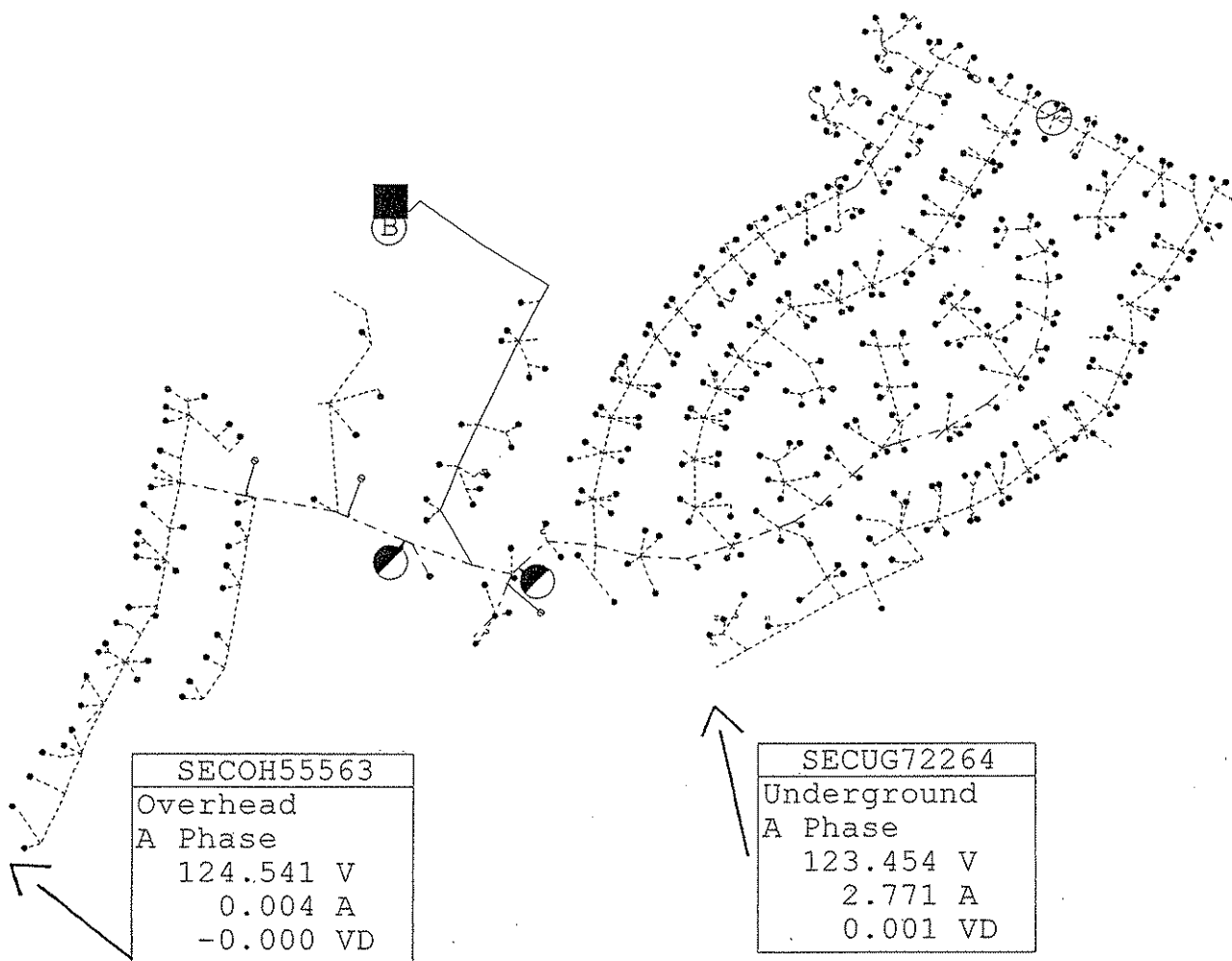
Bardstown Shopping Center fdr 05  
 Winter 2008 Load Level  
 After  
 Corrections



SECOH49391
Overhead
A Phase
124.879 V
3.682 A
0.002 VD

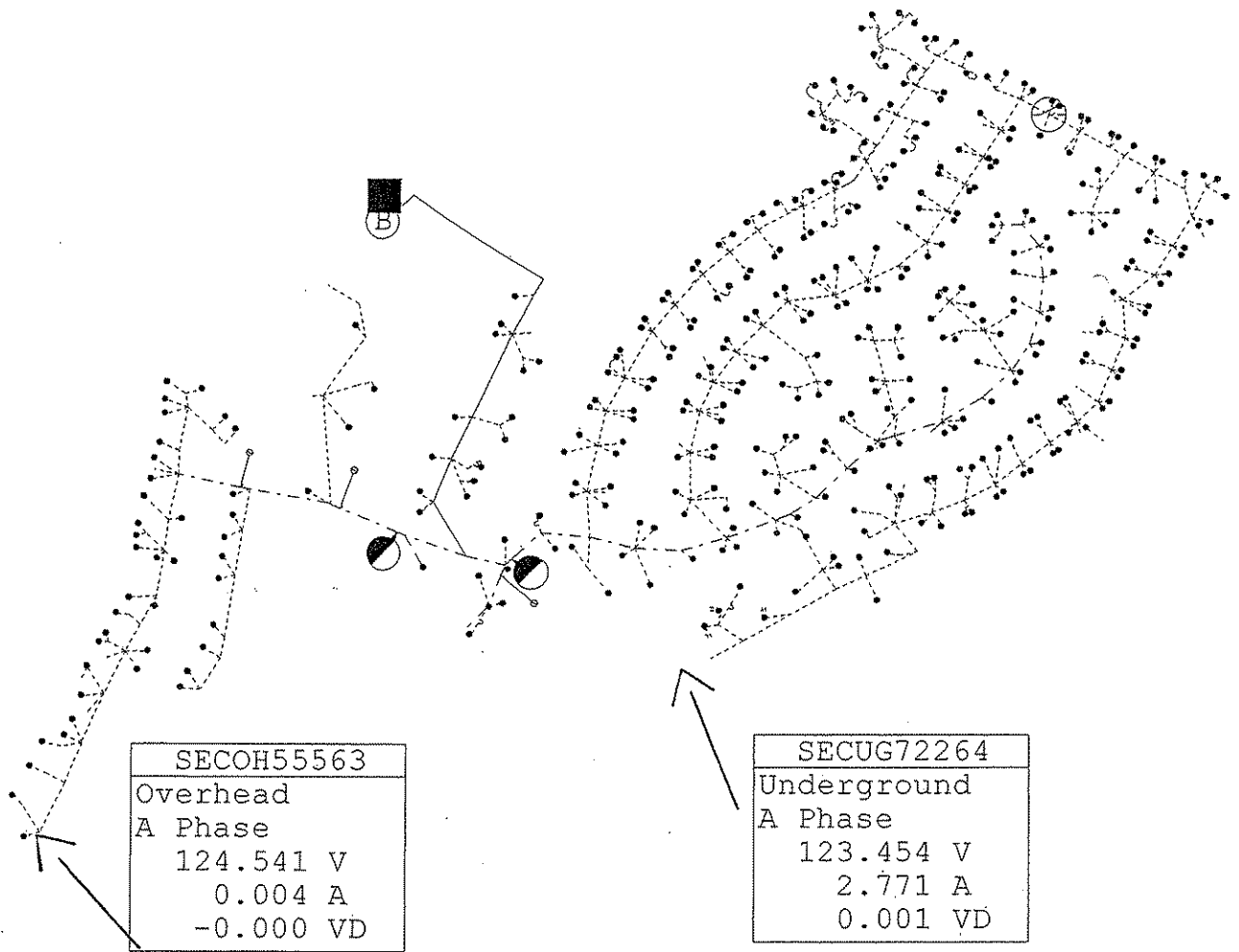
SECOH39443
Overhead
C Phase
124.421 V
0.457 A
0.000 VD

Bardstown Shopping Center fdr 05  
 Winter 2008 Load Level  
 Before  
 Corrections



Bardstown Shopping Center fdr 03  
 Winter 2008 Load Level  
 Before  
 Corrections





Bardstown Shopping Center fdr 03  
 Winter 2008 Load Level  
 After  
 Corrections

BLOOMFIELD SUBSTATION

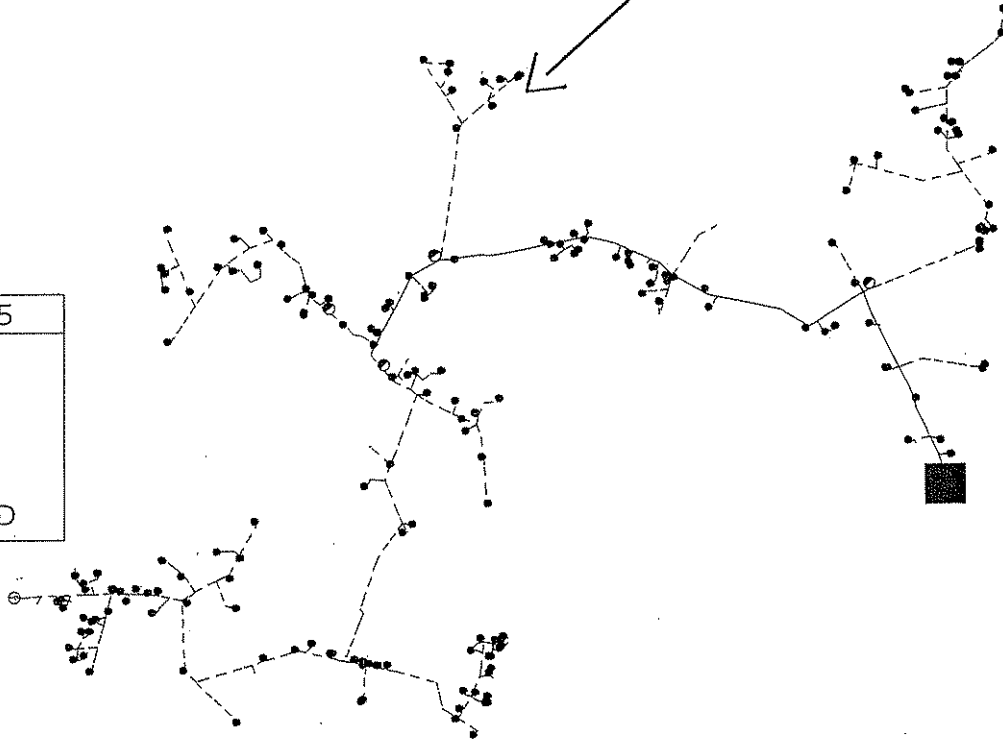
2008 LOAD LEVEL  
BEFORE CORRECTIONS

8,362 KW

PROH105602
Overhead
C Phase
122.866 V
0.158 A
0.001 VD

SECOH53612
Overhead
B Phase
123.576 V
0.896 A
0.001 VD

PROH106415
Overhead
C Phase
116.093 V
0.000 A
0.000 VD

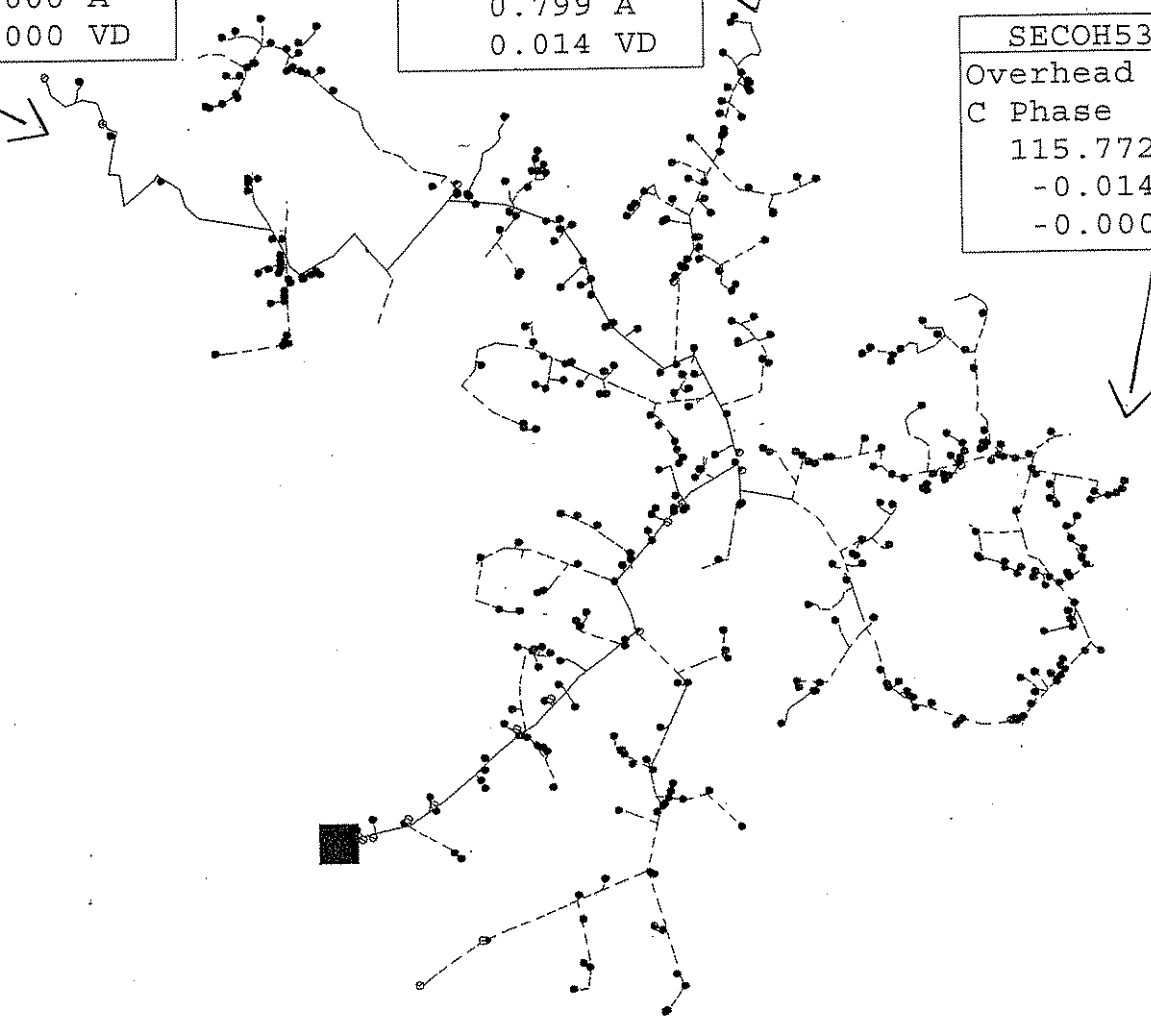


Bloomfield fdr 01  
 Winter 2008 Load Level  
 Before  
 Corrections

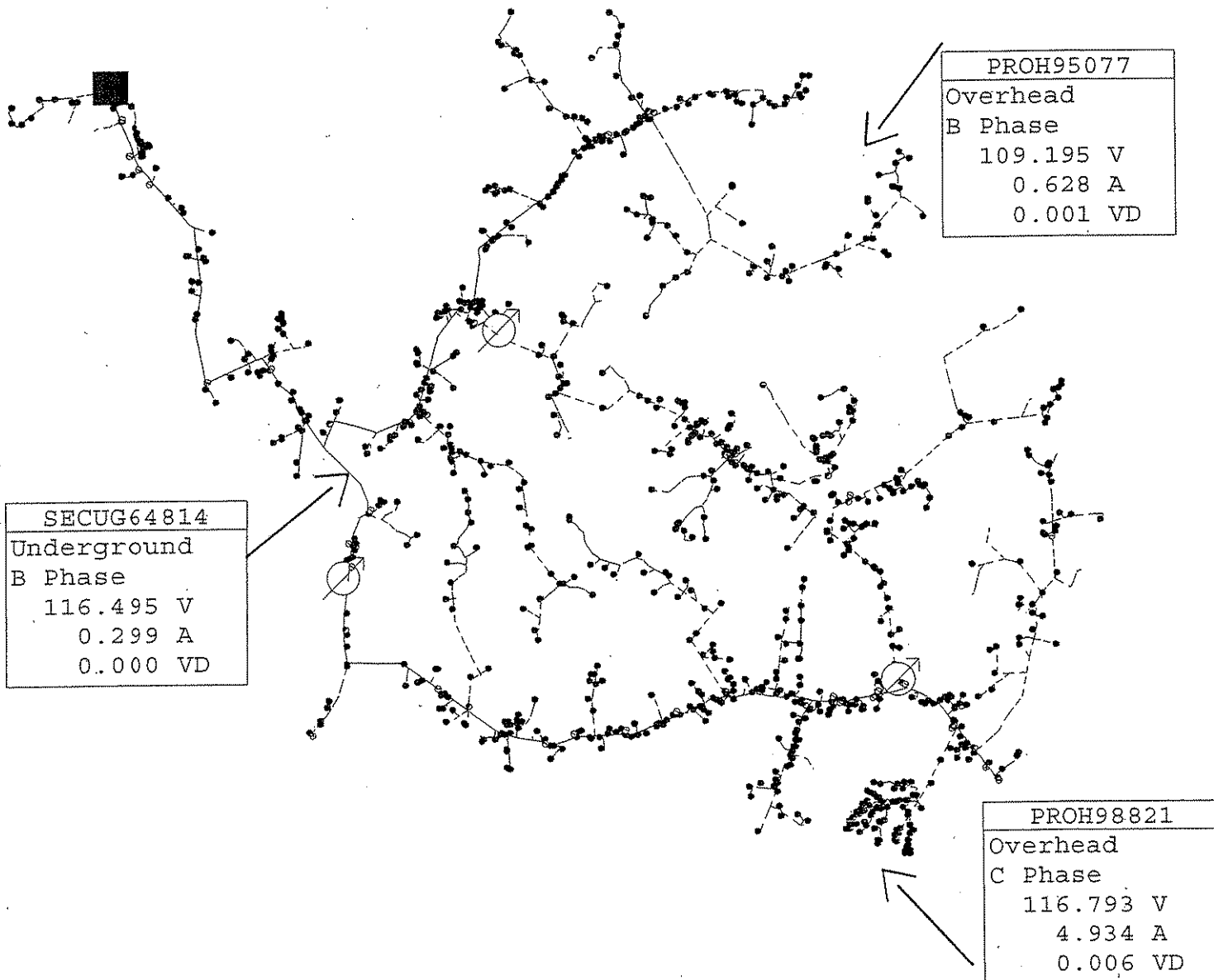
PROH105375
Overhead
ABC Phase
119.599 V
0.000 A
0.000 VD

PROH105467
Overhead
A Phase
118.585 V
0.799 A
0.014 VD

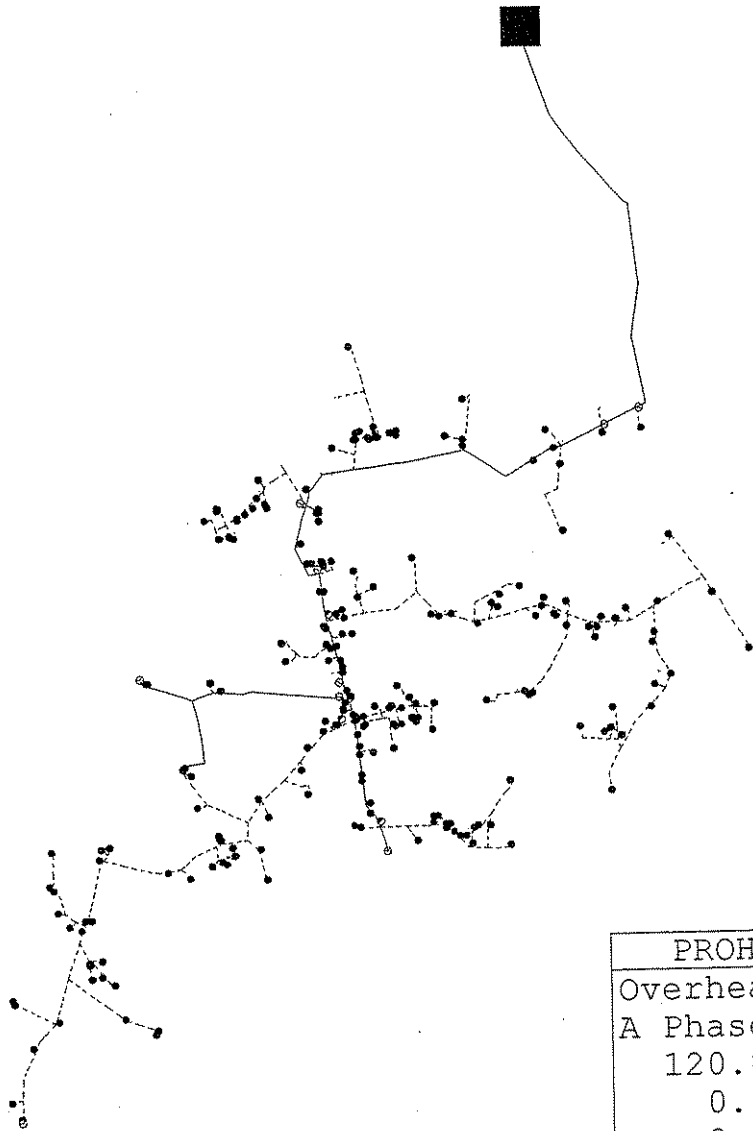
SECOH53029
Overhead
C Phase
115.772 V
-0.014 A
-0.000 VD



Bloomfield fdr 02  
 Winter 2008 Load Level  
 Before  
 Corrections



Bloomfield fdr 04  
 Winter 2008 Load Level  
 Before  
 Corrections



SECOH31179
Overhead
B Phase
118.015 V
1.516 A
0.001 VD

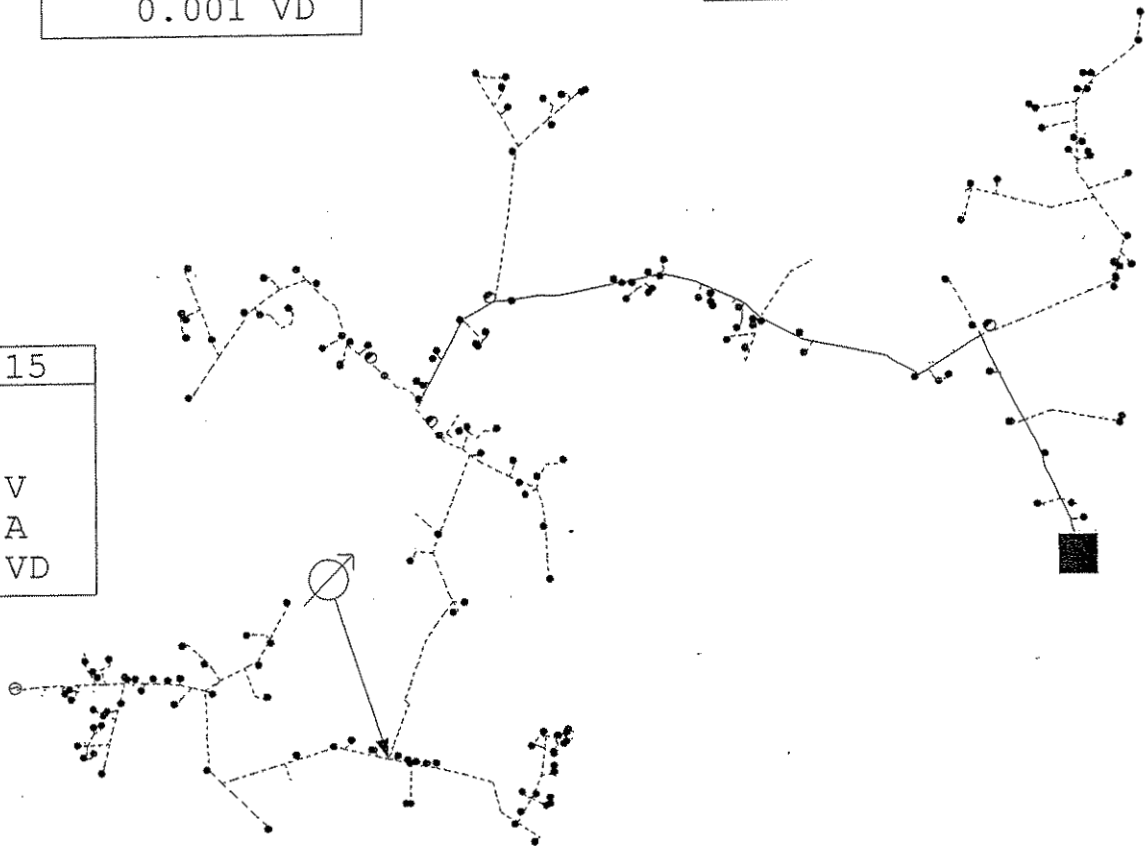
PROH80464
Overhead
A Phase
120.879 V
0.145 A
0.001 VD

Bloomfield fdr 05  
Winter 2008 Load Level  
Before  
Corrections

PROH105601
Overhead
C Phase
122.869 V
0.158 A
0.001 VD

PROH105581
Overhead
B Phase
123.577 V
0.896 A
0.004 VD

PROH106415
Overhead
C Phase
123.598 V
0.000 A
0.000 VD



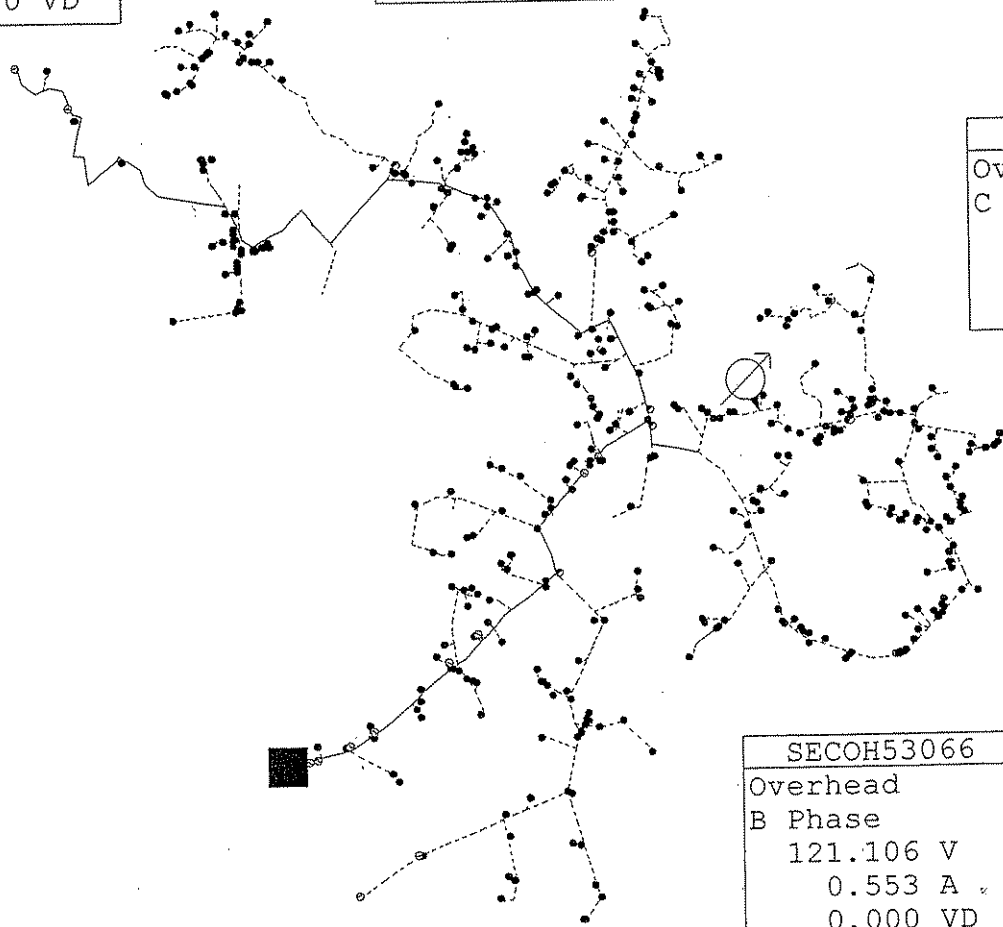
Bloomfield fdr 01  
 Winter 2008 Load Level  
 After  
 Corrections

PROH105375
Overhead
ABC Phase
119.603 V
0.000 A
0.000 VD

SECUG73688
Underground
A Phase
118.590 V
0.229 A
0.000 VD

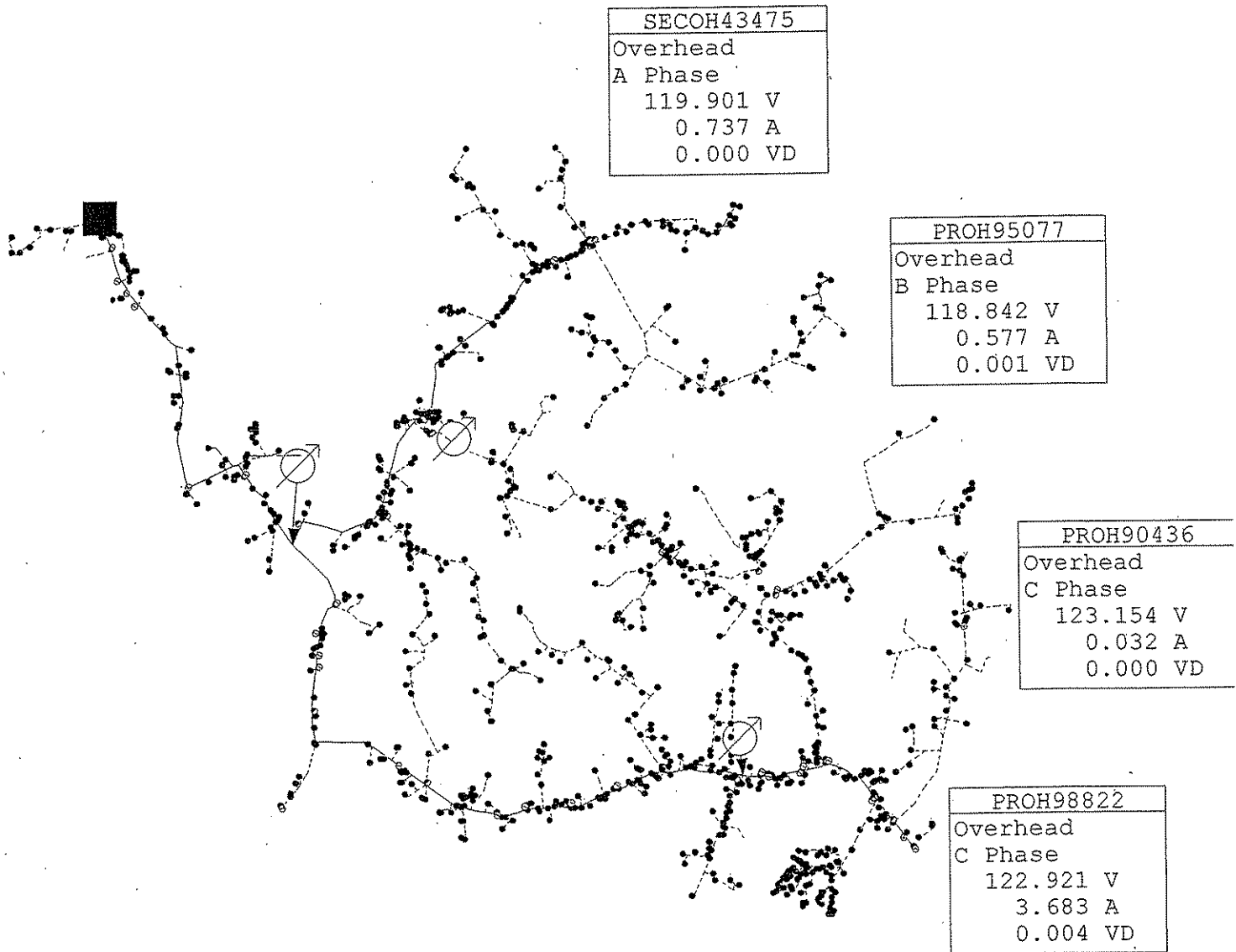
PROH75762
Overhead
C Phase
122.132 V
0.718 A
0.001 VD

SECOH53066
Overhead
B Phase
121.106 V
0.553 A
0.000 VD



Bloomfield fdr 02  
 Winter 2008 Load Level  
 After  
 Corrections





Bloomfield fdr 04  
 Winter 2008 Load Level  
 After  
 Corrections

# BLOOMFIELD SUBSTATION

2008 LOAD LEVEL  
AFTER CORRECTIONS

8,362 KW

FDR 04 1.47 MILE 1/0 CU TO 336.4ACSR (\$107,310)

FDR 04 300 AMP 3 PHASE REGULATOR (\$26,600)

FDR 04 150 AMP 3 PHASE REGULATOR (\$23,600)

FDR 01 100 AMP 1 PHASE REGULATOR (\$6,300)

FDR 02 100 AMP 1 PHASE REGULATOR (\$6,300)

Balanced Voltage Drop Report  
Source: 04

Database: C:\MILSOFT\PROGRAMS\ALLSUBS.WM\  
Title:  
Case:

02/28/2005 14:46 Page 1

		Units Displayed In Volts													Element					
		-Base Voltage:125.0-																		
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	KW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
04			ABC BLOOMFIELD	7.20Y	125.0	0.00	0.00	420.43	75	8657	2743	95	0.00	0.0	0.000	0.000	0	0	0	1530
----- Feeder NO. 5 Beginning with Node Element 185-08-6433																				
185-08-6433	04		ABC Node	7.20Y	125.0	0.00	0.00	58.84	0	1225	339	96	0.00	0.0	0.000	0.000	0	0	0	198
----- Feeder NO. 2 Beginning with Node Element 185-08-7133																				
185-08-7133	04		ABC Node	7.20Y	125.0	0.00	0.00	90.43	0	1882	523	96	0.00	0.0	0.000	0.000	0	0	0	377
----- Feeder NO. 1 Beginning with Node Element 185-08-7134																				
185-08-7134	04		ABC Node	7.20Y	125.0	0.00	0.00	44.89	0	937	249	97	0.00	0.0	0.000	0.000	0	0	0	163
----- Feeder NO. 4 Beginning with Node Element 185-08-7032																				
185-08-7032	04		ABC Node	7.20Y	125.0	0.00	0.00	226.54	0	4613	1633	94	0.00	0.0	0.000	0.000	0	0	0	792
C 244-14-0183	PROH93689		ABC L-100 OCR	7.06Y	122.6	0.00	2.41	104.56	105	2133	597	96	0.00	0.0	6.020	0.000	0	0	0	398 C
C 205-23-0390	PROH91375		B L-70 OCR	6.98Y	121.2	0.00	3.78	95.12	136	641	173	97	0.00	0.0	6.539	0.000	0	0	0	105 C

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total			
KW	4262	0	0	0	0	4044	351	0.00	8657	Lowest Voltage = 117.23	on Element SECOG74652		
KVAR	1036	0	0	-2	0	1111	598	0.00	2743	Max Accm VoltD = 7.77	on Element SECOG74652		
										Max Elem VoltD = 1.20	on Element PROH93161		

Substation Summary:

Substation	KW	KW Losses	KVAR	KVAR Losses	KVA
04	4262.00	351.00	1036.00	598.00	9081.24
Total:	4262.00	351.00	1036.00	598.00	9081.24

BLUE LICK SUBSTATION

2008 LOAD LEVEL  
BEFORE CORRECTIONS

8,765 KW

(PLUS 3000 KW SPOT LOAD)

SECOH51274
Overhead
C Phase
123.053 V
0.244 A
0.000 VD

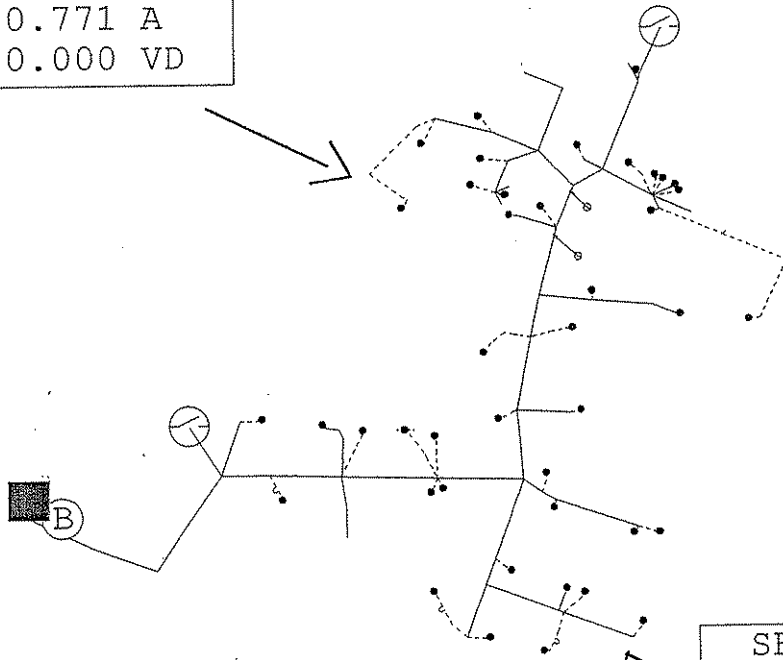
SECOH29631
Overhead
A Phase
123.249 V
0.418 A
0.000 VD

SECOH29531
Overhead
C Phase
124.067 V
1.685 A
0.001 VD



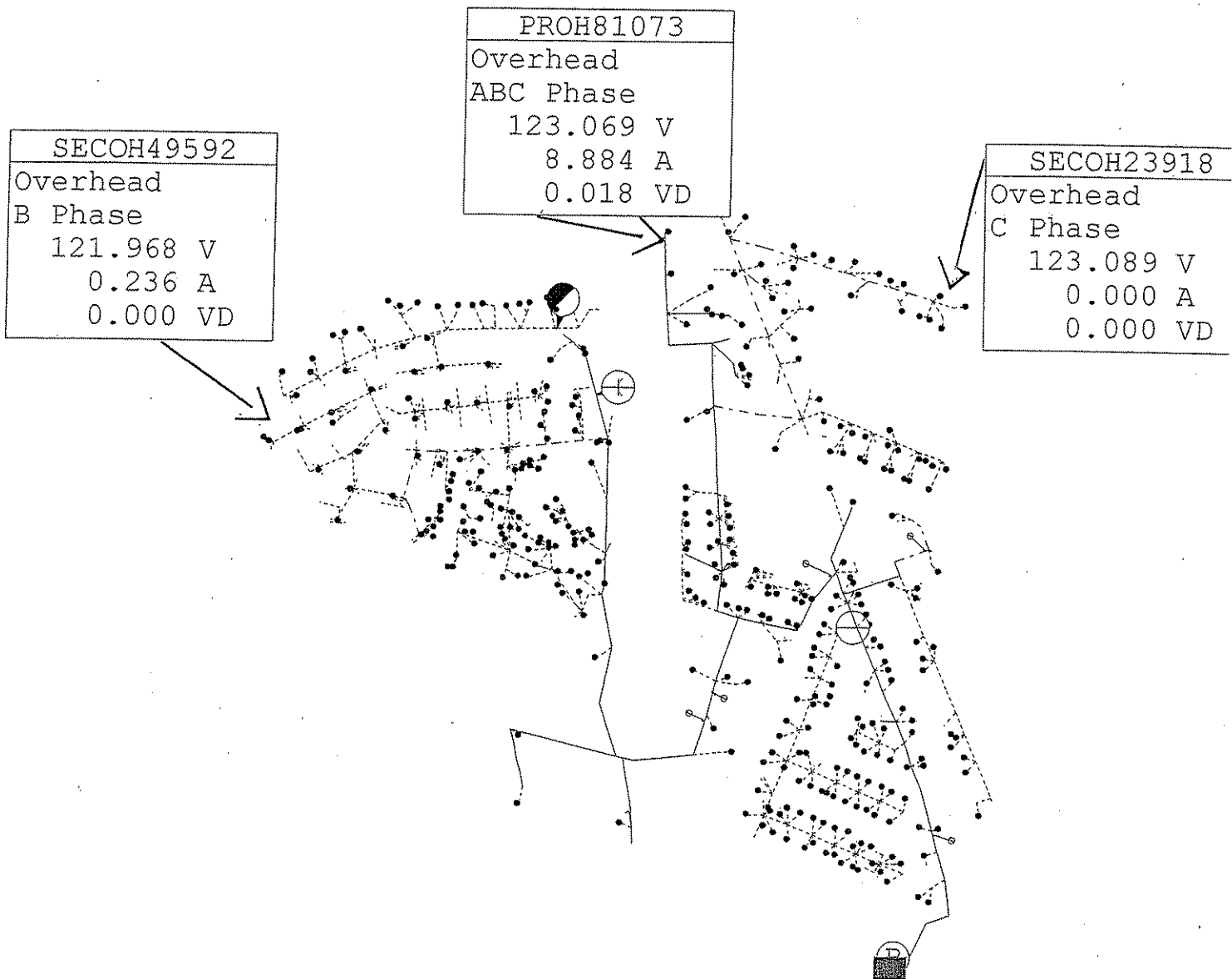
Blue Lick fdr 03  
 Winter 2008 Load Level  
 Before  
 Corrections

SECOH4761
Overhead
A Phase
124.543 V
0.771 A
0.000 VD



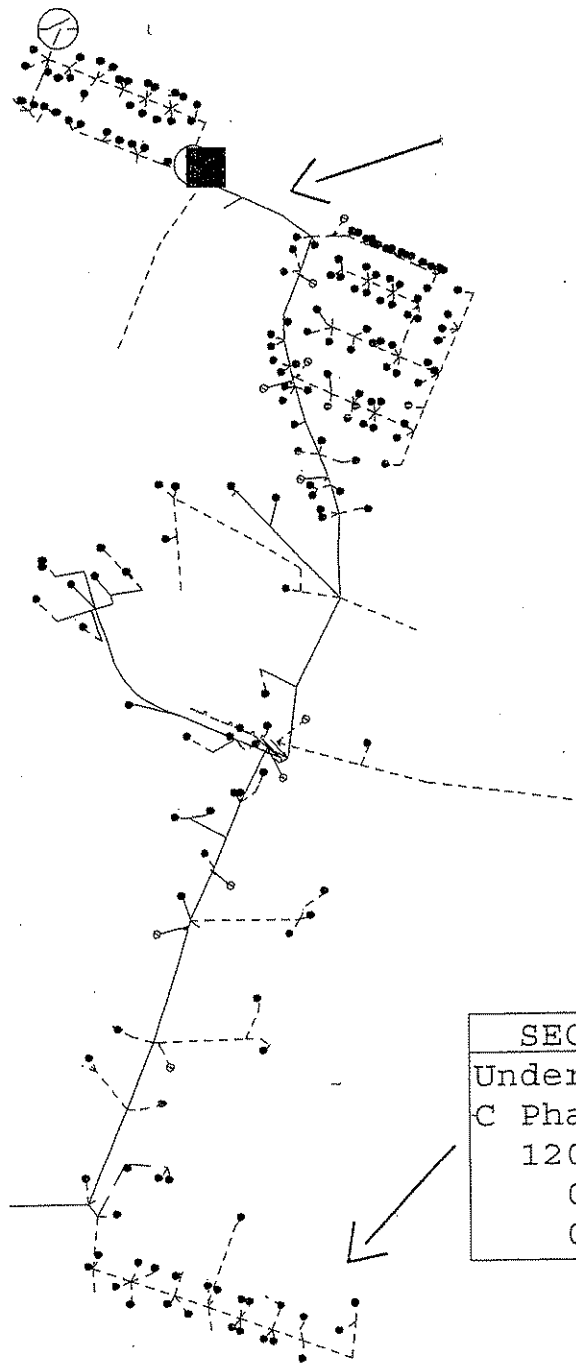
SECOH30555
Overhead
B Phase
124.618 V
1.021 A
0.000 VD

Blue Lick fdr 04  
 Winter 2008 Load Level  
 Before  
 Corrections



Blue Lick fdr 02  
 Winter 2008 Load Level  
 Before  
 Corrections

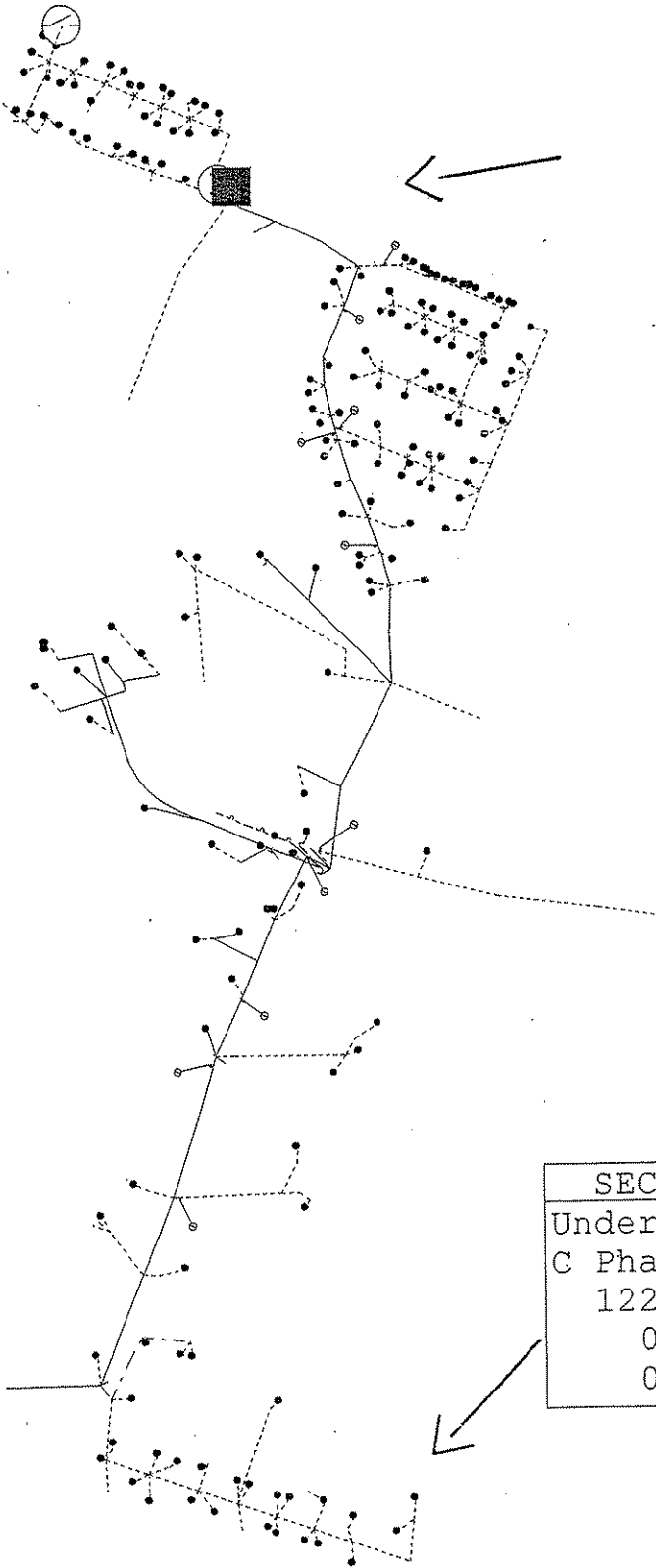




PROH101203
Overhead
ABC Phase
124.300 V
248.805 A
0.417 VD

SECUG59851
Underground
C Phase
120.786 V
0.318 A
0.000 VD

Blue Lick fdr 05  
 Winter 2008 Load Level  
 Before  
 Corrections



PROH101203
Overhead
ABC Phase
124.701 V
245.290 A
0.178 VD

SECUG59851
Underground
C Phase
122.654 V
0.313 A
0.000 VD

Blue Lick fdr 05  
 Winter 2008 Load Level  
 After  
 Corrections

Balanced Voltage Drop Report  
Source: 05

Database: C:\MILSOFT\PROGRAMS\ALLSUBS.WM\  
Title:  
Case:

		Units Displayed In Volts													Element					
		-Base Voltage:125.0-																		
Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
C 05		4	ABC BLUE LICK	7.20Y	125.0	0.00	0.00	578.74	103	11862	3945	95	0.00	0.0	0.000	0.000	0	0	0	1511 C
	Feeder NO.	4	Beginning with Node			Element 029-13-8370														
029-13-8370	05	2	ABC Node	7.20Y	125.0	0.00	0.00	53.81	0	1106	358	95	0.00	0.0	0.000	0.000	0	0	0	40
	Feeder NO.	2	Beginning with Node			Element 029-13-8371														
029-13-8371	05	5	ABC Node	7.20Y	125.0	0.00	0.00	142.63	0	2925	966	95	0.00	0.0	0.000	0.000	0	0	0	647
	Feeder NO.	5	Beginning with Node			Element 029-13-8171														
029-13-8171	05		ABC Node	7.20Y	125.0	0.00	0.00	254.07	0	5200	1754	95	0.00	0.0	0.000	0.000	0	0	0	178
C PROH109335	029-13-8171		ABC #2A CWC	7.20Y	125.0	0.03	0.03	254.07	106	5200	1754	95	0.97	0.0	0.006	0.006	0	0	0	178 C
C PROH109336	029-13-8071		ABC #2A CWC	7.20Y	124.9	0.03	0.06	254.07	106	5199	1753	95	1.23	0.0	0.013	0.007	0	0	0	178 C
C PROH109330	PROH109336		ABC #2A CWC	7.18Y	124.7	0.22	0.28	248.81	104	5090	1717	95	7.72	0.2	0.060	0.047	0	0	0	248 C
C PROH101203	PROH109330		ABC #2A CWC	7.16Y	124.3	0.42	0.70	248.81	104	5082	1710	95	14.58	0.3	0.149	0.089	0	0	0	148 C
C PROH101218	PROH101203		ABC #2A CWC	7.15Y	124.1	0.18	0.88	245.74	102	5005	1677	95	6.26	0.1	0.188	0.039	0	0	0	127 C
C PROH101219	PROH101218		ABC #2A CWC	7.15Y	124.1	0.02	0.90	245.09	102	4985	1667	95	0.57	0.0	0.192	0.004	0	0	0	125 C
C PROH101220	029-14-1234		ABC #2A CWC	7.14Y	123.9	0.22	1.12	245.09	102	4985	1667	95	7.68	0.2	0.240	0.048	0	0	0	125 C
C PROH101221	PROH101220		ABC #2A CWC	7.13Y	123.8	0.13	1.25	244.91	102	4973	1659	95	4.33	0.1	0.267	0.027	0	0	0	124 C
C PROH101222	PROH101221		ABC #2A CWC	7.12Y	123.6	0.13	1.38	244.97	102	4962	1653	95	4.44	0.1	0.295	0.028	0	0	0	122 C
C PROH101223	PROH101222		ABC #2A CWC	7.12Y	123.6	0.05	1.43	243.72	102	4940	1643	95	1.76	0.0	0.307	0.011	0	0	0	119 C
C PROH101224	PROH101223		ABC #2A CWC	7.12Y	123.5	0.03	1.46	234.74	98	4756	1583	95	1.02	0.0	0.314	0.007	0	0	0	75 C
C PROH101225	029-14-0004		ABC #2A CWC	7.11Y	123.5	0.02	1.48	234.74	98	4755	1582	95	0.69	0.0	0.318	0.005	0	0	0	75 C
C PROH101226	PROH101225		ABC #2A CWC	7.10Y	123.3	0.17	1.65	233.99	97	4739	1576	95	5.65	0.1	0.357	0.039	0	0	0	72 C
C PROH101227	PROH101226		ABC #2A CWC	7.10Y	123.2	0.17	1.82	233.76	97	4729	1570	95	5.59	0.1	0.396	0.039	0	0	0	71 C
C PROH101228	PROH101227		ABC #2A CWC	7.09Y	123.1	0.13	1.95	232.77	97	4703	1558	95	4.10	0.1	0.425	0.029	0	0	0	68 C
C PROH101229	029-20-1181		ABC #2A CWC	7.09Y	123.0	0.03	1.98	232.77	97	4699	1555	95	1.00	0.0	0.432	0.007	0	0	0	68 C
C PROH101230	PROH101229		ABC #2A CWC	7.08Y	122.9	0.14	2.12	231.84	97	4681	1548	95	4.58	0.1	0.464	0.032	0	0	0	65 C
C PROH101231	PROH101230		ABC #2A CWC	7.06Y	122.6	0.40	2.51	231.46	96	4667	1541	95	12.89	0.3	0.555	0.091	0	0	0	62 C
C PROH101232	PROH101231		ABC #2A CWC	7.03Y	122.1	0.42	2.93	206.58	86	4153	1368	95	12.17	0.3	0.662	0.108	0	0	0	58 C
C PROH101233	PROH101232		ABC #2A CWC	7.01Y	121.8	0.30	3.23	201.92	84	4047	1327	95	8.42	0.2	0.741	0.078	0	0	0	57 C
	Feeder NO.	1	Beginning with Node			Element 029-13-8172														
029-13-8172	05		ABC Node	7.20Y	125.0	0.00	0.00	128.24	0	2631	867	95	0.00	0.0	0.000	0.000	0	0	0	646

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total			
KW	11662	0	0	0	0	0	200	0.00	11862	Lowest Voltage =	120.79	on Element SECUGS7797
KVAR	3781	0	0	-9	0	0	174		3945	Max Accum VoltD =	4.21	on Element SECUGS7797
										Max Elem VoltD =	0.42	on Element PROH101232

Substation Summary:  
Substation

	KW	KW Losses	KVAR	KVAR Losses	KVA
05	11662.00	200.00	3781.00	174.00	12500.80
Total:	11662.00	200.00	3781.00	174.00	12500.80

BLUE LICK SUBSTATION

2008 LOAD LEVEL  
AFTER CORRECTIONS

8,765 KW  
(PLUS 3000 KW SPOT LOAD)

FDR 04 0.73 MILE 2ACWC TO 336.4 ACSR (\$54,020)

Balanced Voltage Drop Report  
Source: 85

Database: C:\MILSOFT\PROGRAMS\ALLSUBS.WM\  
Title:  
Case:

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		Units Displayed In Volts															Element			
		-Base Voltage:125.0-																		
Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	% KVAR	PF	Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
C 05			ABC BLUE LICK	7.20Y	125.0	0.00	0.00	575.22	103	11788	3927	95	0.00	0.0	0.000	0.000	0	0	0	1511 C
	Feeder NO.	4	Beginning with Node Element 029-13-8370																	
029-13-8370	05		ABC Node	7.20Y	125.0	0.00	0.00	53.81	0	1106	358	95	0.00	0.0	0.000	0.000	0	0	0	40
	Feeder NO.	2	Beginning with Node Element 029-13-8371																	
029-13-8371	05		ABC Node	7.20Y	125.0	0.00	0.00	142.63	0	2925	966	95	0.00	0.0	0.000	0.000	0	0	0	647
	Feeder NO.	5	Beginning with Node Element 029-13-8171																	
029-13-8171	05		ABC Node	7.20Y	125.0	0.00	0.00	250.55	0	5126	1736	95	0.00	0.0	0.000	0.000	0	0	0	178
	Feeder NO.	1	Beginning with Node Element 029-13-8172																	
029-13-8172	05		ABC Node	7.20Y	125.0	0.00	0.00	128.24	0	2631	867	95	0.00	0.0	0.000	0.000	0	0	0	646

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total			
KW	5076	0	0	0	0	6662	50	0.00	11788	Lowest Voltage = 122.65 on Element SECUG57797		
KVAR	1656	0	0	-8	0	2191	89		3927	Max Accm VoltD = 2.35 on Element SECUG57797		
										Max Elem VoltD = 0.20 on Element FROM102173		

Substation Summary:

Substation	KW	KW Losses	KVAR	KVAR Losses	KVA
05	5076.00	50.00	1656.00	89.00	12424.81
Total:	5076.00	50.00	1656.00	89.00	12424.81

BROOKS SUBSTATION

2008 LOAD LEVEL  
BEFORE CORRECTIONS

11,836 KW

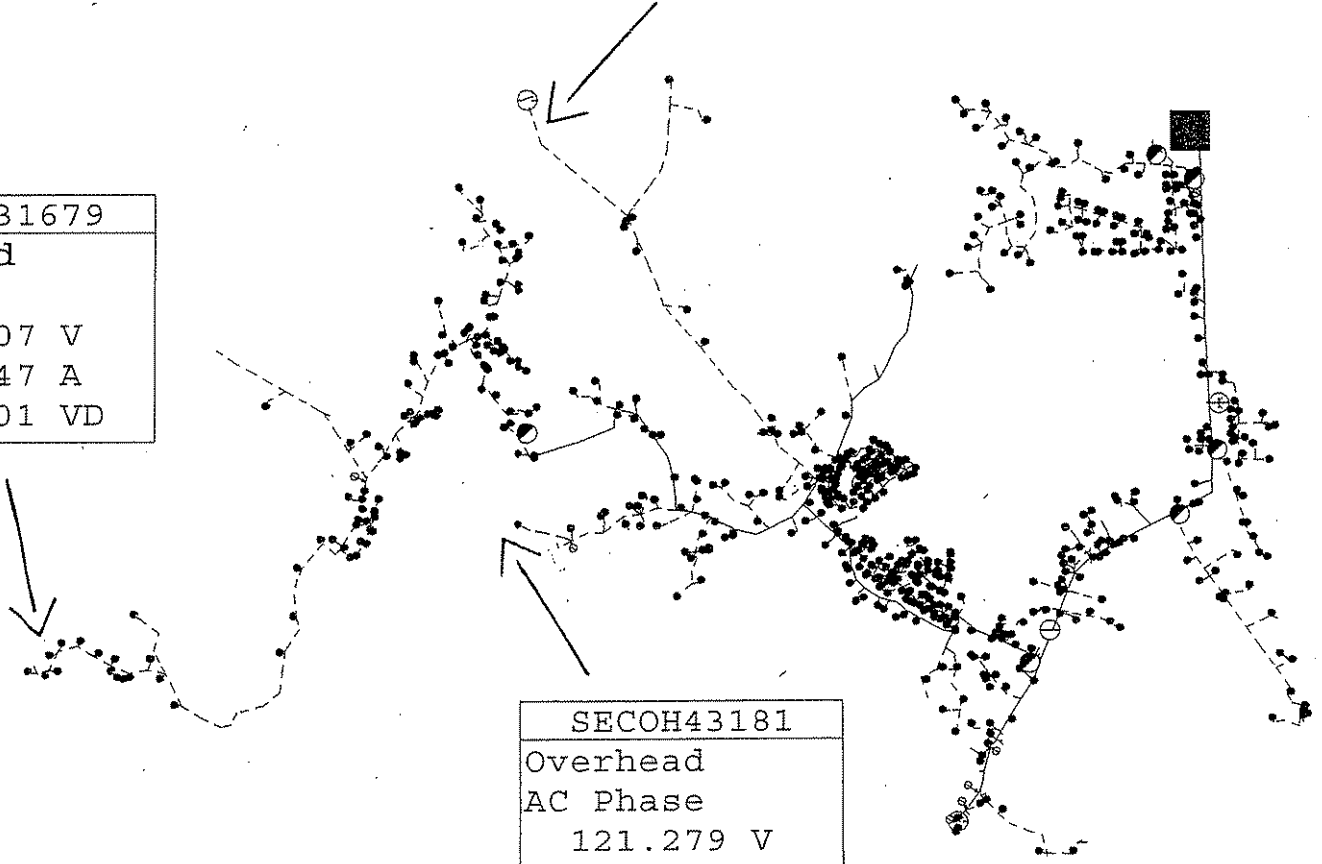
(PLUS 2000 KW SPOT LOAD)



SECOH110121
Overhead
B Phase
119.434 V
0.000 A
0.000 VD

SECOH31679
Overhead
C Phase
116.007 V
0.747 A
0.001 VD

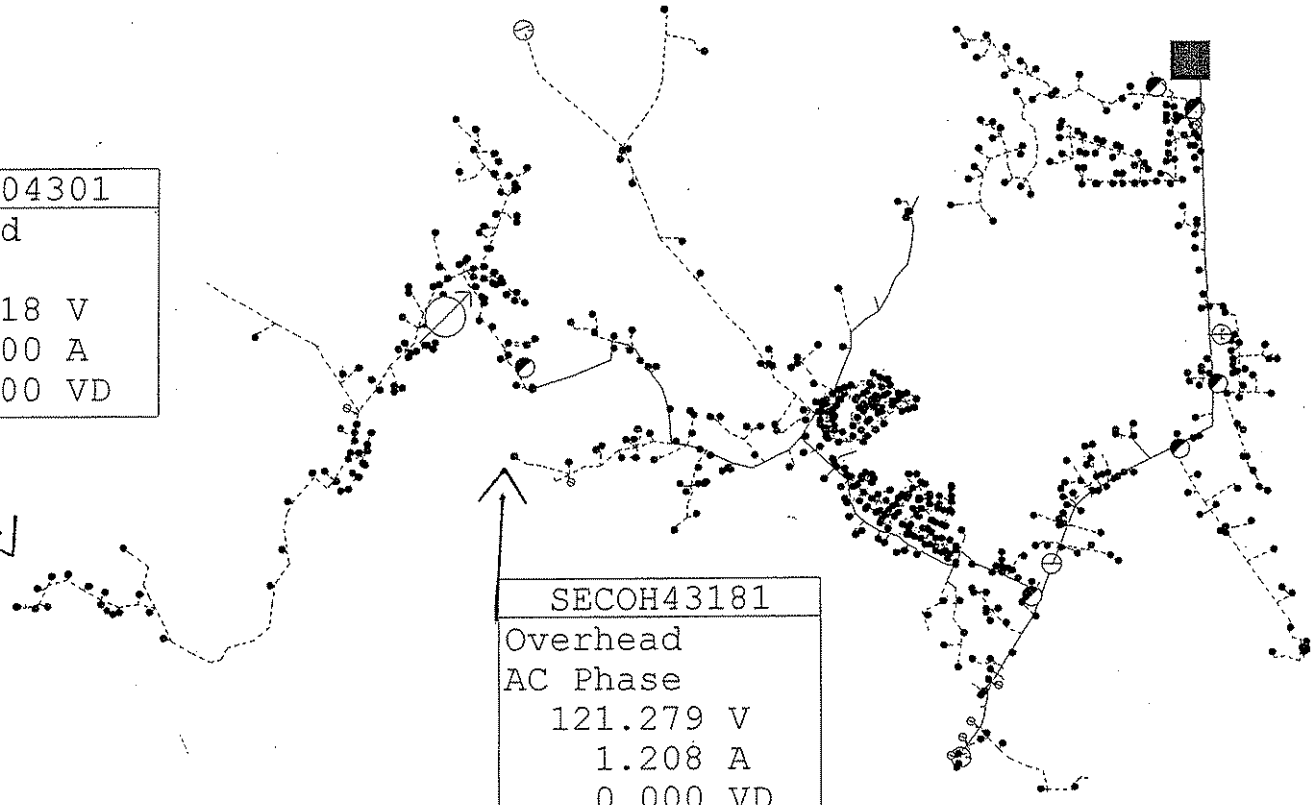
SECOH43181
Overhead
AC Phase
121.279 V
1.208 A
0.000 VD



Brooks fdr 05  
 Winter 2008 Load Level  
 Before  
 Corrections

PROH104301
Overhead
C Phase
124.118 V
0.000 A
0.000 VD

SECOH43181
Overhead
AC Phase
121.279 V
1.208 A
0.000 VD

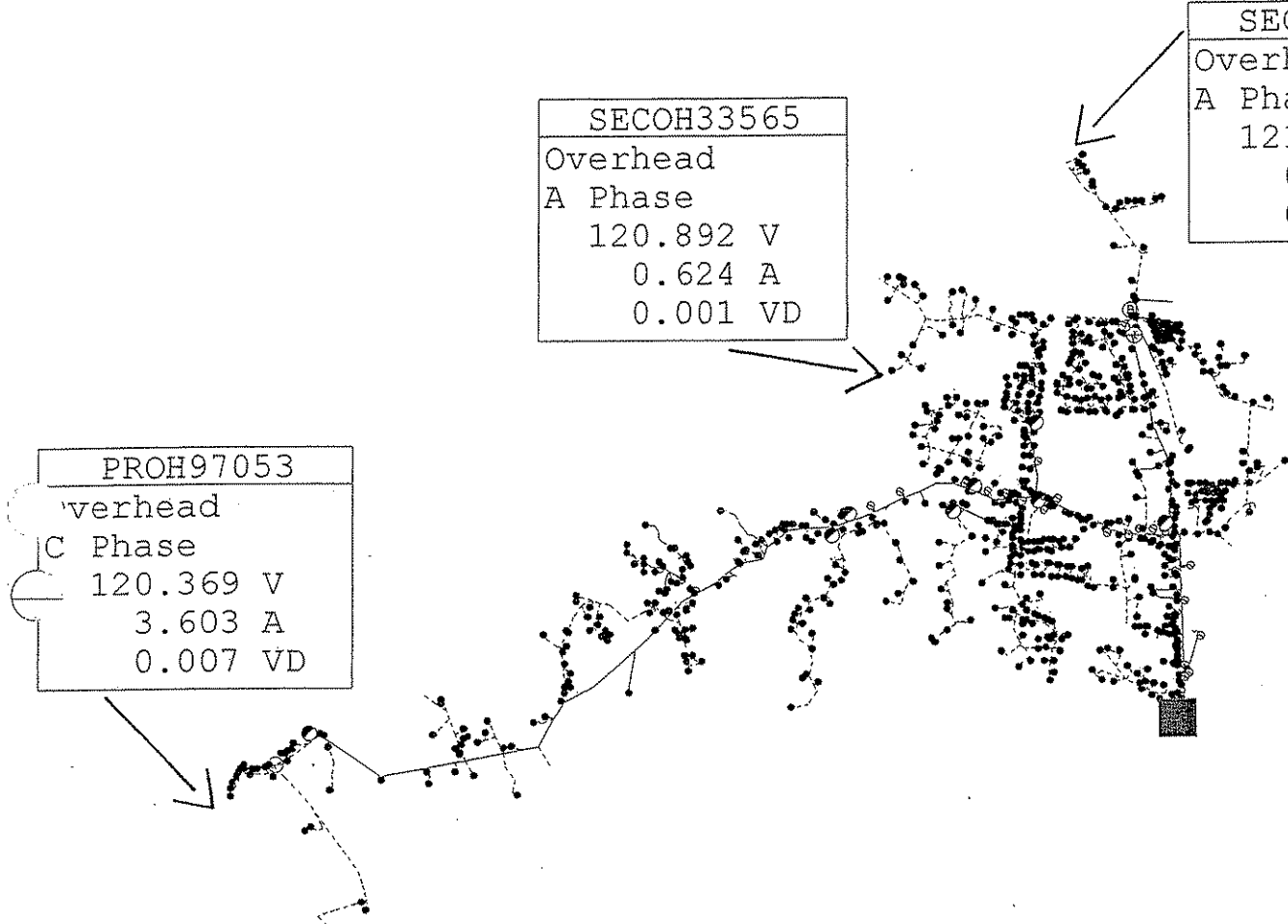


Brooks fdr 05  
 Winter 2008 Load Level  
 After  
 Corrections

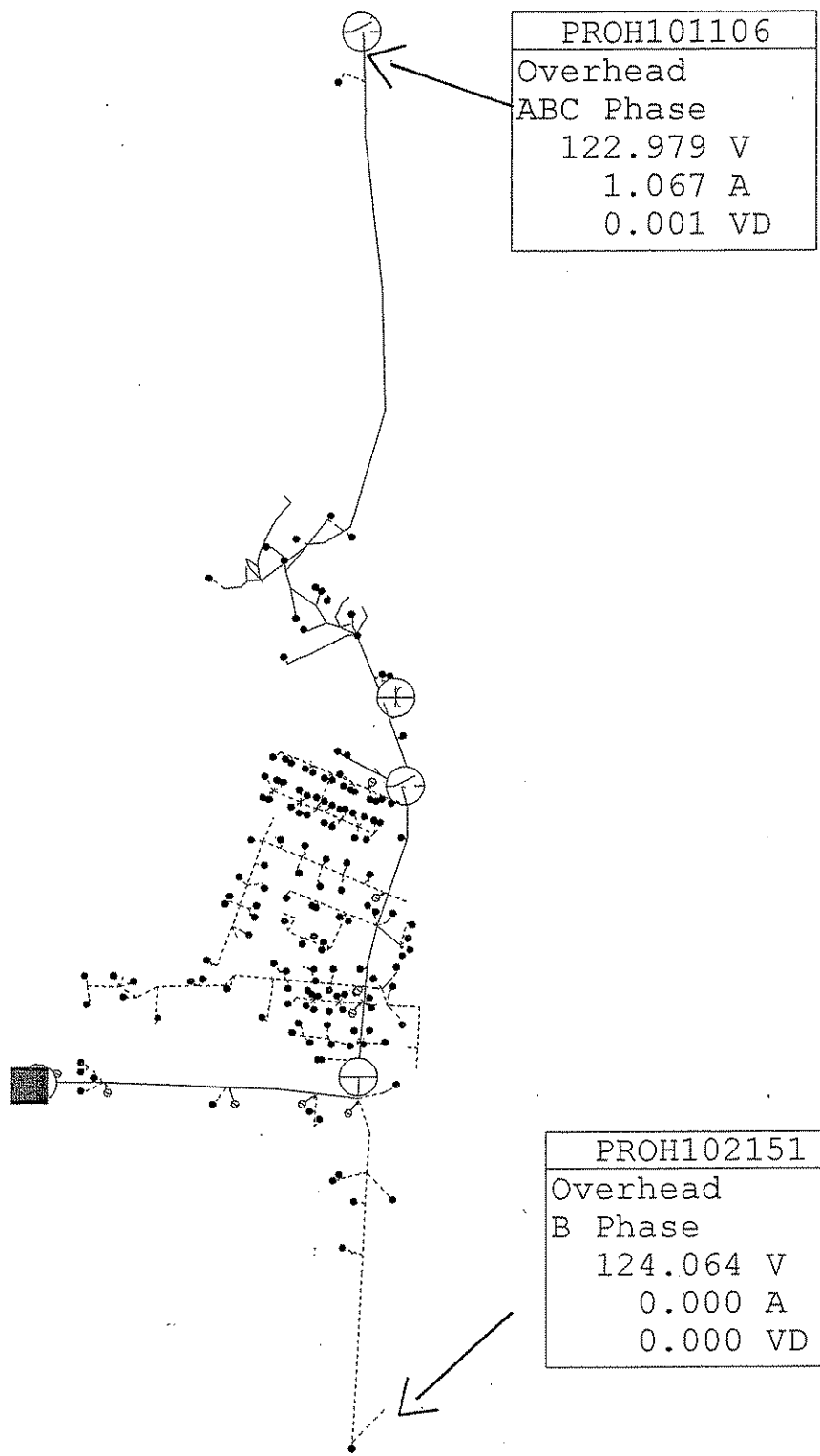
PROH97053
Overhead
C Phase
120.369 V
3.603 A
0.007 VD

SECOH33565
Overhead
A Phase
120.892 V
0.624 A
0.001 VD

SECOH33171
Overhead
A Phase
121.444 V
0.403 A
0.000 VD



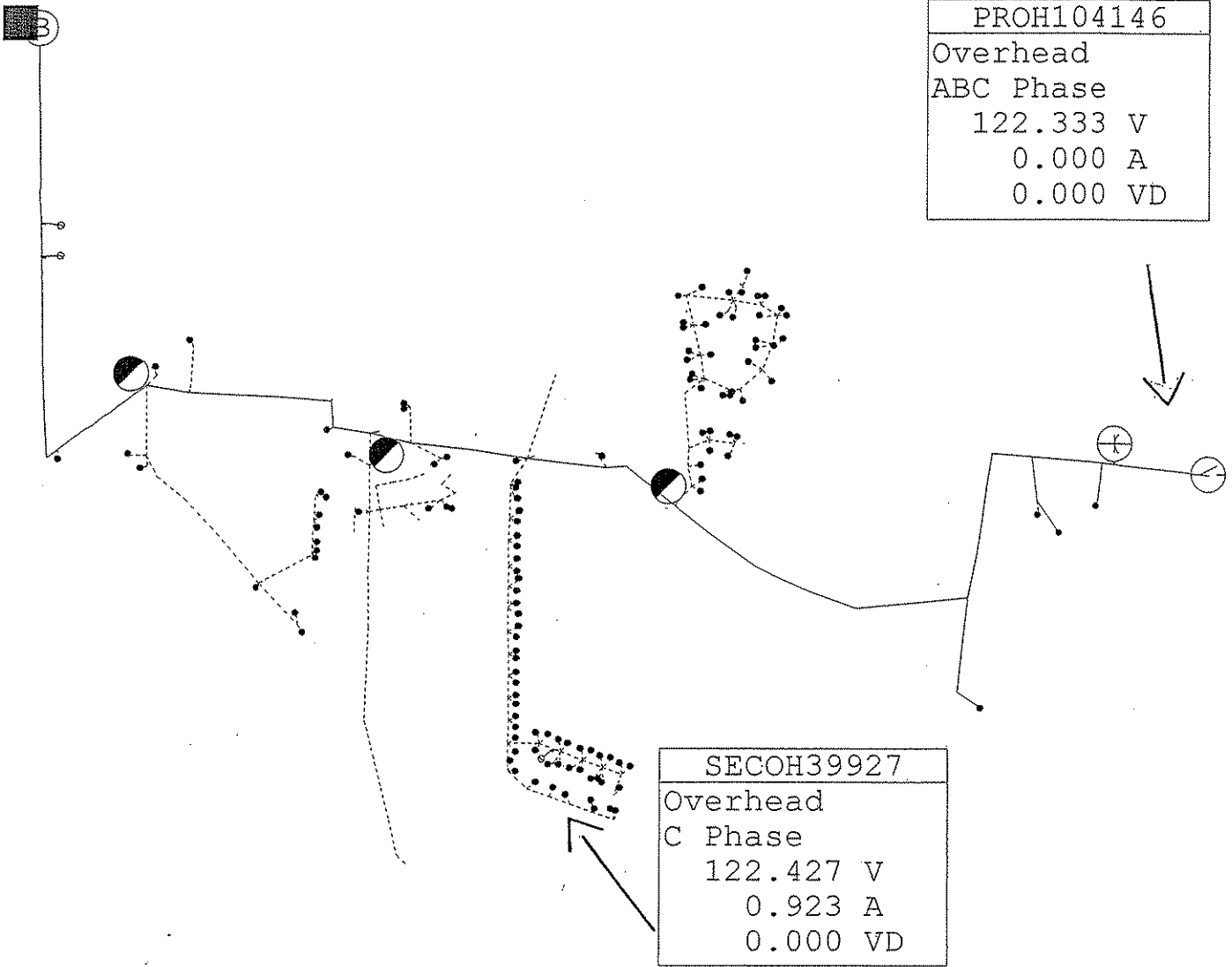
Brooks fdr 01  
 Winter 2008 Load Level  
 Before  
 Corrections



PROH101106
Overhead
ABC Phase
122.979 V
1.067 A
0.001 VD

PROH102151
Overhead
B Phase
124.064 V
0.000 A
0.000 VD

Brooks fdr 02  
 Winter 2008 Load Level  
 Before  
 Corrections



PROH104146
Overhead
ABC Phase
122.333 V
0.000 A
0.000 VD

SECOH39927
Overhead
C Phase
122.427 V
0.923 A
0.000 VD

Brooks fdr 04  
 Winter 2008 Load Level  
 Before  
 Corrections

BROOKS SUBSTATION

2008 LOAD LEVEL  
AFTER CORRECTIONS

11,836 KW

(PLUS 2000 KW SPOT LOAD)

FDR 05 1 PHASE REGULATOR (\$6,300)

Balanced Voltage Drop Report  
Source: 06

Database: C:\MILSOFT\PROGRAMS\ALLSUBS.WM\  
Title:  
Case:

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Units Displayed In Volts																			
-Base Voltage:125.0-																			
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	Element		
																Cons	Cons		
																On	Thru		
C 06			ABC BROOKS	7.20Y	125.0	0.00	0.00	669.31	120	13754	4454	95	0.00	0.0	0.000	0.000	0	0	0 1602 C
----- Feeder NO. 5		Beginning with Node Element 047-17-6141																	
047-17-6141	06		ABC Node	7.20Y	125.0	0.00	0.00	142.09	0	2919	949	95	0.00	0.0	0.000	0.000	0	0	0 559
----- Feeder NO. 4		Beginning with Node Element 047-17-6341																	
047-17-6341	06		ABC Node	7.20Y	125.0	0.00	0.00	94.05	0	1936	616	95	0.00	0.0	0.000	0.000	0	0	0 127
C 069-00-1184	PROH86514		ABC L-70 OCR	7.15Y	124.2	0.00	0.83	94.03	134	1926	600	95	0.00	0.0	0.926	0.000	0	0	0 126 C
----- Feeder NO. 2		Beginning with Node Element 047-17-6042																	
047-17-6042	06		ABC Node	7.20Y	125.0	0.00	0.00	341.64	0	7009	2308	95	0.00	0.0	0.000	0.000	0	0	0 759
C 047-04-0293	PROH101393		A L-50 OCR	7.03Y	122.0	0.00	3.00	79.69	159	535	164	96	0.00	0.0	1.448	0.000	0	0	0 95 C
----- Feeder NO. 3		Beginning with Node Element 047-17-6242																	
047-17-6242	06		ABC Node	7.20Y	125.0	0.00	0.00	91.56	0	1891	580	96	0.00	0.0	0.000	0.000	0	0	0 157

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total		
KW	13503	0	0	0	0	0	251		0.00	13754	Lowest Voltage = 117.01 on Element PROH101944	
KVAR	4147	0	0	-13	0	0	320			4454	Max Accm VoltD = 7.99 on Element PROH101944	
											Max Elem VoltD = 0.54 on Element PROH101395	

Substation Summary:  
Substation

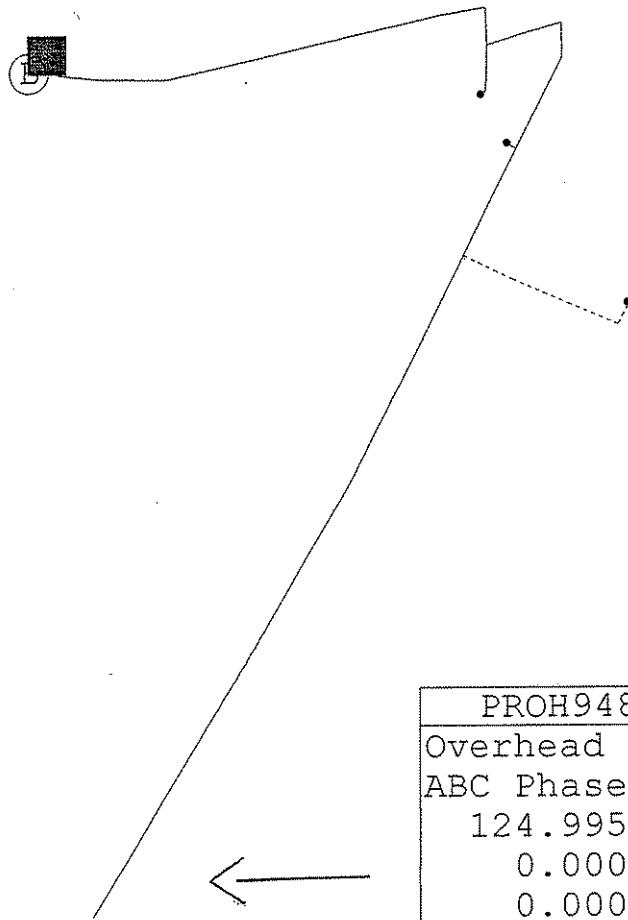
	KW	KW Losses	KVAR	KVAR Losses	KVA
06	13503.00	251.00	4147.00	320.00	14457.18
Total:	13503.00	251.00	4147.00	320.00	14457.18



EAST BARDSTOWN SUBSTATION

2008 LOAD LEVEL  
BEFORE CORRECTIONS

17,173 KW



PROH94891
Overhead
ABC Phase
124.995 V
0.000 A
0.000 VD

East BARDstown fdr 06  
Winter 2008 Load Level  
Before  
Corrections

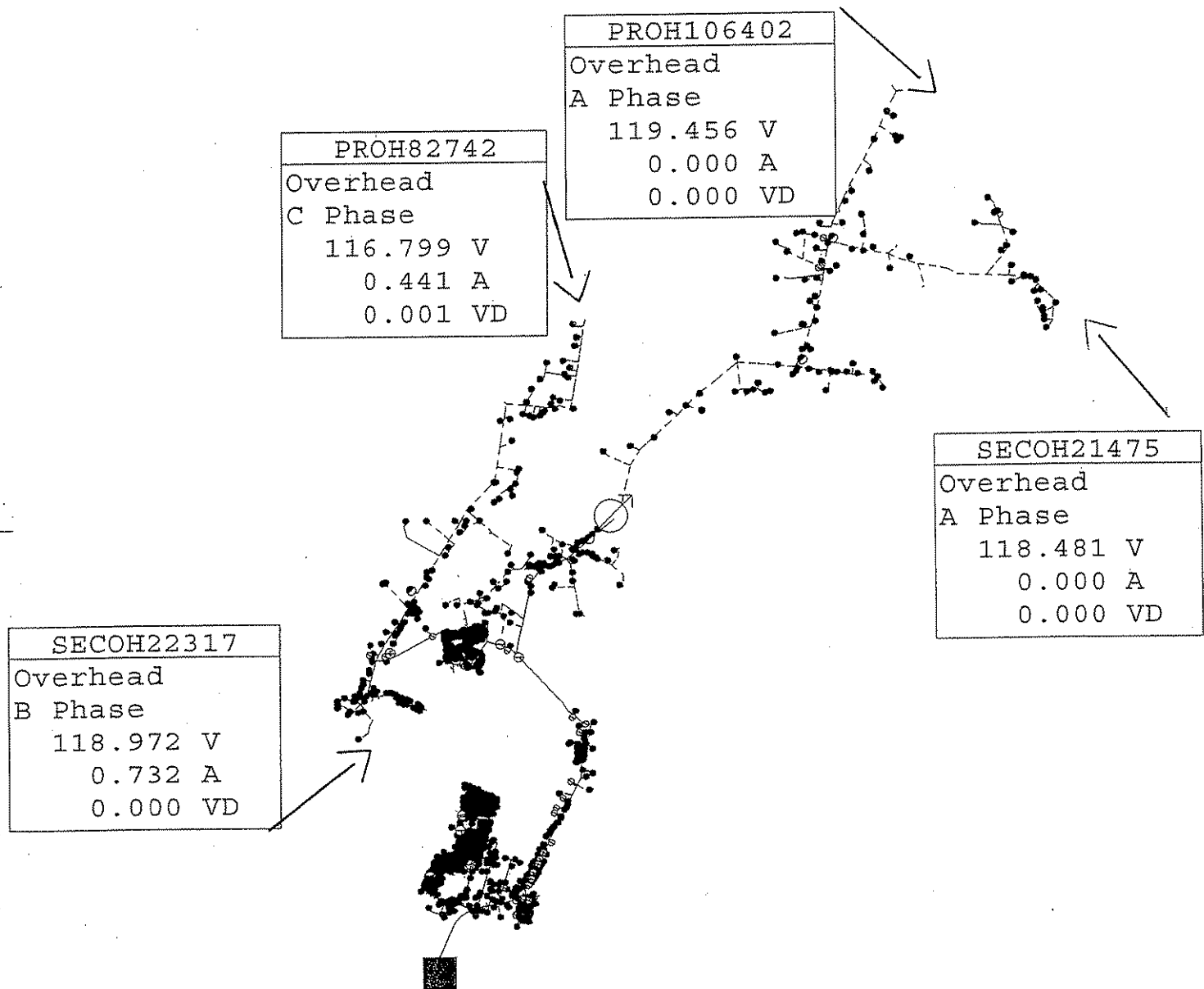
SECUG62730
Underground
A Phase
114.903 V
0.445 A
0.000 VD

PROH89116
Overhead
A Phase
113.163 V
0.000 A
0.000 VD

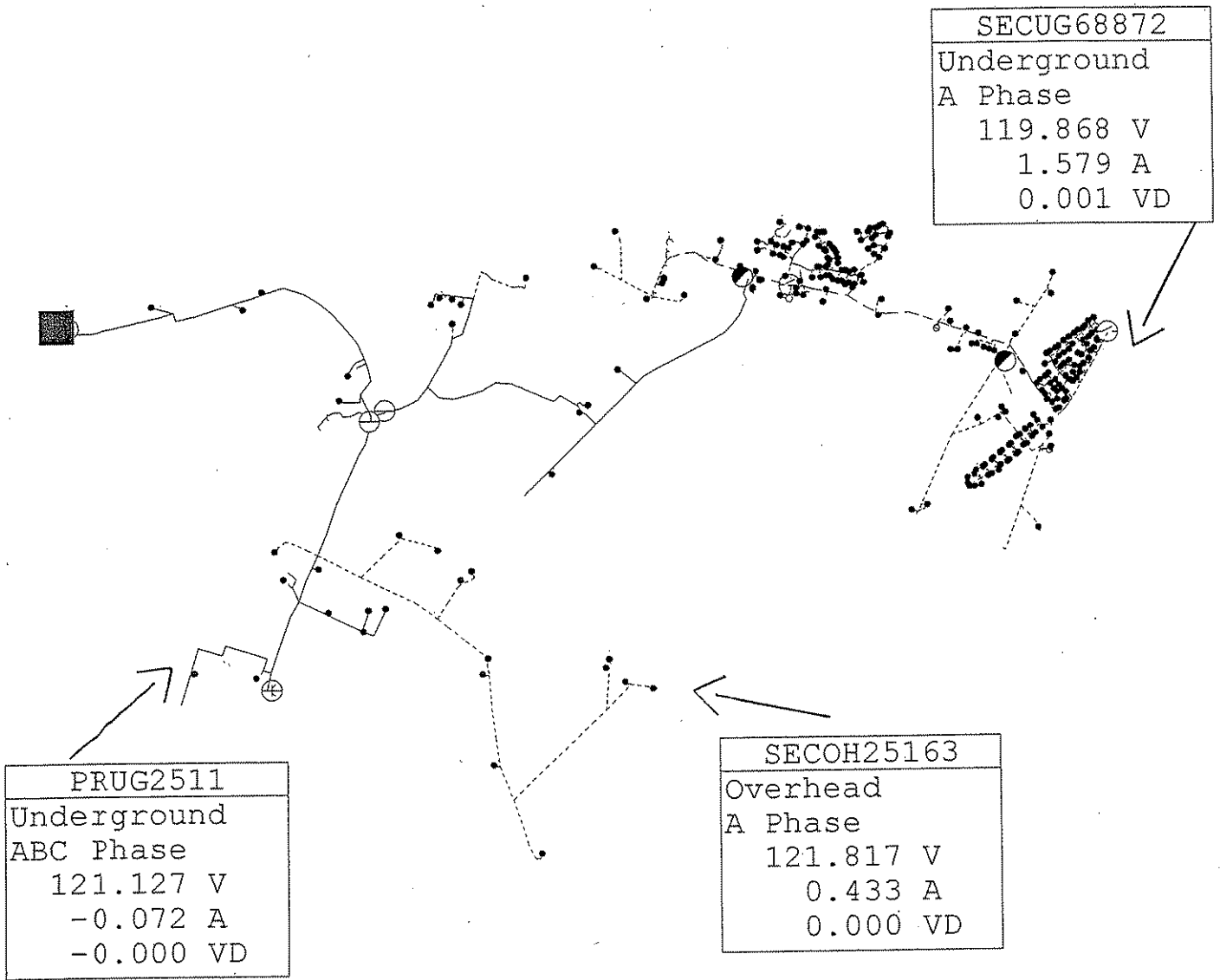
PROH87483
Overhead
C Phase
115.303 V
0.948 A
0.014 VD

PRUG3313
Underground
C Phase
113.916 V
-0.025 A
-0.000 VD

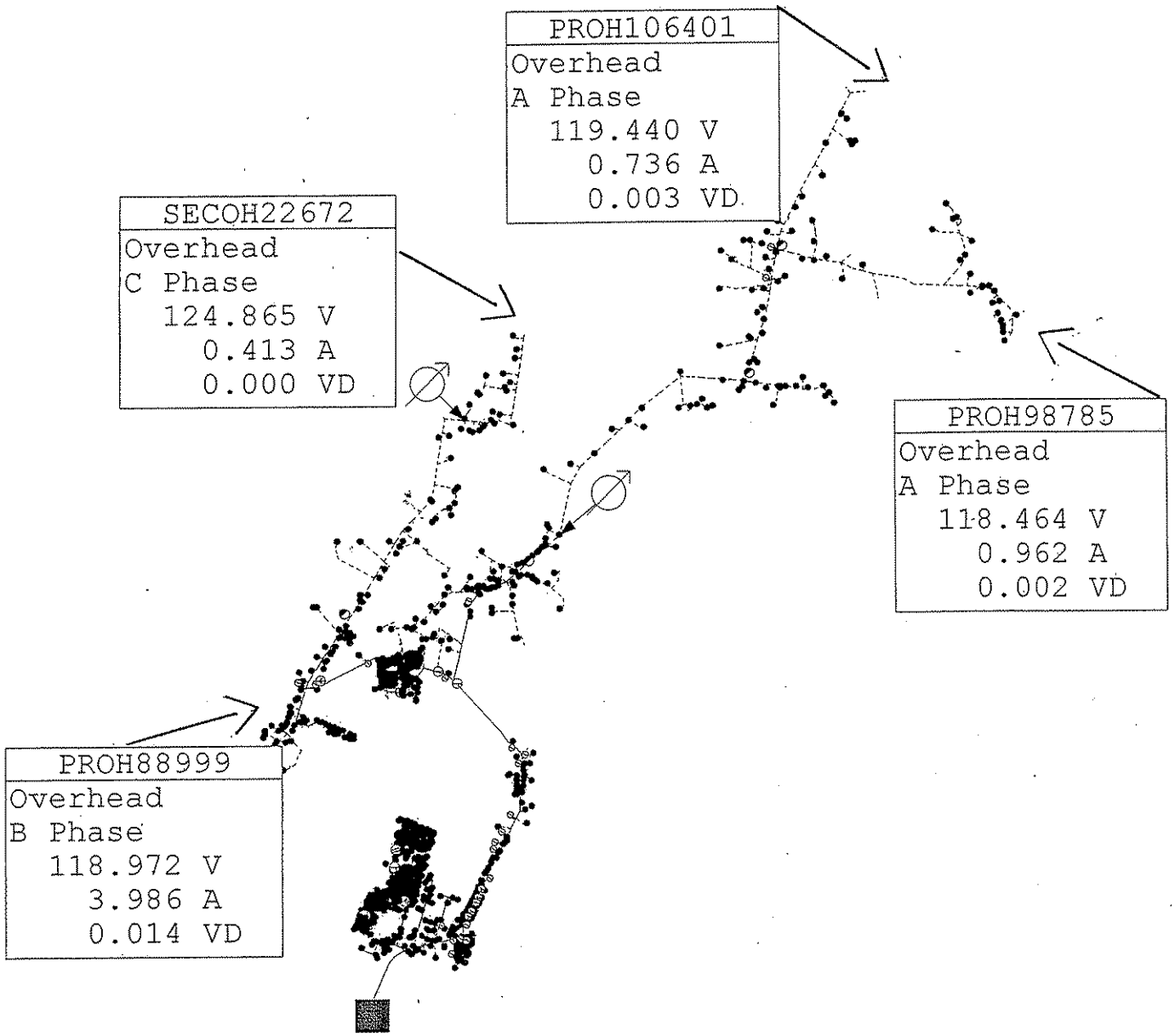
East BARDSTOWN fdr 01  
 Winter 2008 Load Level  
 Before  
 Corrections



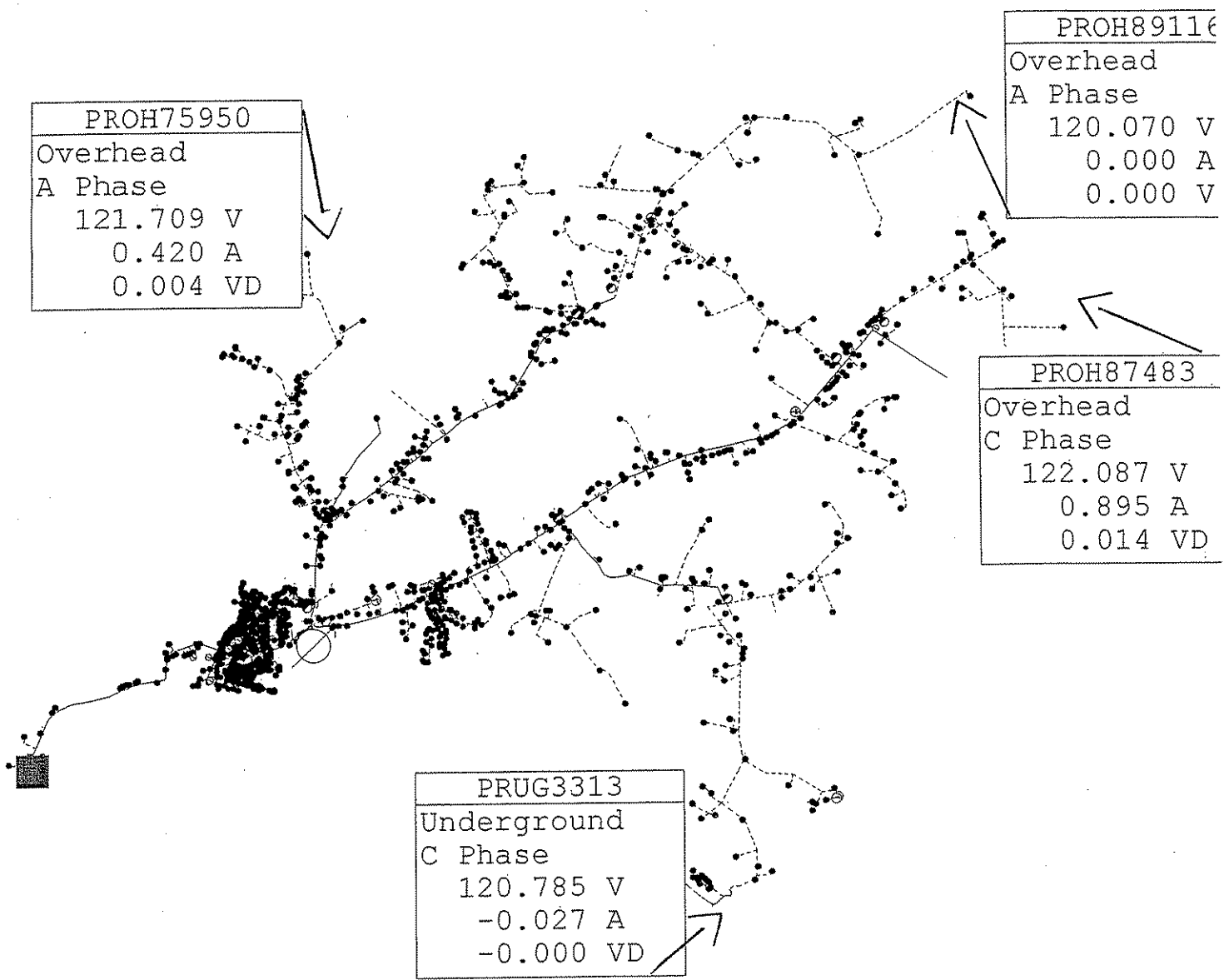
East Bardstown fdr 02  
 Winter 2008 Load Level  
 Before  
 Corrections



East Bardstown fdr 04  
 Winter 2008 Load Level  
 Before  
 Corrections



East Bardstown fdr 02  
 Winter 2008 Load Level  
 After  
 Corrections



PROH75950
Overhead
A Phase
121.709 V
0.420 A
0.004 VD

PROH89116
Overhead
A Phase
120.070 V
0.000 A
0.000 V

PROH87483
Overhead
C Phase
122.087 V
0.895 A
0.014 VD

PRUG3313
Underground
C Phase
120.785 V
-0.027 A
-0.000 VD

East Bardstown fdr 01  
 Winter 2008 Load Level  
 After  
 Corrections

# EAST BARDSTOWN SUBSTATION

2008 LOAD LEVEL  
AFTER CORRECTIONS

17,173 KW

(PLUS 1750 SPOT LOAD)

FDR 02 1 PHASE REGULATOR (\$6,300)

FDR 02 1 PHASE REGULATOR (\$6,300)

FDR 01 3 PHASE 300 AMP REGULATOR (\$26,600)



Balanced Voltage Drop Report  
Source: 07

Database: C:\MILSOFT\PROGRAMS\ALLSUBS.WM\  
Title:  
Case:

03/01/2005 13:16 Page 1

		Units Displayed In Volts																			
		-Base Voltage:125.0-																			
Element Name	Parent Name	Chf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum			Thru			%			mi From	Element		Cons On	Cons Thru	
							Drop	Amps	Cap	KW	KVAR	PF	Loss	Loss	Src		Length (mi)	KW			KVAR
C 07			ABC EAST BARDS	7.20Y	125.0	0.00	0.00	919.46	164	18881	6161	95	0.00	0.0	0.000	0.000	0	0	0	2388	C
----- Feeder NO. 2		Beginning with Node Element 279-01-9123																			
279-01-9123	07		ABC Node	7.20Y	125.0	0.00	0.00	286.93	0	5928	1809	96	0.00	0.0	0.000	0.000	0	0	0	962	
C 201-15-7271	PROH98759		A H-25 OCR	6.89Y	119.6	0.00	5.45	25.97	104	172	48	96	0.00	0.0	7.402	0.000	0	0	0	26	C
----- Feeder NO. 7		Beginning with Node Element 279-01-9122																			
279-01-9122	07		ABC Node	7.20Y	125.0	0.00	0.00	1.48	0	31	9	96	0.00	0.0	0.000	0.000	0	0	0	1	
----- Feeder NO. 5		Beginning with Node Element 279-01-9221																			
279-01-9221	07		ABC Node	7.20Y	125.0	0.00	0.00	251.19	0	5167	1656	95	0.00	0.0	0.000	0.000	0	0	0	263	
----- Feeder NO. 1		Beginning with Node Element 279-01-9223																			
279-01-9223	07		ABC Node	7.20Y	125.0	0.00	0.00	379.98	0	7756	2687	94	0.00	0.0	0.000	0.000	0	0	0	1162	
C SECOH55151	PRUG4050		B 2 TFX	6.91Y	119.9	0.09	5.10	132.80	125	884	246	96	0.62	0.1	1.741	0.021	0	0	0	2	C
C SECOH21491	SECOH55151		B 2 TFX	6.90Y	119.8	0.06	5.16	131.81	124	877	244	96	0.39	0.0	1.754	0.013	0	0	0	1	C
C SECOH22228	SECOH21491		B 2 TFX	6.90Y	119.8	0.03	5.19	131.81	124	877	244	96	0.20	0.0	1.761	0.007	0	0	0	1	C
C 240-19-6024	PROH89143		A L-50 OCR	7.09Y	123.0	0.00	1.97	53.22	106	363	102	96	0.00	0.0	3.711	0.000	0	0	0	60	C

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total		
KW	18352	0	0	0	0	0	529	0.00	0.00	18881	Lowest Voltage =	117.07 on Element PROH98204
KVAR	5189	0	0	-77	0	0	1050			6161	Max Accm VoltD =	7.93 on Element PROH98204
											Max Elem VoltD =	1.29 on Element PROH86276

Balanced Voltage Drop Report  
Source: SW1-B

Database: C:\MILSOFT\PROGRAMS\ALLSUBS.WM\  
Title:  
Case:

03/01/2005 13:16 Page 2

Units Displayed In Volts  
-Base Voltage:125.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum			Thru			mi From Src	Length		Element	
							Drop	Amps	Cap	KW	KVAR	PF		Loss	Loss	(mi)	KW

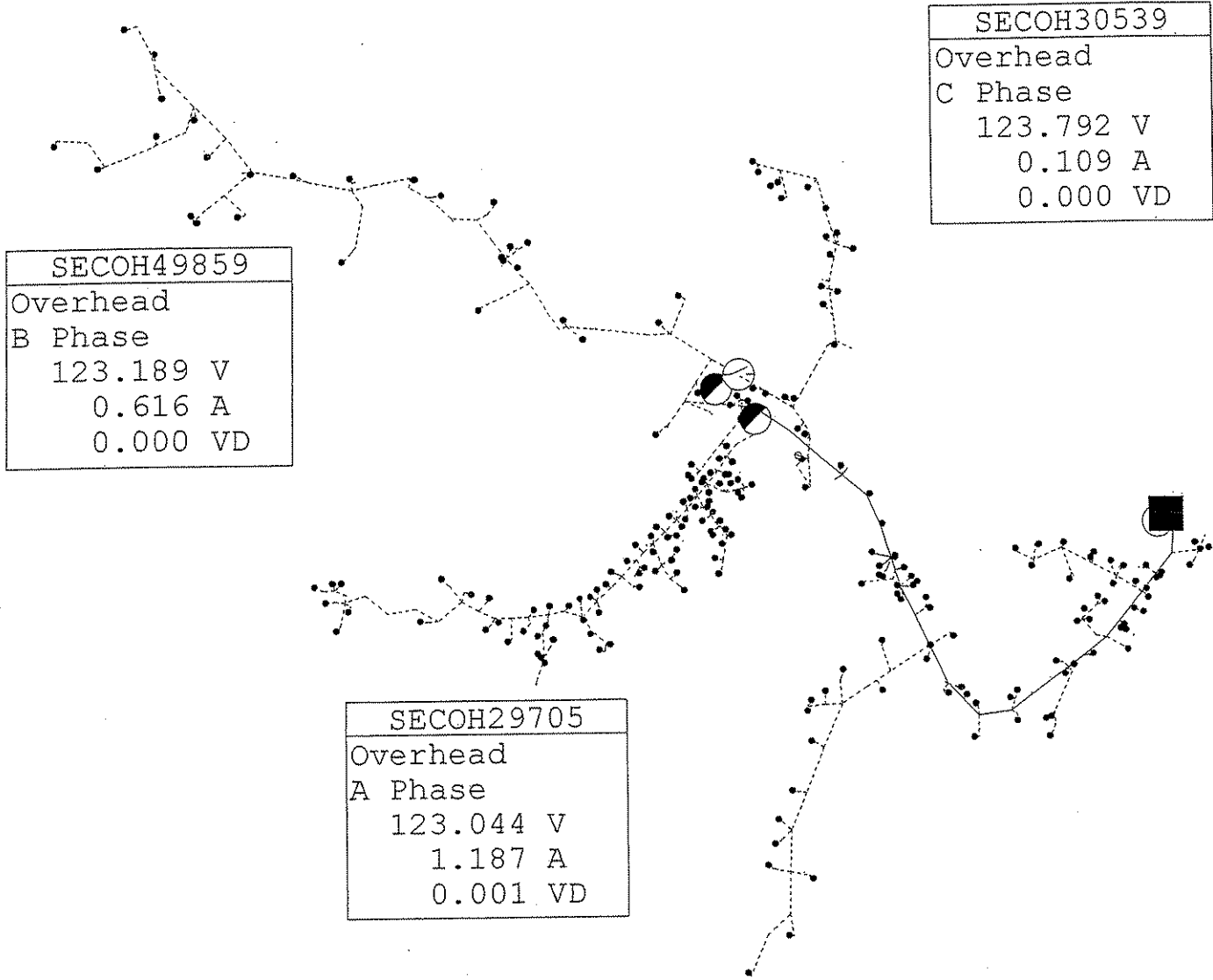
KEY-> L = Low Voltage    H = High Voltage    C = Capacity Over Limit    G = Generator Out of kvar Limits    P = Power Factor Low

Substation Summary:					
Substation	KW	KW Losses	KVAR	KVAR Losses	KVA
07	18352.00	529.00	5189.00	1050.00	19860.29
Total:	18352.00	529.00	5189.00	1050.00	19860.29

GOSPEL HILL SUBSTATION

2008 LOAD LEVEL  
BEFORE CORRECTIONS

6,075 KW

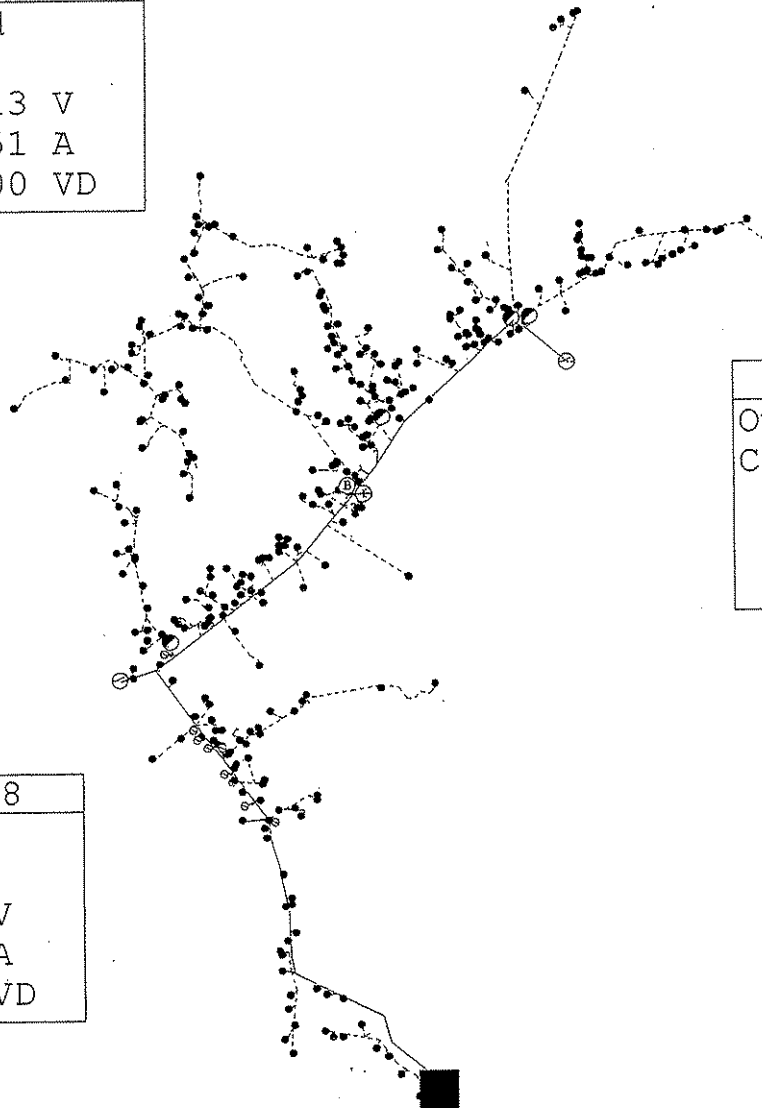


Gospel Hill fdr 01  
 Winter 2008 Load Level  
 Before  
 Corrections

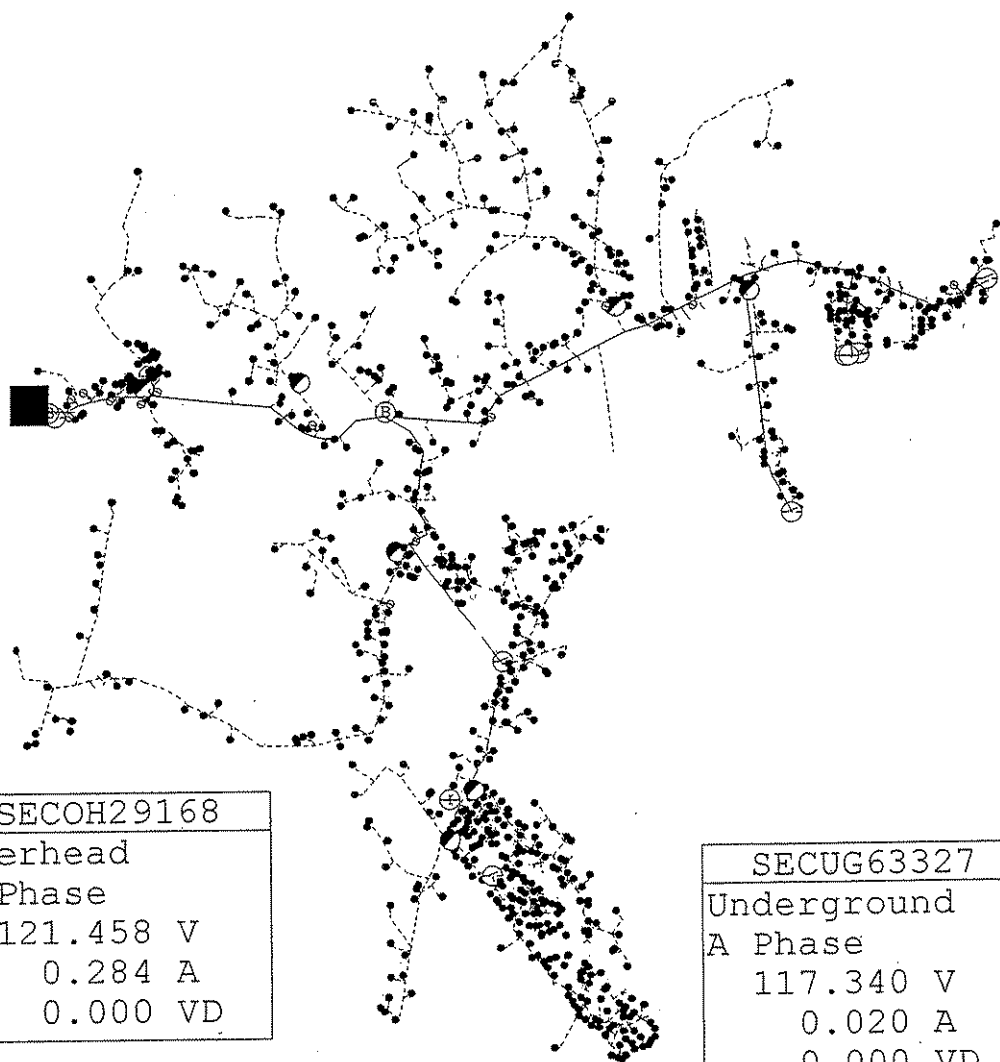
SECOH50465
Overhead
A Phase
119.913 V
0.651 A
0.000 VD

SECOH40613
Overhead
C Phase
120.521 V
3.808 A
0.003 VD

PROH81188
Overhead
ABC Phase
122.366 V
0.000 A
0.000 VD



Gospel Hill fdr 04  
 Winter 2008 Load Level  
 Before  
 Corrections



SECOH30060
Overhead
B Phase
122.024 V
1.328 A
0.001 VD

SECOH29168
Overhead
C Phase
121.458 V
0.284 A
0.000 VD

SECUG63327
Underground
A Phase
117.340 V
0.020 A
0.000 VD

Gospel Hill fdr 05  
 Winter 2008 Load Level  
 Before  
 Corrections

Balanced Voltage Drop Report  
Source: 08

Database: C:\MILSOFT\PROGRAMS\ALLSUBS.WM\  
Title:  
Case:

		Units Displayed In Volts														Element						
		-Base Voltage:125.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	KW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru		
08			ABC	GOSPELHILL	7.20Y	125.0	0.00	0.00	293.68	52	6038	1944	95	0.00	0.0	0.000	0.000	0	0	0	1264	
----- Feeder NO. 1		Beginning with Node Element 089-12-2464																				
089-12-2464	08		ABC	Node	7.20Y	125.0	0.00	0.00	42.94	0	887	272	96	0.00	0.0	0.000	0.000	0	0	0	202	
----- Feeder NO. 5		Beginning with Node Element 089-12-3064																				
089-12-3064	08		ABC	Node	7.20Y	125.0	0.00	0.00	180.37	0	3782	1213	95	0.00	0.0	0.000	0.000	0	0	0	771	
C 118-16-2051	PROH104473		A	L-70	OCR	6.89Y	119.5	0.00	5.46	95.67	137	629	194	96	0.00	0.0	3.147	0.000	0	0	0	115 C
----- Feeder NO. 4		Beginning with Node Element 089-12-2364																				
089-12-2364	08		ABC	Node	7.20Y	125.0	0.00	0.00	70.38	0	1449	459	95	0.00	0.0	0.000	0.000	0	0	0	291	

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total		
KW	5910	0	0	0	0	0	129	0.00	6038	Lowest Voltage = 117.34		on Element SECOH7607
KVAR	1786	0	0	-7	0	0	165		1944	Max Accm VoltD = 7.66		on Element SECOB7607
										Max Elem VoltD = 0.76		on Element PROH99150



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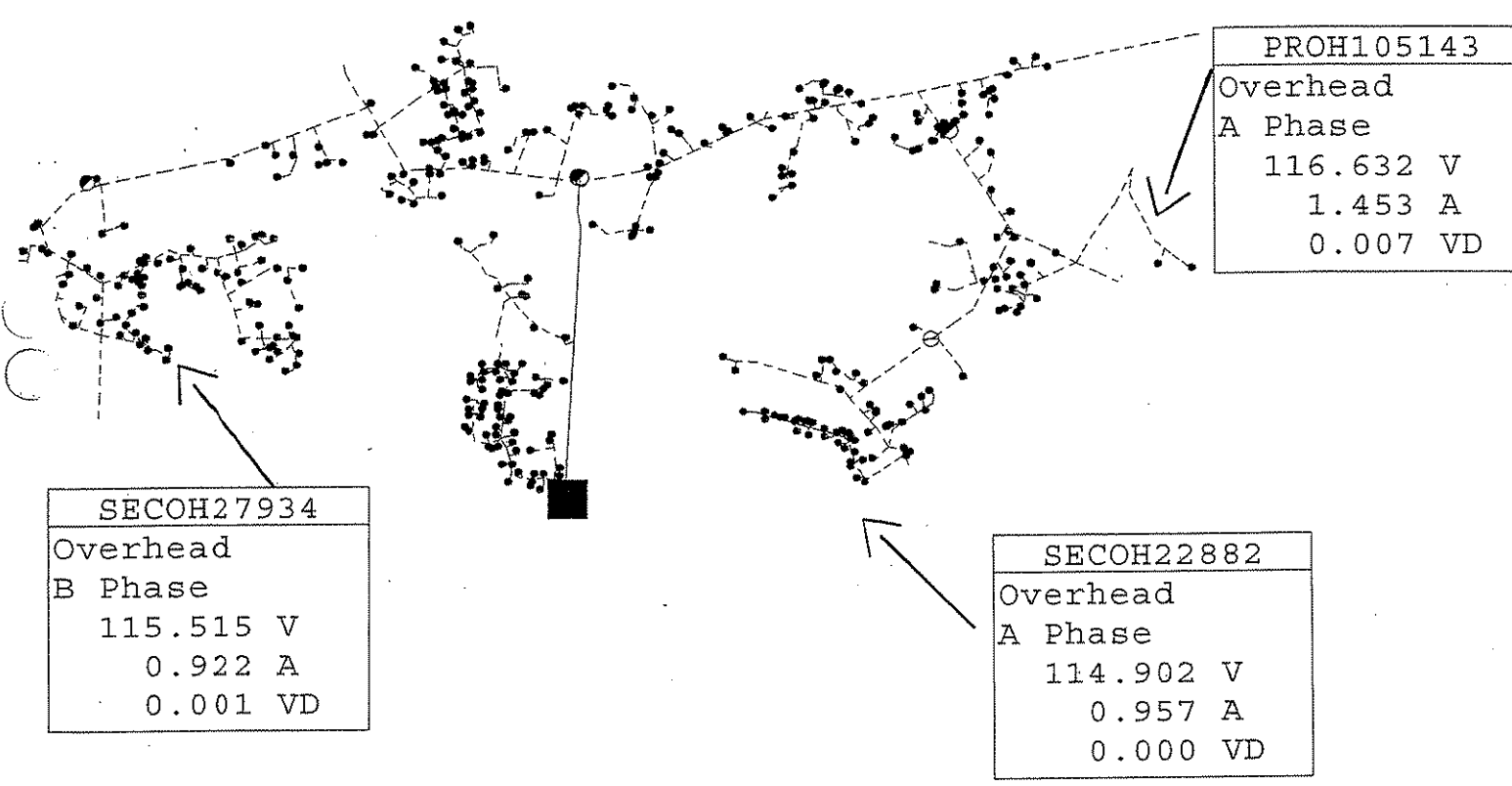
Substation Summary:					
Substation	KW	KW Losses	KVAR	KVAR Losses	KVA
08	5910.00	129.00	1786.00	165.00	6343.47
Total:	5910.00	129.00	1786.00	165.00	6343.47

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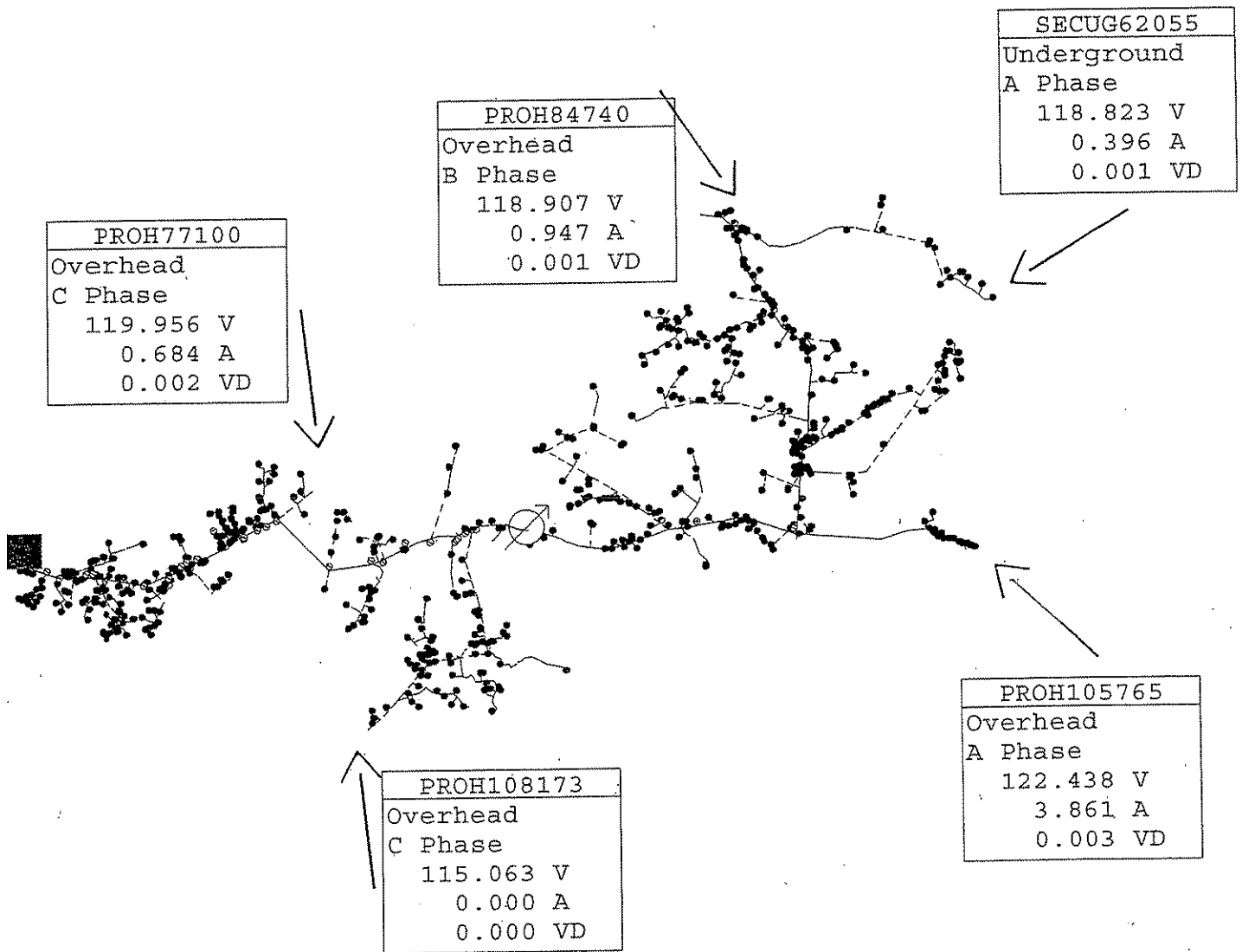
CEDAR GROVE SUBSTATION

2008 LOAD LEVEL  
BEFORE CORRECTIONS

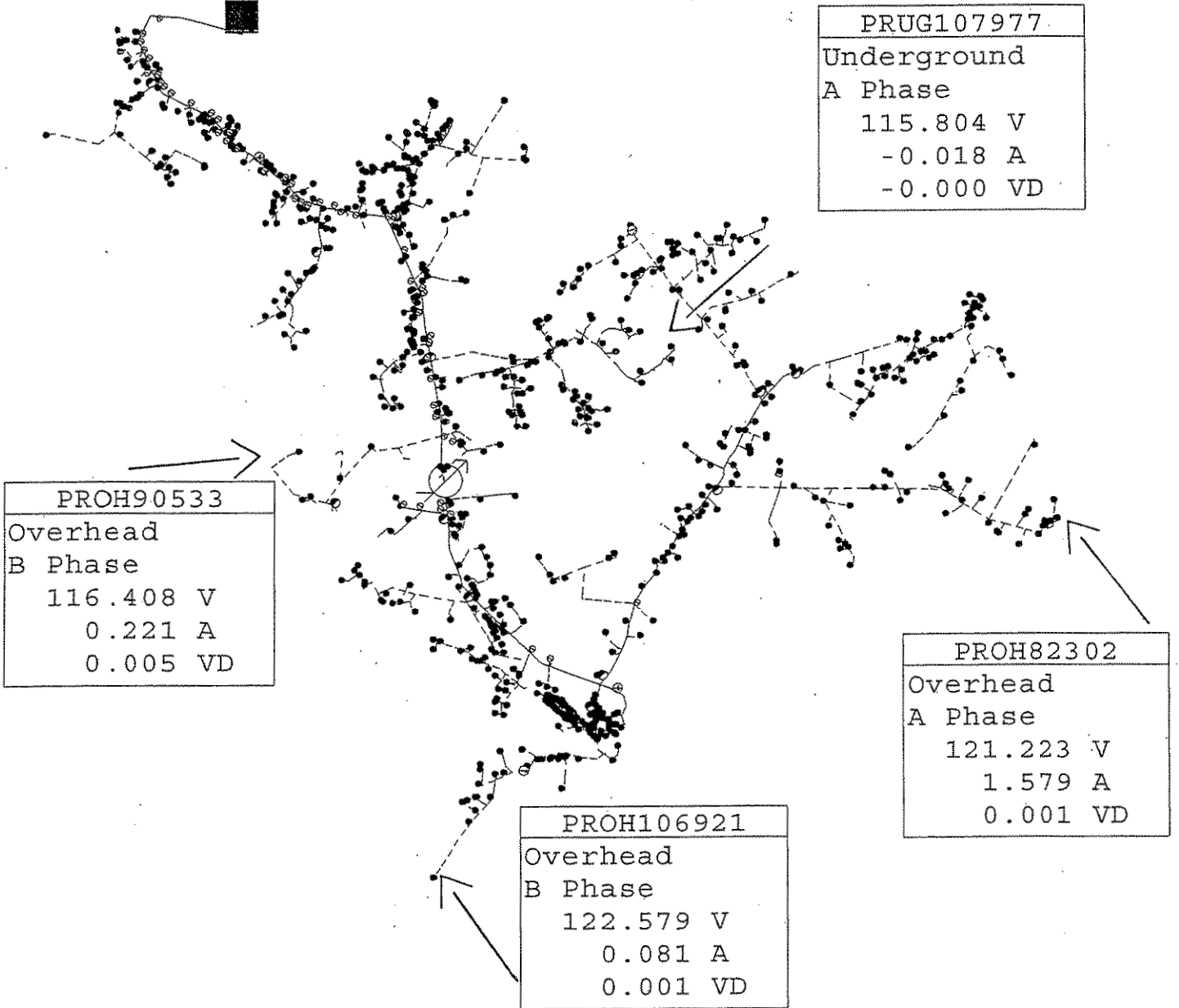
15,415 KW



Cedar Grove fdr 02  
 Winter 2008 Load Level  
 Before  
 Corrections



Cedar Grove fdr 03  
 Winter 2008 Load Level  
 Before  
 Corrections

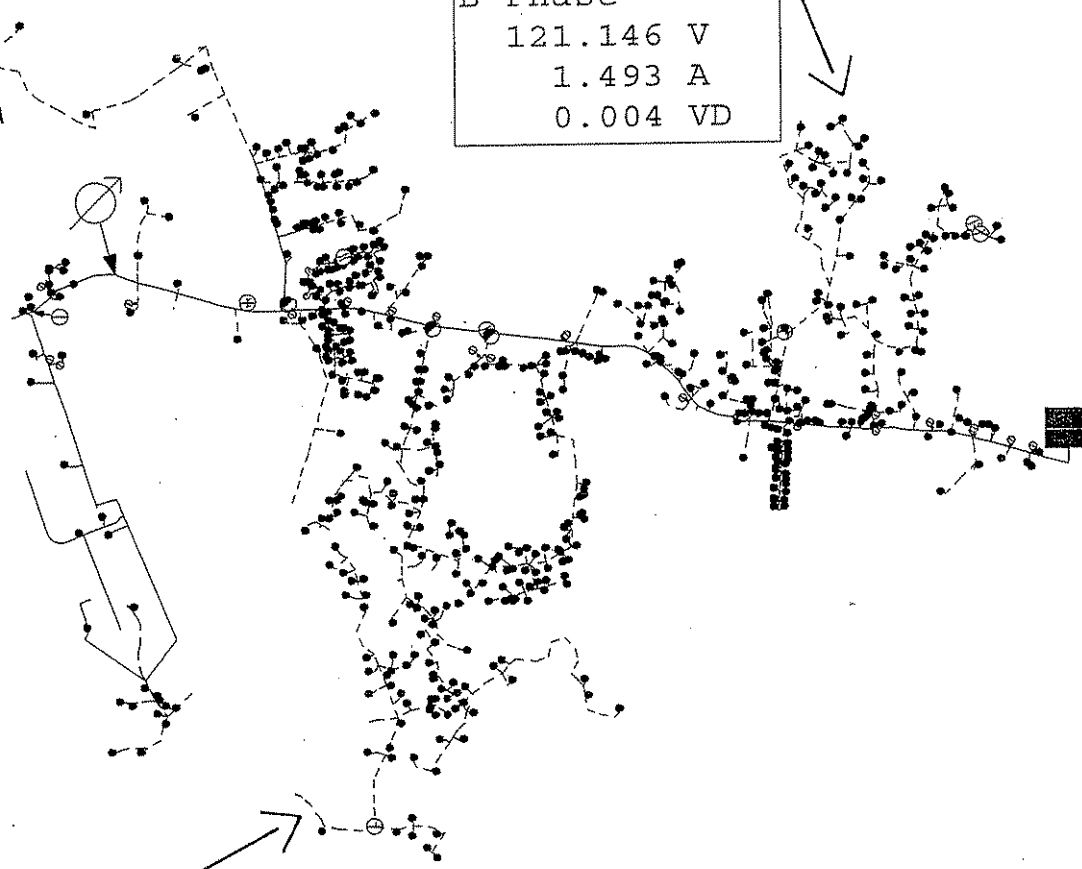


Cedar Grove fdr 04  
 Winter 2008 Load Level  
 Before  
 Corrections

SECOH52556
Overhead
C Phase
116.650 V
0.020 A
0.000 VD

PROH81173
Overhead
B Phase
121.146 V
1.493 A
0.004 VD

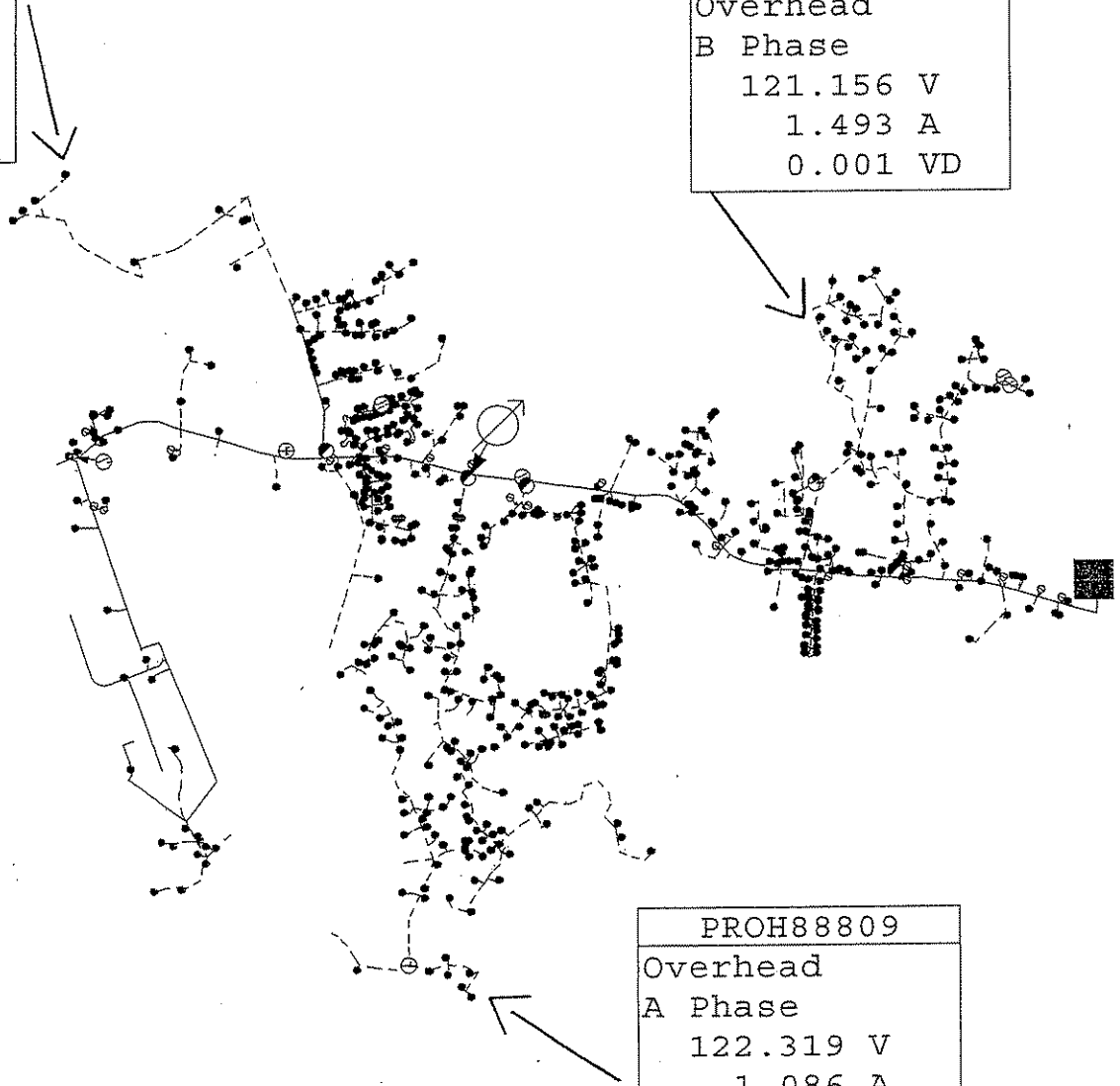
PROH88650
Overhead
A Phase
114.728 V
1.161 A
0.008 VD



Cedar Grove fdr 05  
 Winter 2008 Load Level  
 Before  
 Corrections

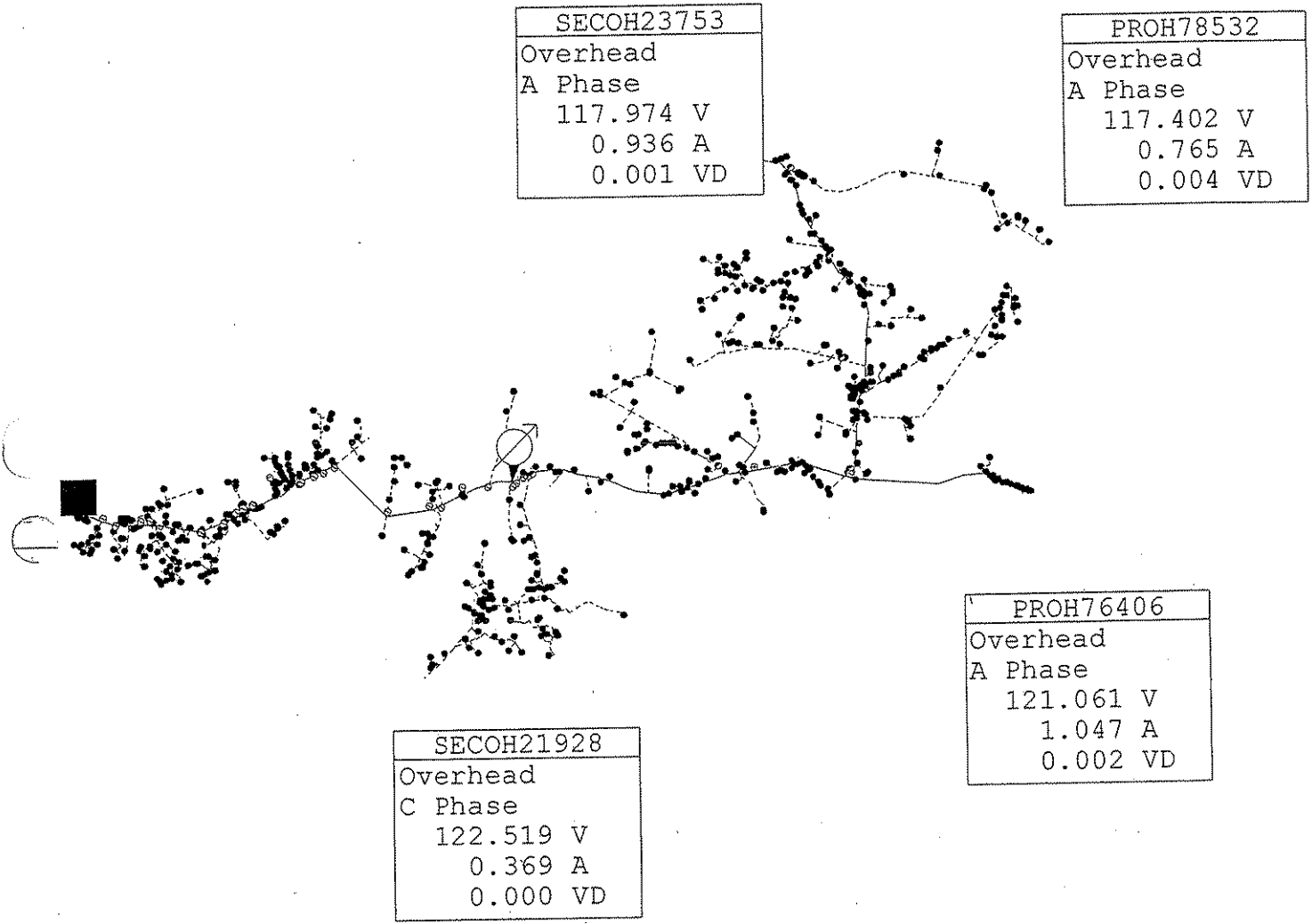
SECOH26146
Overhead
C Phase
124.144 V
0.000 A
0.000 VD

SECOH12046
Overhead
B Phase
121.156 V
1.493 A
0.001 VD



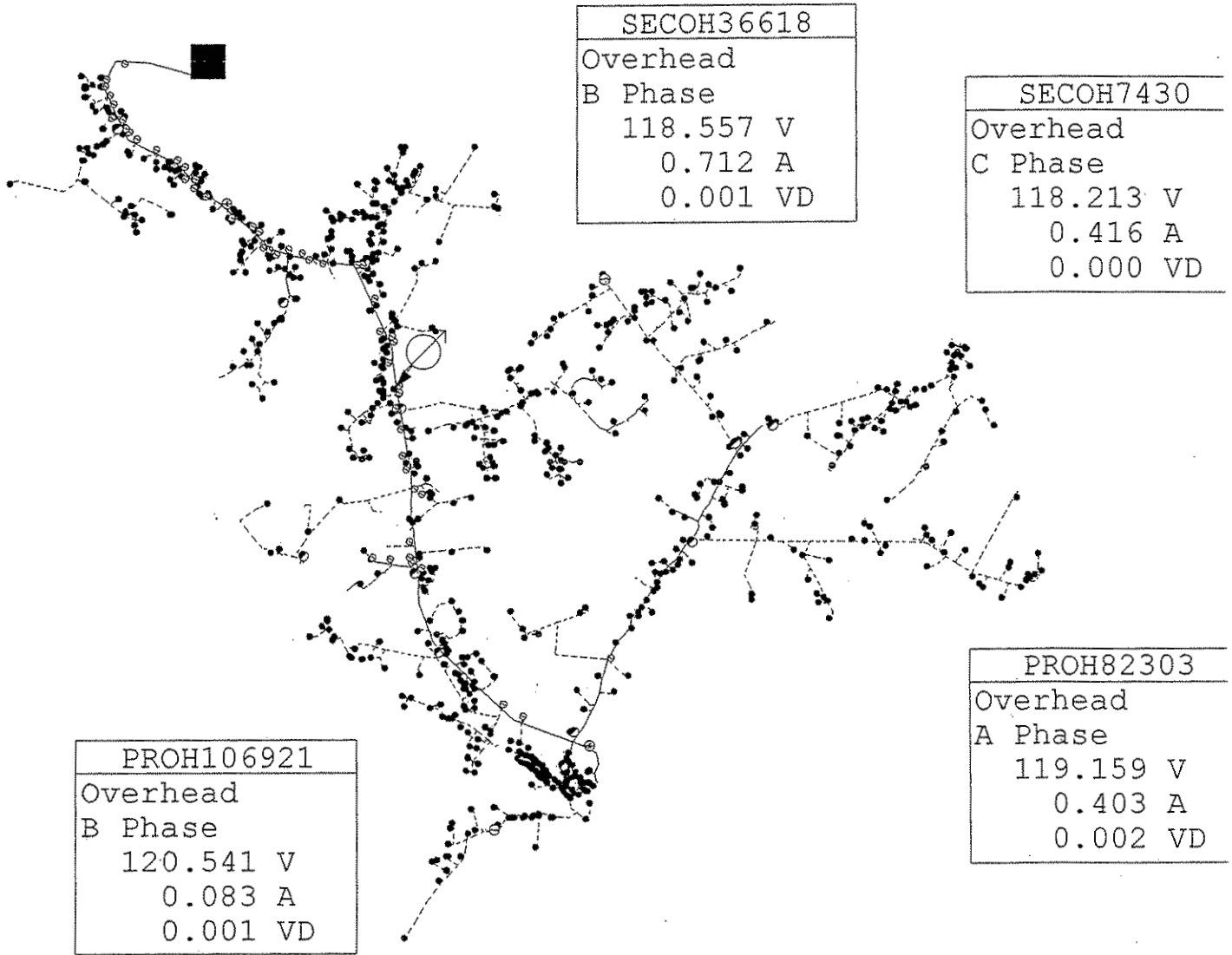
PROH88809
Overhead
A Phase
122.319 V
1.086 A
0.003 VD

Cedar Grove fdr 05  
 Winter 2008 Load Level  
 After  
 Corrections



Cedar Grove fdr 03  
 Winter 2008 Load Level  
 After  
 Corrections



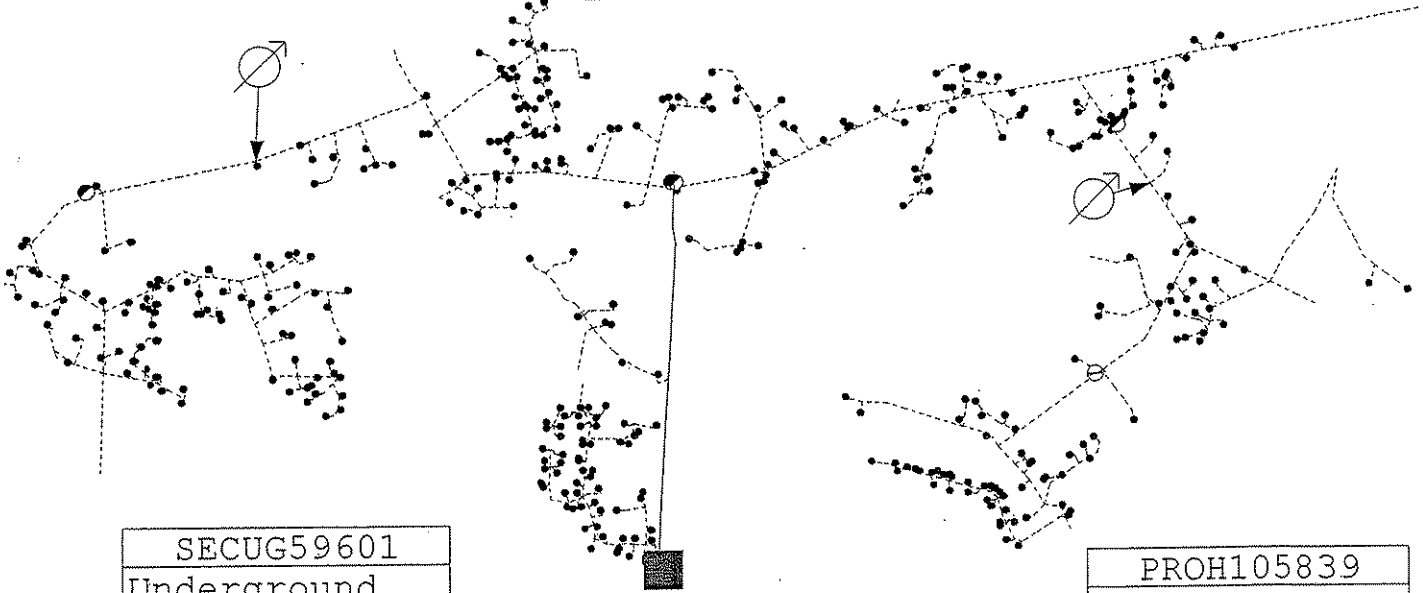


Cedar Grove fdr 04  
 Winter 2008 Load Level  
 After  
 Corrections

SECOH22876
Overhead
B Phase
119.432 V
0.463 A
0.000 VD

SECUG59601
Underground
B Phase
122.550 V
1.018 A
0.000 VD

PROH105839
Overhead
A Phase
123.149 V
21.136 A
0.034 VD



Cedar Grove fdr 02  
 Winter 2008 Load Level  
 After  
 Corrections

# CEDAR GROVE SUBSTATION

## 2008 LOAD LEVEL AFTER CORRECTIONS

15,415 KW

FDR 02 1 PHASE REGULATOR (\$6,300)

FDR 02 1 PHASE REGULATOR (\$6,300)

FDR 05 3 PHASE 300 AMP REGULATOR (\$26,600)

FDR 04 3 PHASE 150 AMP REGULATOR (\$23,600)

FDR 03 3 PHASE 150 AMP REGULATOR (\$23,600)

Balanced Voltage Drop Report  
Source: 11

Database: C:\MILSOFT\PROGRAMS\ALLSUBS.WM\  
Title:  
Case:

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		Units Displayed in Volts															-----Element-----			
		-Base Voltage:125.0-																		
Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
11			ABC CEDAR GROV	7.20Y	125.0	0.00	0.00	508.11	91	18569	2958	96	0.00	0.0	0.000	0.000	0	0	0	2145
-----	Feeder NO.	4	Beginning with Node			Element 135-02-4122	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
135-02-4122	11		ABC Node	7.20Y	125.0	0.00	0.00	167.69	0	3466	1053	96	0.00	0.0	0.000	0.000	0	0	0	679
-----	Feeder NO.	5	Beginning with Node			Element 135-02-4022	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
135-02-4022	11		ABC Node	7.20Y	125.0	0.00	0.00	129.34	0	2705	699	97	0.00	0.0	0.000	0.000	0	0	0	551
C 113-20-5423	PROH104799		ABC 4H-50 OCR	7.09Y	123.1	0.00	1.85	76.83	154	1590	382	97	0.00	0.0	2.464	0.000	0	0	0	345 C
-----	Feeder NO.	3	Beginning with Node			Element 135-02-4123	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
135-02-4123	11		ABC Node	7.20Y	125.0	0.00	0.00	128.12	0	2665	745	96	0.00	0.0	0.000	0.000	0	0	0	557
-----	Feeder NO.	2	Beginning with Node			Element 135-02-3423	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
135-02-3423	11		ABC Node	7.20Y	125.0	0.00	0.00	83.03	0	1733	461	97	0.00	0.0	0.000	0.000	0	0	0	358

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total		
KW	10088	0	0	0	0	0	481	0	0.00	10569	Lowest Voltage =	117.19 on Element PROH105885
KVAR	2427	0	0	-30	0	0	561			2958	Max Accm VoltD =	7.81 on Element PROH105885
											Max Elem VoltD =	1.09 on Element PROH104859

Balanced Voltage Drop Report  
 Source: SW1-B

Summary

Database: C:\MILSOFT\PROGRAMS\ALLSUBS.WM\  
 Title:  
 Case:

03/01/2005 10:45 Page 2

		Units Displayed In Volts													-----Element-----					
		-Base Voltage:125.0-																		
Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	% KVAR	PF	Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru

KEY-> L = Low Voltage    H = High Voltage    C = Capacity Over Limit    G = Generator Out of kvar Limits    P = Power Factor Low

Substation Summary:  
Substation

	KW	KW Losses	KVAR	KVAR Losses	KVA
11	10088.00	481.00	2427.00	561.00	10975.18
Total:	10088.00	481.00	2427.00	561.00	10975.18

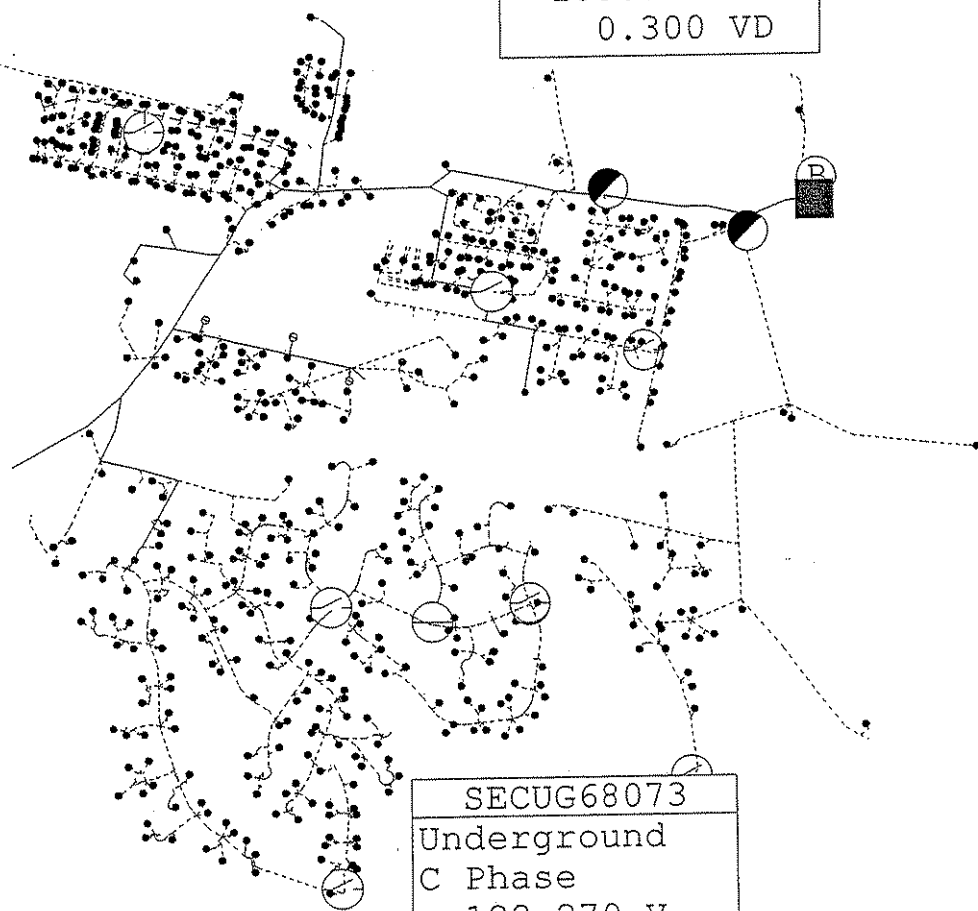
MOUNT WASHINGTON SUBSTATION

2008 LOAD LEVEL  
BEFORE CORRECTIONS

13,870 KW

SECOH51137
Overhead
C Phase
123.823 V
0.821 A
0.000 VD

PROH102817
Overhead
ABC Phase
124.538 V
185.360 A
0.300 VD



SECUG68073
Underground
C Phase
122.270 V
1.919 A
0.001 VD

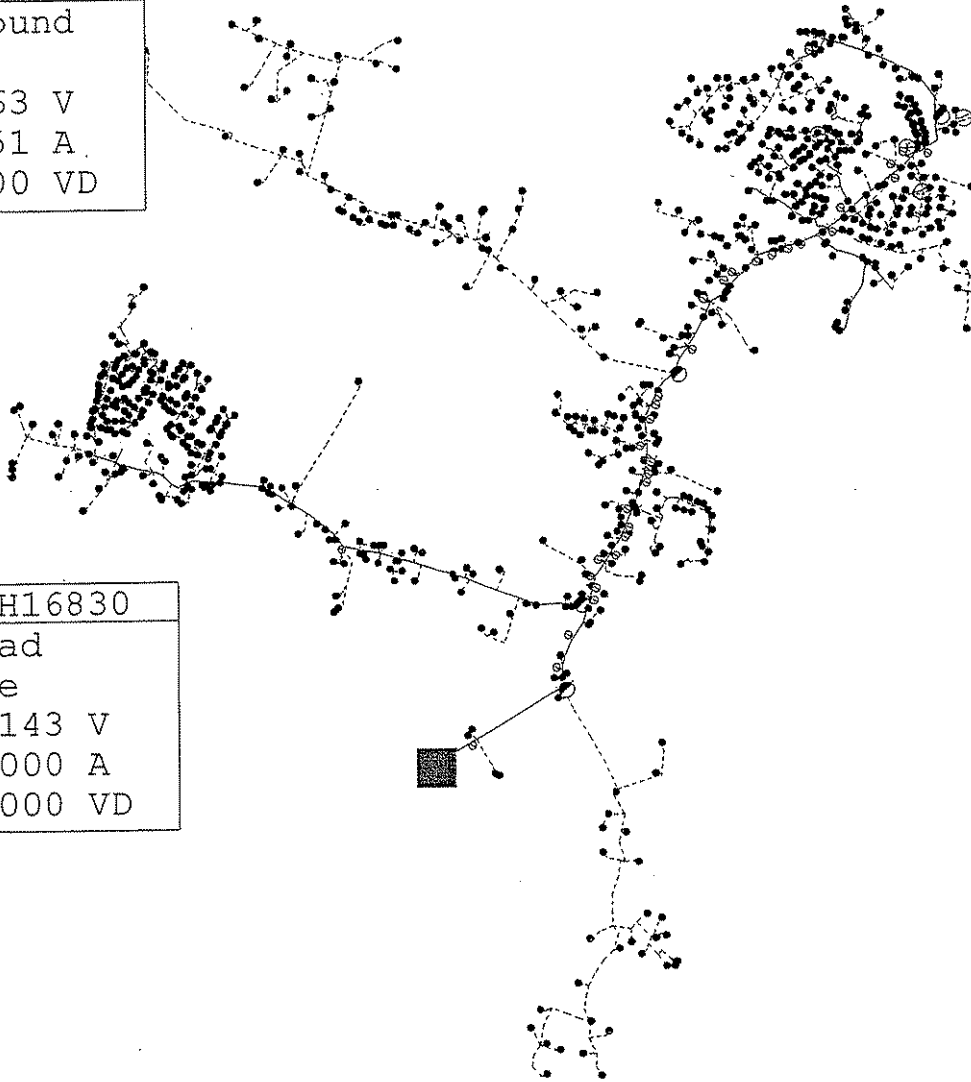
Mount Washington fdr 01  
Winter 2008 Load Level  
Before  
Corrections



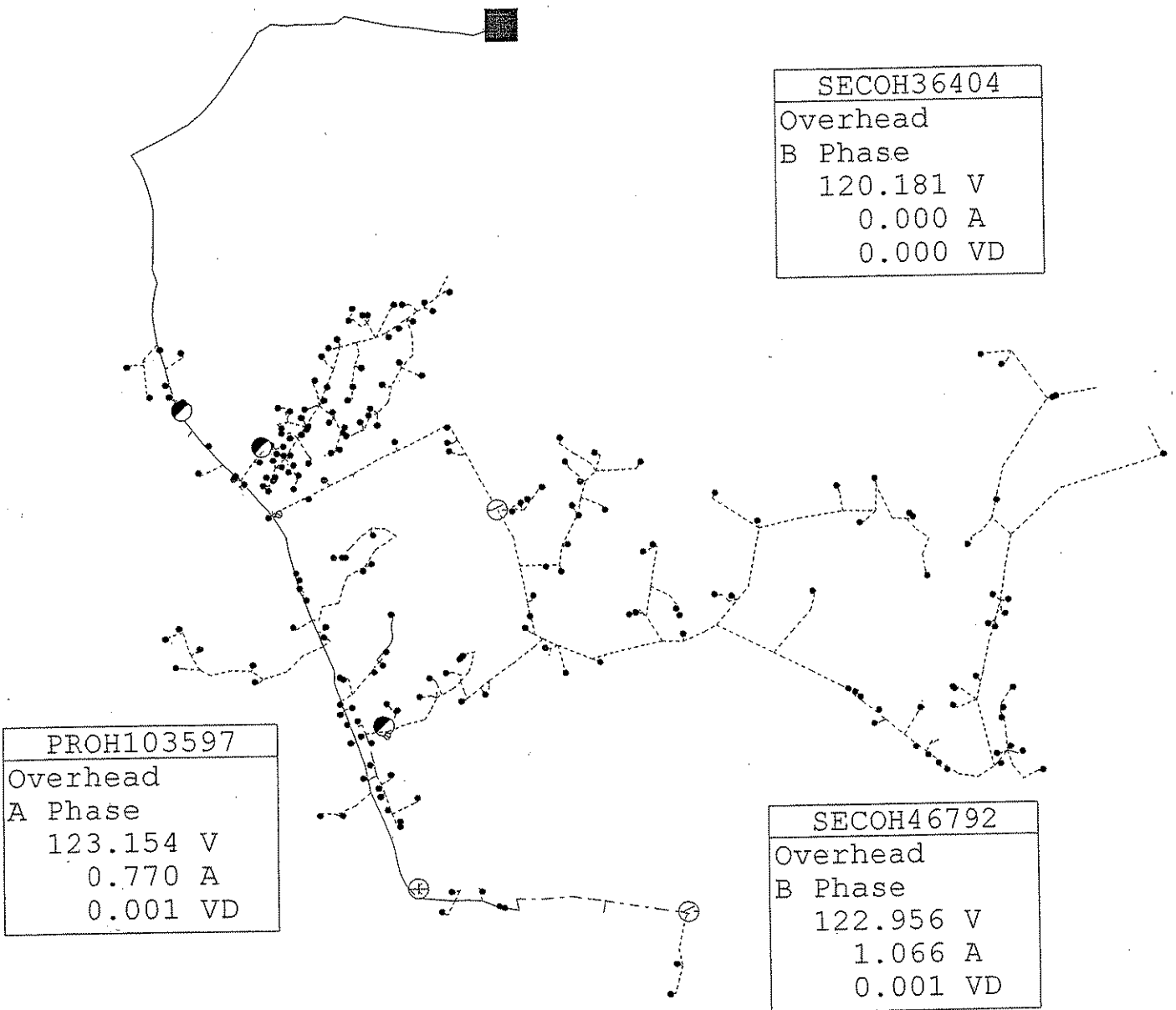
SECUG67521
Underground
C Phase
121.263 V
0.651 A
0.000 VD

PROH100096
Overhead
ABC Phase
122.322 V
19.855 A
0.027 VD

SECOH16830
Overhead
B Phase
122.143 V
0.000 A
0.000 VD



Mount Washington fdr 02  
 Winter 2008 Load Level  
 Before  
 Corrections

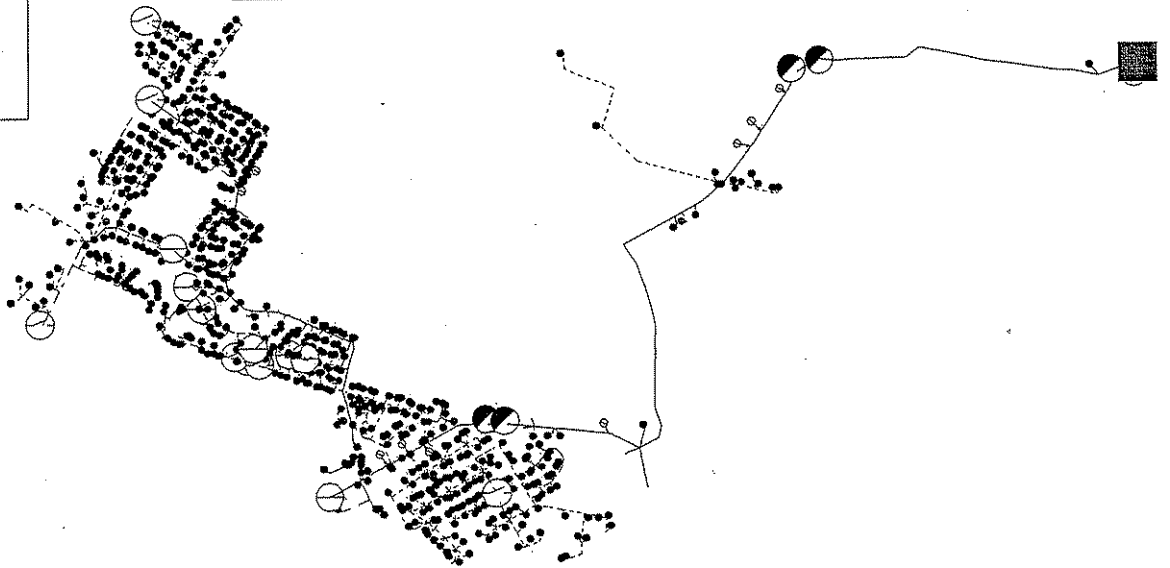


Mount Washington fdr 04  
 Winter 2008 Load Level  
 Before  
 Corrections

SECUG56556
Underground
C Phase
120.214 V
1.218 A
0.000 VD

SECOH17745
Overhead
B Phase
120.462 V
0.479 A
0.000 VD

PROH102767
Overhead
ABC Phase
123.924 V
173.071 A
0.794 VD



SECOH14018
Overhead
C Phase
121.522 V
0.000 A
0.000 VD

Mount Washington fdr 05  
 Winter 2008 Load Level  
 Before  
 Corrections

Balanced Voltage Drop Report  
Source: 12

Database: C:\MILSOFT\PROGRAMS\ALLSUBS.WM  
Title:  
Case:

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Units Displayed In Volts																					
-Base Voltage:125.0-																					
Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	Element		Cons On	Cons Thru	
C 12			ABC MT. WASHIN	7.20Y	125.0	0.00	0.00	592.95	106	12177	3969	95	0.00	0.0	0.000	0.000	0	0	0	2446	C
----- Feeder NO. 5 Beginning with Node Element 052-10-1094 -----																					
052-10-1094	12		ABC Node	7.20Y	125.0	0.00	0.00	173.07	0	3535	1217	95	0.00	0.0	0.000	0.000	0	0	0	762	C
C 052-01-9302	PROH102767		ABC L-70 OCR	7.14Y	123.9	0.00	1.08	173.07	247	3517	1169	95	0.00	0.0	0.841	0.000	0	0	0	762	C
C 052-01-7400	PROH102768		ABC L-70 OCR	7.13Y	123.8	0.00	1.15	173.07	247	3516	1166	95	0.00	0.0	0.802	0.000	0	0	0	762	C
C 051-23-8470	PROH89708		ABC L-100 OCR	7.03Y	122.0	0.00	3.04	163.34	163	3287	1024	95	0.00	0.0	2.420	0.000	0	0	0	744	C
C 051-23-7370	PROH89701		ABC 4H-70 OCR	7.02Y	121.9	0.00	3.09	142.16	203	2859	891	95	0.00	0.0	2.466	0.000	0	0	0	673	C
----- Feeder NO. 1 Beginning with Node Element 052-04-0401 -----																					
052-04-0401	12		ABC Node	7.20Y	125.0	0.00	0.00	199.01	0	4100	1292	95	0.00	0.0	0.000	0.000	0	0	0	768	C
----- Feeder NO. 2 Beginning with Node Element 052-04-1001 -----																					
052-04-1001	12		ABC Node	7.20Y	125.0	0.00	0.00	170.47	0	3506	1125	95	0.00	0.0	0.000	0.000	0	0	0	711	C
C 034-00-6000	PROH92954		ABC 4H-70 OCR	7.09Y	123.0	0.00	2.00	77.17	110	1570	475	96	0.00	0.0	1.899	0.000	0	0	0	305	C
----- Feeder NO. 4 Beginning with Node Element 052-04-1100 -----																					
052-04-1100	12		ABC Node	7.20Y	125.0	0.00	0.00	50.43	0	1036	336	95	0.00	0.0	0.000	0.000	0	0	0	205	C
C 073-01-8210	PROH103579		A 4H-50 OCR	7.10Y	123.3	0.00	1.70	54.29	109	368	114	96	0.00	0.0	2.940	0.000	0	0	0	62	C

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total		
KW	12008	0	0	0	0	0	169	0.00	0.00	12177	Lowest Voltage = 119.98 on Element SECOH17513	
KVAR	3716	0	0	-86	0	0	340			3969	Max Accm VoltD = 5.02 on Element SECOH17513	
											Max Elem VoltD = 0.79 on Element PROH102767	

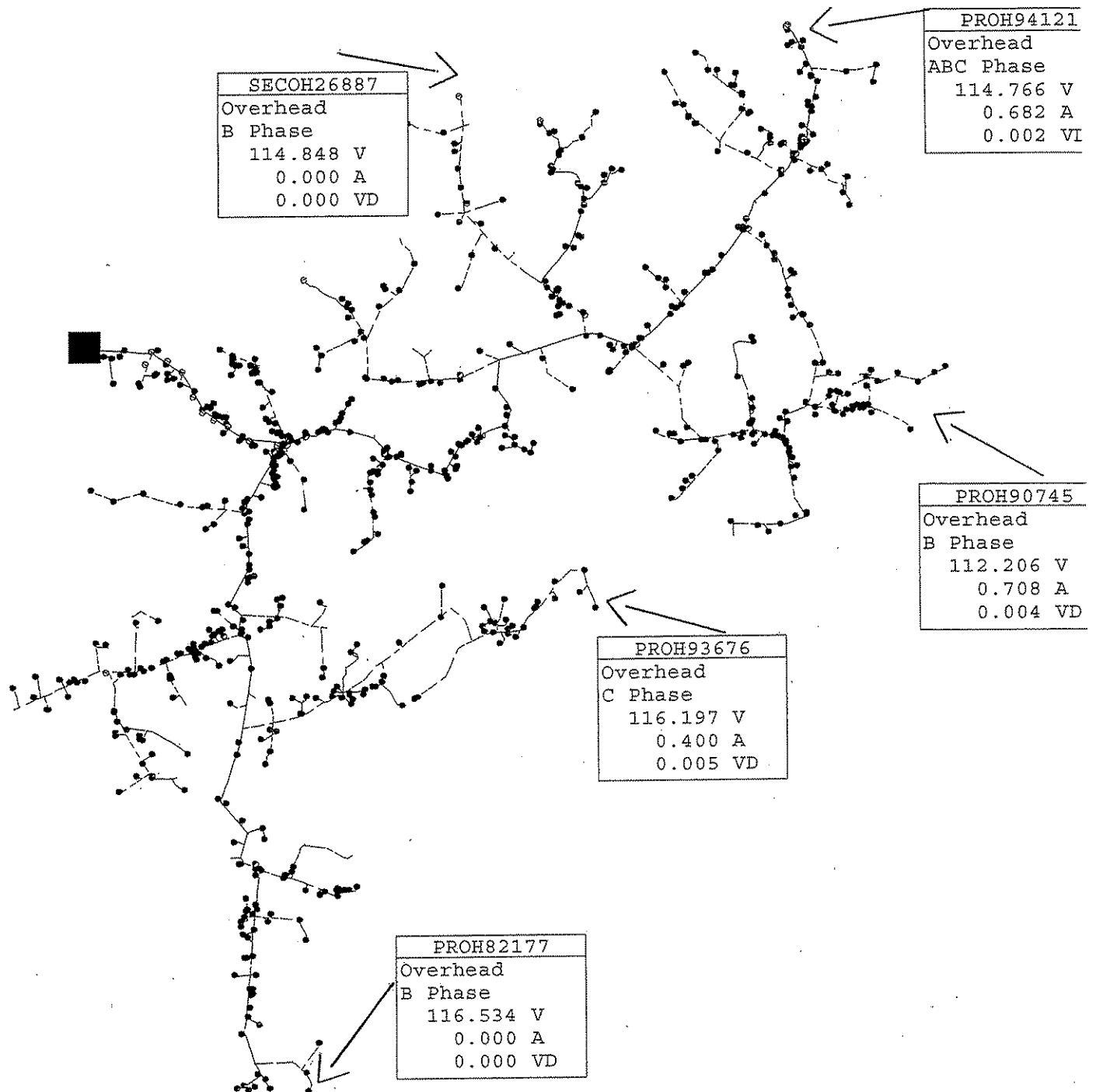
Substation Summary:

Substation	KW	KW Losses	KVAR	KVAR Losses	KVA
12	12008.00	169.00	3716.00	340.00	12807.81
Total:	12008.00	169.00	3716.00	340.00	12807.81

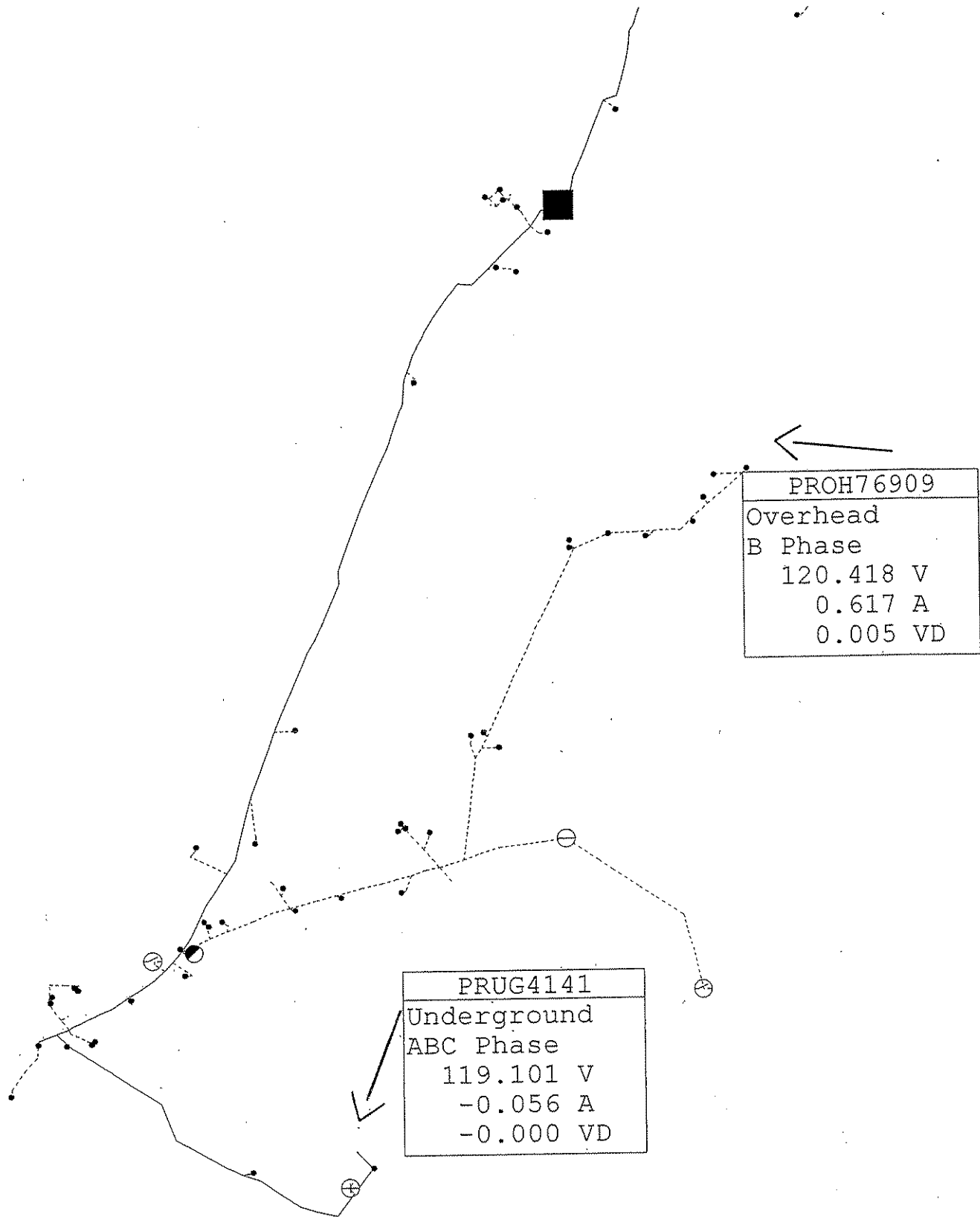
NORTH SPRINGFIELD SUBSTATION

2008 LOAD LEVEL  
BEFORE CORRECTIONS

10,982 KW

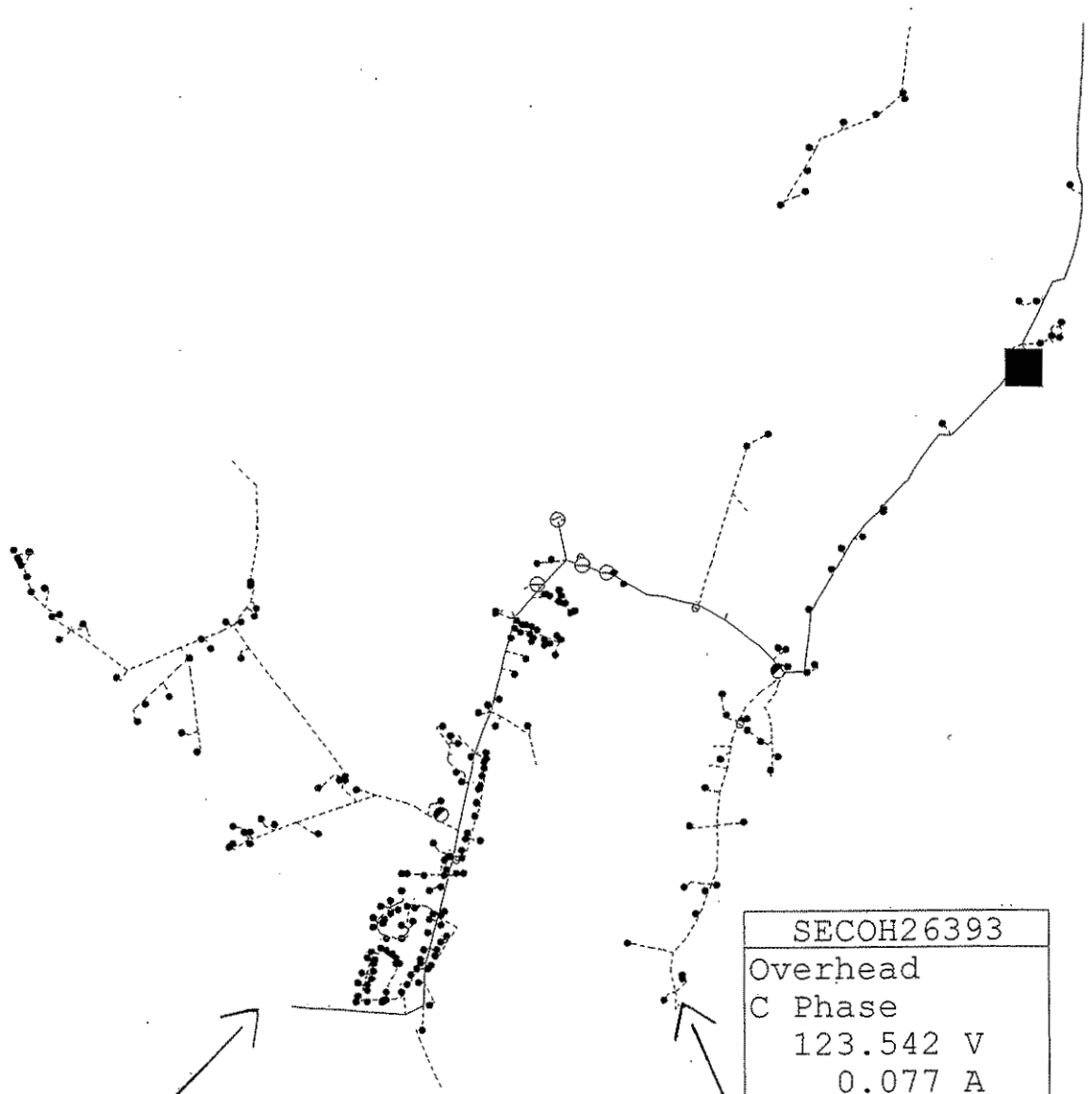


North Springfield fdr 01  
 Winter 2008 Load Level  
 Before  
 Corrections



North Springfield fdr 03  
 Winter 2008 Load Level  
 Before  
 Corrections

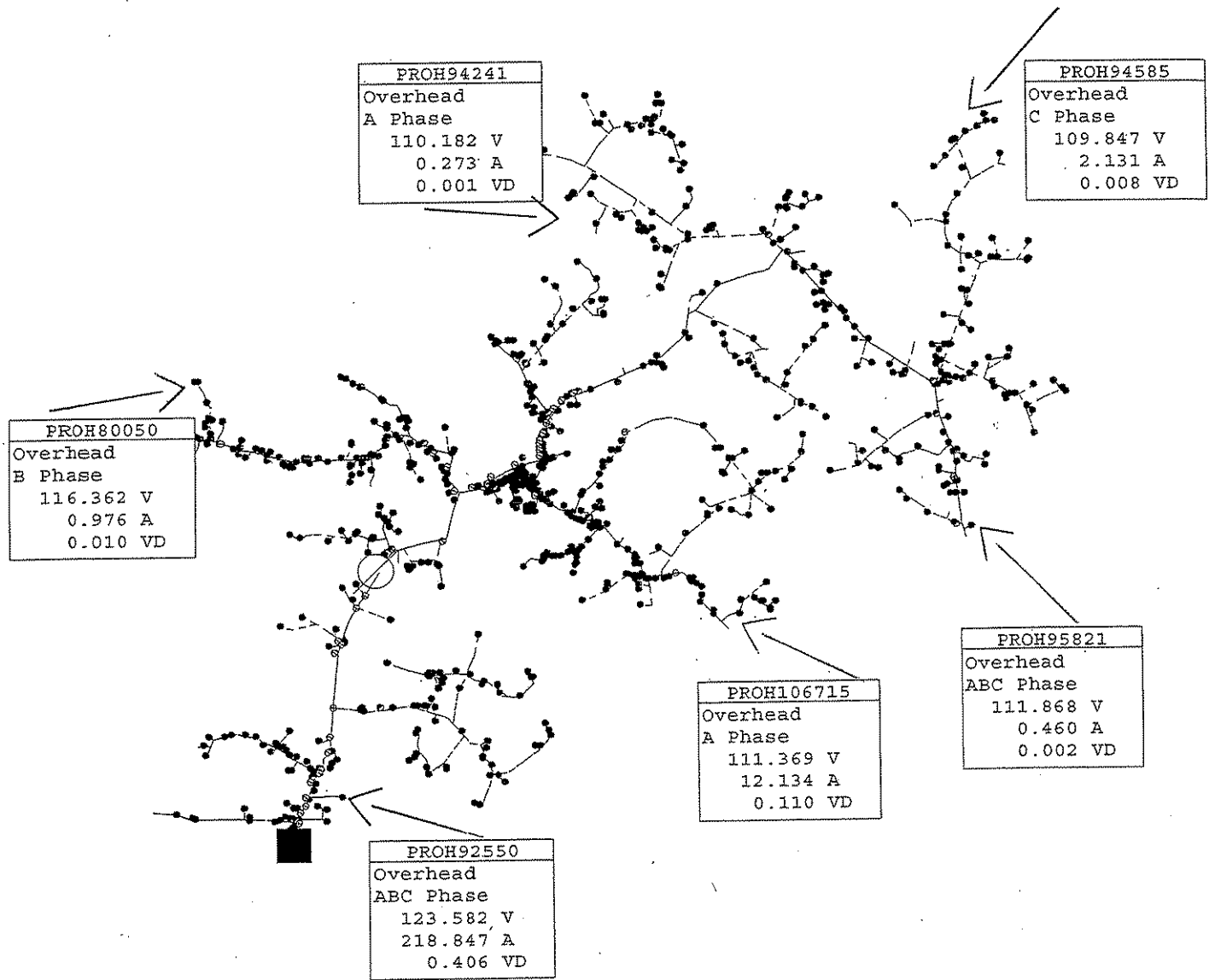




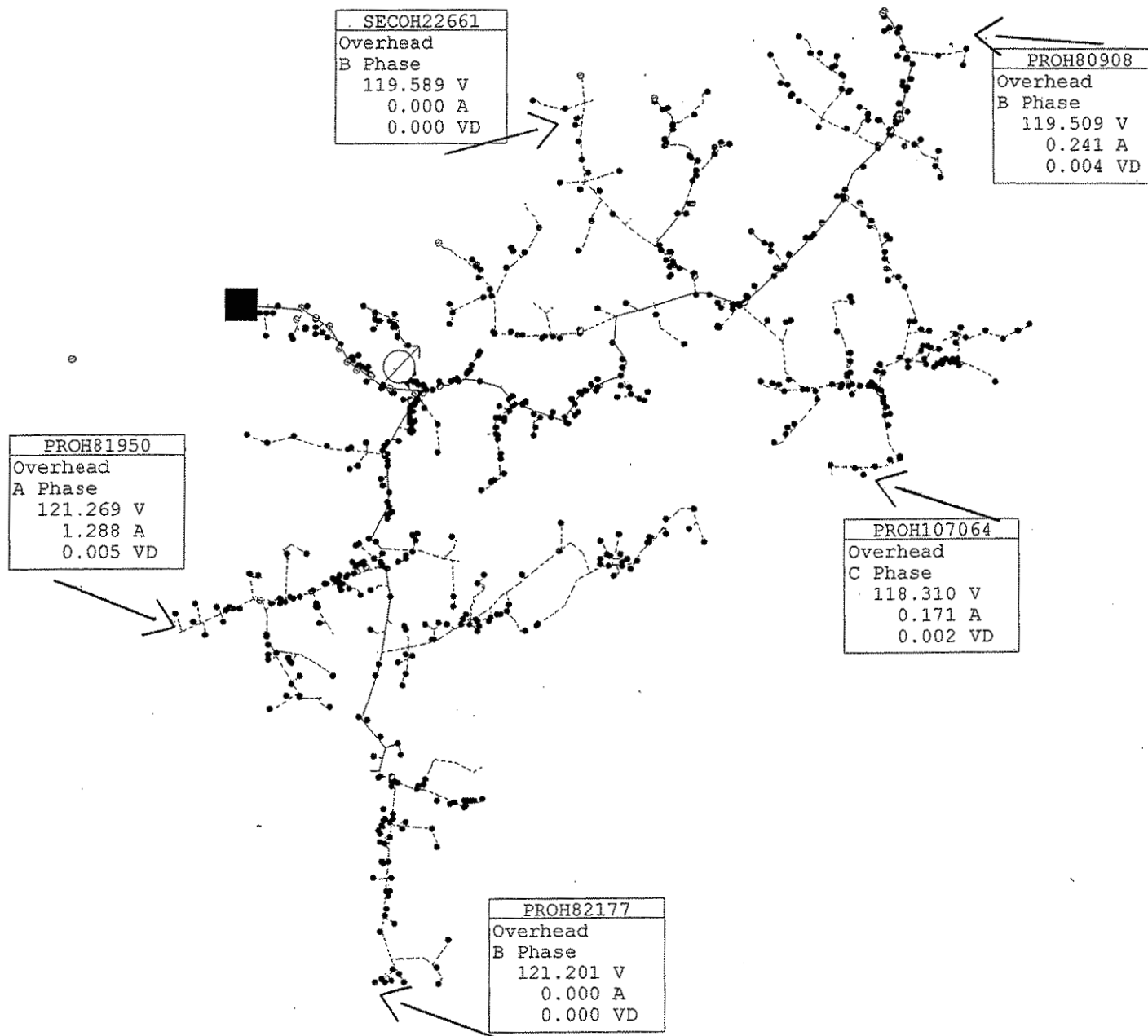
PROH97274
Overhead
ABC Phase
122.470 V
0.000 A
0.000 VD

SECOH26393
Overhead
C Phase
123.542 V
0.077 A
0.000 VD

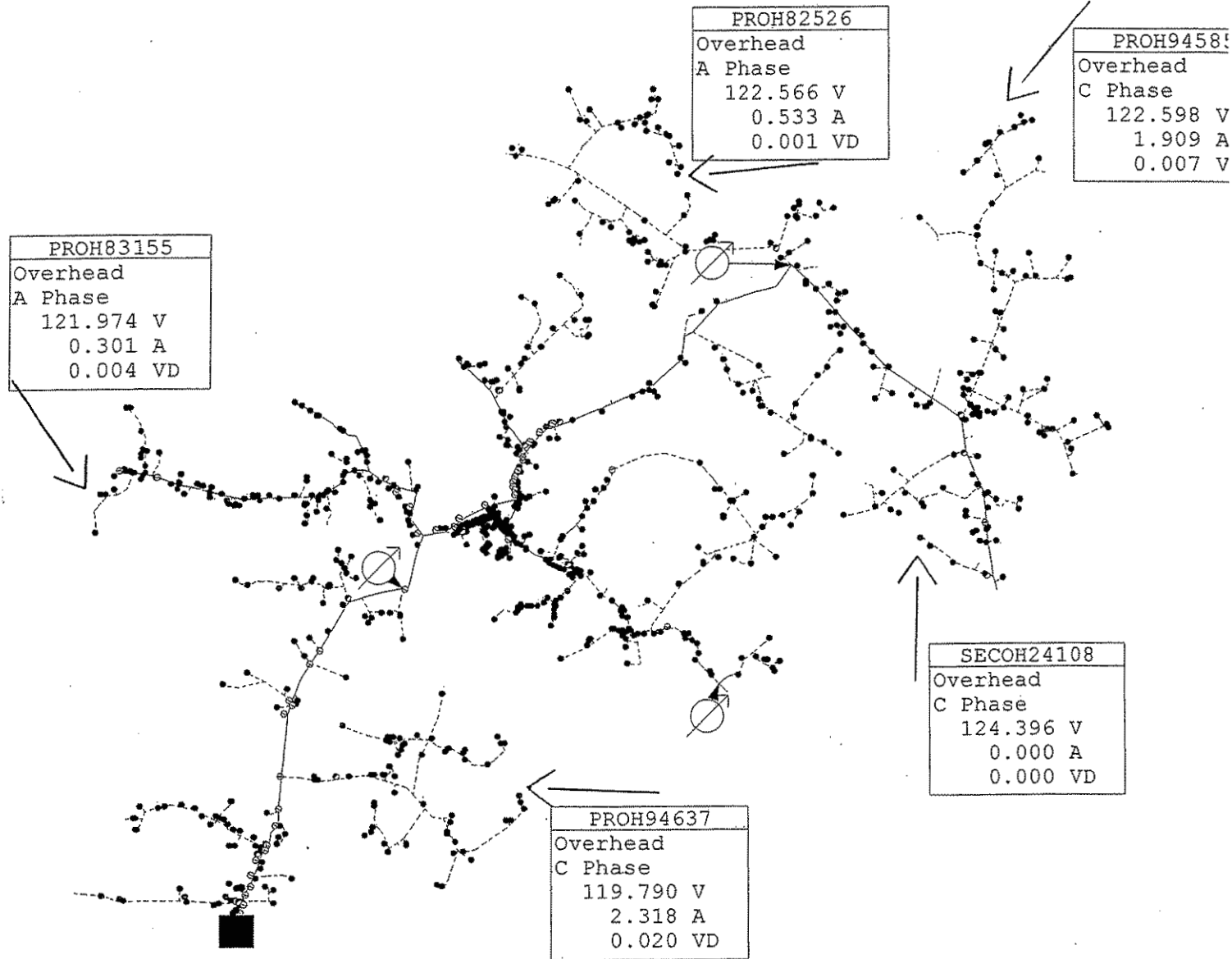
North Springfield fdr 04  
 Winter 2008 Load Level  
 Before  
 Corrections



North Springfield fdr 05  
 Winter 2008 Load Level  
 Before  
 Corrections



North Springfield fdr 01  
 Winter 2008 Load Level  
 After  
 Corrections



North Springfield fdr 05  
 Winter 2008 Load Level  
 After  
 Corrections

NORTH SPRINGFIELD SUBSTATION

2008 LOAD LEVEL  
AFTER CORRECTIONS

10,982 KW

FDR 01 3 PHASE 300 AMP REGULATOR (\$26,600)

FDR 05 3 PHASE 300 AMP REGULATOR (\$26,600)

FDR 05 1 PHASE REGULATOR (\$6,300)

FDR 05 1 PHASE REGULATOR (\$6,300)

FDR 05 3.73 MILE 2ACWC TO 336.4 ACSR (\$272,290)

Balanced Voltage Drop Report  
Source: 13

Database: C:\MILSOFT\PROGRAMS\ALLSUBS.WM\  
Title:  
Case:

03/01/2005 14:12 Page 1

Units Displayed In Volts																			
-Base Voltage:125.0-																			
Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	PF	% Loss	% Loss	mi From Src	Length (mi)	Element		
																KW	KVAR	Cons On	Cons Thru
13			ABC NORTH SPRI	7.20Y	125.0	0.00	0.00	513.74	92	10569	3381	95	0.00	0.0	0.000	0.000	0	0	0 1565
----- Feeder NO. 1		Beginning with Node Element 344-11-1263																	
344-11-1263	13		ABC Node	7.20Y	125.0	0.00	0.00	106.89	0	2214	653	96	0.00	0.0	0.000	0.000	0	0	0 587
----- Feeder NO. 5		Beginning with Node Element 344-11-1270																	
344-11-1270	13		ABC Node	7.20Y	125.0	0.00	0.00	204.46	0	4179	1429	95	0.00	0.0	0.000	0.000	0	0	0 739
C 287-20-1264	PROH98502		A 4H-50 OCR	6.93Y	120.3	0.00	4.71	59.94	120	401	107	97	0.00	0.0	7.145	0.000	0	0	0 90 C
----- Feeder NO. 4		Beginning with Node Element 344-11-1163																	
344-11-1163	13		ABC Node	7.20Y	125.0	0.00	0.00	202.46	0	4176	1299	95	0.00	0.0	0.000	0.000	0	0	0 239

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

KW	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total			
3890	0	0	0	0	0	6390	288	0.00	10569	3381	Lowest Voltage =	117.08	on Element SECON24918
1021	0	0	0	-4	0	1952	412				Max Accm VoltD =	7.92	on Element SECON24918
											Max Elem VoltD =	1.43	on Element PROH92504

Balanced Voltage Drop Report  
Source: SW1-B

Database: C:\MILSOFT\PROGRAMS\ALLSUBS.WM  
Title:  
Case:

03/01/2005 14:12 Page 2

Units Displayed In Volts															mi		-----Element-----			
-Base Voltage:125.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	% KVAR	PF	% Loss	% Loss	From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru

KEY-> L = Low Voltage    H = High Voltage    C = Capacity Over Limit    G = Generator Out of Kvar Limits    P = Power Factor Low

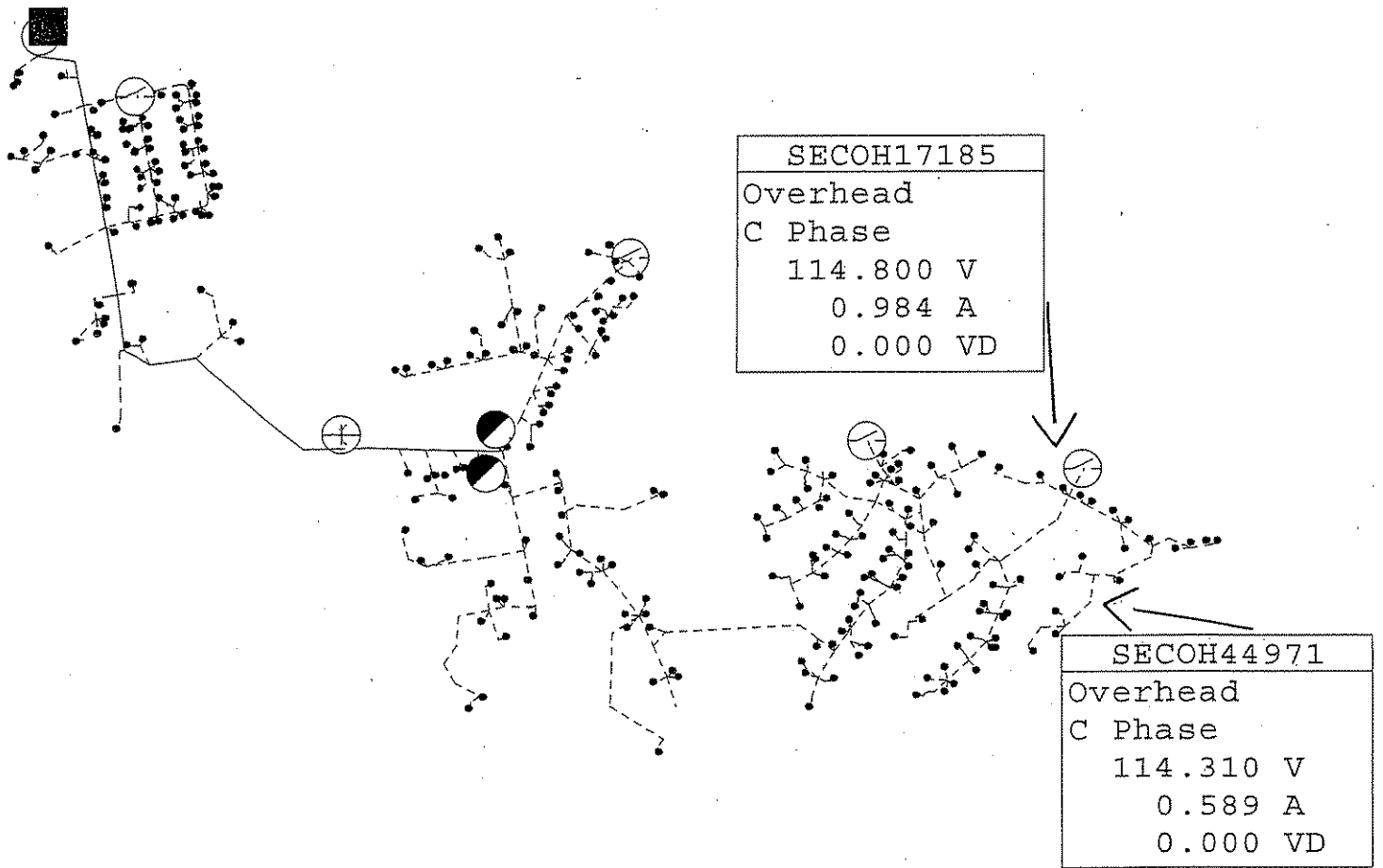
Substation Summary:					
Substation	KW	KW Losses	KVAR	KVAR Losses	KVA
13	3890.00	288.00	1021.00	412.00	11096.84
Total:	3890.00	288.00	1021.00	412.00	11096.84



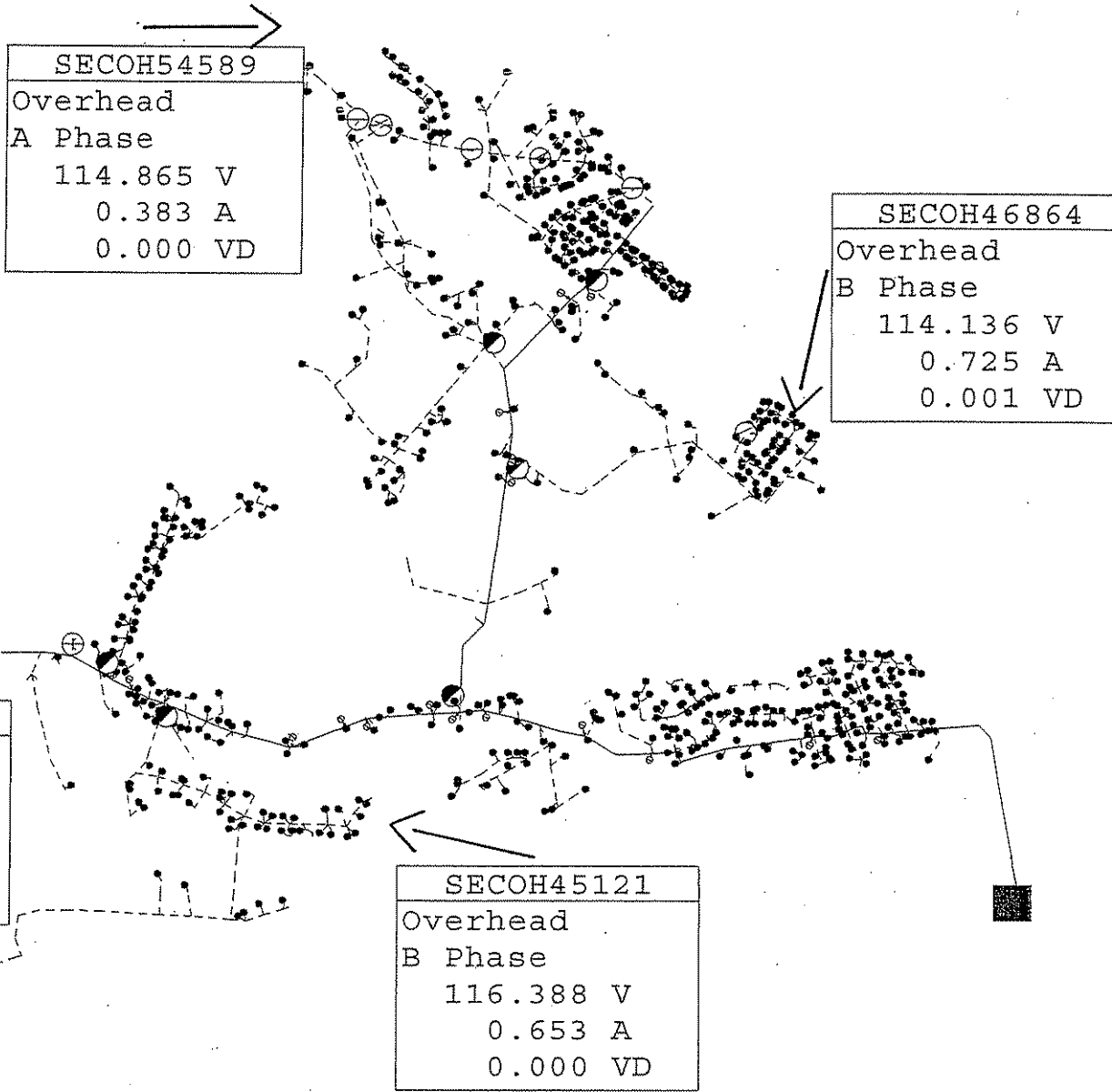
PLEASANT GROVE SUBSTATION

2008 LOAD LEVEL  
BEFORE CORRECTIONS

12,649 KW



Pleasant Grove fdr 04  
 Winter 2008 Load Level  
 Before  
 Corrections



SECOH54589
Overhead
A Phase
114.865 V
0.383 A
0.000 VD

SECOH46864
Overhead
B Phase
114.136 V
0.725 A
0.001 VD

PROH104013
Overhead
B Phase
116.372 V
0.000 A
0.000 VD

SECOH45121
Overhead
B Phase
116.388 V
0.653 A
0.000 VD

Pleasant Grove fdr 01  
 Winter 2008 Load Level  
 Before  
 Corrections

SECUG59864
Underground
C Phase
121.916 V
0.960 A
0.001 VD

SECOH19177
Overhead
C Phase
122.166 V
0.900 A
0.001 VD

SECOH6415
Overhead
C Phase
122.021 V
1.144 A
0.001 VD

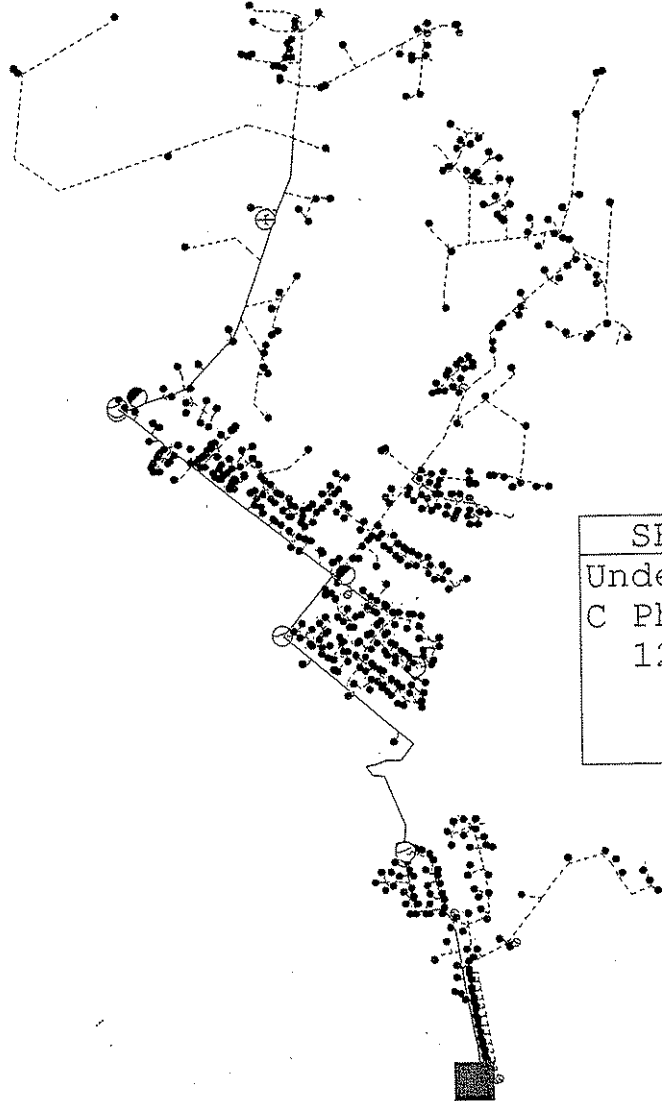


Pleasant Grove fdr 03  
 Winter 2008 Load Level  
 Before  
 Corrections

SECOH17265
Overhead
A Phase
124.588 V
1.070 A
0.001 VD

PROH84587
Overhead
C Phase
119.101 V
0.480 A
0.003 VD

SECUG58122
Underground
C Phase
120.879 V
1.103 A
0.001 VD



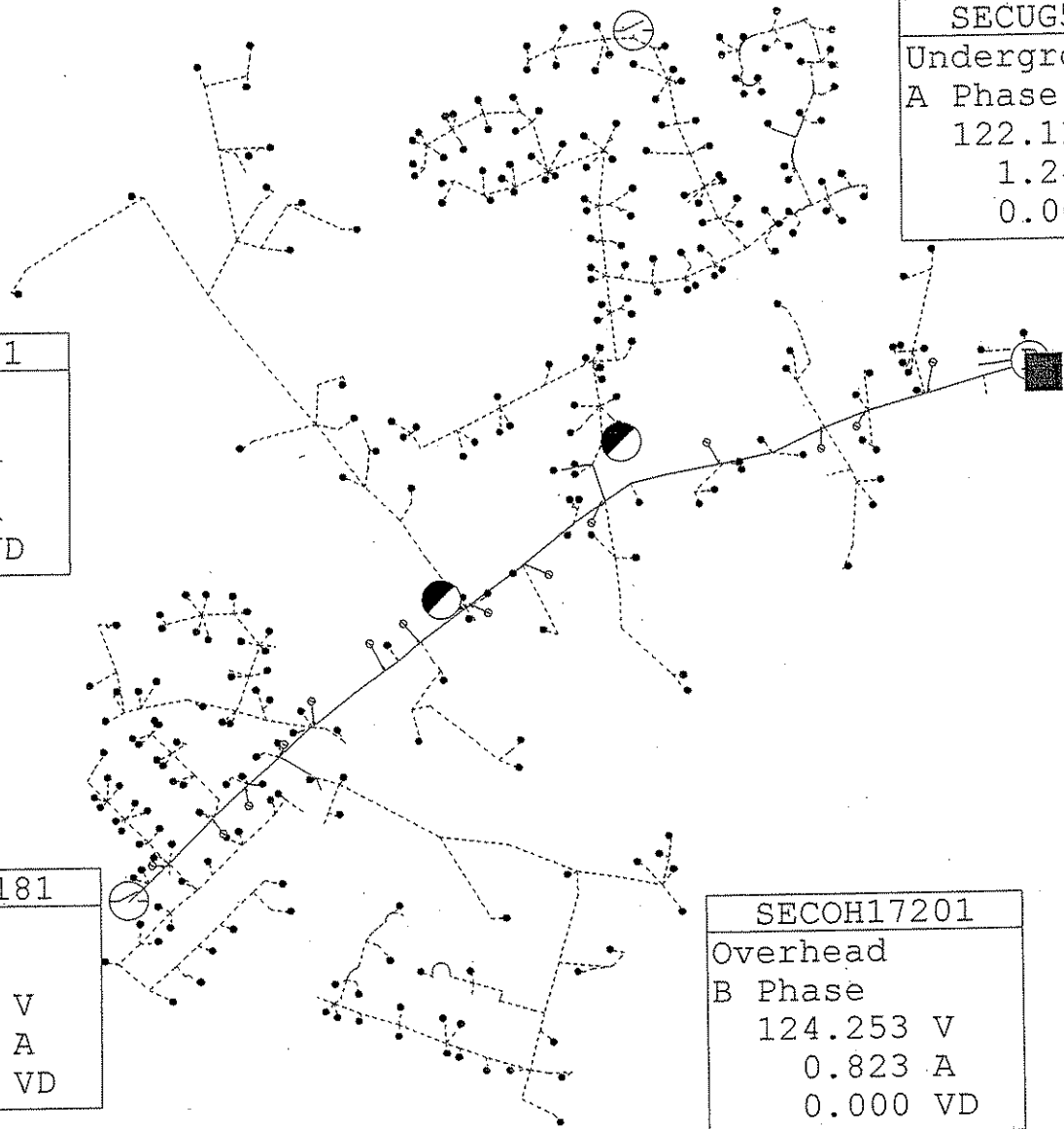
Pleasant Grove fdr 02  
 Winter 2008 Load Level  
 Before  
 Corrections

SECOH45131
Overhead
A Phase
123.063 V
0.855 A
0.001 VD

SECUG57296
Underground
A Phase
122.115 V
1.240 A
0.001 VD

SECOH17181
Overhead
B Phase
124.515 V
0.749 A
0.000 VD

SECOH17201
Overhead
B Phase
124.253 V
0.823 A
0.000 VD

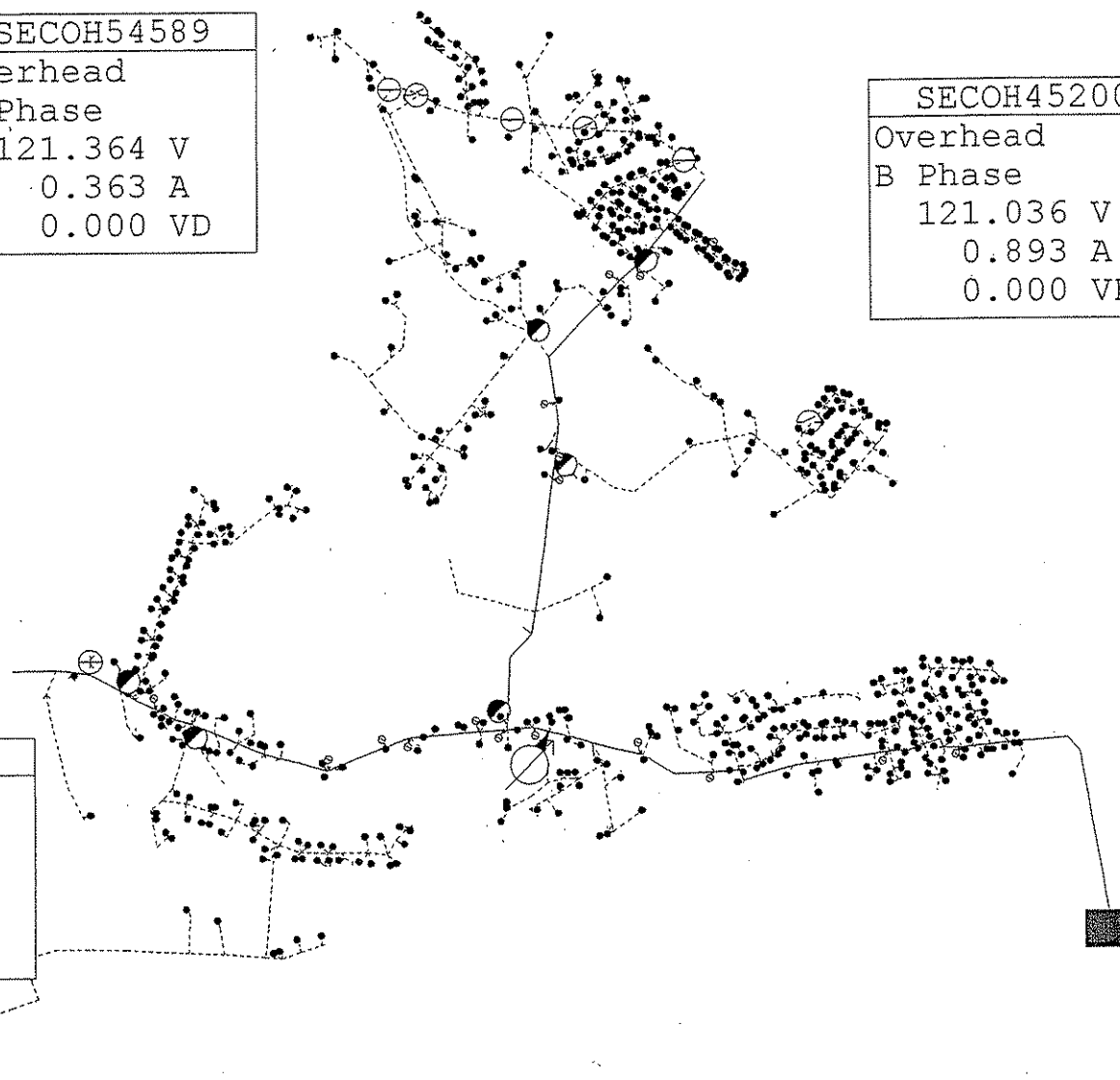


Pleasant Grove fdr 05  
 Winter 2008 Load Level  
 Before  
 Corrections

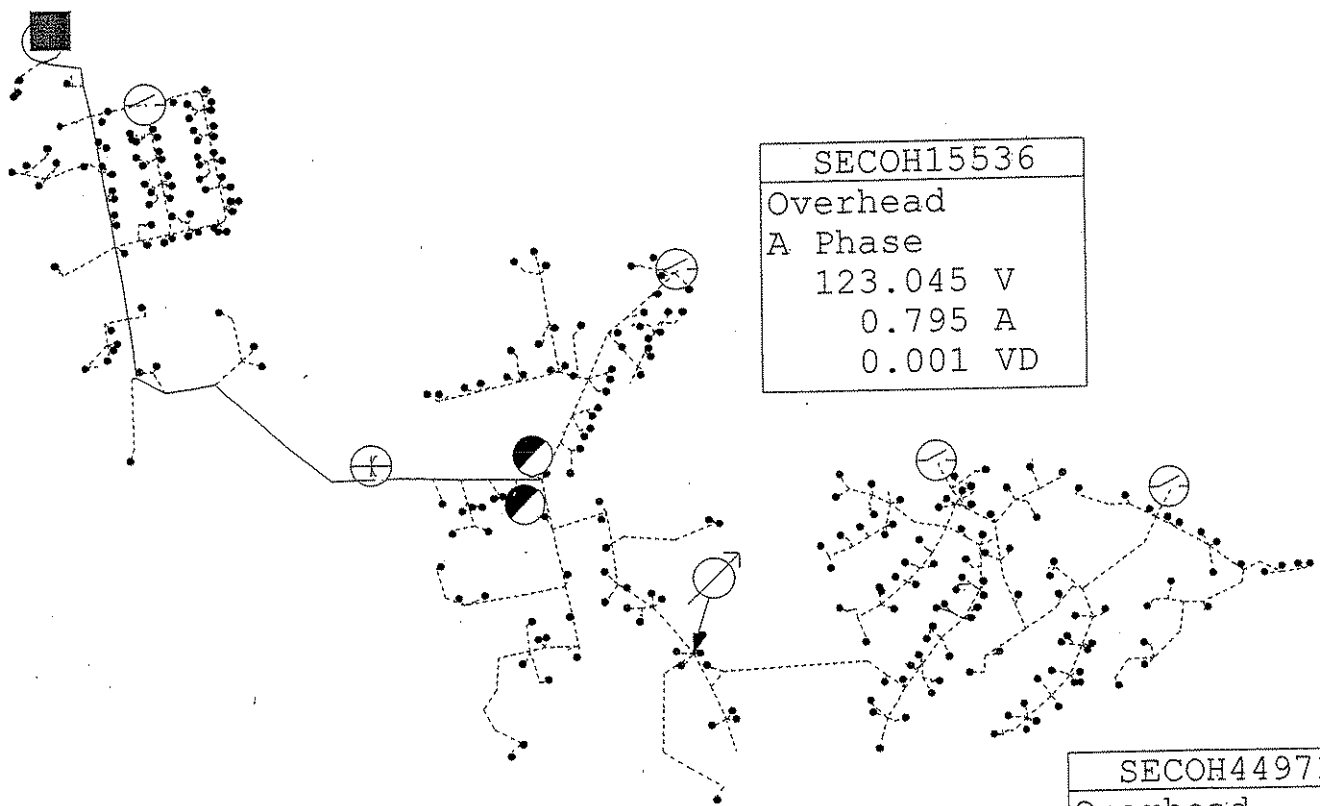
SECOH54589
Overhead
A Phase
121.364 V
0.363 A
0.000 VD

SECOH45200
Overhead
B Phase
121.036 V
0.893 A
0.000 VD

PROH104013
Overhead
B Phase
122.860 V
0.000 A
0.000 VD



Pleasant Grove fdr 01  
 Winter 2008 Load Level  
 After  
 Corrections



SECOH15536
Overhead
A Phase
123.045 V
0.795 A
0.001 VD

SECOH44971
Overhead
C Phase
122.013 V
0.552 A
0.000 VD

Pleasant Grove fdr 04  
 Winter 2008 Load Level  
 After  
 Corrections



# PLEASANT GROVE SUBSTATION

2008 LOAD LEVEL  
BEFORE CORRECTIONS

12,649 KW

FDR 01 3 PHASE 150 AMP REGULATOR (\$23,600)

FDR 04 1 PHASE REGULATOR (\$6,300)

Balanced Voltage Drop Report  
Source: 14

Database: C:\MILSOFT\PROGRAMS\ALLSUBS.WM\  
Title:  
Case:

03/01/2005 14:39 Page 1

		Units Displayed In Volts														-----Element-----				
		-Base Voltage:125.0-																		
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	KW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
C 14			ABC PLEASANT G	7.20Y	125.0	0.00	0.00	611.62	109	12577	4044	95	0.00	0.0	0.000	0.000	0	0	0	2295 C
-----	Feeder NO.	1	Beginning with Node Element 071-13-5232																	
071-13-5232	14		ABC Node	7.20Y	125.0	0.00	0.00	166.66	0	3412	1148	95	0.00	0.0	0.000	0.000	0	0	0	615
C 049-09-9263	PROH88136		B 4N-70 OCR	7.06Y	122.5	0.00	2.46	75.59	108	510	158	96	0.00	0.0	3.940	0.000	0	0	0	93 C
-----	Feeder NO.	3	Beginning with Node Element 071-13-5330																	
071-13-5330	14		ABC Node	7.20Y	125.0	0.00	0.00	156.40	0	3227	1001	96	0.00	0.0	0.000	0.000	0	0	0	585
-----	Feeder NO.	4	Beginning with Node Element 071-13-5124																	
071-13-5124	14		ABC Node	7.20Y	125.0	0.00	0.00	78.25	0	1611	511	95	0.00	0.0	0.000	0.000	0	0	0	270
C 093-09-8194	PROH86593		C L-100 OCR	7.09Y	123.1	0.00	1.89	124.94	125	844	270	95	0.00	0.0	1.579	0.000	0	0	0	134 C
-----	Feeder NO.	2	Beginning with Node Element 071-13-5231																	
071-13-5231	14		ABC Node	7.20Y	125.0	0.00	0.00	138.12	0	2837	923	95	0.00	0.0	0.000	0.000	0	0	0	540
-----	Feeder NO.	5	Beginning with Node Element 071-13-5131																	
071-13-5131	14		ABC Node	7.20Y	125.0	0.00	0.00	72.22	0	1490	461	96	0.00	0.0	0.000	0.000	0	0	0	285
C 071-12-1310	PROH83943		A VAL-70 OCR	7.16Y	124.3	0.00	0.66	84.79	121	581	177	96	0.00	0.0	0.662	0.000	0	0	0	117 C

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total		
KW	12369	0	0	0	0	0	208		0.00	12577	Lowest Voltage = 120.06 on Element SECOH20364	
KVAR	3801	0	0	-39	0	0	282			4044	Max Accm VoltD = 4.94 on Element SECOH20364	
											Max Elem VoltD = 1.02 on Element PROH109751	

Balanced Voltage Drop Report  
Source: SWI-B

Database: C:\MILSOFT\PROGRAMS\ALLSUBS.WM  
Title:  
Case:

03/01/2005 14:39 Page 2

Units Displayed in Volts															mi		-----Element-----			
-Base Voltage:125.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	% KVAR	KW Loss	% Loss	From Src	Length (mi)	Cons		Cons		
															KW	KVAR	On	Thru		

KEY-> L = Low Voltage    H = High Voltage    C = Capacity Over Limit    G = Generator Out of kvar Limits    P = Power Factor Low

Substation Summary:

Substation	KW	KW Losses	KVAR	KVAR Losses	KVA
14	12369.00	208.00	3801.00	282.00	13210.96
Total:	12369.00	208.00	3801.00	282.00	13210.96

SHEPHERDSVILLE # 1 SUBSTATION

2008 LOAD LEVEL  
BEFORE CORRECTIONS

9,203 KW  
(PLUS 8500 SPOT LOAD)

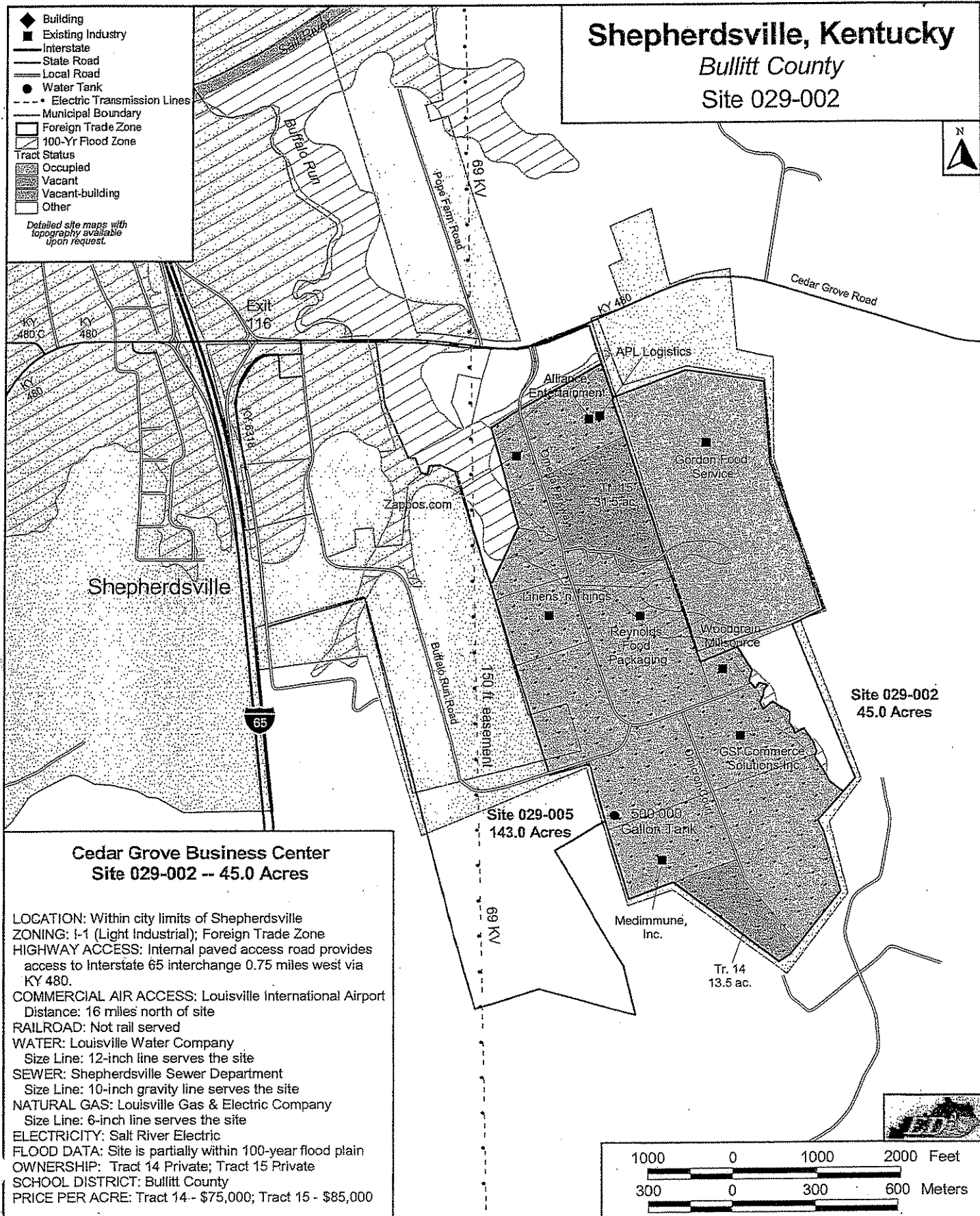
# Shepherdsville, Kentucky

## Bullitt County

### Site 029-002



- ◆ Building
  - Existing Industry
  - Interstate
  - State Road
  - Local Road
  - Water Tank
  - - - Electric Transmission Lines
  - Municipal Boundary
  - Foreign Trade Zone
  - 100-Yr Flood Zone
  - Tract Status
  - ▨ Occupied
  - ▩ Vacant
  - ▧ Vacant-building
  - Other
- Detailed site maps with topography available upon request.*



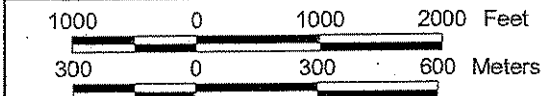
### Cedar Grove Business Center

#### Site 029-002 -- 45.0 Acres

**LOCATION:** Within city limits of Shepherdsville  
**ZONING:** I-1 (Light Industrial); Foreign Trade Zone  
**HIGHWAY ACCESS:** Internal paved access road provides access to Interstate 65 interchange 0.75 miles west via KY 480.  
**COMMERCIAL AIR ACCESS:** Louisville International Airport  
 Distance: 16 miles north of site  
**RAILROAD:** Not rail served  
**WATER:** Louisville Water Company  
 Size Line: 12-inch line serves the site  
**SEWER:** Shepherdsville Sewer Department  
 Size Line: 10-inch gravity line serves the site  
**NATURAL GAS:** Louisville Gas & Electric Company  
 Size Line: 6-inch line serves the site  
**ELECTRICITY:** Salt River Electric  
**FLOOD DATA:** Site is partially within 100-year flood plain  
**OWNERSHIP:** Tract 14 Private; Tract 15 Private  
**SCHOOL DISTRICT:** Bullitt County  
**PRICE PER ACRE:** Tract 14 - \$75,000; Tract 15 - \$85,000

Site 029-002  
45.0 Acres

Site 029-005  
143.0 Acres

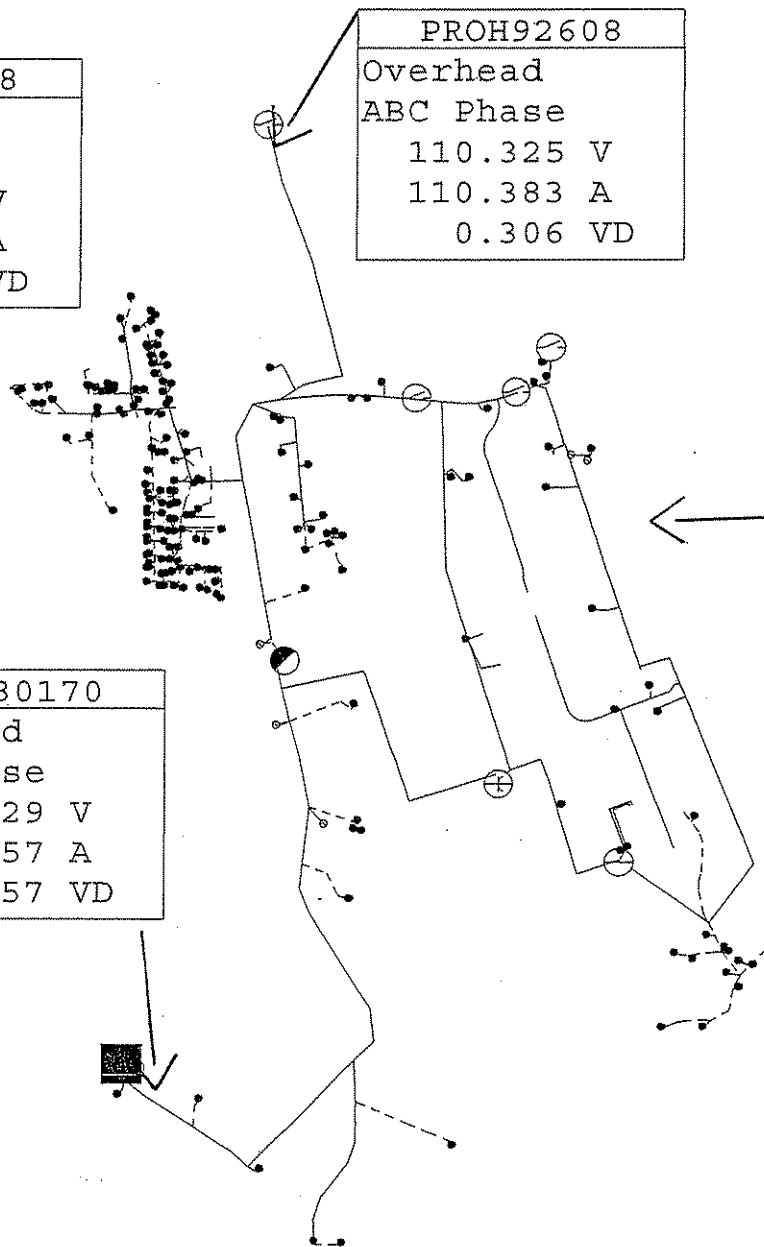


PROH83128
Overhead
B Phase
110.416 V
2.414 A
0.007 VD

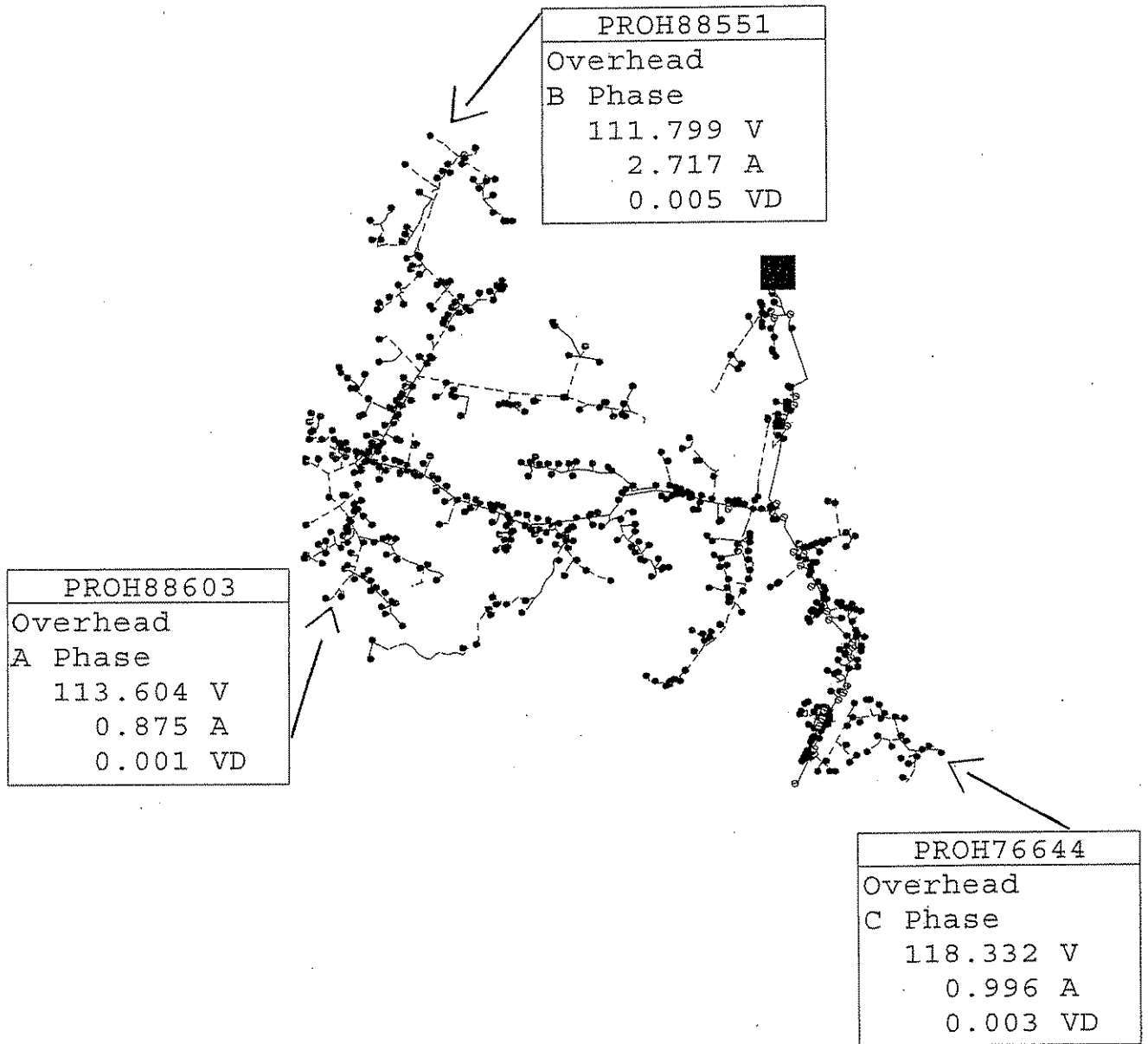
PROH92608
Overhead
ABC Phase
110.325 V
110.383 A
0.306 VD

PROH104693
Overhead
ABC Phase
99.384 V
351.519 A
0.559 VD

PROH80170
Overhead
ABC Phase
123.129 V
1058.257 A
1.557 VD



Shepherdsville # 1 fdr 02  
 Winter 2008 Load Level  
 Before  
 Corrections

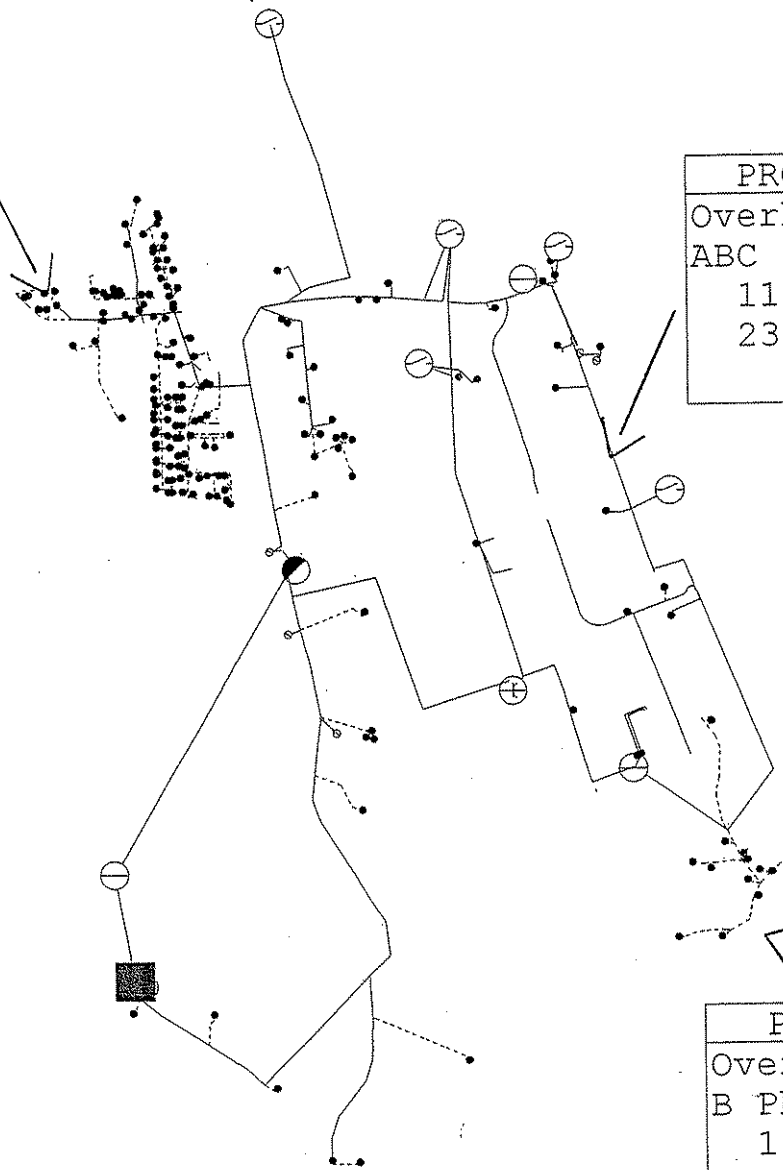


Shepherdsville # 1 fdr 03  
 Winter 2008 Load Level  
 Before  
 Corrections



PROH83128
Overhead
B Phase
120.209 V
2.217 A
0.006 VD

PROH104693
Overhead
ABC Phase
117.304 V
233.477 A
0.315 VD



PROH87041
Overhead
B Phase
117.610 V
1.072 A
0.000 VD

Shepherdsville # 1 fdr 02 \_01  
 Winter 2008 Load Level  
 After  
 Corrections

SECOH42706
Overhead
A Phase
121.810 V
0.644 A
0.001 VD

SECOH46782
Overhead
B Phase
120.226 V
1.160 A
0.001 VD

PROH76644
Overhead
C Phase
118.344 V
0.996 A
0.003 VD

Shepherdsville # 1 fdr 03  
 Winter 2008 Load Level  
 After  
 Corrections

# SHEPHERDSVILLE # 1 SUBSTATION

2008 LOAD LEVEL  
AFTER CORRECTIONS

9,203 KW  
(PLUS 8500 SPOT LOAD)

FDR 01 2.74 MILE 795 SPACER CABLE (\$274,000)

FDR 03 3 PHASE 150 AMP REGULATOR (\$23,600)

Balanced Voltage Drop Report  
Source: 15

Database: C:\MILSOFT\PRGGRAMS\ALLSUBS.WVA  
Title:  
Case:

		Units Displayed In Volts													-----Element-----					
		-Base Voltage:125.0-																		
Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	KW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
C 15		ABC	SHEPHERDSV	7.20Y	125.0	0.00	0.00	1089.29	195	22179	7853	94	0.00	0.0	0.000	0.000	0	0	0	828 C
C 133-08-1262	OH4	ABC	L-100 OCR	7.09Y	123.1	0.00	1.88	496.88	497	9977	3494	94	0.00	0.0	1.970	0.000	0	0	0	229 C
C PROH106907	SW29-B	ABC	#2 ACSR 6/	6.88Y	119.4	0.43	5.59	294.73	164	5817	1850	95	19.42	0.3	3.368	0.053	0	0	0	6 C
----- Feeder NO. 1		Beginning with Node Element 154-01-0282																		
154-01-0282	15	ABC	Node	7.20Y	125.0	0.00	0.00	0.00	0	0	0	0	0.00	0.0	0.000	0.000	0	0	0	0
----- Feeder NO. 3		Beginning with Node Element 154-01-0280																		
154-01-0280	15	ABC	Node	7.20Y	125.0	0.00	0.00	177.23	0	3648	1162	95	0.00	0.0	0.000	0.000	0	0	0	568
C 152-22-8224	PROH88500	A	H-50 OCR	7.09Y	123.1	0.00	1.94	57.18	114	390	110	96	0.00	0.0	5.165	0.000	0	0	0	70 C
----- Feeder NO. 2		Beginning with Node Element 154-01-0281																		
154-01-0281	15	ABC	Node	7.20Y	125.0	0.00	0.00	415.40	0	8384	3197	93	0.00	0.0	0.000	0.000	0	0	0	31
C 154-01-0480	PROH109839	ABC	400-200	7.20Y	125.0	0.00	0.03	415.40	104	8383	3193	93	0.00	0.0	0.013	0.000	0	0	0	31 C
C PROH88370	PROH79684	ABC	#2 ACSR 6/	6.80Y	118.1	0.02	6.92	260.62	145	5119	1443	96	0.71	0.0	3.279	0.002	0	0	0	19 C
C PROH107111	SW3-A	ABC	#2 ACSR 6/	6.80Y	118.1	0.03	6.95	260.62	145	5118	1443	96	1.03	0.0	3.283	0.004	0	0	0	19 C
C SECUG71483	PROH107112	ABC	URD 2 TPX	6.79Y	118.0	0.01	7.04	87.66	83	1738	417	97	0.14	0.0	3.323	0.004	0	0	0	1 C
C SECOH56507	PROH104700	ABC	2 TPX	6.84Y	118.7	0.00	6.26	145.03	137	2866	799	96	0.08	0.0	3.120	0.001	0	0	0	1 C

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total		
KW	21424	0	0	0	0	0	755	0.00	22179	Lowest Voltage = 117.03 on Element PROH98637	
KVAR	6228	0	0	-18	0	0	1644		7853	Max Accm VoltD = 7.97 on Element PROH98637	
										Max Elem VoltD = 1.88 on Element OH4	

Balanced Voltage Drop Report  
Source: PROH104698

Database: C:\MILSOFT\PROGRAMS\ALLSUBS.WM  
Title:  
Case:

Units Displayed In Volts  
-Base Voltage:125.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	% KVAR	PF	Loss	% Loss	mi From Src	Length (mi)	-----Element-----			
																Cons	Cons	On	Thru	

KEY-> L = Low Voltage    R = High Voltage    C = Capacity Over Limit    G = Generator Out of kvar Limits    P = Power Factor Low

Balanced Voltage Drop Report  
Source: SW28-B

Database: C:\MILSOFT\PROGRAMS\ALLSUBS.WM\  
Title:  
Case:

03/09/2005 14:06 Page 3

Units Displayed In Volts															mi		Element			
-Base Voltage:125.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	% KVAR	PF	Loss	% Loss	From Src	Length (mi.)	KW	KVAR	Cons On	Cons Thru

KEY-> L = Low Voltage    H = High Voltage    C = Capacity Over Limit    G = Generator Out of kvar Limits    P = Power Factor Low

---

Substation Summary: Substation	KW	KW Losses	KVAR	KVAR Losses	KVA
15	21424.00	755.00	6228.00	1644.00	23528.58
Total:	21424.00	755.00	6228.00	1644.00	23528.58

---

SHEPHERDSVILLE # 2 SUBSTATION

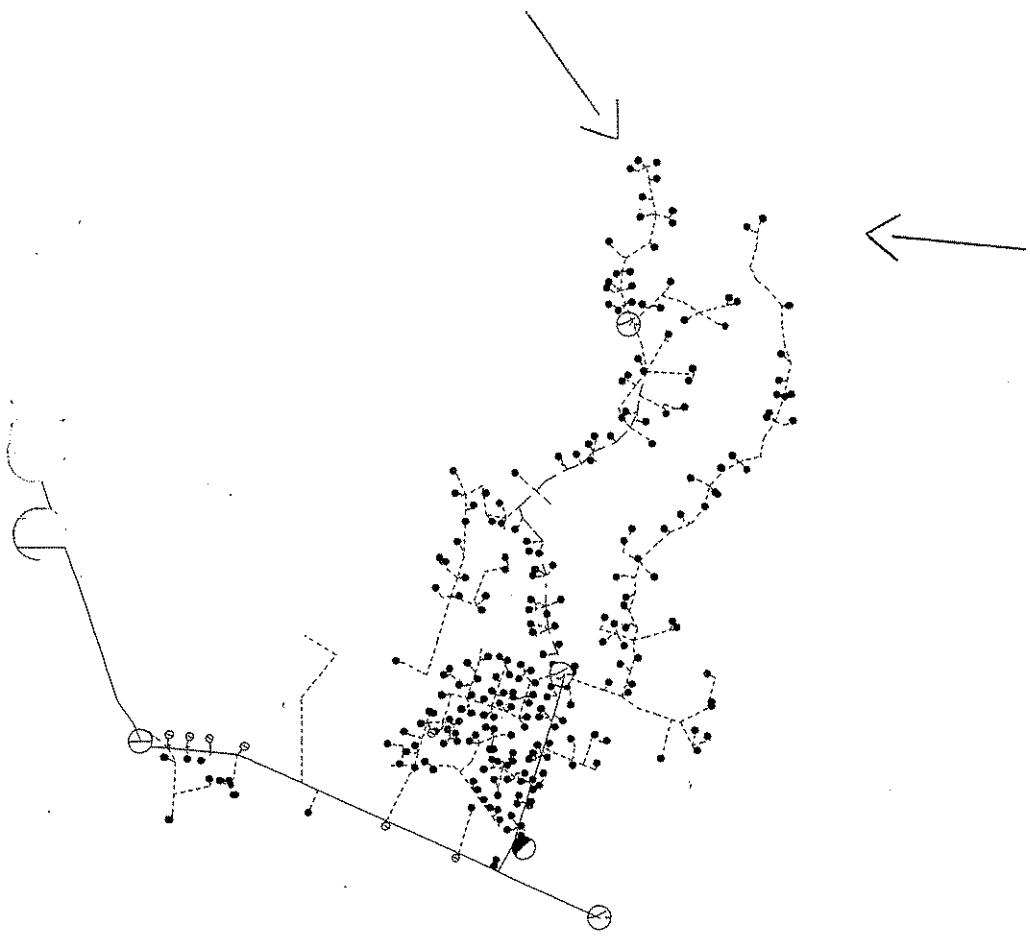
2008 LOAD LEVEL  
BEFORE CORRECTIONS

10,225 KW



PROH81667
Overhead
B Phase
121.248 V
1.880 A
0.002 VD

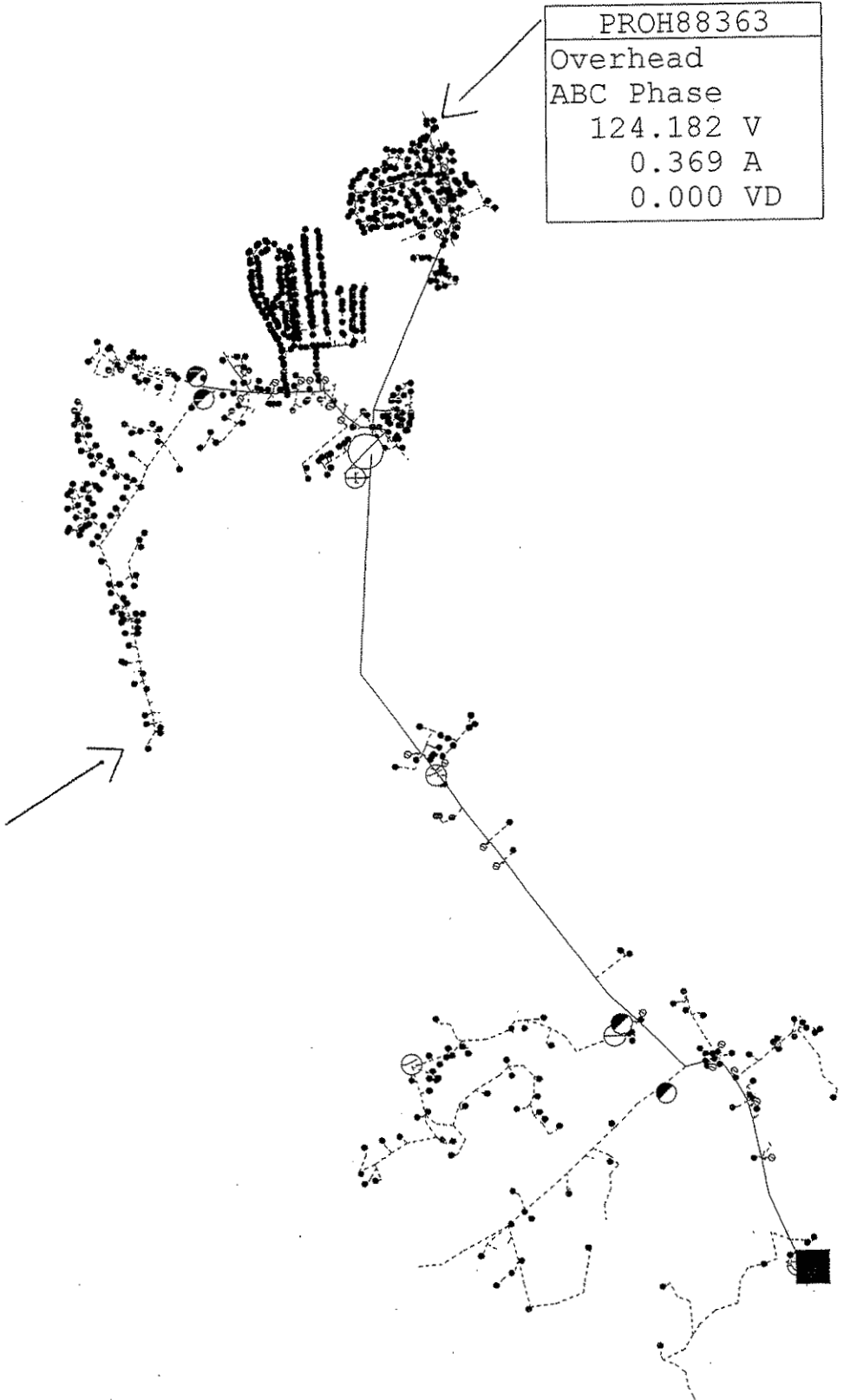
SECUG58843
Underground
A Phase
121.649 V
1.114 A
0.002 VD



Shepherdsville # 2 fdr 04  
 Winter 2008 Load Level  
 Before  
 Corrections

PROH88363
Overhead
ABC Phase
124.182 V
0.369 A
0.000 VD

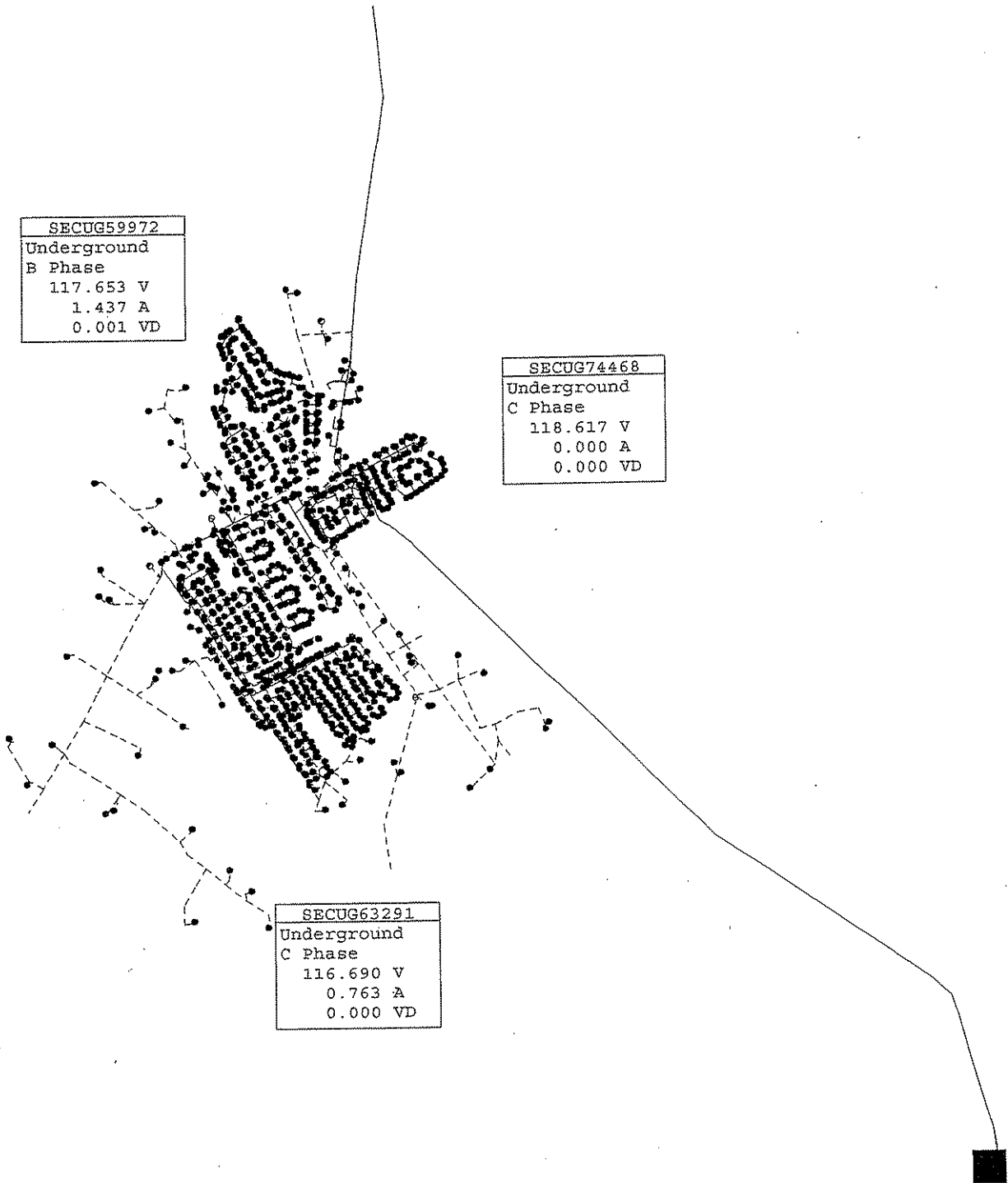
SECOH44006
Overhead
B Phase
122.943 V
0.000 A
0.000 VD



Shepherdsville # 2 fdr 05  
 Winter 2008 Load Level  
 Before  
 Corrections

SECUG59972
Underground
B Phase
117.653 V
1.437 A
0.001 VD

SECUG74468
Underground
C Phase
118.617 V
0.000 A
0.000 VD



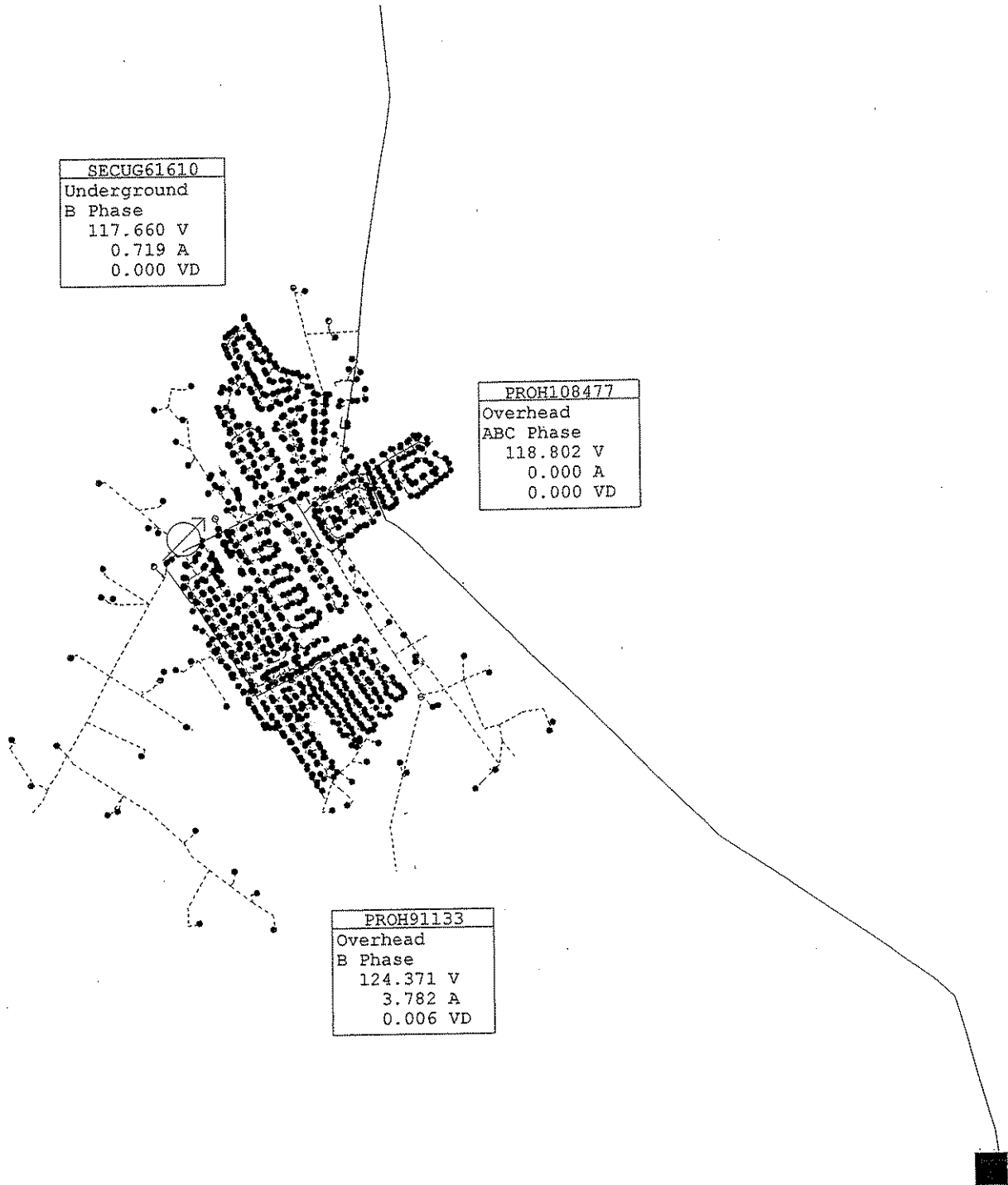
SECUG63291
Underground
C Phase
116.690 V
0.763 A
0.000 VD

Shepherdsville # 2 fdr 06  
 Winter 2008 Load Level  
 Before  
 Corrections

SECUG61610
Underground
B Phase
117.660 V
0.719 A
0.000 VD

PROH108477
Overhead
ABC Phase
118.802 V
0.000 A
0.000 VD

PROH91133
Overhead
B Phase
124.371 V
3.782 A
0.006 VD



Shepherdsville # 2 fdr 06  
Winter 2008 Load Level  
After  
Corrections

SHEPHERDSVILLE # 2 SUBSTATION

2008 LOAD LEVEL  
AFTER CORRECTIONS

10,225 KW

FDR 06 3 PHASE 150 AMP REGULATOR (\$23,600)

Balanced Voltage Drop Report  
Source: 152

Database: C:\MILSOFT\PROGRAMS\SHEP2.WM\  
Title:  
Case:

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Units Displayed In Volts																			
-Base Voltage:120.0-																			
Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt.	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	% KVAR	PF	% Loss	% Loss	mi From Src	Length (mi)	Element		
																KW	KVAR	On	Thru
152		ABC	SHEPHERDSV	7.50Y	125.0	0.00	0.00	475.27	85	10177	3283	95	0.00	0.0	0.000	0.000	0	0	0 2097
----- Feeder NO. 6 Beginning with Node Element 154-01-0082 -----																			
154-01-0082	152	ABC	Node	7.50Y	125.0	0.00	0.00	199.02	0	4265	1364	95	0.00	0.0	0.000	0.000	0	0	0 912
C 111-14-8131	PROH104573	B	V4H-70 OCR	7.11Y	118.5	0.00	6.50	85.85	123	588	163	96	0.00	0.0	2.880	0.000	0	0	0 131 C
----- Feeder NO. 4 Beginning with Node Element 154-01-0080 -----																			
154-01-0080	152	ABC	Node	7.50Y	125.0	0.00	0.00	66.26	0	1431	417	96	0.00	0.0	0.000	0.000	0	0	0 237
----- Feeder NO. 5 Beginning with Node Element 154-01-0081 -----																			
154-01-0081	152	ABC	Node	7.50Y	125.0	0.00	0.00	210.03	0	4481	1502	95	0.00	0.0	0.000	0.000	0	0	0 948

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total		
KW	4063	0	0	0	0	5912	202		0.00	10177	Lowest Voltage = 117.30 on Element SECOG59433	
KVAR	1141	0	0	-41	0	1919	264			3283	Max Accm VoltD = 7.70 on Element SECOG59433	
											Max Elem VoltD = 2.97 on Element PROH116312	

---

Substation Summary: Substation	KW	KW Losses	KVAR	KVAR Losses	KVA
152	4063.00	202.00	1141.00	264.00	10693.61
Total:	4063.00	202.00	1141.00	264.00	10693.61

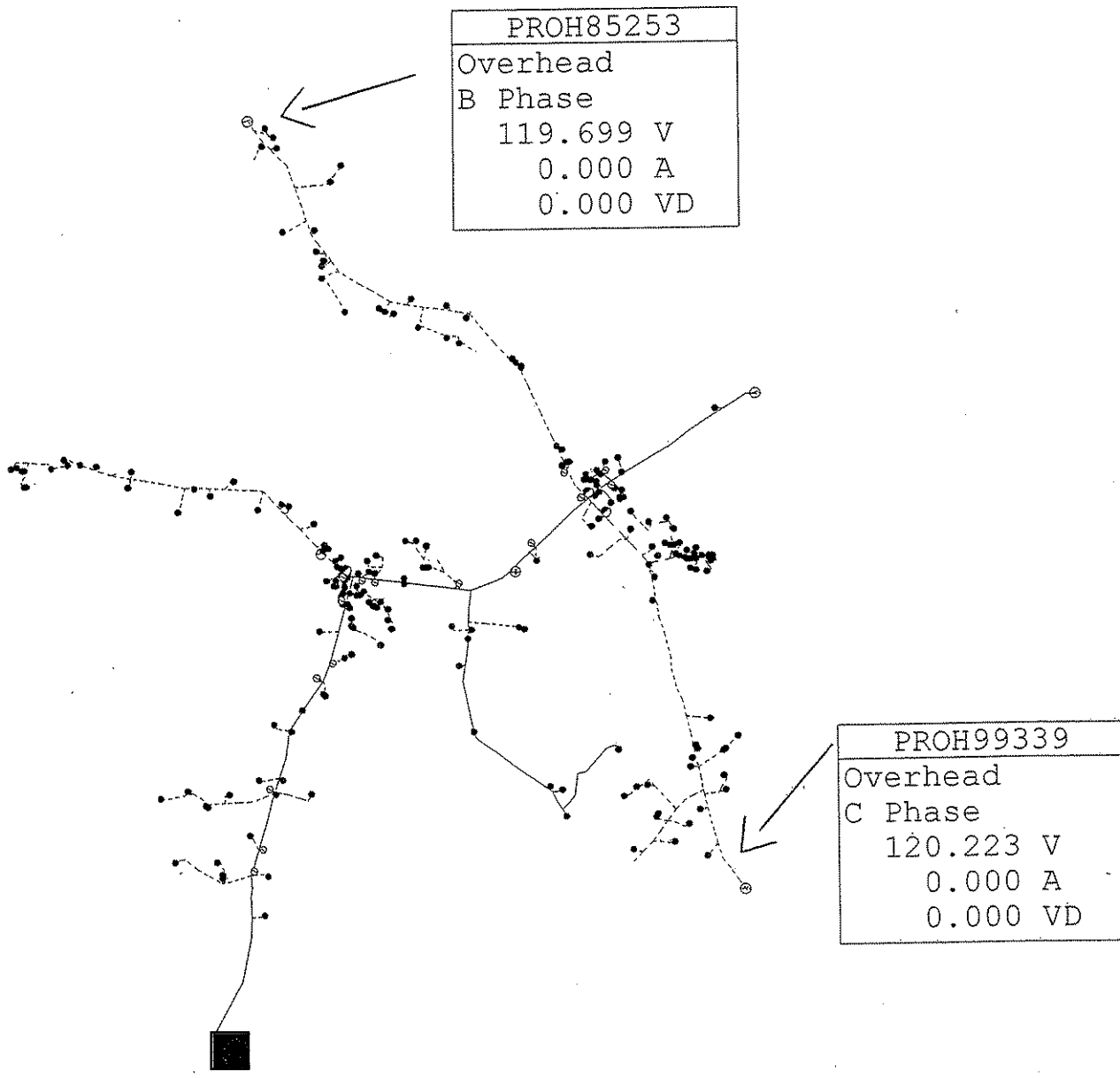
---

SOUTH SPRINGFIELD SUBSTATION

2008 LOAD LEVEL  
BEFORE CORRECTIONS

4,456 KW

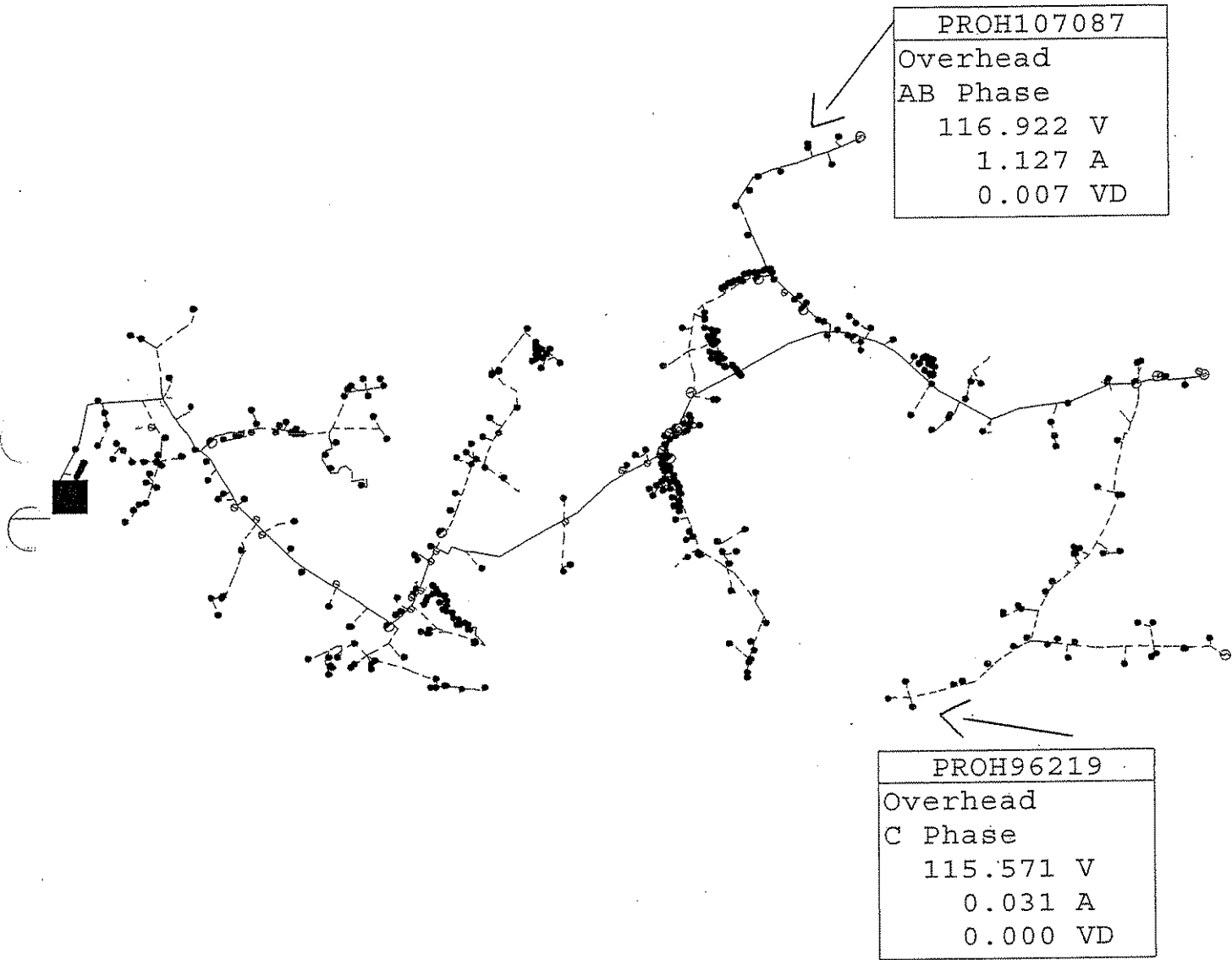




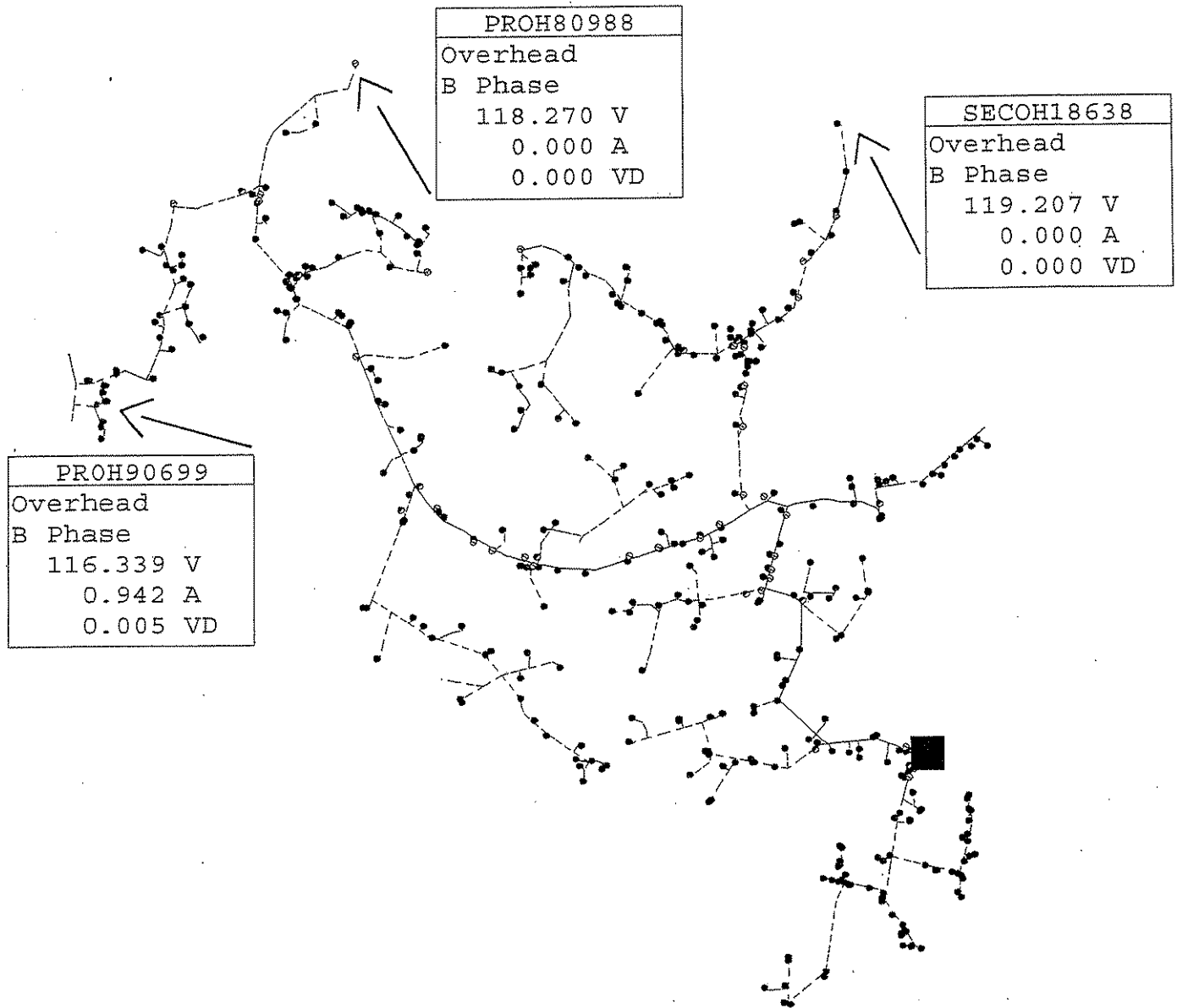
PROH85253
Overhead
B Phase
119.699 V
0.000 A
0.000 VD

PROH99339
Overhead
C Phase
120.223 V
0.000 A
0.000 VD

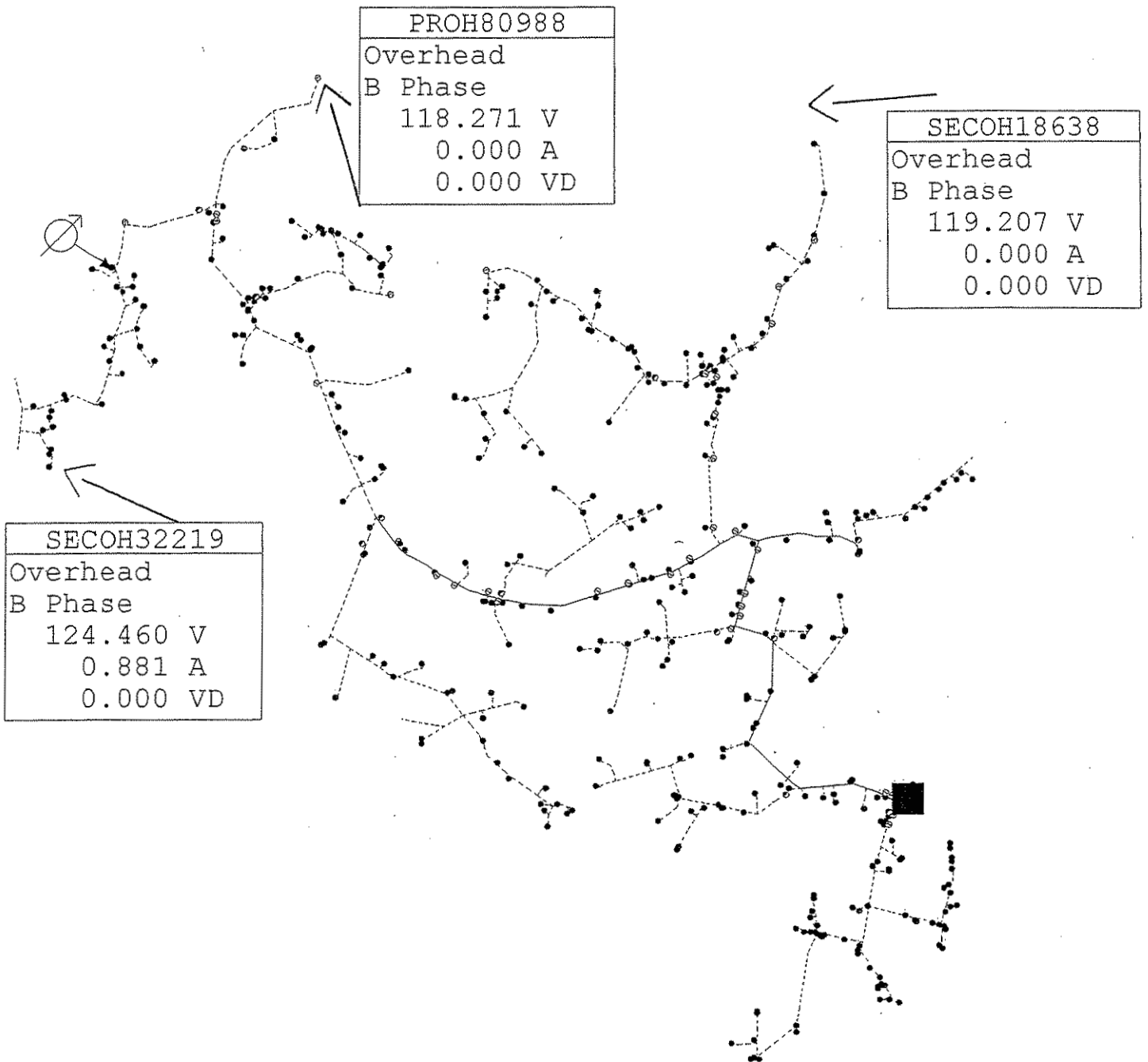
South Springfield fdr 01  
 Winter 2008 Load Level  
 Before  
 Corrections



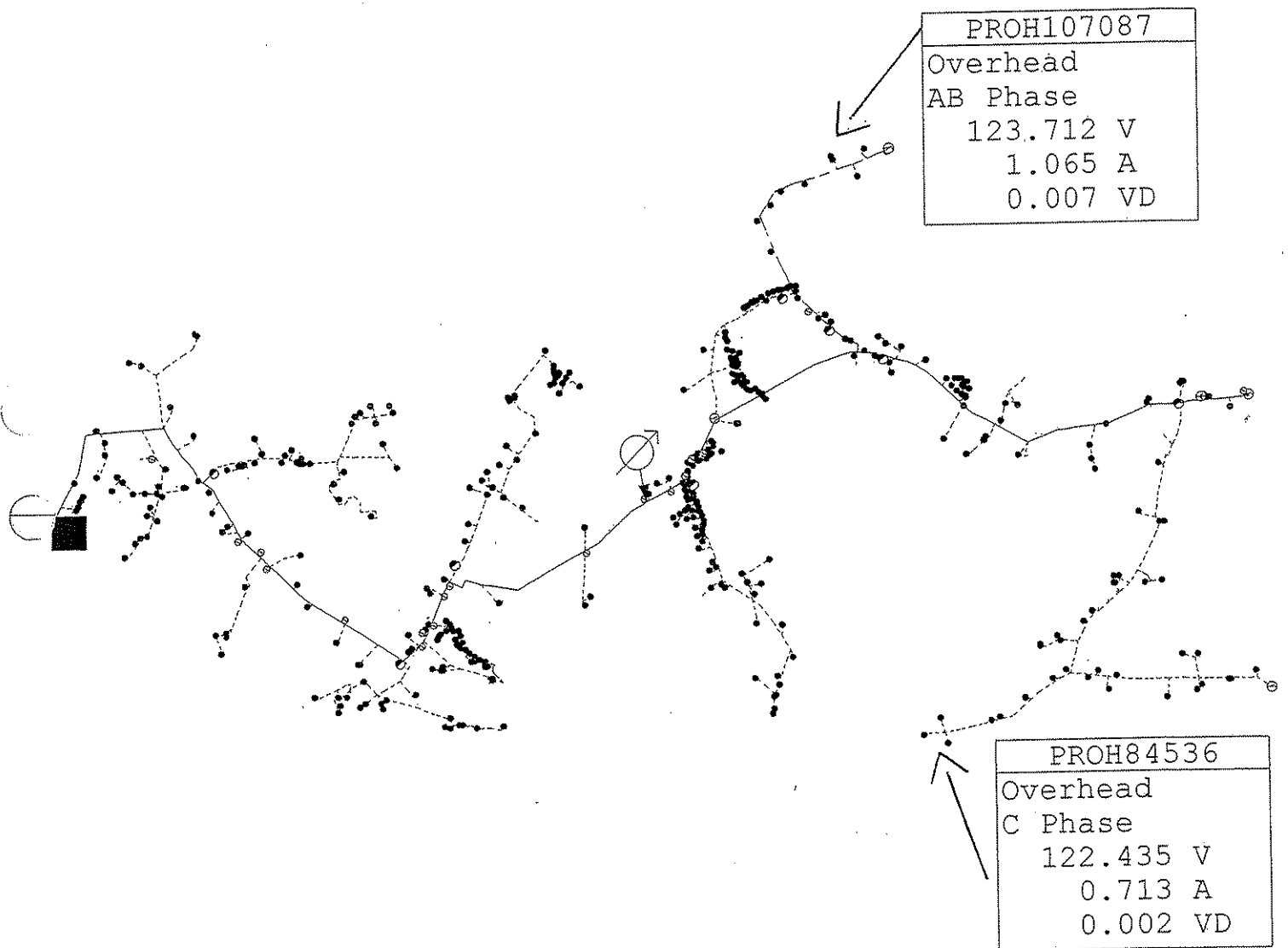
South Springfield fdr 02  
 Winter 2008 Load Level  
 Before  
 Corrections



South Springfield fdr 05  
 Winter 2008 Load Level  
 Before  
 Corrections



South Springfield fdr 05  
 Winter 2008 Load Level  
 After  
 Corrections



South Springfield fdr 02  
 Winter 2008 Load Level  
 After  
 Corrections

SOUTH SPRINGFIELD SUBSTATION

2008 LOAD LEVEL  
AFTER CORRECTIONS

4,456 KW

FDR 02 3 PHASE 150 AMP REGULATOR (\$23,600)

FDR 05 1 PHASE REGULATOR (\$6,300)

Balanced Voltage Drop Report  
Source: 16

Database: C:\MILSOFT\PROGRAMS\ALLSUBS.WM\  
Title:  
Case:

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		Units Displayed In Volts														-----Element-----				
		-Base Voltage:125.0-																		
Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
16			ABC SOUTH SPRI	7.20Y	125.0	0.00	0.00	216.20	39	4413	1527	95	0.00	0.0	0.000	0.000	0	0	0	855
----- Feeder NO. 1 Beginning with Node Element 411-12-7162																				
411-12-7162	16		ABC Node	7.20Y	125.0	0.00	0.00	55.43	0	1133	388	95	0.00	0.0	0.000	0.000	0	0	0	191
----- Feeder NO. 2 Beginning with Node Element 411-12-7263																				
411-12-7263	16		ABC Node	7.20Y	125.0	0.00	0.00	80.28	0	1637	571	94	0.00	0.0	0.000	0.000	0	0	0	347
----- Feeder NO. 5 Beginning with Node Element 411-12-7161																				
411-12-7161	16		ABC Node	7.20Y	125.0	0.00	0.00	80.50	0	1643	568	95	0.00	0.0	0.000	0.000	0	0	0	317

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total			
KW	4278	0	0	0	0	0	136		0.00	4413	Lowest Voltage = 117.24 on Element PROH98403		
KVAR	1406	0	0	-6	0	0	127			1527	Max Accn VoltD = 7.76 on Element PROH98403		
											Max Elem VoltD = 1.03 on Element PROH93841		

---

Substation Summary:					
Substation	KW	KW Losses	KVAR	KVAR Losses	KVA
16	4278.00	136.00	1406.00	127.00	4669.98
Total:	4278.00	136.00	1406.00	127.00	4669.98

---



TAYLORSVILLE SUBSTATION  
(WITH LITTLE MOUNT SUBSTATION  
APPLIED TO MODEL)

2008 LOAD LEVEL  
BEFORE CORRECTIONS

13,417 KW  
(PLUS 750 SPOT LOAD)

PROH90265
Overhead
A Phase
116.214 V
1.439 A
0.008 VD

SECOH43781
Overhead
A Phase
116.302 V
0.713 A
0.001 VD

SECOH40389
Overhead
A Phase
116.919 V
0.171 A
0.000 VD

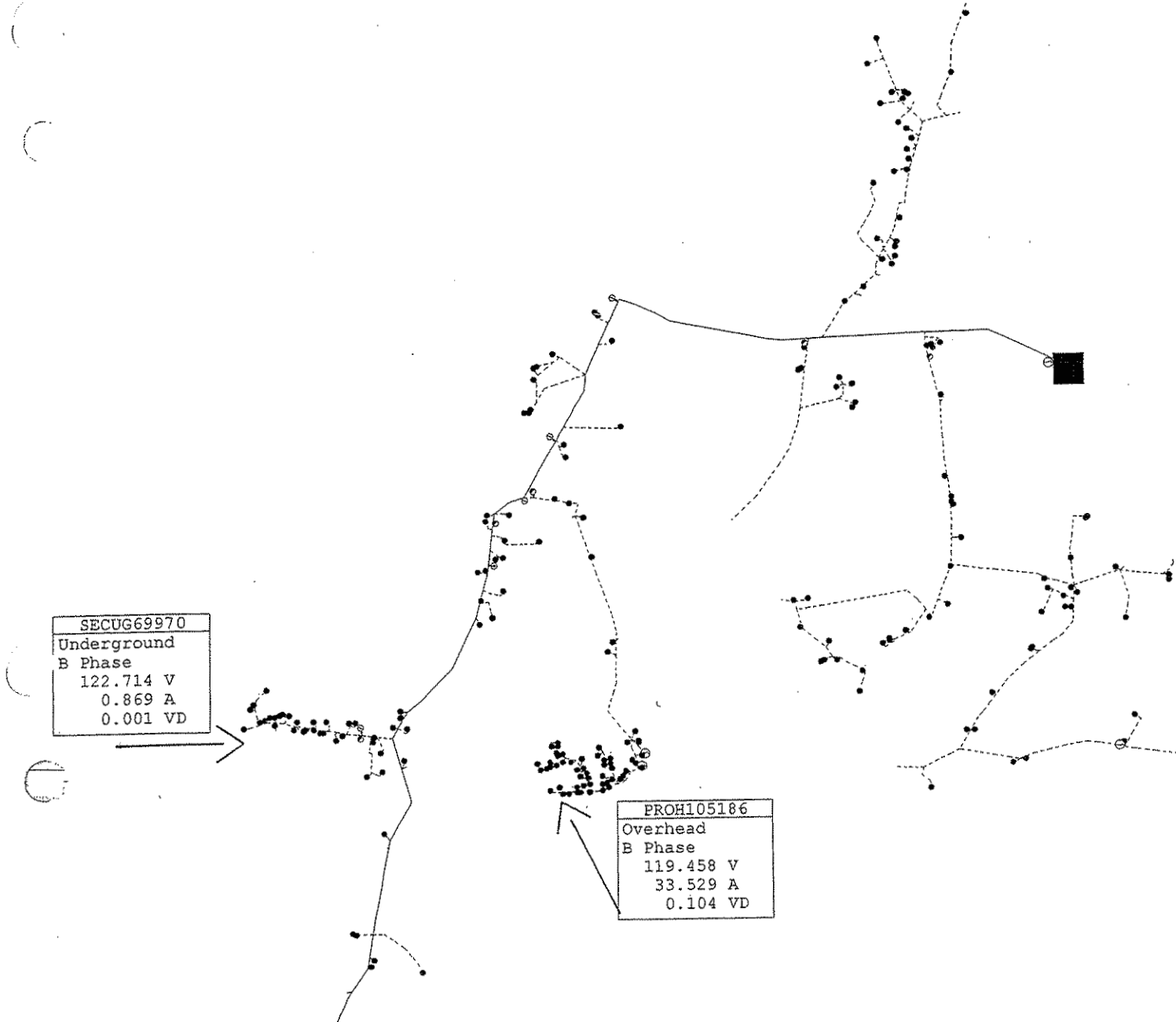
Taylorsville fdr 02  
Winter 2008 Load Level  
Before  
Corrections

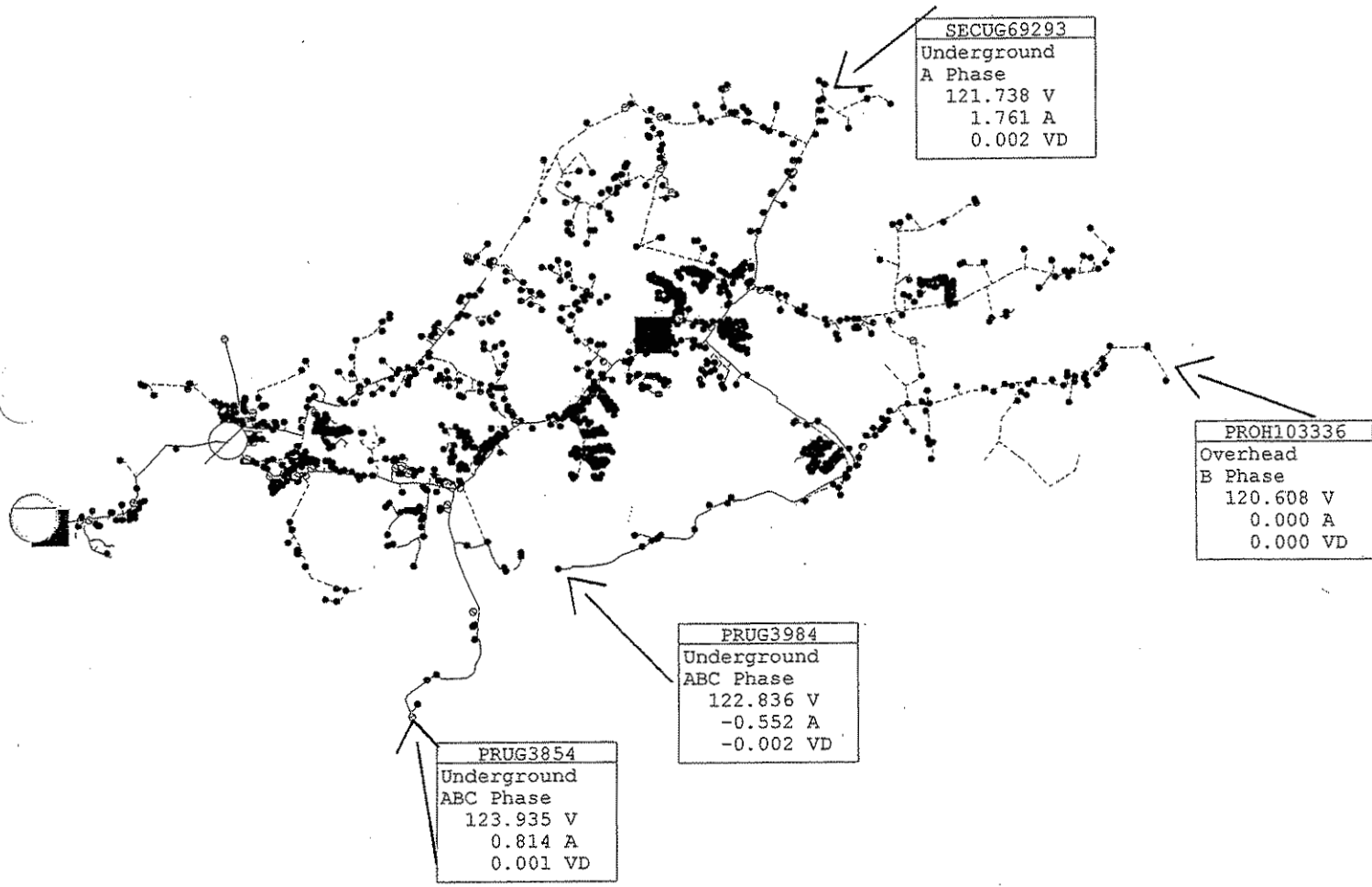
SECUG69970
Underground
B Phase
122.714 V
0.869 A
0.001 VD

PROH105186
Overhead
B Phase
119.458 V
33.529 A
0.104 VD

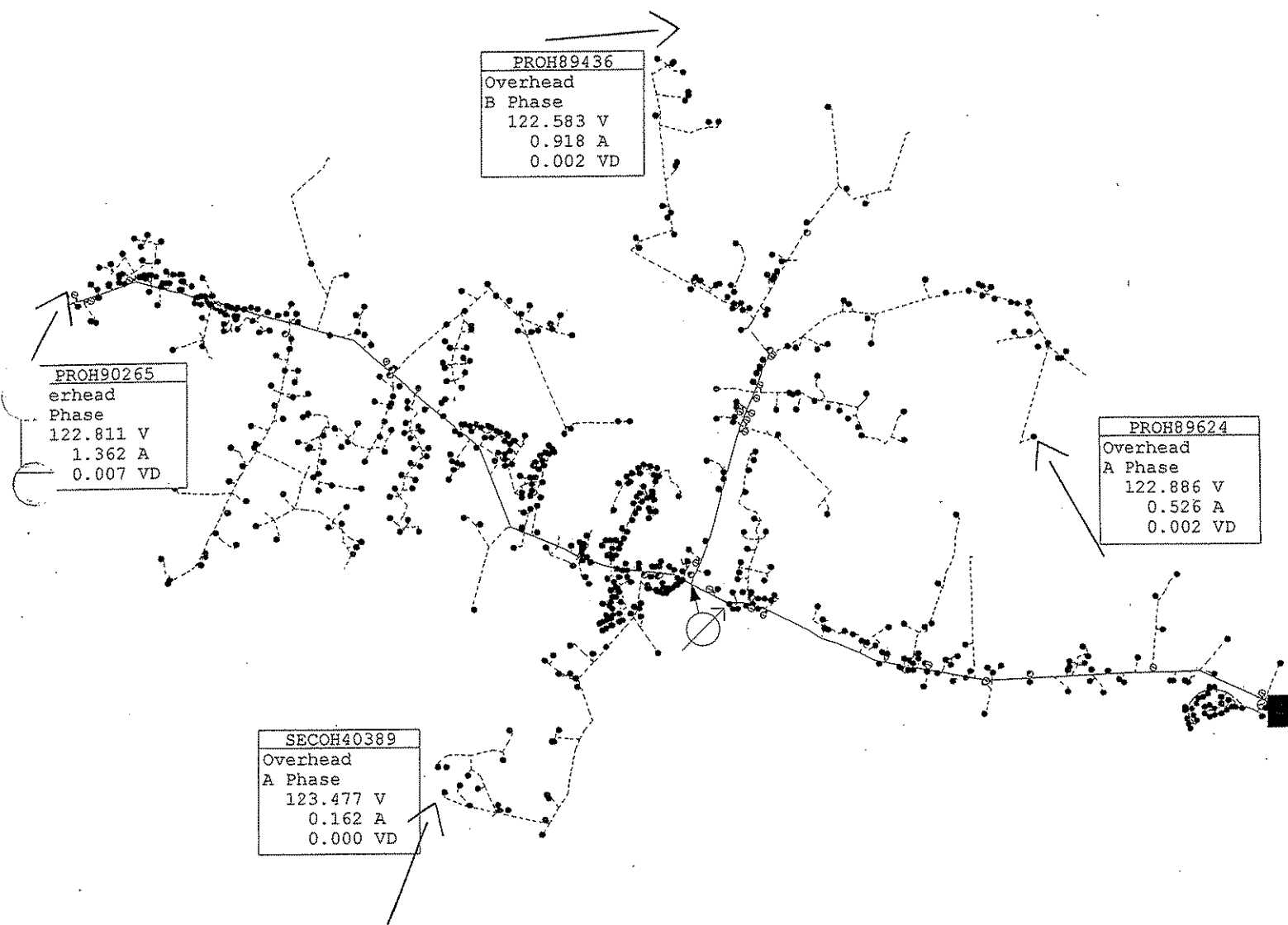
SECOH18413
Overhead
A Phase
123.082 V
0.715 A
0.000 VD

Taylorsville fdr 03  
Winter 2008 Load Level  
Before  
Corrections





Taylorville fdr 04  
 With Little Mt Substation  
 Winter 2008 Load Level  
 Before  
 Corrections



PROH89436  
 Overhead  
 B Phase  
 122.583 V  
 0.918 A  
 0.002 VD

PROH90265  
 Overhead  
 Phase  
 122.811 V  
 1.362 A  
 0.007 VD

PROH89624  
 Overhead  
 A Phase  
 122.886 V  
 0.526 A  
 0.002 VD

SECOH40389  
 Overhead  
 A Phase  
 123.477 V  
 0.162 A  
 0.000 VD

Taylorville fdr 02  
 Winter 2008 Load Level  
 After  
 Corrections

TAYLORSVILLE SUBSTATION  
(WITH LITTLE MOUNT SUBSTATION  
APPLIED TO MODEL)

2008 LOAD LEVEL  
AFTER CORRECTIONS

13,417 KW  
(PLUS 750 SPOT LOAD)

FDR 03 3 PHASE 300 AMP REGULATOR (\$26,600)

Balanced Voltage Drop Report  
Source: 17

Database: C:\NLSOFT\PROGRAMS\TAYLORSVILLE.WM\  
Title:  
Case:

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		Units Displayed In Volts															mi		Element	
		-Base Voltage:125.0-																		
Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	KW Loss	% Loss	From Src	Length (mi.)	KW	KVAR	Cons On	Cons Thru
17			ABC TAYLORSVIL	7.20Y	125.0	0.00	0.00	383.73	69	8051	1972	97	0.00	0.0	0.000	0.000	0	0	0	1322
----- Feeder NO. 3		Beginning with Node Element 077-12-2340																		
077-12-2340	17		ABC Node	7.20Y	125.0	0.00	0.00	158.66	0	3319	854	97	0.00	0.0	0.000	0.000	0	0	0	625
C 076-08-3181	PROH103471		ABC L-70 OCR	7.03Y	122.1	0.00	2.89	146.46	209	3003	729	97	0.00	0.0	1.546	0.000	0	0	0	572 C
----- Feeder NO. 4		Beginning with Node Element 077-12-2440																		
077-12-2440	17		ABC Node	7.20Y	125.0	0.00	0.00	182.35	0	3831	914	97	0.00	0.0	0.000	0.000	0	0	0	500
----- Feeder NO. 2		Beginning with Node Element 077-12-2240																		
077-12-2240	17		ABC Node	7.20Y	125.0	0.00	0.00	42.75	0	901	203	98	0.00	0.0	0.000	0.000	0	0	0	197

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

KW	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total			
7808	7808	0	0	0	0	0	243		0.00	8051	Lowest Voltage =	117.68	on Element SECOH23295
KVAR	1651	0	0	-35	0	0	356			1972	Max Accm VoltD =	7.32	on Element SECOH23295
											Max Elem VoltD =	1.01	on Element PROH90463

Balanced Voltage Drop Report  
Source: SRC8

Database: C:\MILSOFT\PROGRAMS\TAYLORSVILLE.WM  
Title:  
Case:

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Units Displayed In Volts																				
-Base Voltage:125.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	KW Loss	% Loss	mi From Src	Length (mi)	Element			
																	KW	KVAR	Cons On	Cons Thru
SRC8		ABC		7.20Y	125.0	0.00	0.00	213.29	0	4517	909	98	0.00	0.0	0.000	0.000	0	0	0	719
C 059-00-1451	PROH100459	A	L-50 OCR	7.11Y	123.4	0.00	1.65	56.70	113	394	82	98	0.00	0.0	1.225	0.000	0	0	0	84 C
C 059-00-4140	PROH100465	B	4R-50 OCR	7.10Y	123.3	0.00	1.75	51.04	102	354	78	98	0.00	0.0	1.270	0.000	0	0	0	79 C

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total			
KW	4452	0	0	0	0	0	65	0.00	4517	Lowest Voltage = 118.98 on Element SECON14694			
KVAR	942	0	0	-99	0	0	66		909	Max Accm VoltD = 6.02 on Element SECON14694			
										Max Elem VoltD = 0.66 on Element PROH103321			



Substation Summary:  
Substation

	KW	KW Losses	KVAR	KVAR Losses	KVA
SRCB	4452.00	65.00	942.00	66.00	4607.15
17	7808.00	243.00	1651.00	356.00	8288.55
Total:	12260.00	308.00	2593.00	422.00	12895.70

WEST BARDSTOWN SUBSTATION

2008 LOAD LEVEL  
BEFORE CORRECTIONS

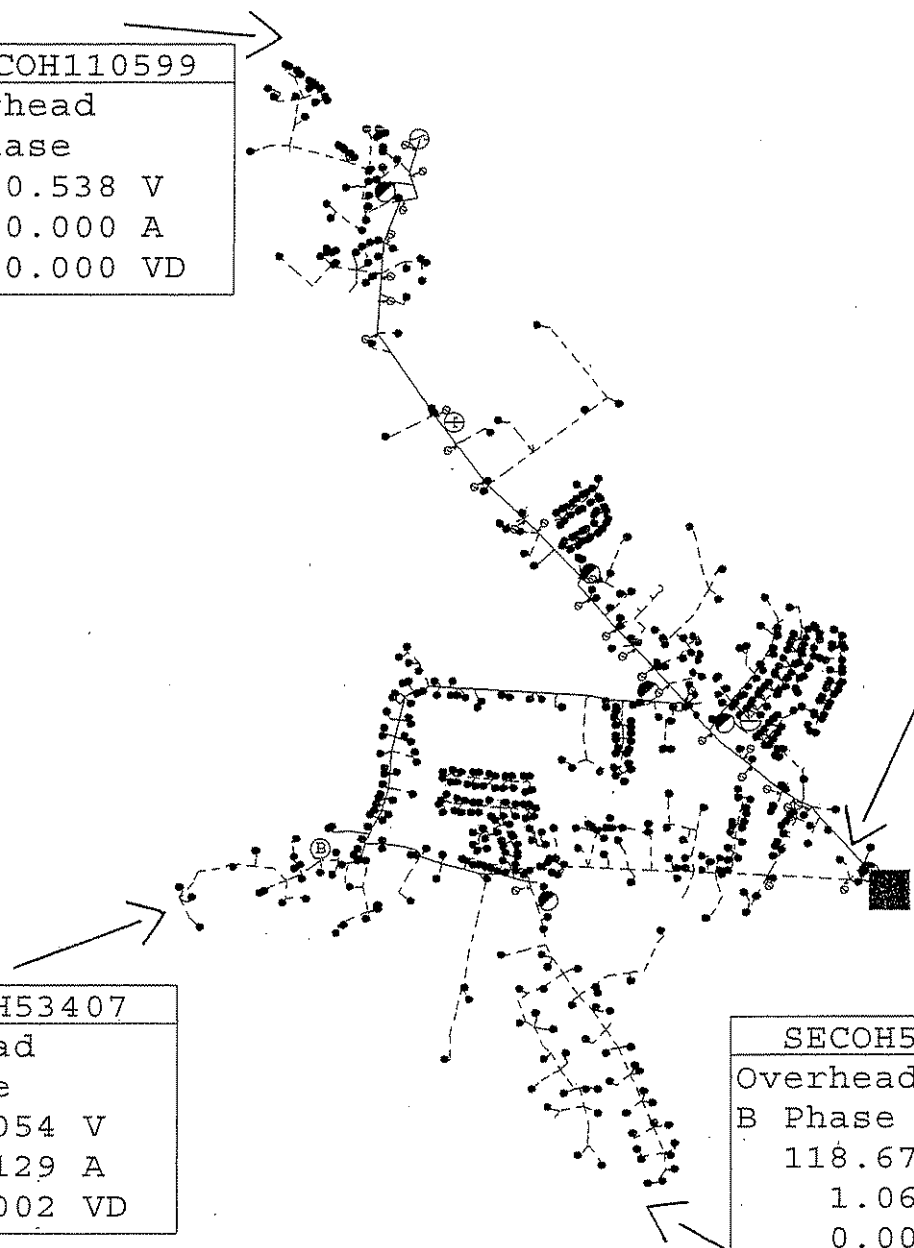
15,336 KW  
(PLUS 1500 SPOT LOAD)

SECOH110599
Overhead
B Phase
120.538 V
0.000 A
0.000 VD

PROH83396
Overhead
ABC Phase
124.028 V
249.989 A
0.487 VD

SECOH53407
Overhead
B Phase
120.054 V
1.129 A
0.002 VD

SECOH52878
Overhead
B Phase
118.678 V
1.066 A
0.000 VD

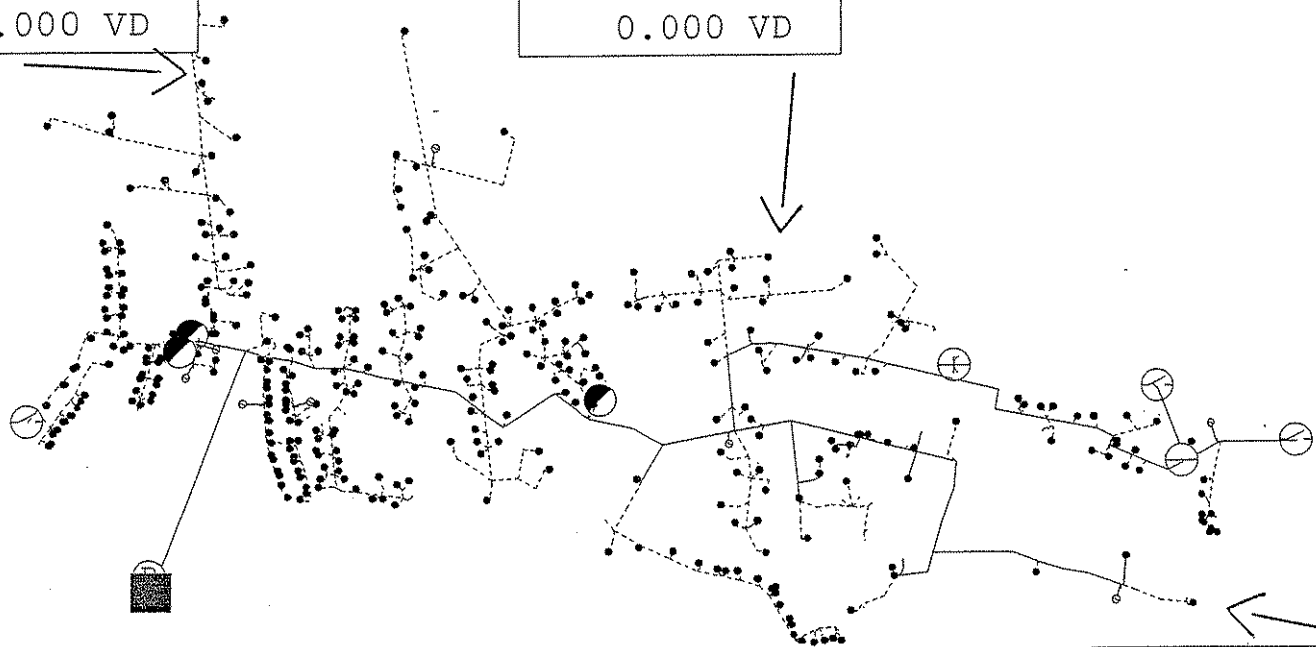


West Bardstown fdr 01  
 Winter 2008 Load Level  
 Before  
 Corrections

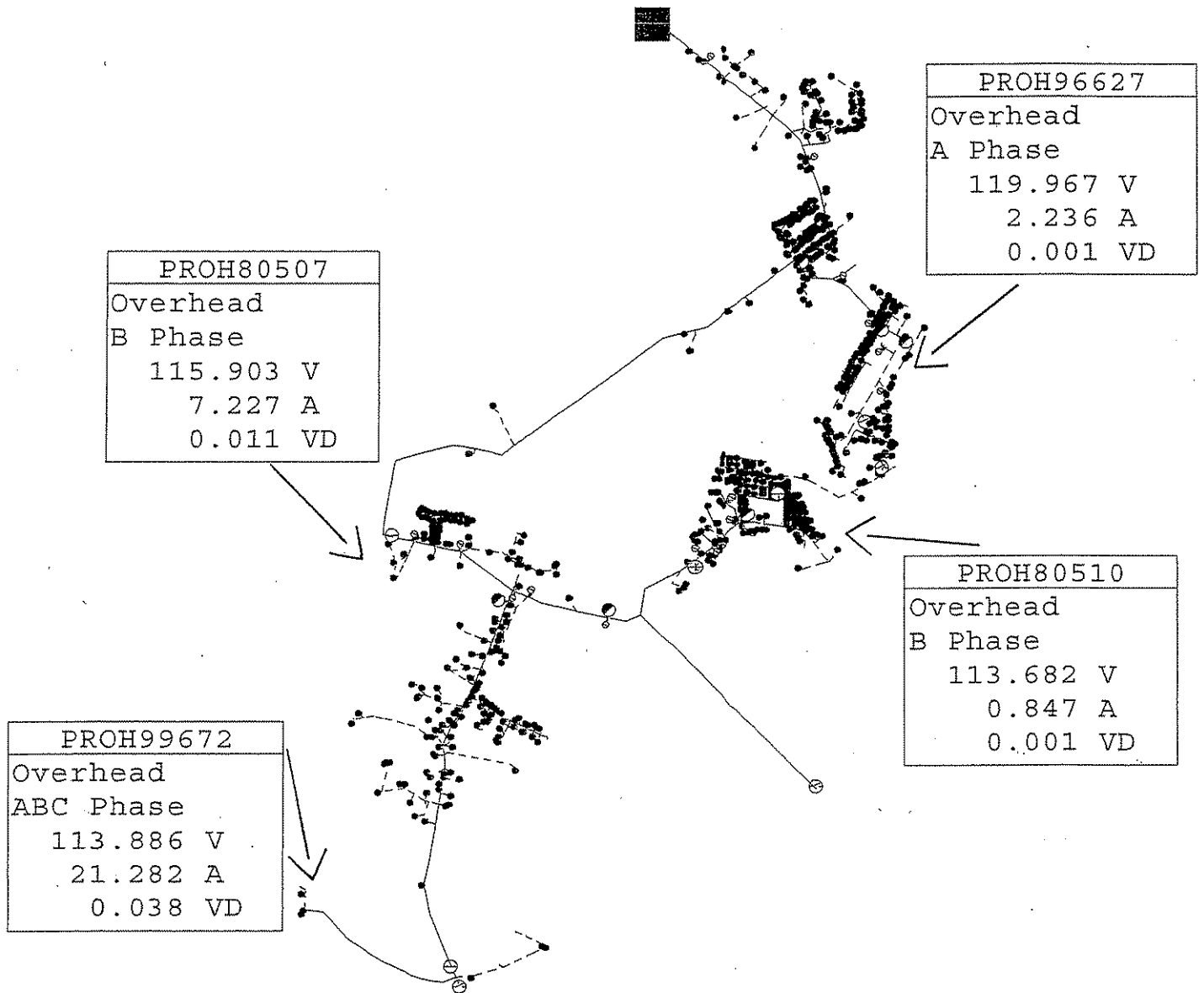
SECOH49474
Overhead
B Phase
123.695 V
0.560 A
0.000 VD

SECOH8671
Overhead
C Phase
121.936 V
0.394 A
0.000 VD

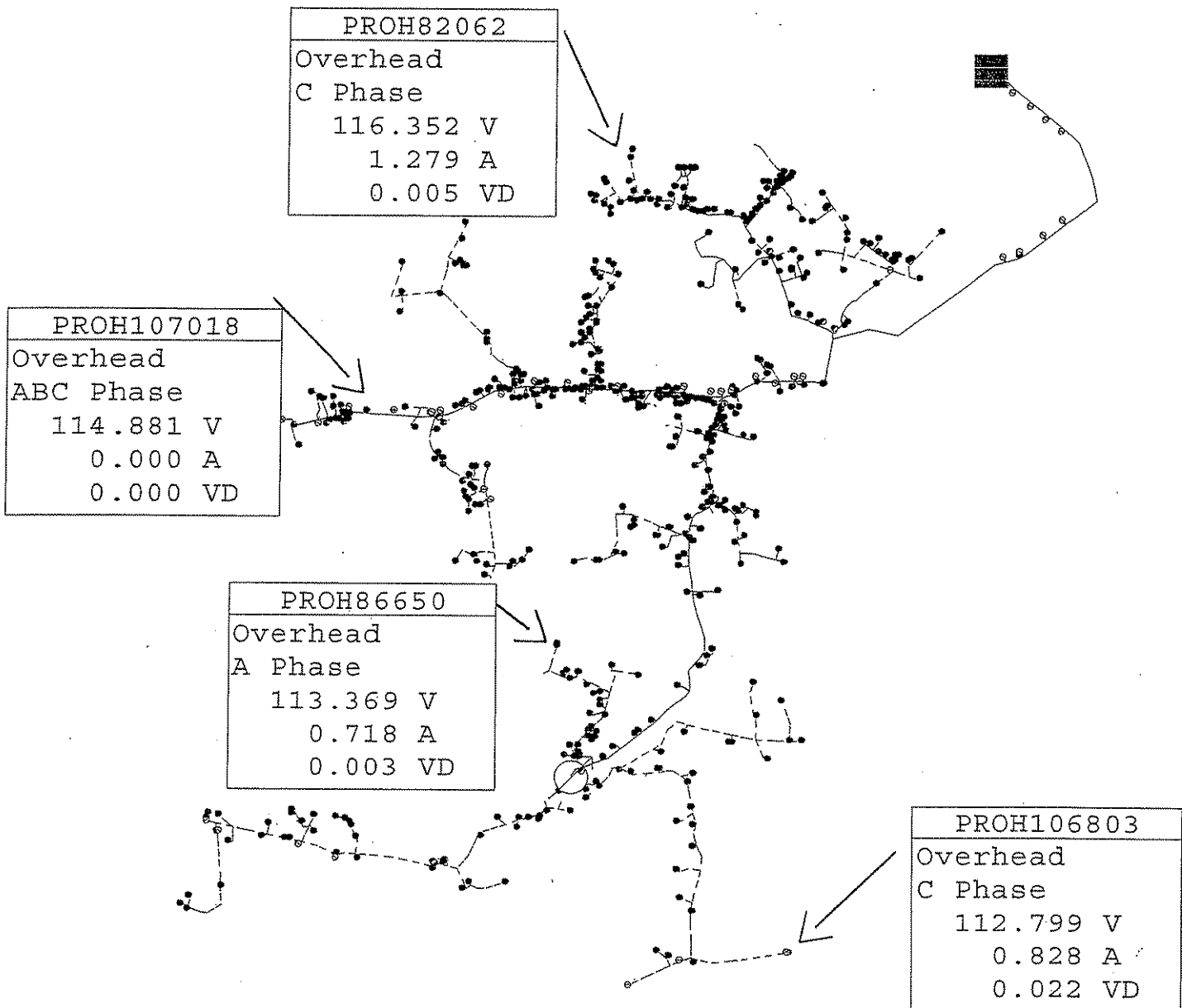
SECOH49473
Overhead
C Phase
121.723 V
0.284 A
0.000 VD



West Bardstown fdr 02  
 Winter 2008 Load Level  
 Before  
 Corrections



West Bardstown fdr 04  
 Winter 2008 Load Level  
 Before  
 Corrections

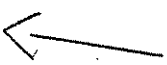


West Bardstown fdr 05  
 Winter 2008 Load Level  
 Before  
 Corrections

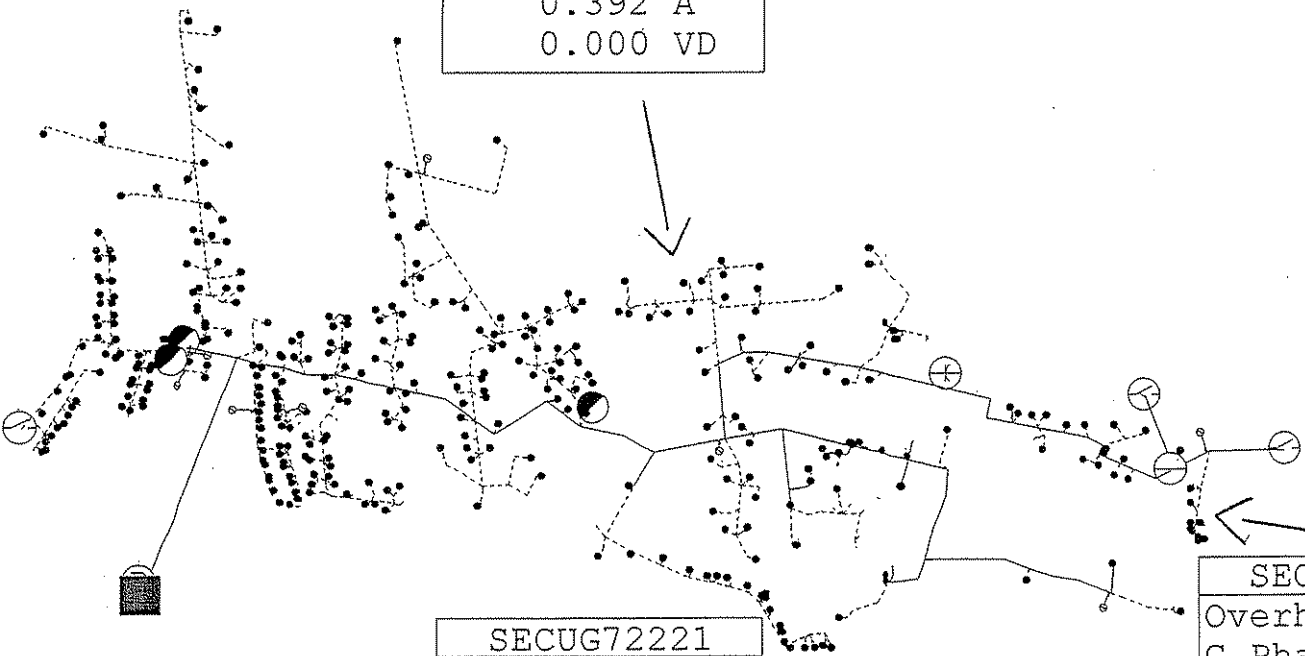
SECOH8671
Overhead
C Phase
122.563 V
0.392 A
0.000 VD



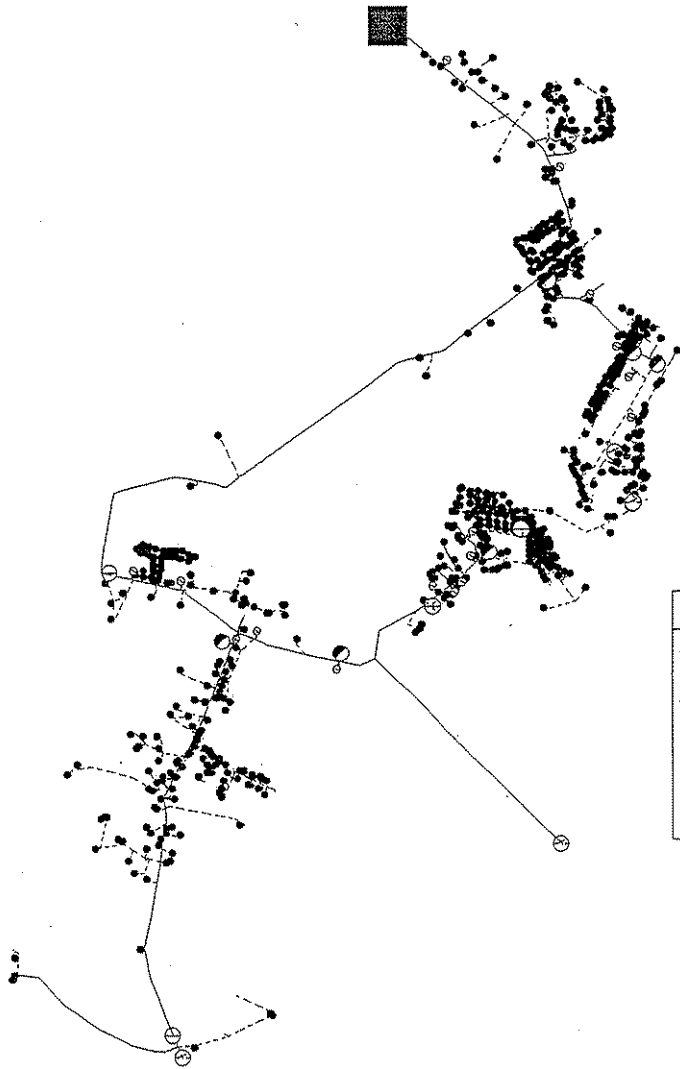
SECOH25699
Overhead
C Phase
122.565 V
0.000 A
0.000 VD



SECUG72221
Underground
B Phase
122.465 V
0.560 A
0.001 VD



West Bardstown fdr 02  
 Winter 2008 Load Level  
 After  
 Corrections



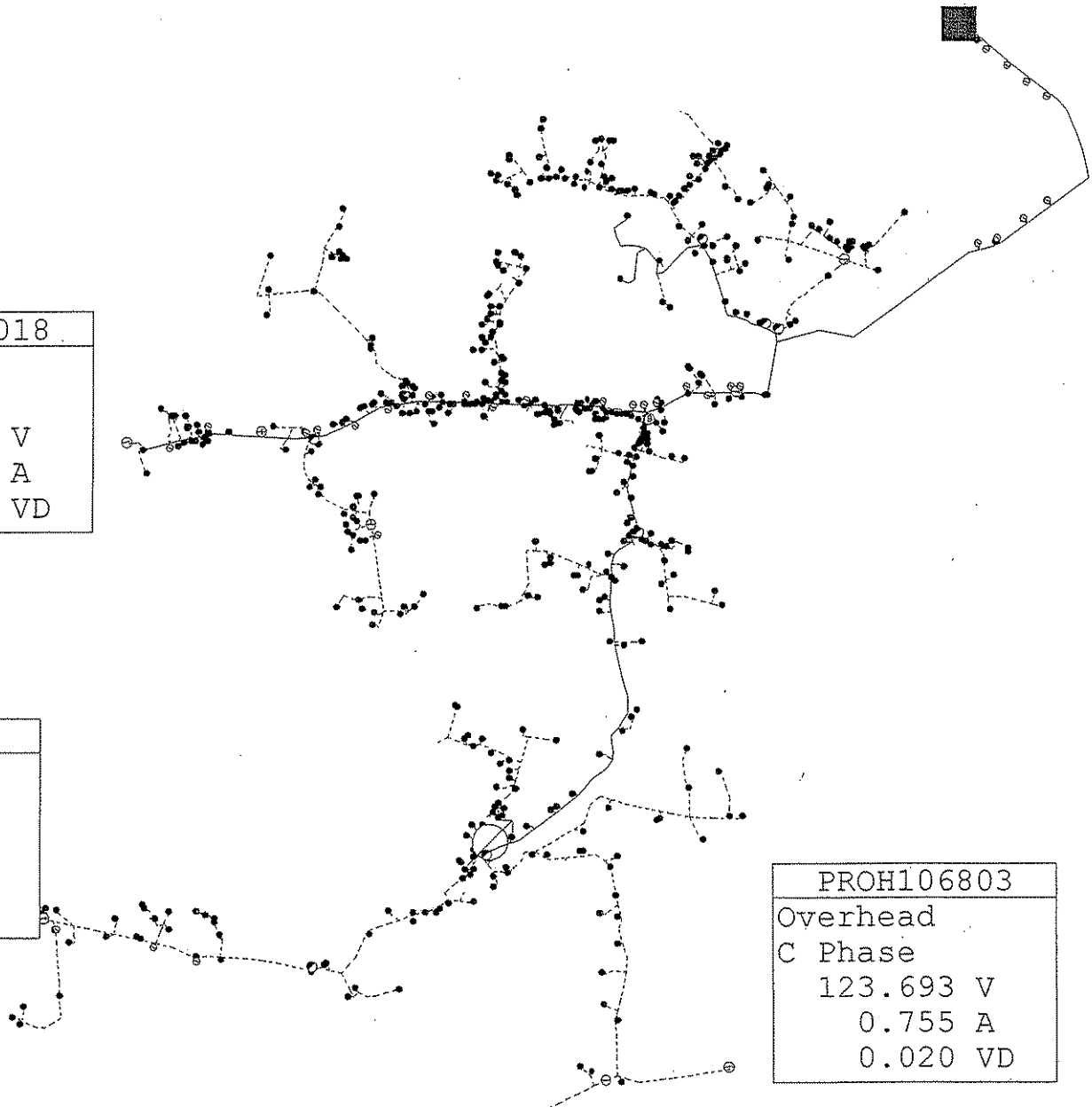
PROH99672
Overhead
ABC Phase
118.044 V
20.531 A
0.037 VD

PROH76199
Overhead
C Phase
122.027 V
0.810 A
0.000 VD

SECOH19246
Overhead
B Phase
117.848 V
0.373 A
0.000 VD

West Bardstown fdr 04  
 Winter 2008 Load Level  
 After  
 Corrections





PROH107018
Overhead
ABC Phase
118.330 V
0.000 A
0.000 VD

PROH76839
Overhead
B Phase
122.216 V
0.001 A
0.000 VD

PROH106803
Overhead
C Phase
123.693 V
0.755 A
0.020 VD

West Bardstown fdr 05  
 Winter 2008 Load Level  
 After  
 Corrections

SECUG63459
Underground
B Phase
120.574 V
1.849 A
0.002 VD

PROH93514
Overhead
B Phase
120.059 V
3.221 A
0.007 VD

PROH88205
Overhead
B Phase
118.678 V
3.725 A
0.007 VD



West Bardstown fdr 01  
 Winter 2008 Load Level  
 After  
 Corrections

# WEST BARDSTOWN SUBSTATION

## 2008 LOAD LEVEL AFTER CORRECTIONS

15,336 KW  
(PLUS 1500 SPOT LOAD)

FDR 01 1.46 MILE 1/0 CU TO 336.4 ACSR (\$106,580)

FDR 02 1.18 MLE 1/0 CU TO 336.4 ACSR (\$86,140)

FDR 04 & 05 4.12 MILE D.C. 1/0 CU TO D.C. 397  
SPACER CABLE (\$535,600)

FDR 05 3 PHASE 150 AMP REGULATOR (\$23,600)

Balanced Voltage Drop Report  
Source: 18

Database: C:\MILSOFT\PROGRAMS\ALLSUBS.WM\  
Title:  
Case:

03/02/2005 15:30 Page 1

		Units Displayed In Volts															-----Element-----			
		-Base Voltage:125.0-																		
Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	% KVAR	PF	Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
C 18			ABC WEST BARDS	7.20Y	125.0	0.00	0.00	808.28	144	16601	5404	95	0.00	0.0	0.000	0.000	0	0	0	2144 C
-----	Feeder NO.	1	Beginning with Node			Element 237-23-5254	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
237-23-5254	18		ABC Node	7.20Y	125.0	0.00	0.00	268.25	0	5514	1778	95	0.00	0.0	0.000	0.000	0	0	0	591
-----	Feeder NO.	4	Beginning with Node			Element 237-23-5460	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
237-23-5460	18		ABC Node	7.20Y	125.0	0.00	0.00	212.83	0	4362	1451	95	0.00	0.0	0.000	0.000	0	0	0	662
-----	Feeder NO.	2	Beginning with Node			Element 237-23-5361	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
237-23-5361	18		ABC Node	7.20Y	125.0	0.00	0.00	199.20	0	4110	1273	96	0.00	0.0	0.000	0.000	0	0	0	408
C SECON42781	PROH91411		A 2 TPX	6.98Y	121.2	0.03	3.76	106.06	100	711	207	96	0.15	0.0	2.324	0.008	0	0	0	1 C
-----	Feeder NO.	5	Beginning with Node			Element 237-23-5353	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
237-23-5353	18		ABC Node	7.20Y	125.0	0.00	0.00	128.05	0	2615	902	95	0.00	0.0	0.000	0.000	0	0	0	483

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total		
KW	4049	0	0	0	0	12491	62	0.00	16601	Lowest Voltage = 121.05	on Element SECON25635	
KVAR	1176	0	0	-6	0	4132	103		5404	Max Accm VoltD = 3.95	on Element SECON25635	
										Max Elem VoltD = 0.91	on Element PROH109968	

Substation Summary:

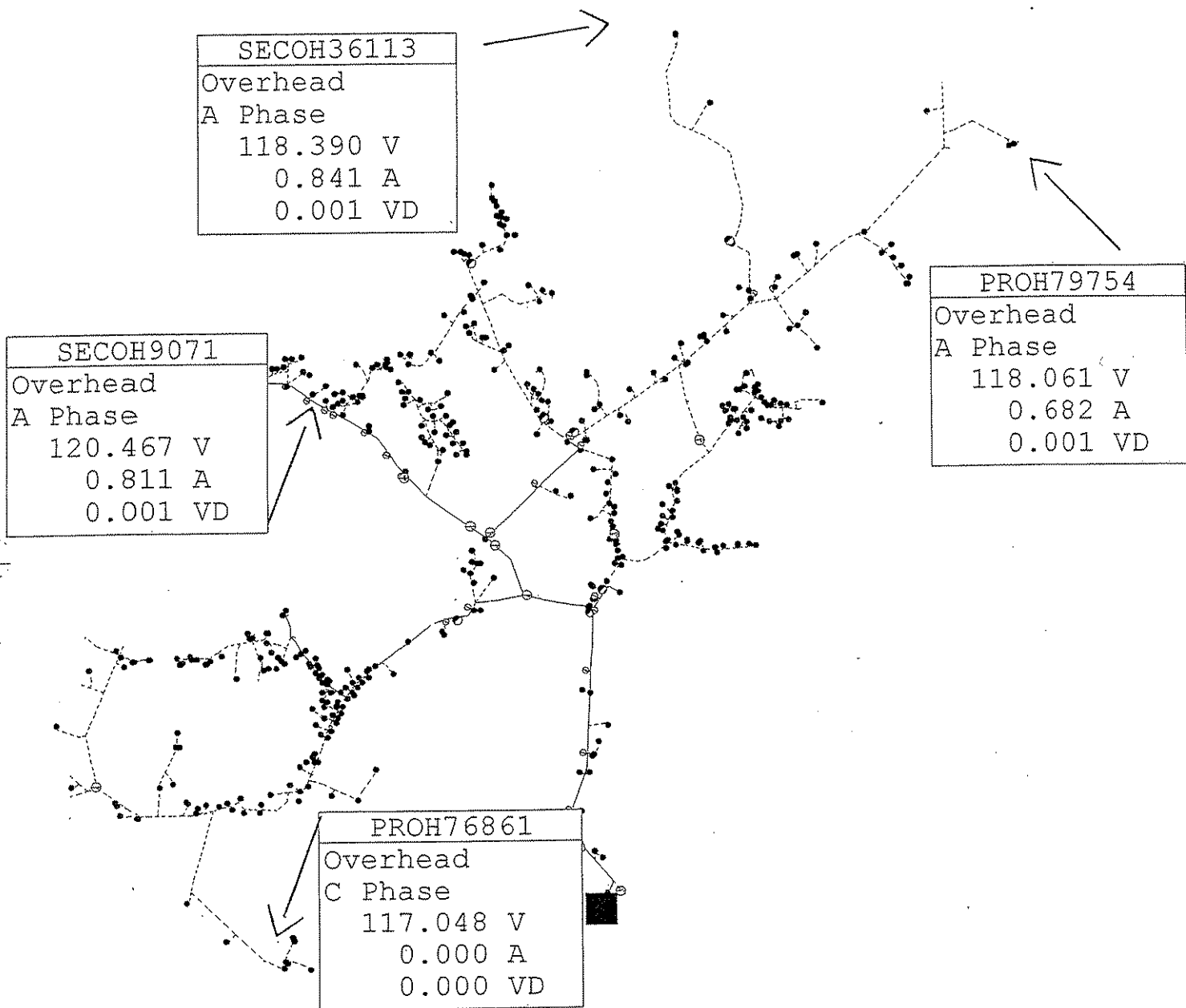
Substation	KW	KW Losses	KVAR	KVAR Losses	KVA
18	4049.00	62.00	1176.00	103.00	17458.89
Total:	4049.00	62.00	1176.00	103.00	17458.89

WOOSLEY SUBSTATION

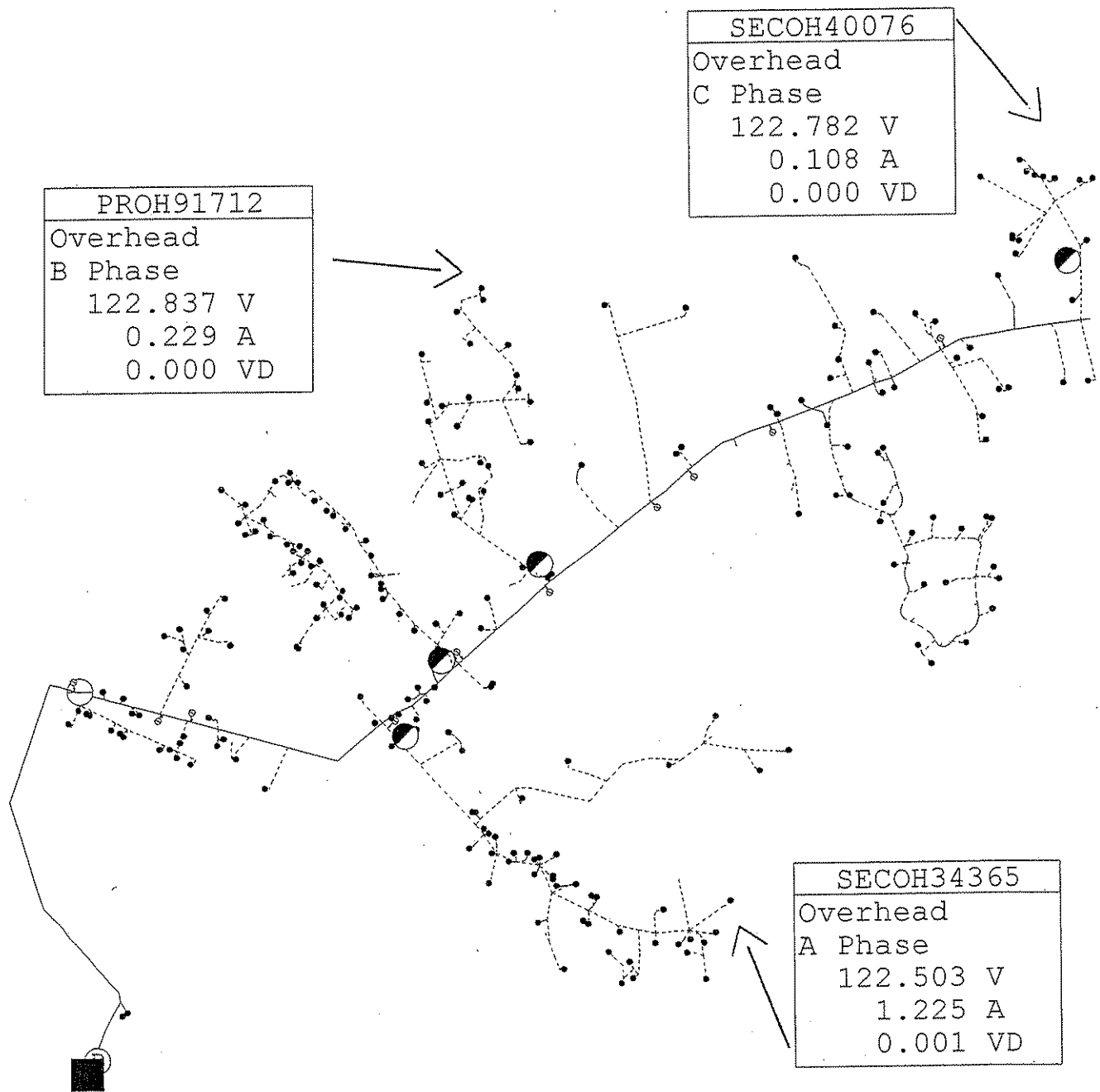
2008 LOAD LEVEL  
BEFORE CORRECTIONS

3,932 KW

(PLUS 750 SPOT LOAD)

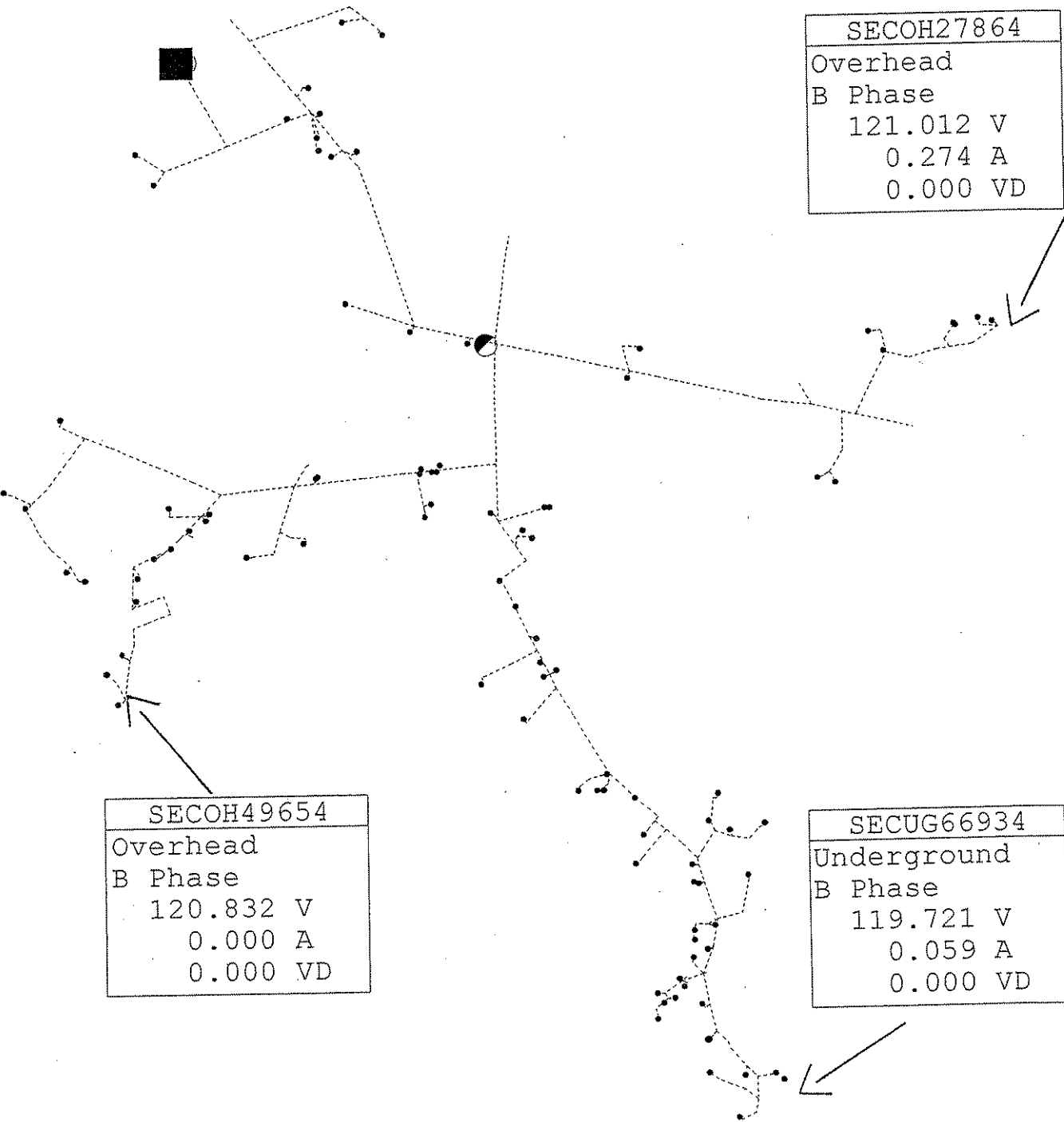


Woosley fdr 03  
 Winter 2008 Load Level  
 Before  
 Corrections



Wosley fdr 04  
 Winter 2008 Load Level  
 Before  
 Corrections





SECOH27864
Overhead
B Phase
121.012 V
0.274 A
0.000 VD

SECOH49654
Overhead
B Phase
120.832 V
0.000 A
0.000 VD

SECUG66934
Underground
B Phase
119.721 V
0.059 A
0.000 VD

Woodsley fdr 05  
 Winter 2008 Load Level  
 Before  
 Corrections

Balanced Voltage Drop Report  
Source: 19

Database: C:\MILSOFT\PROGRAMS\ALLSUBS.WM\  
Title:  
Case:

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Element Name	Parent Name	Cnf	Type/ Conductor	Pri	Base Volt	Element Drop	Units Displayed In Volts				KVAR	PF	kW	% Loss	mi From Src	Length (mi)	Element		Cons On	Cons Thru
							Accum Drop	Thru Amps	% Cap	Thru kW							KW	KVAR		
19			ABC WOOSLEY	7.20Y	125.0	0.00	0.00	226.62	40	4658	1505	95	0.00	0.0	0.000	0.000	0	0	0	659
-----	Feeder NO.	5	Beginning with Node			Element 314-01-0253	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
314-01-0253	19		ABC Node	7.20Y	125.0	0.00	0.00	22.09	0	455	144	95	0.00	0.0	0.000	0.000	0	0	0	87
-----	Feeder NO.	2	Beginning with Node			Element 314-01-0054	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
314-01-0054	19		ABC Node	7.20Y	125.0	0.00	0.00	14.56	0	301	91	96	0.00	0.0	0.000	0.000	0	0	0	4
-----	Feeder NO.	3	Beginning with Node			Element 314-01-0160	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
314-01-0160	19		ABC Node	7.20Y	125.0	0.00	0.00	97.88	0	2007	663	95	0.00	0.0	0.000	0.000	0	0	0	361
-----	Feeder NO.	4	Beginning with Node			Element 314-01-0260	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
314-01-0260	19		ABC Node	7.20Y	125.0	0.00	0.00	92.10	0	1895	607	95	0.00	0.0	0.000	0.000	0	0	0	207

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total		
KW	4554	0	0	0	0	0	103		0.00	4658	Lowest Voltage =	117.03 on Element SECUG66411
KVAR	1396	0	0	-10	0	0	119			1505	Max Accm VoltD =	7.97 on Element SECUG66411
											Max Elem VoltD =	1.17 on Element PRQH93417

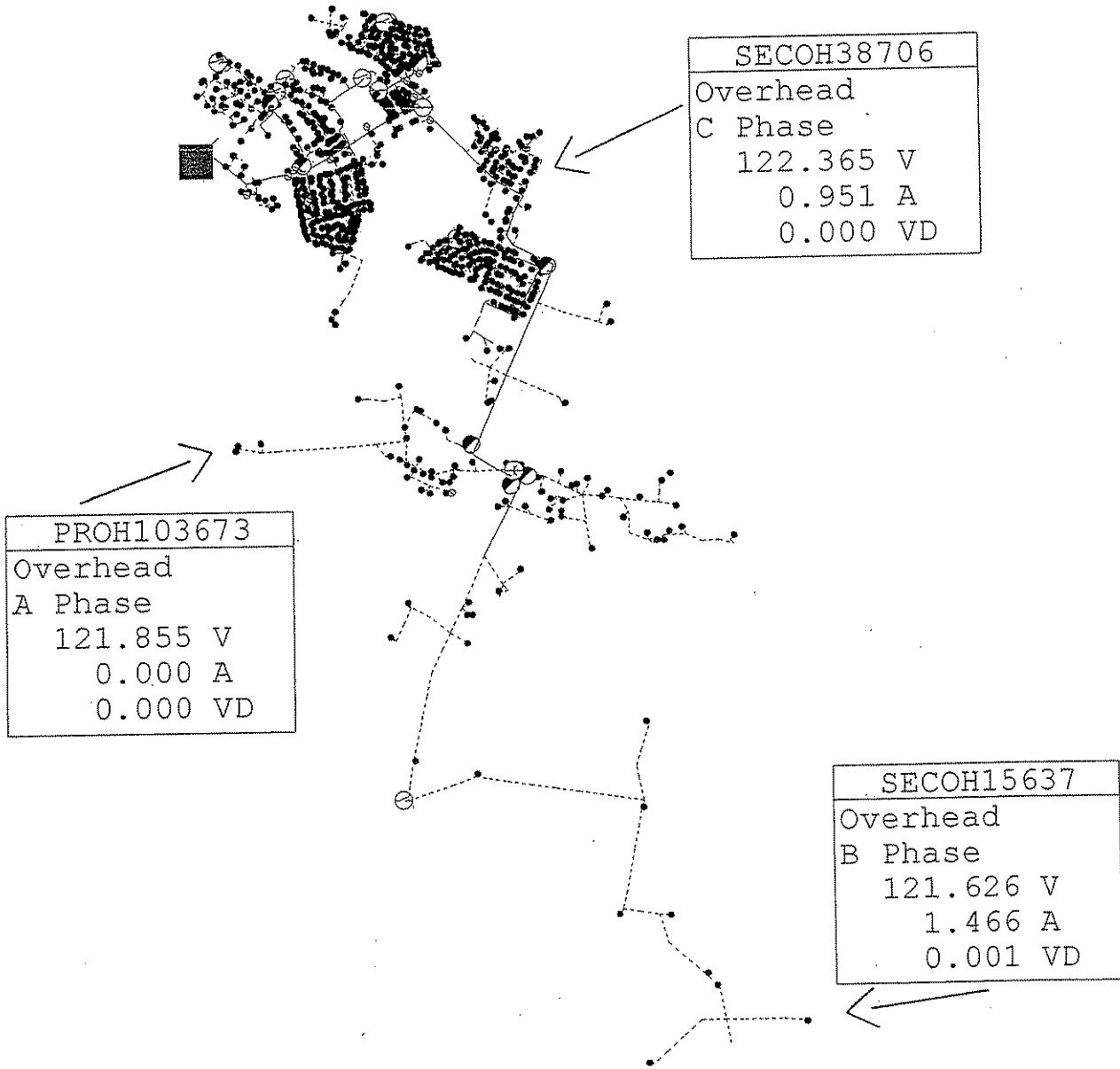
Substation Summary:

Substation	KW	KW Losses	KVAR	KVAR Losses	KVA
19	4554.00	103.00	1396.00	119.00	4894.98
Total:	4554.00	103.00	1396.00	119.00	4894.98

WEST MT WASHINGTON SUBSTATION

2008 LOAD LEVEL  
BEFORE CORRECTIONS

14,284 KW

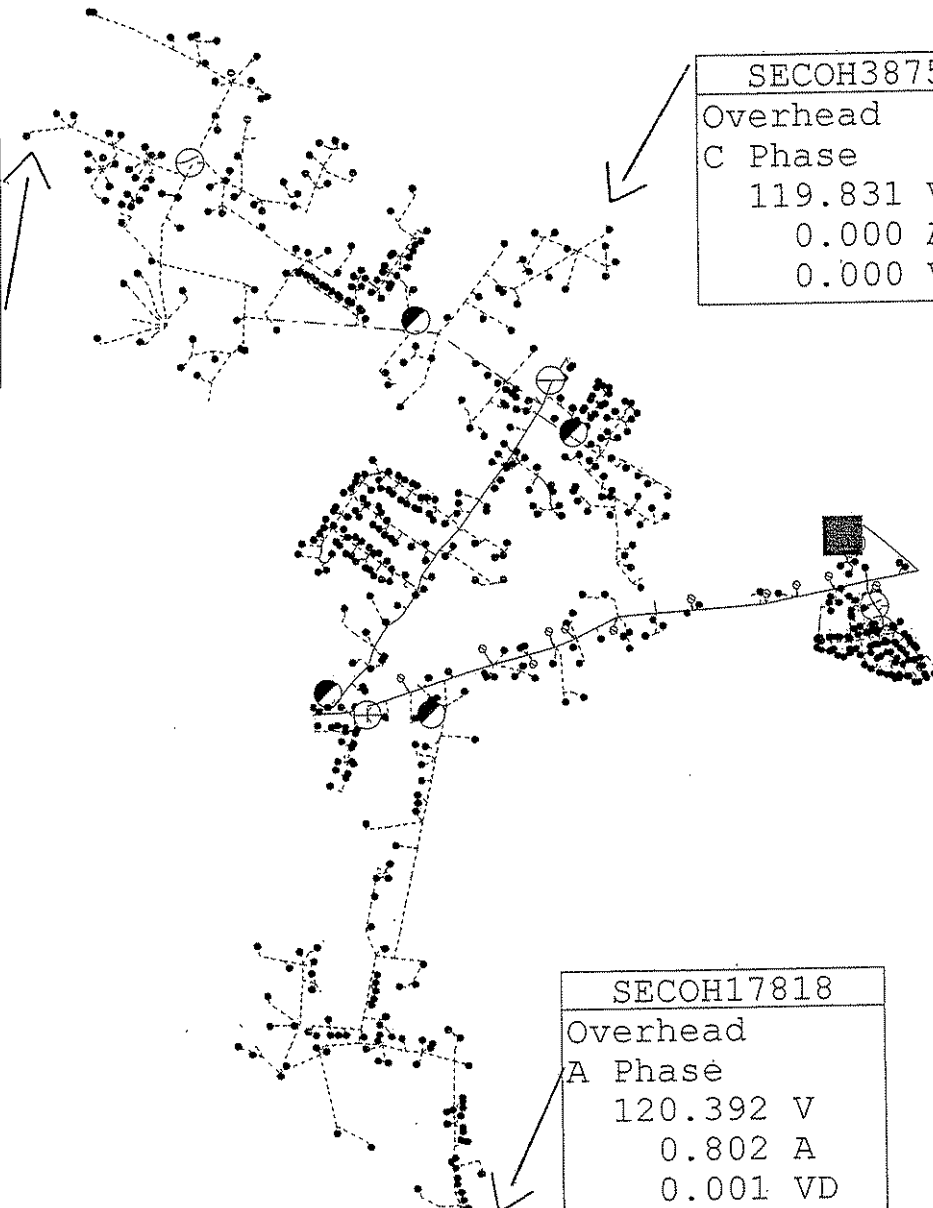


West Mt Washington fdr 01  
 Winter 2008 Load Level  
 Before  
 Corrections

SECOH51161
Overhead
A Phase
118.611 V
0.692 A
0.000 VD

SECOH38757
Overhead
C Phase
119.831 V
0.000 A
0.000 VD

SECOH17818
Overhead
A Phase
120.392 V
0.802 A
0.001 VD



West Mt Washington fdr 02  
 Winter 2008 Load Level  
 Before  
 Corrections

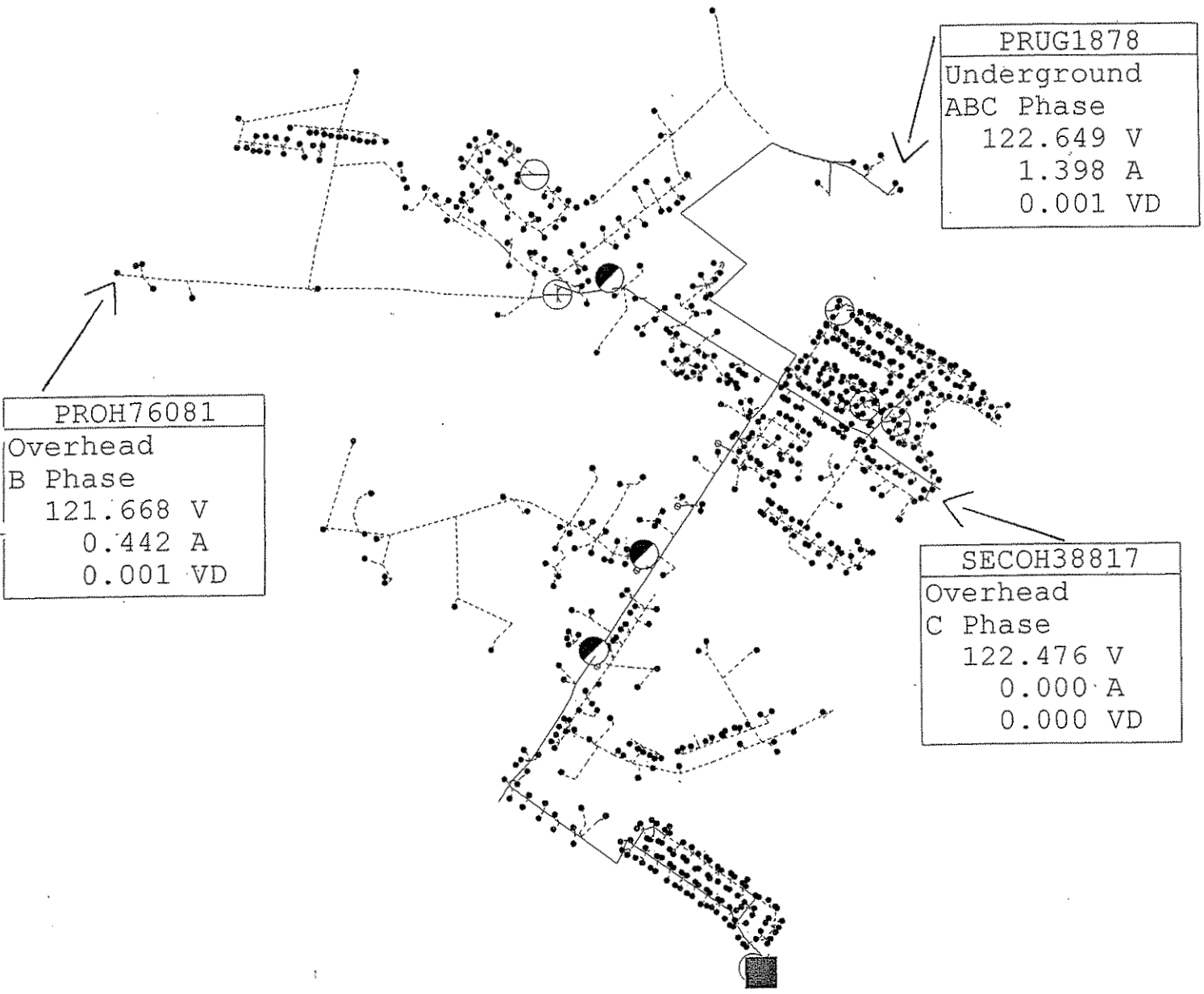
PRUG2191
Underground
A Phase
124.020 V
0.163 A
0.001 VD

SECUG73643
Underground
C Phase
123.781 V
0.995 A
0.005 VD

SECOH16113
Overhead
C Phase
122.891 V
0.441 A
0.000 VD



West Mt Washington fdr 03  
 Winter 2008 Load Level  
 Before  
 Corrections



West Mt Washington fdr 04  
 Winter 2008 Load Level  
 Before  
 Corrections



Balanced Voltage Drop Report  
Source: 20

Database: C:\MILSOFT\PROGRAMS\ALLSUBS.WM  
Title:  
Case:

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Units Displayed In Volts																				
--Base Voltage:125.0--																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	Loss	% Loss	mi From Src	Length (mi)	Element		Cons On	Cons Thru
C 20			ABC W MT WASHI	7.20Y	125.0	0.00	0.00	695.37	124	14273	4677	95	0.00	0.0	0.000	0.000	0	0	0	2759 C
----- Feeder NO. 1 Beginning with Node Element 072-02-3160 -----																				
072-02-3160	20		ABC Node	7.20Y	125.0	0.00	0.00	235.06	0	4822	1589	95	0.00	0.0	0.000	0.000	0	0	0	824
C 072-03-4050	PROH102623		ABC L-70 OCR	7.12Y	123.6	0.00	1.45	210.28	300	4274	1373	95	0.00	0.0	0.498	0.000	0	0	0	809 C
----- Feeder NO. 2 Beginning with Node Element 072-02-3153 -----																				
072-02-3153	20		ABC Node	7.20Y	125.0	0.00	0.00	156.22	0	3201	1068	95	0.00	0.0	0.000	0.000	0	0	0	639
----- Feeder NO. 3 Beginning with Node Element 072-02-2453 -----																				
072-02-2453	20		ABC Node	7.20Y	125.0	0.00	0.00	141.88	0	2929	900	96	0.00	0.0	0.000	0.000	0	0	0	624
----- Feeder NO. 4 Beginning with Node Element 072-02-3054 -----																				
072-02-3054	20		ABC Node	7.20Y	125.0	0.00	0.00	162.24	0	3321	1120	95	0.00	0.0	0.000	0.000	0	0	0	672
C 051-13-2074	PROH102458		ABC L-100 OCR	7.11Y	123.5	0.00	1.54	134.11	134	2721	883	95	0.00	0.0	1.329	0.000	0	0	0	555 C

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total			
KW	14067	0	0	0	0	0	206		0.00	14273	Lowest Voltage =	118.57	on Element SECOH5937
KVAR	4484	0	0	-94	0	0	286			4677	Max Accm VoltD =	6.43	on Element SECOH5937
											Max Elem VoltD =	0.66	on Element PROH100805

Substation Summary:  
Substation

	KW	KW Losses	KVAR	KVAR Losses	KVA
20	14067.00	206.00	4484.00	286.00	15019.94
Total:	14067.00	206.00	4484.00	286.00	15019.94

BEULAH BEAM SUBSTATION

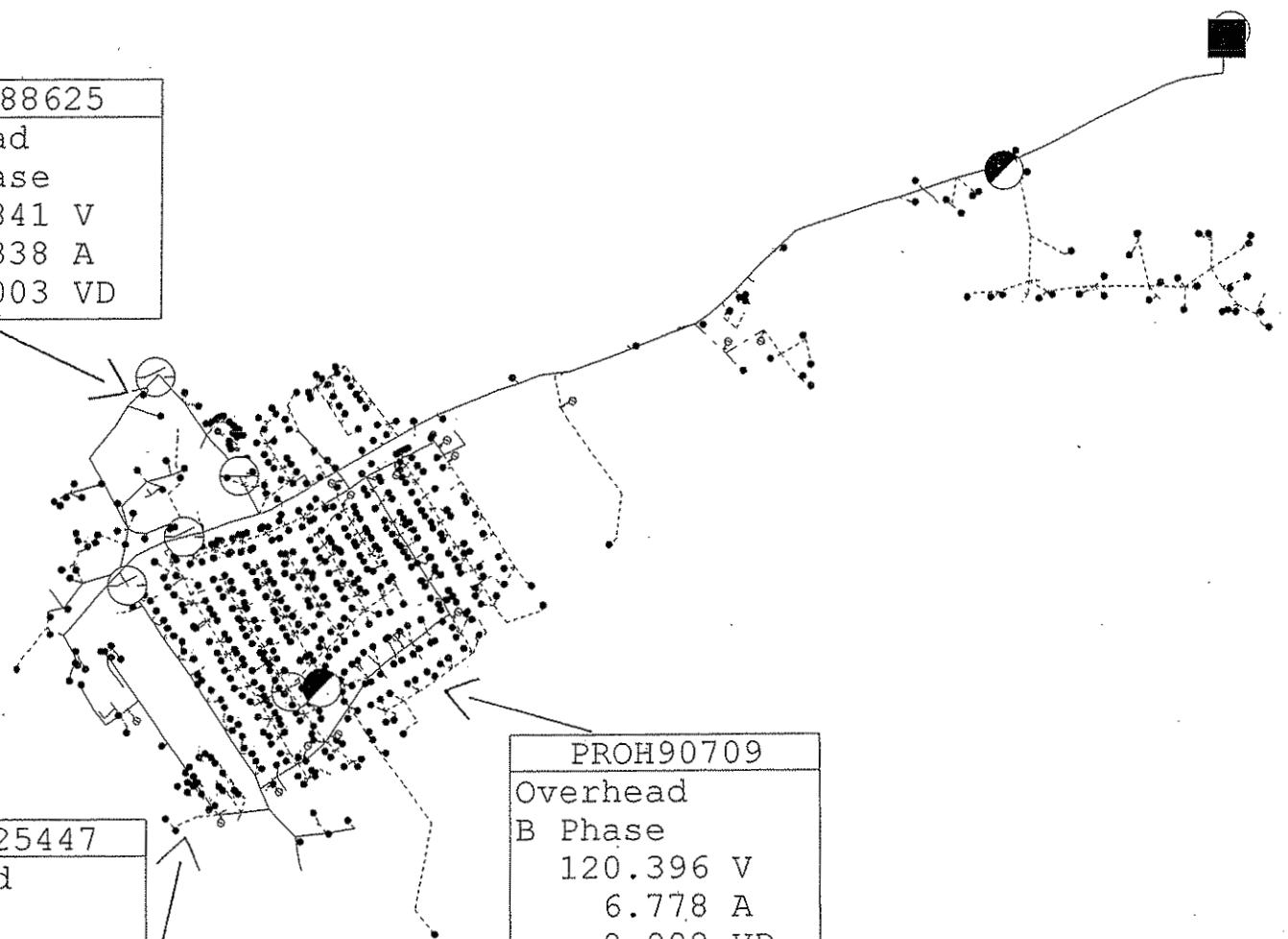
2008 LOAD LEVEL  
BEFORE CORRECTIONS

11,433 KW

PROH88625
Overhead
ABC Phase
120.841 V
3.338 A
0.003 VD

SECOH25447
Overhead
B Phase
119.752 V
0.410 A
0.000 VD

PROH90709
Overhead
B Phase
120.396 V
6.778 A
0.008 VD



Beulah Beam fdr 02  
 Winter 2008 Load Level  
 Before  
 Corrections

SECOH6823
Overhead
A Phase
123.846 V
0.231 A
0.000 VD

SECUG69671
Underground
C Phase
123.309 V
0.268 A
0.000 VD

SECUG59316
Underground
C Phase
124.217 V
0.373 A
0.000 VD

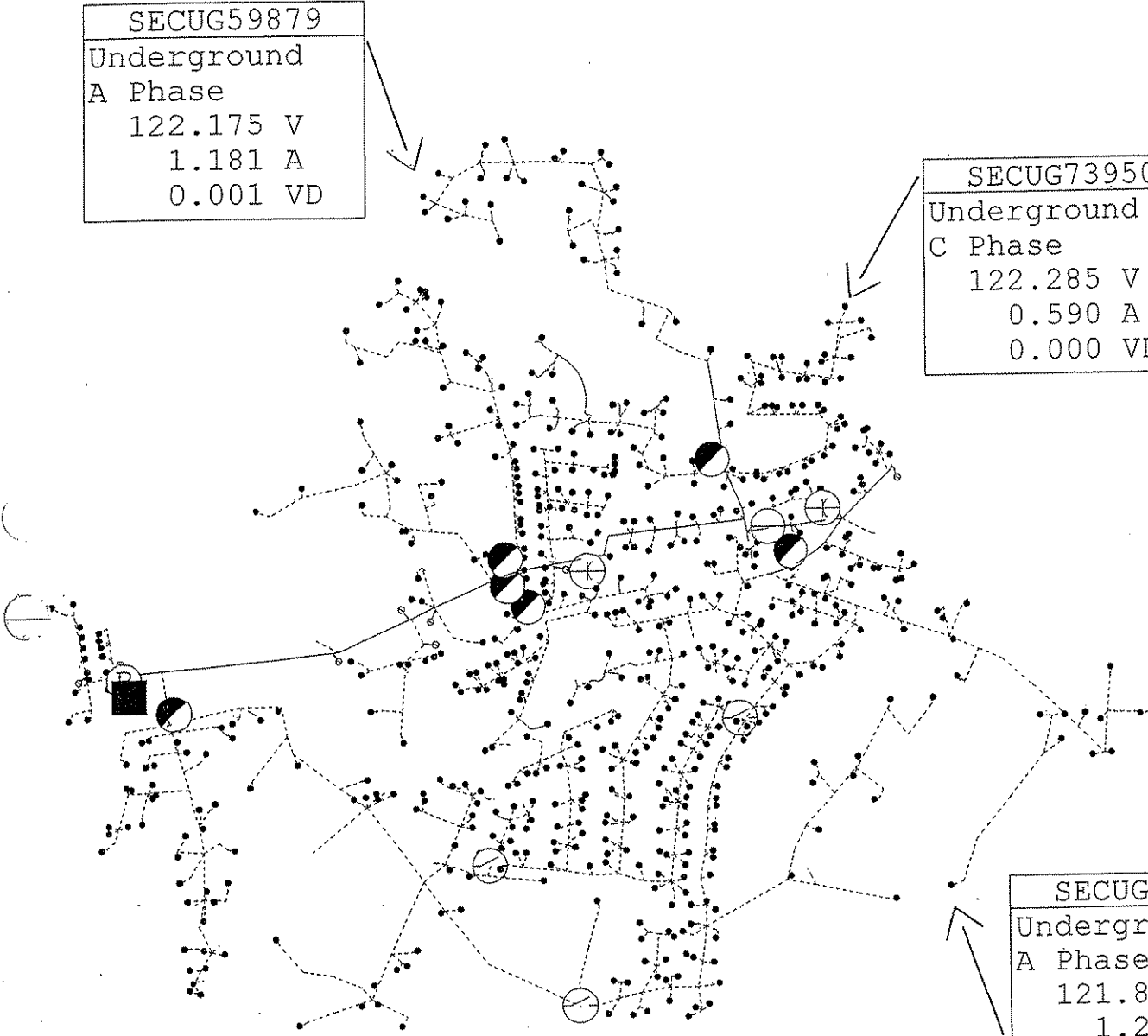
Beulah Beam fdr 03  
 Winter 2008 Load Level  
 Before  
 Corrections



SECUG59879
Underground
A Phase
122.175 V
1.181 A
0.001 VD

SECUG73950
Underground
C Phase
122.285 V
0.590 A
0.000 VD

SECUG68386
Underground
A Phase
121.818 V
1.207 A
0.001 VD



Beulah Beam fdr 04  
Winter 2008 Load Level  
Before  
Corrections

Substation Summary:

Substation	KW	KW Losses	KVAR	KVAR Losses	KVA
21	11214.00	199.00	3341.00	401.00	12002.08
Total:	11214.00	199.00	3341.00	401.00	12002.08

Balanced Voltage Drop Report  
Source: 21

Database: C:\MILSOFT\PROGRAMS\ALLSUBS.WM\  
Title:  
Case:

Units Displayed In Volts																				
-Base Voltage:125.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	KW Loss	% Loss	mi From Src	Length (mi)	Element		Cons On	Cons Thru
21		ABC	BEULAHBEAM	7.20Y	125.0	0.00	0.00	555.65	99	11413	3715	95	0.00	0.0	0.000	0.000	0	0	0	1949
-----	Feeder NO.	3	Beginning with Node			Element 092-06-6351	-----													
092-06-6351	21	ABC	Node	7.20Y	125.0	0.00	0.00	121.81	0	2518	763	96	0.00	0.0	0.000	0.000	0	0	0	533
-----	Feeder NO.	2	Beginning with Node			Element 092-06-6250	-----													
092-06-6250	21	ABC	Node	7.20Y	125.0	0.00	0.00	273.05	0	5577	1919	95	0.00	0.0	0.000	0.000	0	0	0	787
-----	Feeder NO.	4	Beginning with Node			Element 092-06-6344	-----													
092-06-6344	21	ABC	Node	7.20Y	125.0	0.00	0.00	160.86	0	3317	1033	95	0.00	0.0	0.000	0.000	0	0	0	629

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total		
KW	11214	0	0	0	0	0	199		0.00	11413	Lowest Voltage = 119.52	on Element SECU69660
KVAR	3341	0	0	-27	0	0	401			3715	Max Accm VoltD = 5.48	on Element SECU69660
											Max Elem VoltD = 0.63	on Element PROH108067



JOE TICHENOR SUBSTATION

2008 LOAD LEVEL  
BEFORE CORRECTIONS

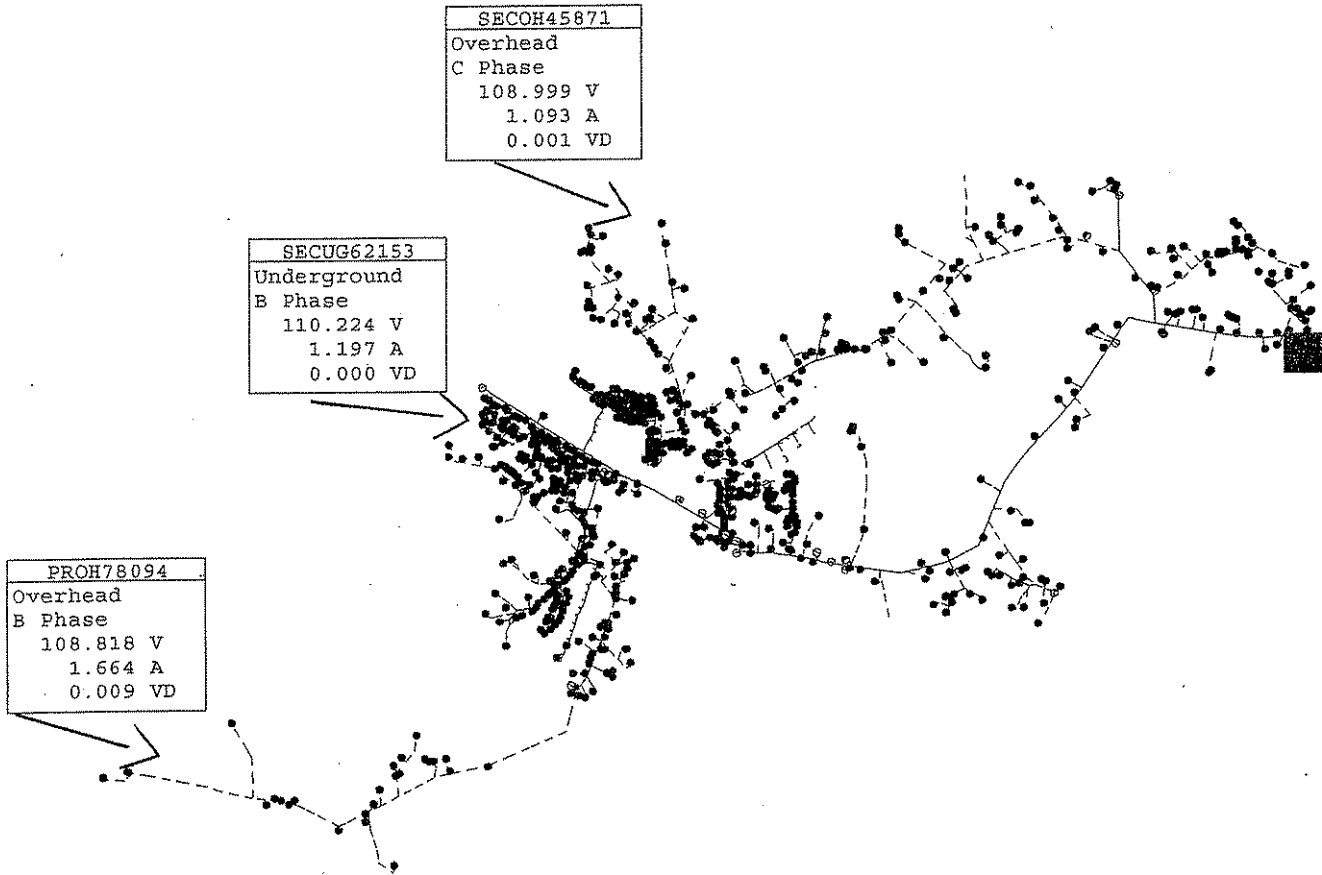
13,845 KW

SECUG61700  
Underground  
A Phase  
117.673 V  
1.239 A  
0.000 VD

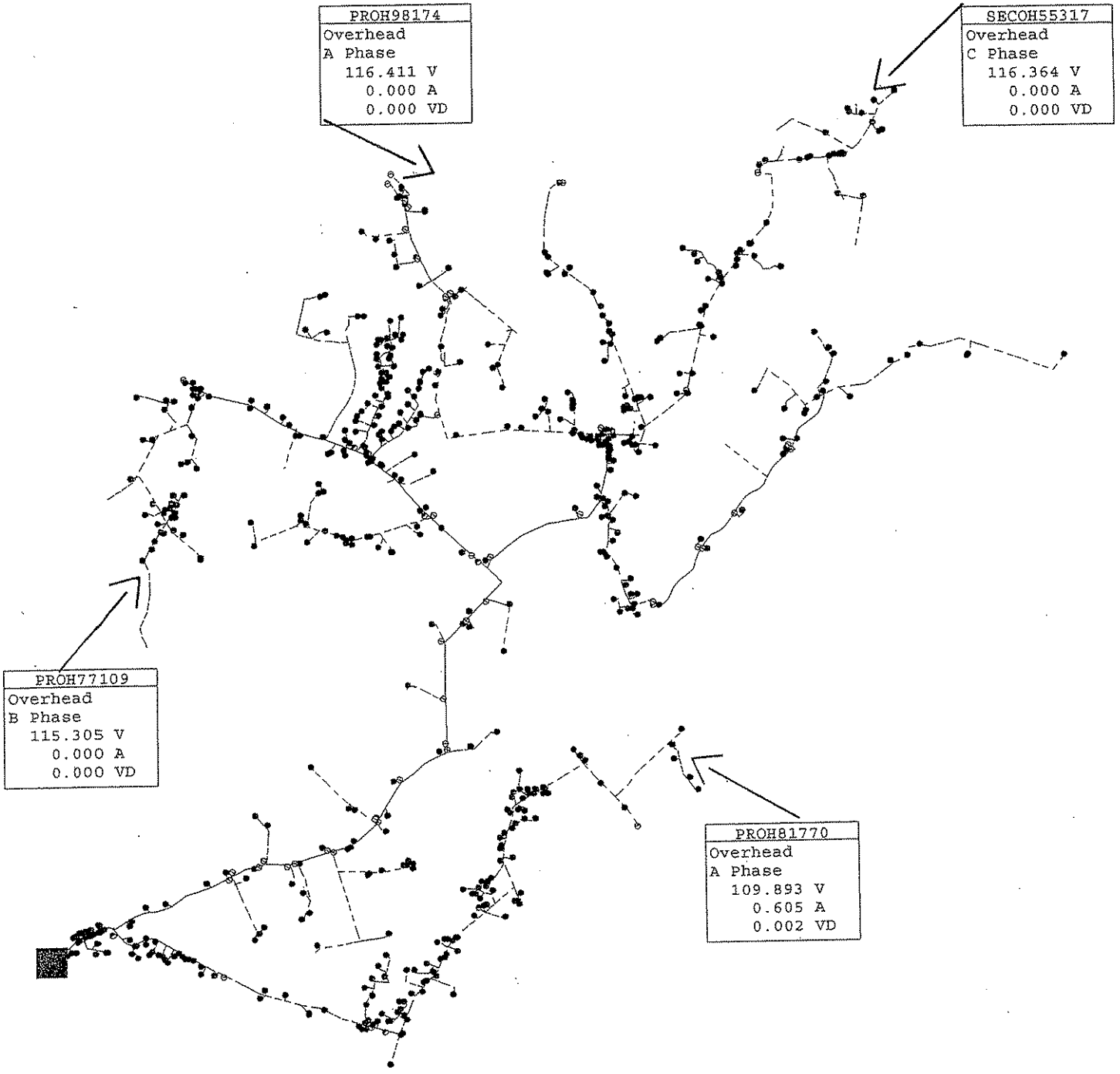
PROH109576  
Overhead  
ABC Phase  
124.371 V  
159.085 A  
0.545 VD

SECUG61479  
Underground  
A Phase  
118.494 V  
1.035 A  
0.001 VD

Joe Tichenor fdr 01  
Winter 2008 Load Level  
Before  
Corrections



Joe Tichenor fdr 02  
 Winter 2008 Load Level  
 Before  
 Corrections

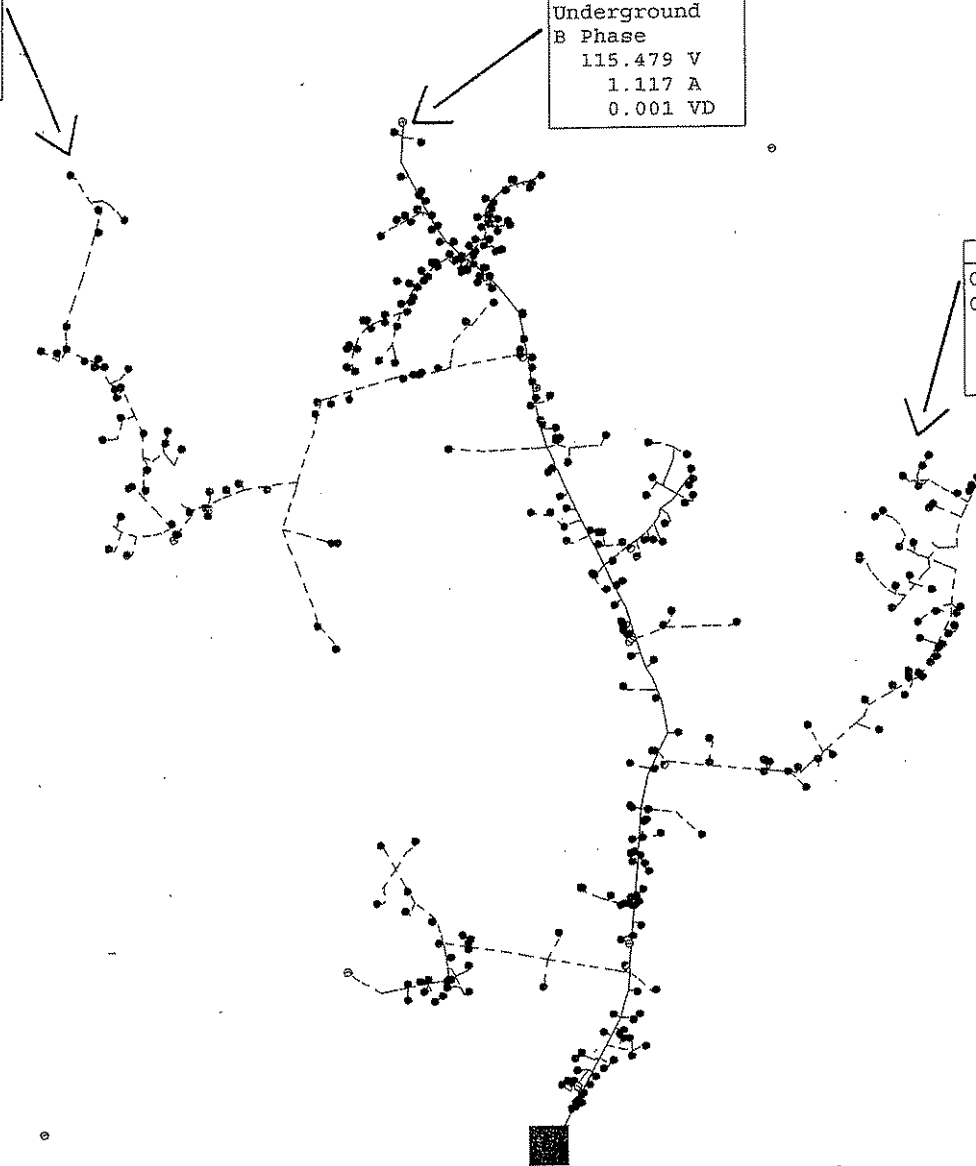


Joe Tichenor fdr 03  
 Winter 2008 Load Level  
 Before  
 Corrections

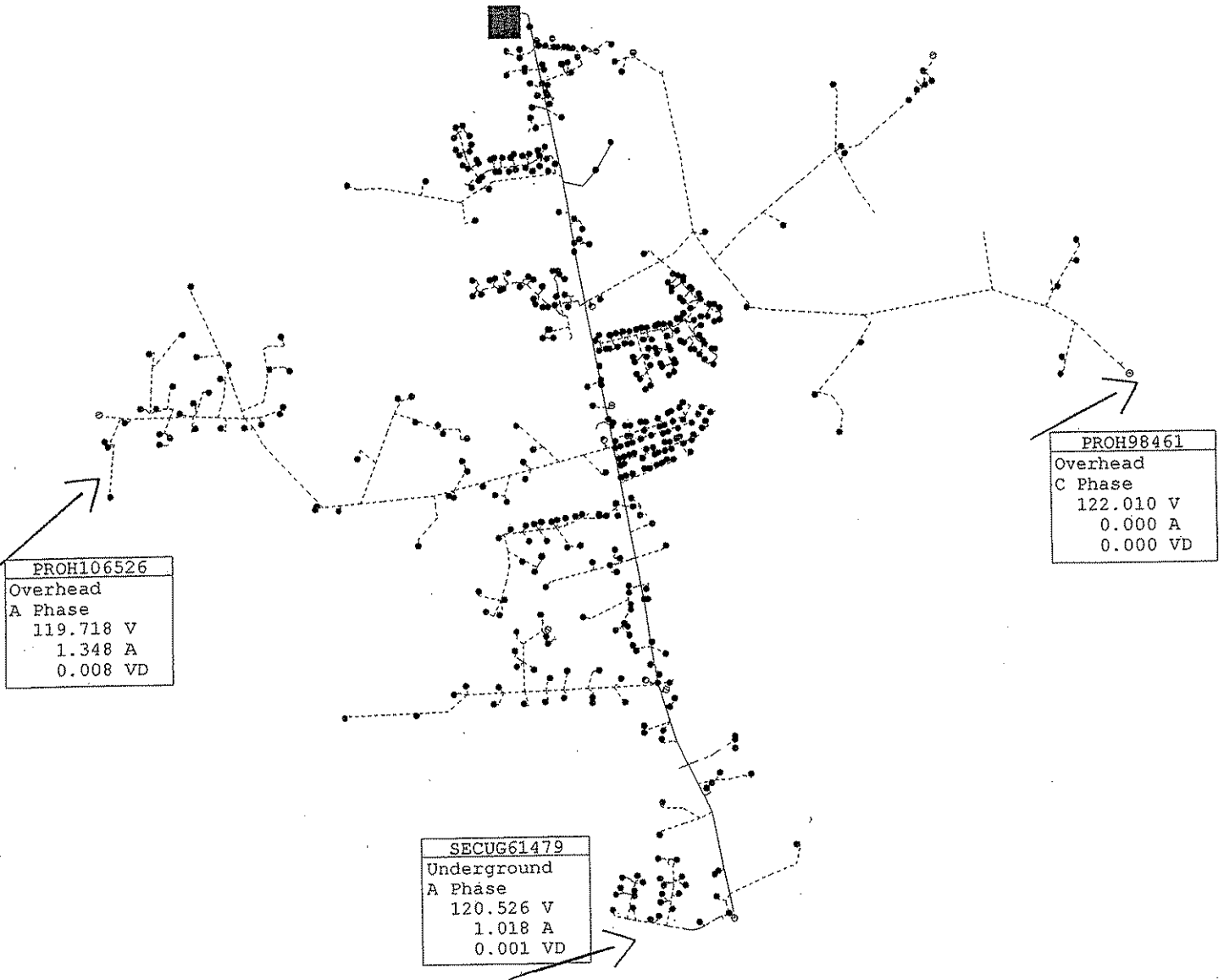
SECOH45644
Overhead
B Phase
112.482 V
0.063 A
0.000 VD

SECUG63870
Underground
B Phase
115.479 V
1.117 A
0.001 VD

PROH99654
Overhead
C Phase
117.279 V
0.000 A
0.000 VD



Joe Tichenor fdr 04  
 Winter 2008 Load Level  
 Before  
 Corrections

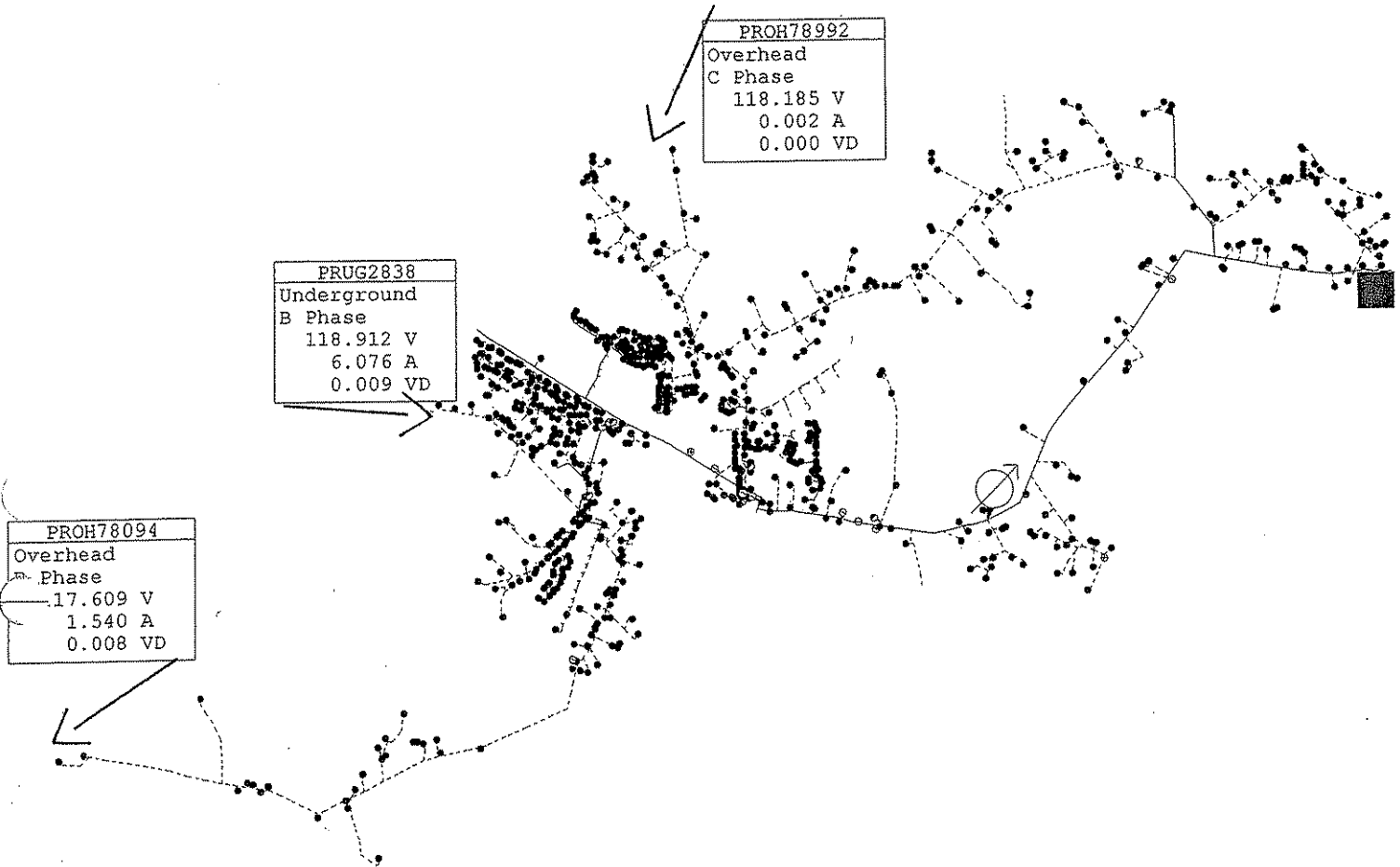


PROH106526
Overhead
A Phase
119.718 V
1.348 A
0.008 VD

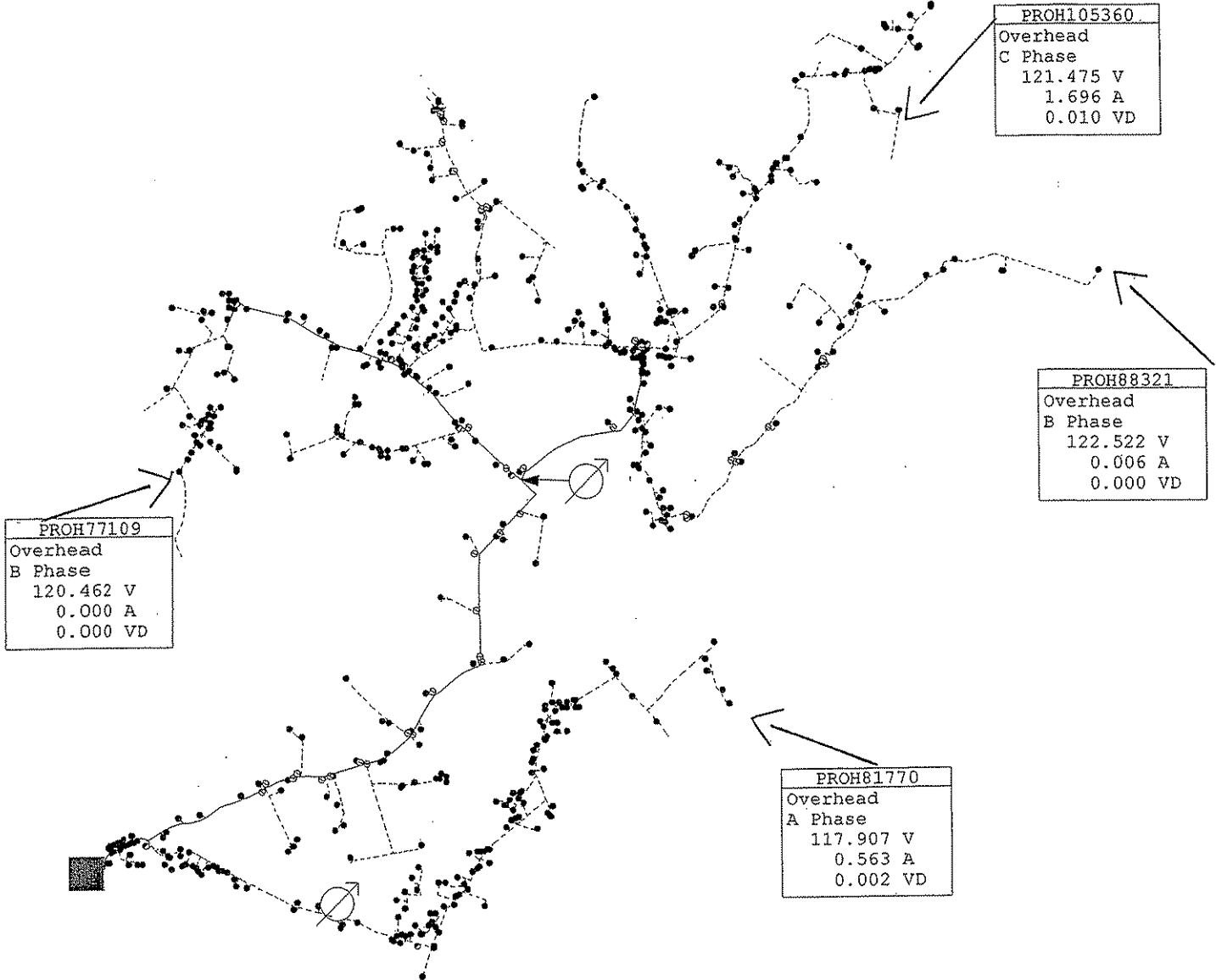
SECUG61479
Underground
A Phase
120.526 V
1.018 A
0.001 VD

PROH98461
Overhead
C Phase
122.010 V
0.000 A
0.000 VD

Joe Tichenor fdr 01  
 Winter 2008 Load Level  
 After  
 Corrections



Joe Tichenor fdr 02  
 Winter 2008 Load Level  
 After  
 Corrections



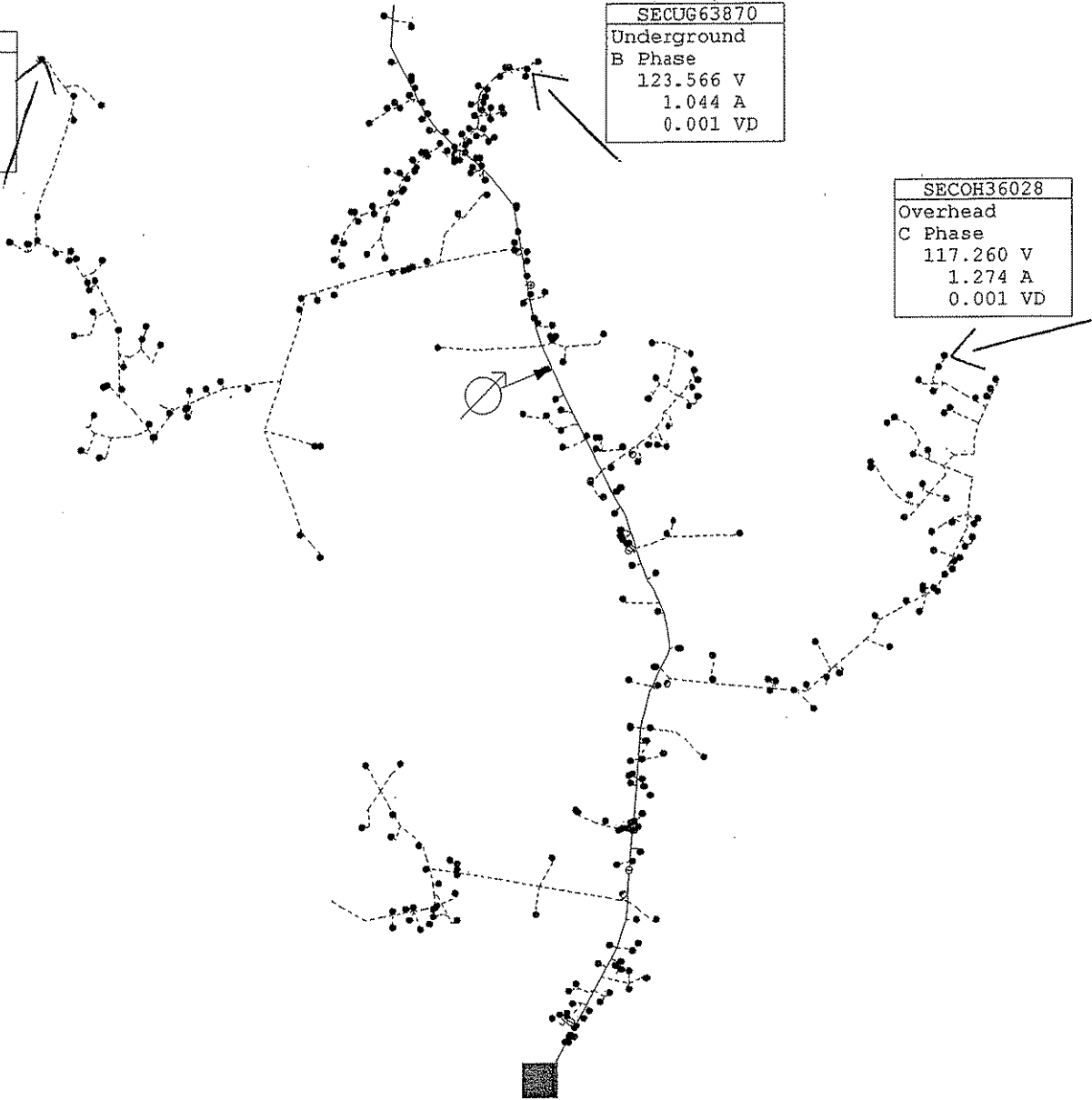
Joe Tichenor fdr 03  
 Winter 2008 Load Level  
 After  
 Corrections



SECOH45644
Overhead
B Phase
120.777 V
0.058 A
0.000 VD

SECUG63870
Underground
B Phase
123.566 V
1.044 A
0.001 VD

SECOH36028
Overhead
C Phase
117.260 V
1.274 A
0.001 VD



Joe Tichenor fdr 04  
Winter 2008 Load Level  
After  
Corrections

# JOE TICHENOR SUBSTATION

## 2008 LOAD LEVEL AFTER CORRECTIONS

13,845 KW

FDR 01 0.64 MILE 4ACWC TO 336.4 ACSR (\$46,720)

FDR 02 3 PHASE 300 AMP REGULATOR (\$26,600)

FDR 03 3 PHASE 150 AMP REGULATOR (\$23,600)

FDR 03 1 PHASE 100 AMP REGULATOR (\$6,300)

FDR 04 3 PHASE 150 AMP REGULATOR (\$23,600)

Balanced Voltage Drop Report  
Source: 22

Database: C:\MELISOFT\PROGRAMS\TICHEROR.WM\  
Title:  
Case:

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Units Displayed In Volts																			
-Base Voltage:125.0-																			
Element Name	Parent Name	Cnf	Type/ Conductor	Pri	Base KV	Element Volt Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	PF	% Loss	% Loss	mi Frcm Src	Length (mi)	Element Cons Cons On Thru		
c 22			ABC JOE TICHEN	7.20Y	125.0	0.00	0.00	664.95	119	13671	4403	95	0.00	0.0	0.000	0.000	0	0	0 1957 C
-----	Feeder NO.	4	Beginning with Node			Element	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
199-15-7374	22		ABC Node	7.20Y	125.0	0.00	0.00	117.34	0	2427	729	96	0.00	0.0	0.000	0.000	0	0	0 319
-----	Feeder NO.	3	Beginning with Node			Element	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
199-15-7373	22		ABC Node	7.20Y	125.0	0.00	0.00	156.77	0	3209	1080	95	0.00	0.0	0.000	0.000	0	0	0 502
-----	Feeder NO.	2	Beginning with Node			Element	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
199-15-7372	22		ABC Node	7.20Y	125.0	0.00	0.00	234.42	0	4787	1649	95	0.00	0.0	0.000	0.000	0	0	0 688
-----	Feeder NO.	1	Beginning with Node			Element	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
199-15-7371	22		ABC Node	7.20Y	125.0	0.00	0.00	156.56	0	3247	945	96	0.00	0.0	0.000	0.000	0	0	0 448

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total		
KW	2302	0	0	0	0	12244	125		0.00	13671	Lowest Voltage = 117.03	on Element PROH97785
KVAR	656	0	0	-5	0	3674	78			4403	Max Accm VoltD = 7.97	on Element PROH97785
											Max Elem VoltD = 0.52	on Element PROH105242

---

Substation Summary:

Substation	KW	KW Losses	KVAR	KVAR Losses	KVA
22	2302.00	125.00	656.00	78.00	14362.83
Total:	2302.00	125.00	656.00	78.00	14362.83

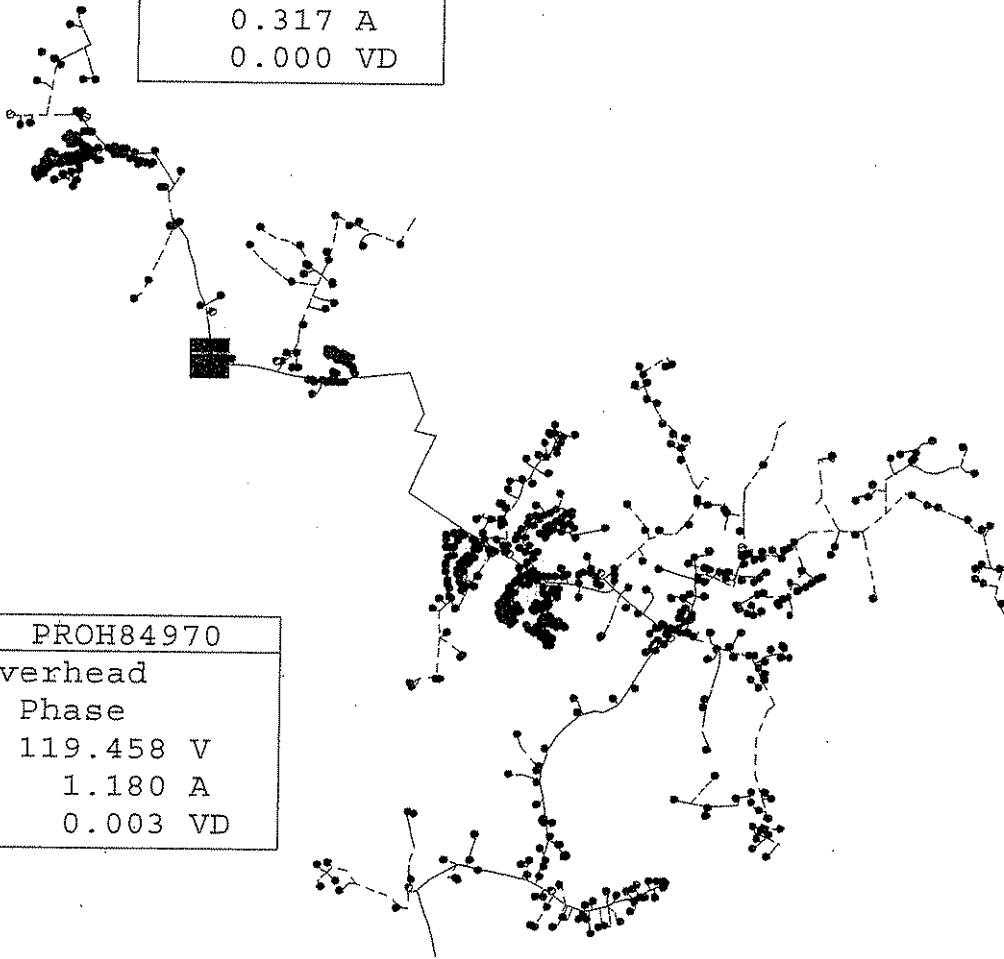
---

DARWIN THOMAS SUBSTATION

2008 LOAD LEVEL  
BEFORE CORRECTIONS

11,809 KW

SECUG58977
Underground
B Phase
116.976 V
0.317 A
0.000 VD

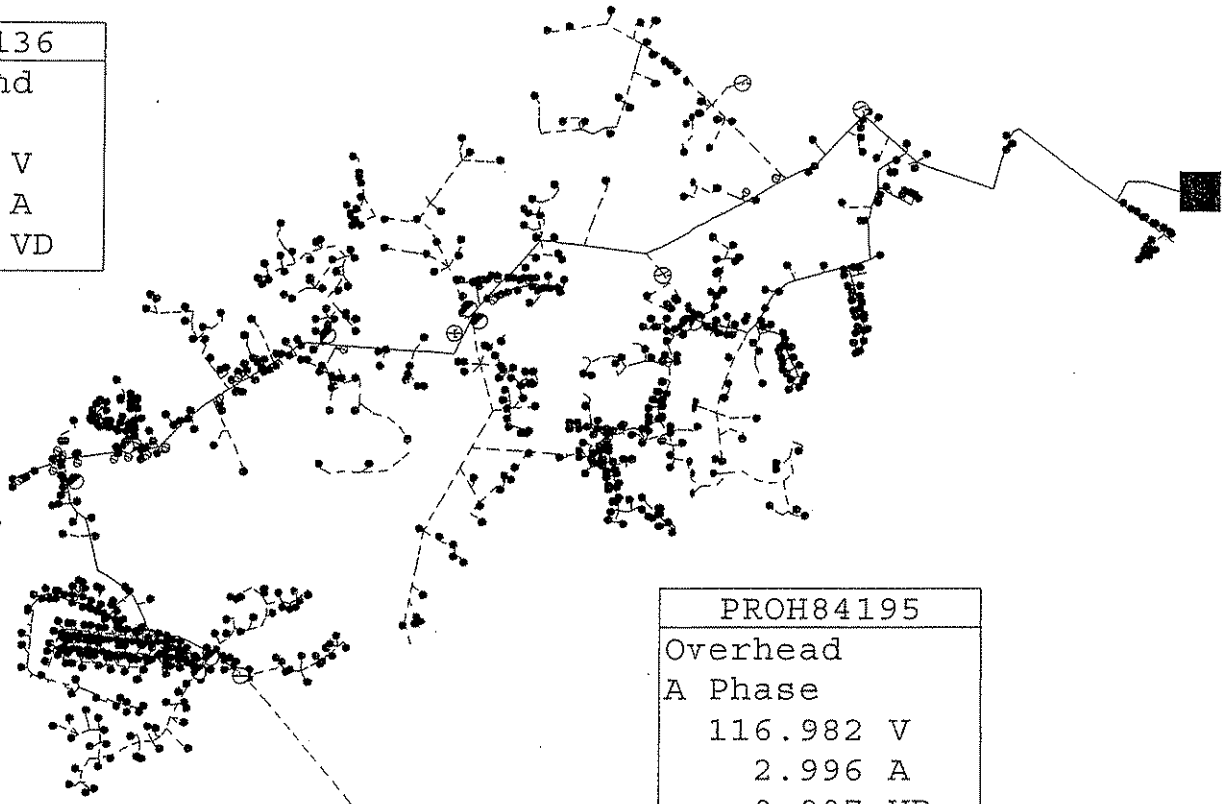


PROH84970
Overhead
C Phase
119.458 V
1.180 A
0.003 VD

PROH100395
Overhead
C Phase
116.484 V
0.781 A
0.006 VD

Darwin Thomas fdr 02  
 Winter 2008 Load Level  
 Before  
 Corrections

SECUG59136
Underground
B Phase
111.837 V
1.093 A
0.001 VD

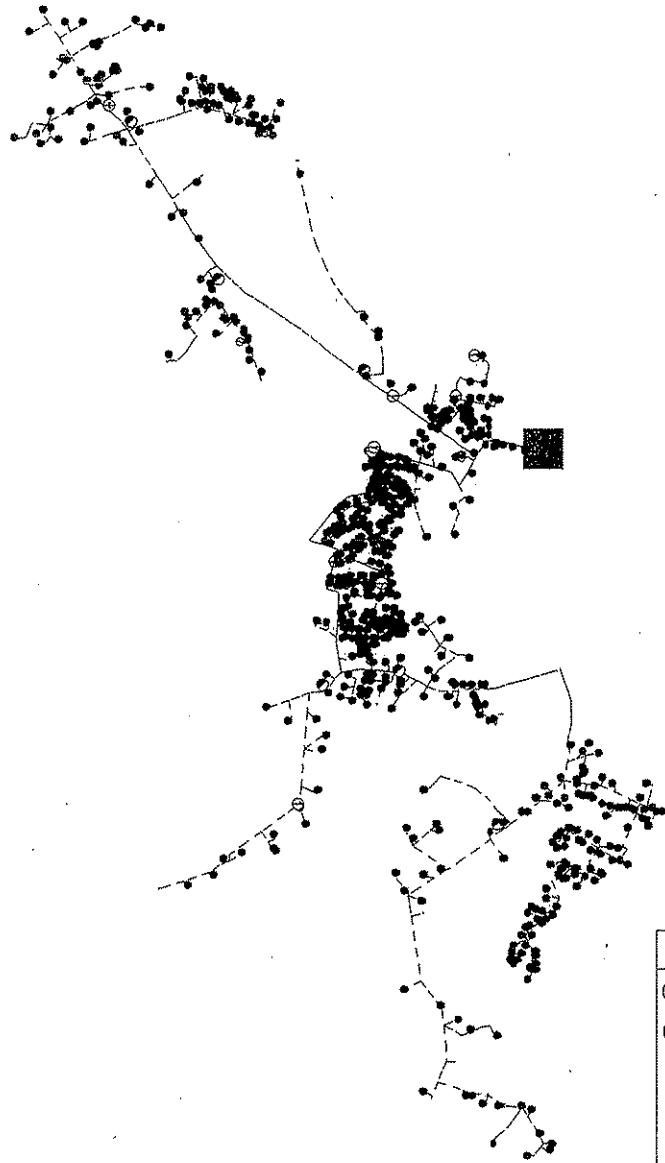


PROH84195
Overhead
A Phase
116.982 V
2.996 A
0.007 VD

SECUG58173
Underground
A Phase
109.088 V
0.550 A
0.000 VD

Darwin Thomas fdr 03  
 Winter 2008 Load Level  
 Before  
 Corrections

PROH81626
Overhead
A Phase
119.031 V
0.900 A
0.005 VD



PROH89550
Overhead
C Phase
108.224 V
2.010 A
0.012 VD

PROH103117
Overhead
C Phase
108.594 V
0.868 A
0.003 VD

Darwin Thomas fdr 04  
 Winter 2008 Load Level  
 Before  
 Corrections



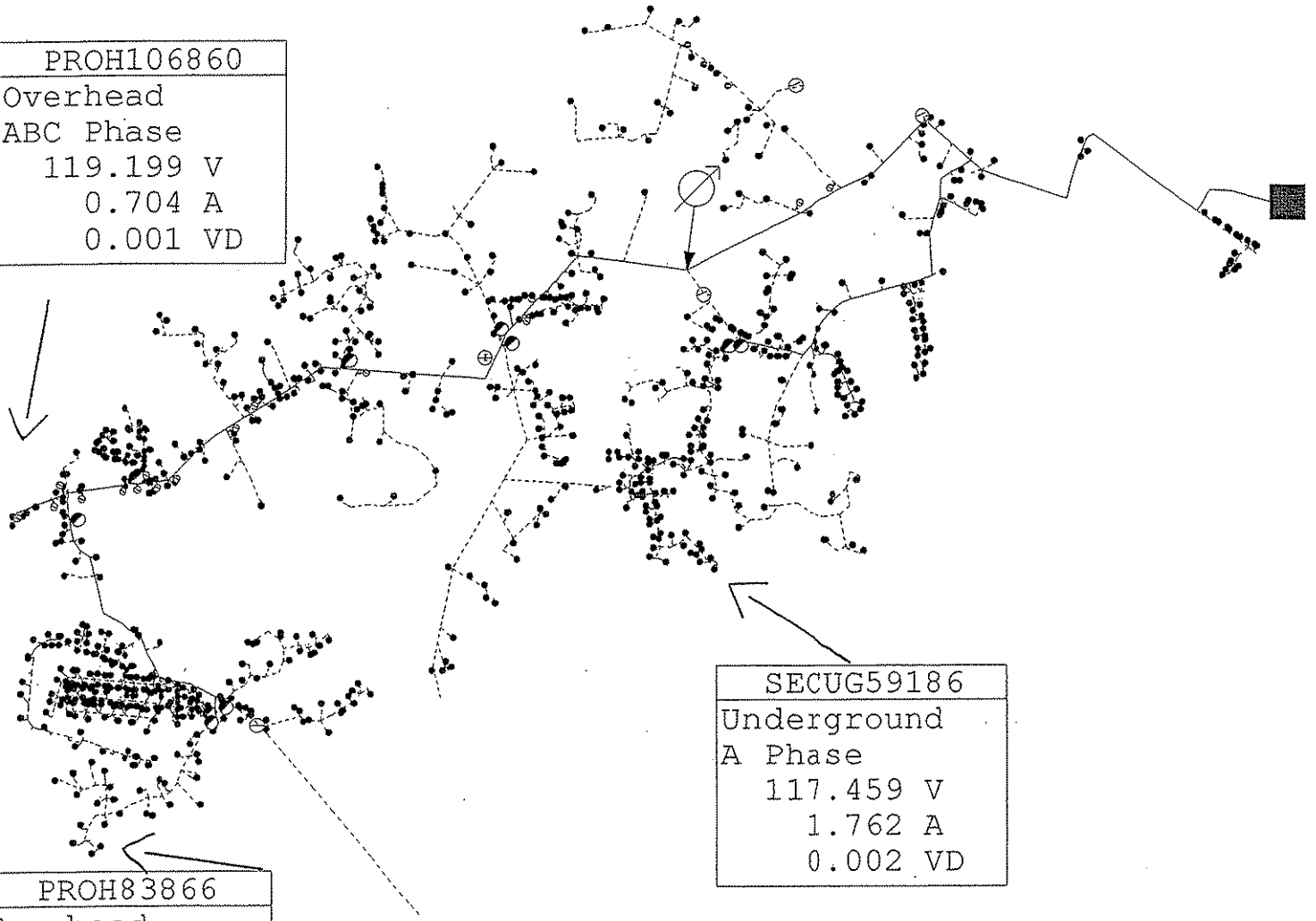
PROH99836
Overhead
B Phase
117.643 V
1.256 A
0.008 VD

PROH100617
Overhead
C Phase
119.459 V
0.523 A
0.003 VD

PROH100395
Overhead
C Phase
123.917 V
0.734 A
0.005 VD

Darwin Thomas fdr 02  
 Winter 2008 Load Level  
 After  
 Corrections

PROH106860
Overhead
ABC Phase
119.199 V
0.704 A
0.001 VD

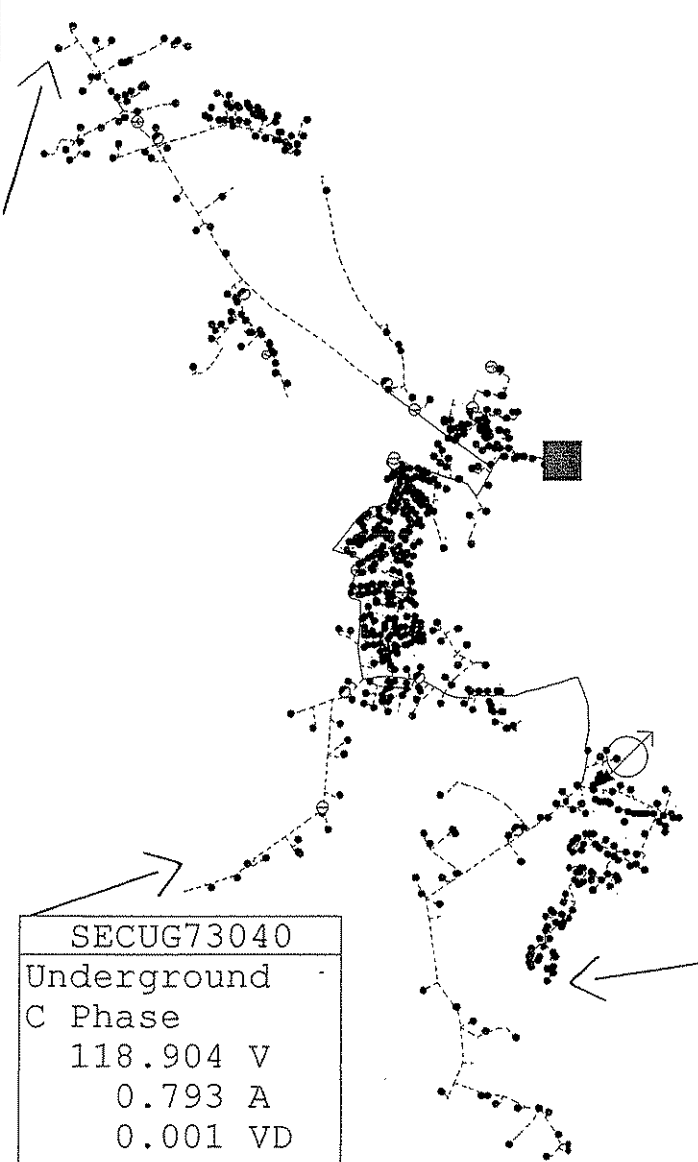


SECUG59186
Underground
A Phase
117.459 V
1.762 A
0.002 VD

PROH83866
Overhead
A Phase
117.539 V
0.803 A
0.001 VD

Darwin Thomas fdr 03  
 Winter, 2008 Load Level  
 After  
 Corrections

PROH81626
Overhead
A Phase
119.054 V
0.900 A
0.005 VD



SECUG73040
Underground
C Phase
118.904 V
0.793 A
0.001 VD

SECUG70288
Underground
C Phase
120.387 V
0.917 A
0.001 VD

Darwin Thomas fdr 04  
 Winter 2008 Load Level  
 After  
 Corrections

# DARWIN THOMAS SUBSTATION

2008 LOAD LEVEL  
AFTER CORRECTIONS

11,809 KW

FDR 02 1 PHASE REGULATOR (\$6,300)

FDR 03 3 PHASE 300 AMP REGULATOR (\$26,600)

FDR 04 1.79 MILE 6ACWC TO 3 PHASE 1/0 ACSR (\$98,450)

FDR 04 1 PHASE REGULATOR (\$6,300)

Balanced Voltage Drop Report  
Source: 23

Database: C:\MILSOFT\PROGRAMS\ALLSUBS.WM\  
Title:  
Case:

03/03/2005 10:17 Page 1

		Units Displayed In Volts														-----Element-----				
		-Base Voltage:125.0-																		
Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
C 23			ABC DARWIN THO	7.20Y	125.0	0.00	0.00	566.82	101	11687	3648	95	0.00	0.0	0.000	0.000	0	0	0	1943 C
----- Feeder NO. 2		Beginning with Node Element 007-12-4011																		
007-12-4011	23		ABC Node	7.20Y	125.0	0.00	0.00	173.12	0	3575	1098	96	0.00	0.0	0.000	0.000	0	0	0	605
C 021-21-1324	PROH100343		C H-50 OCR	6.93Y	120.3	0.00	4.73	65.80	132	439	123	96	0.00	0.0	4.648	0.000	0	0	0	79 C
----- Feeder NO. 3		Beginning with Node Element 007-12-4010																		
007-12-4010	23		ABC Node	7.20Y	125.0	0.00	0.00	219.52	0	4501	1492	95	0.00	0.0	0.000	0.000	0	0	0	764
----- Feeder NO. 4		Beginning with Node Element 007-12-3410																		
007-12-3410	23		ABC Node	7.20Y	125.0	0.00	0.00	174.24	0	3612	1058	96	0.00	0.0	0.000	0.000	0	0	0	574

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total			
KW	3470	0	0	0	0	8112	185	0.00	11687	Lowest Voltage = 117.61 on Element SECOH20172		
KVAR	961	0	0	-25	0	2550	162		3648	Max Accm VoltD = 7.39 on Element SECOH20172		
										Max Elem VoltD = 2.57 on Element PROH99857		

---

Substation Summary:					
Substation	KW	KW Losses	KVAR	KVAR Losses	KVA
23	3470.00	105.00	961.00	162.00	12243.23
Total:	3470.00	105.00	961.00	162.00	12243.23

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KNOB CREEK SUBSTATION

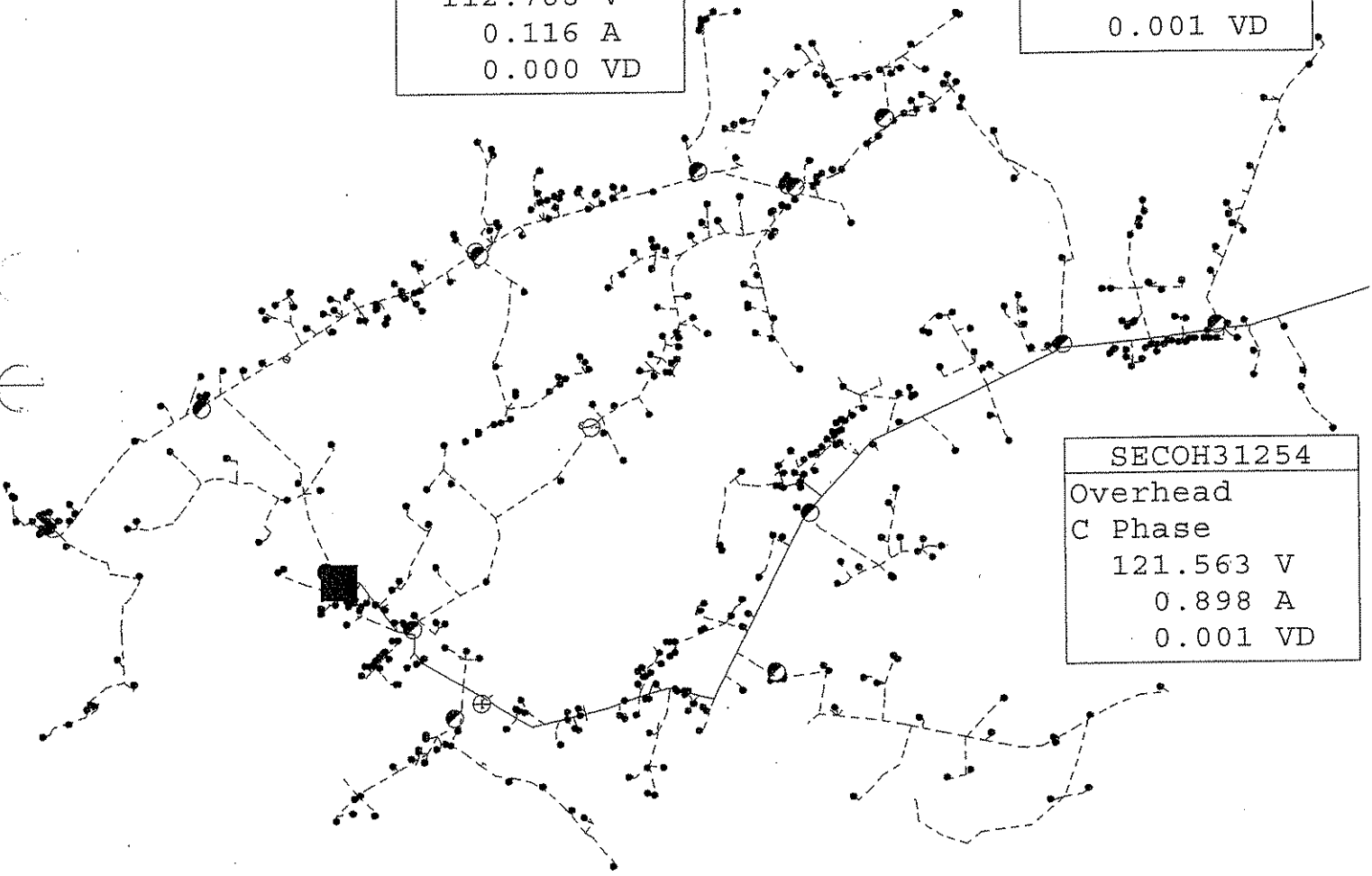
2008 LOAD LEVEL  
BEFORE CORRECTIONS

2,637 KW

PROH91630
Overhead
B Phase
112.788 V
0.116 A
0.000 VD

SECOH36971
Overhead
A Phase
119.759 V
0.602 A
0.001 VD

SECOH31254
Overhead
C Phase
121.563 V
0.898 A
0.001 VD



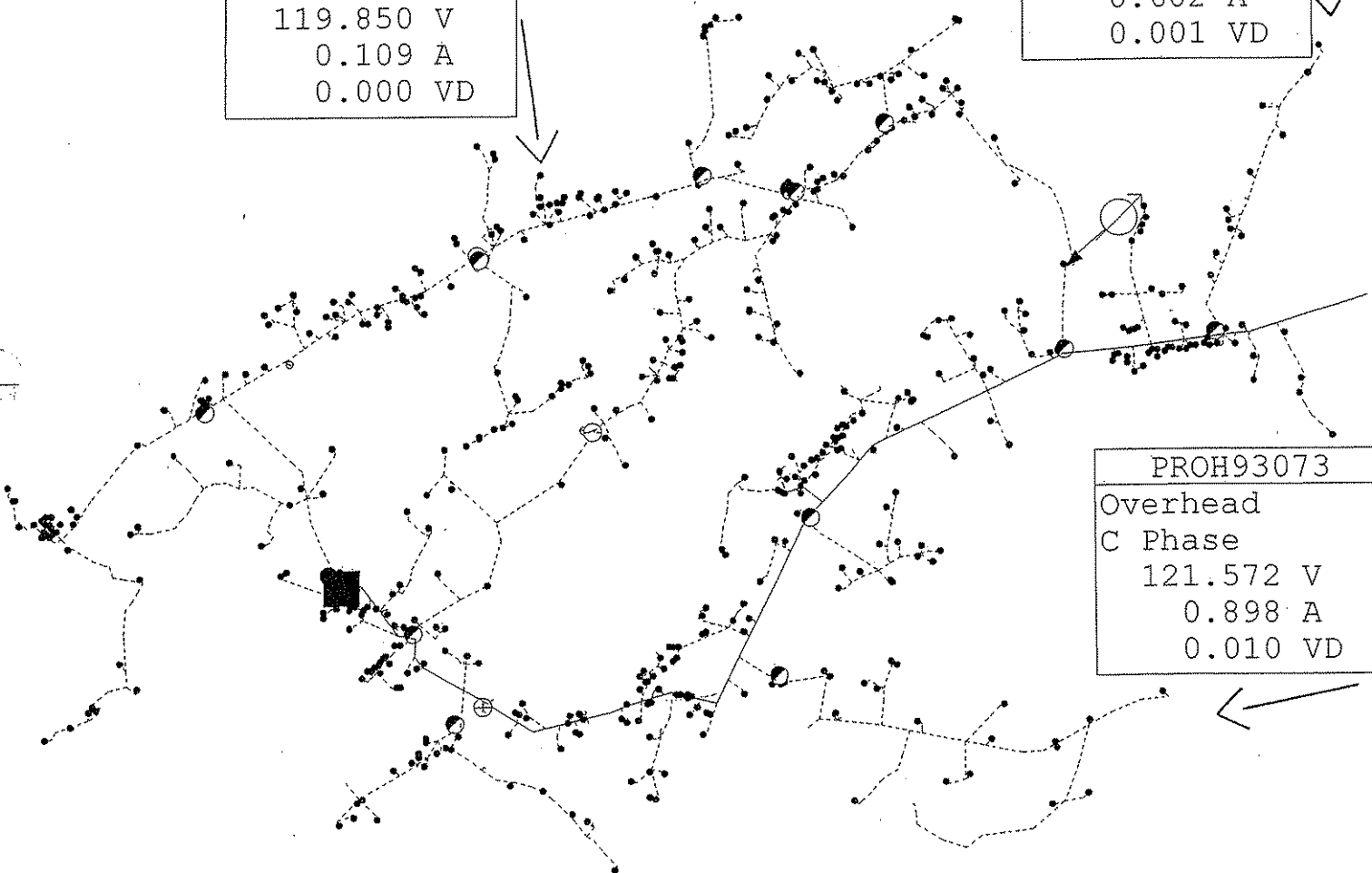
Knob Creek fdr 01  
 Winter 2008 Load Level  
 Before  
 Corrections



SECOH49879
Overhead
B Phase
119.850 V
0.109 A
0.000 VD

SECOH36971
Overhead
A Phase
119.774 V
0.602 A
0.001 VD

PROH93073
Overhead
C Phase
121.572 V
0.898 A
0.010 VD



Knob Creek fdr 01  
 Winter 2008 Load Level  
 After  
 Corrections

KNOB CREEK SUBSTATION

2008 LOAD LEVEL  
AFTER CORRECTIONS

2,637 KW

FDR 01 1 PHASE REGULATOR (\$6,300)

Balanced Voltage Drop Report  
Source: 24

Database: C:\MILSOFT\PROGRAMS\ALLSUBS.WM  
Title:  
Case:

		Units Displayed In Volts														-----Element-----				
		-Base Voltage:125.0-																		
Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
24		ABC	KNOCREEK	7.20Y	125.0	0.00	0.00	126.26	23	2600	824	95	0.00	0.0	0.000	0.000	0	0	0	477
----- Feeder NO. 1		Beginning with Node Element 086-04-4412																		
086-04-4412	24	ABC	Node	7.20Y	125.0	0.00	0.00	126.26	0	2600	824	95	0.00	0.0	0.000	0.000	0	0	0	477
C 065-17-8344	PROH101431	B	L-100 OCR	6.91Y	120.0	0.00	4.96	105.83	106	697	223	95	0.00	0.0	3.722	0.000	0	0	0	121 C

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total			
KW	2508	0	0	0	0	0	92	0.00	2600	Lowest Voltage = 118.85 on Element PROH101432		
KVAR	747	0	0	-1	0	0	79		824	Max Accm VoltD = 6.15 on Element PROH101432		
										Max Elem VoltD = 1.87 on Element PROH101433		

Substation Summary:

Substation	KW	KW Losses	KVAR	KVAR Losses	KVA
24	2508.00	92.00	747.00	79.00	2727.22
Total:	2508.00	92.00	747.00	79.00	2727.22

LEBANON JUNCTION SUBSTATION

2008 LOAD LEVEL  
BEFORE CORRECTIONS

3,994 KW

SECUG70141
Underground
B Phase
124.585 V
0.015 A
0.000 VD

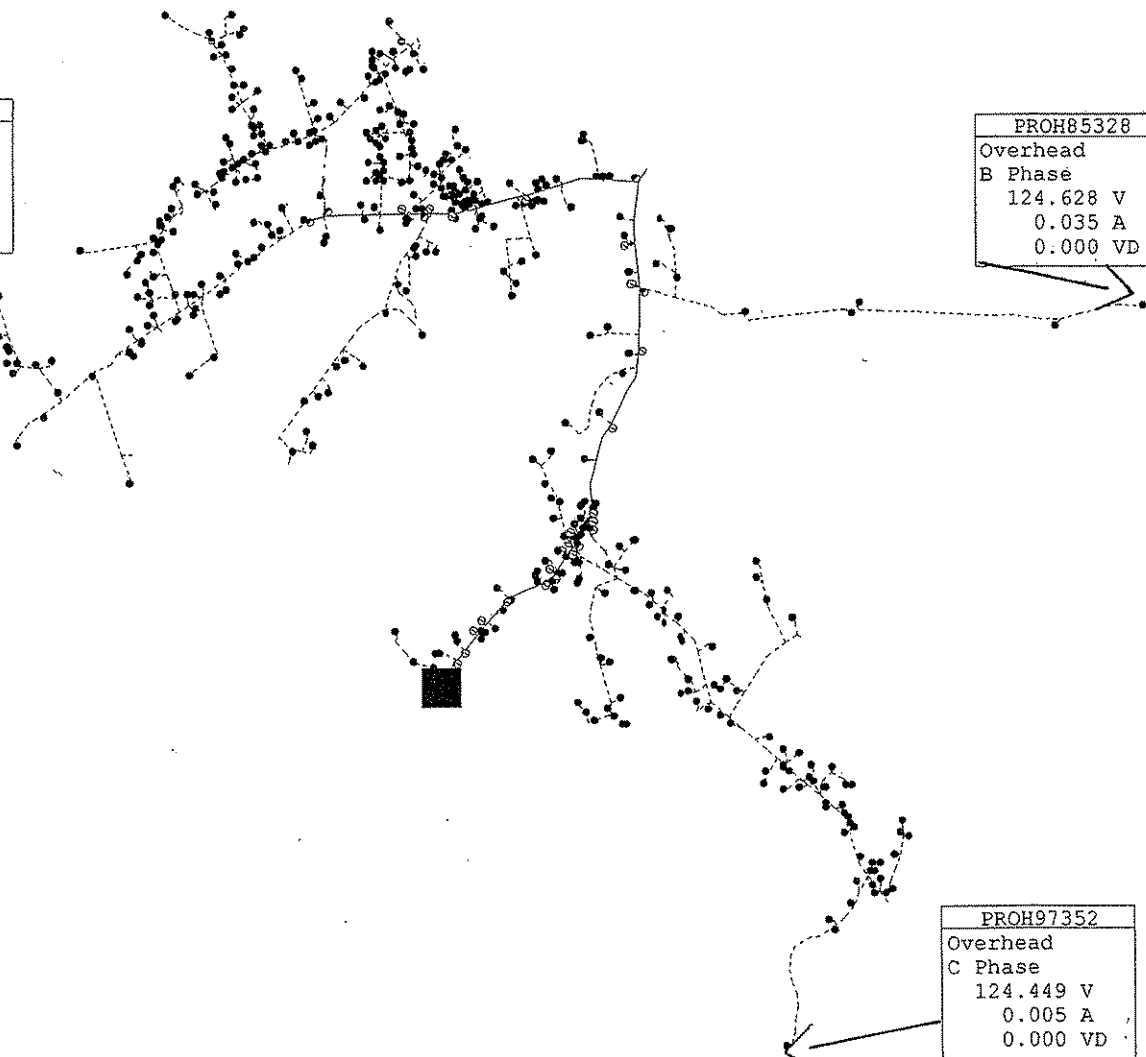
PROH98495
Overhead
C Phase
124.502 V
0.000 A
0.000 VD

Lebanon Jct # 2 fdr 01  
Winter 2008 Load Level  
Before  
Corrections

SECOH41259
Overhead
C Phase
124.075 V
0.129 A
0.000 VD

PROH85328
Overhead
B Phase
124.628 V
0.035 A
0.000 VD

PROH97352
Overhead
C Phase
124.449 V
0.005 A
0.000 VD



Lebanon Jct # 2 fdr 02  
 Winter 2008 Load Level  
 Before  
 Corrections

Substation Summary:

Substation	KW	KW Losses	KVAR	KVAR Losses	KVA
25	3979.00	6.00	1298.00	6.00	4192.43
Total:	3979.00	6.00	1298.00	6.00	4192.43



Balanced Voltage Drop Report  
Source: 25

Database: C:\MILSOFT\PROGRAMS\ALLSUBS.WM\  
Title:  
Case:

Units Displayed In Volts																				
-Base Voltage:125.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	% Loss	% Loss	mi From Src	Length (mi)	Element		Cons On	Cons Thru
25		ABC	LEBANON JC	7.20Y	125.0	0.00	0.00	194.09	35	3985	1302	95	0.00	0.0	0.000	0.000	0	0	0	721
----- Feeder NO. 2 Beginning with Node Element 232-04-8354 -----																				
232-04-8354	25	ABC	Node	7.20Y	125.0	0.00	0.00	194.09	0	3985	1302	95	0.00	0.0	0.000	0.000	0	0	0	721
C SECUG73556	PROH109654	ABC	URD 2 TPX	7.19Y	124.8	0.05	0.16	155.69	147	3195	1041	95	1.51	0.0	0.058	0.015	0	0	0	1 C

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total		
KW	3979	0	0	0	0	0	6	0.00	3985	Lowest Voltage = 124.00 on Element SECOH41259	
KVAR	1298	0	0	-1	0	0	6		1302	Max Accm VoltD = 1.00 on Element SECOH41259	
										Max Elem VoltD = 0.06 on Element PROH92125	

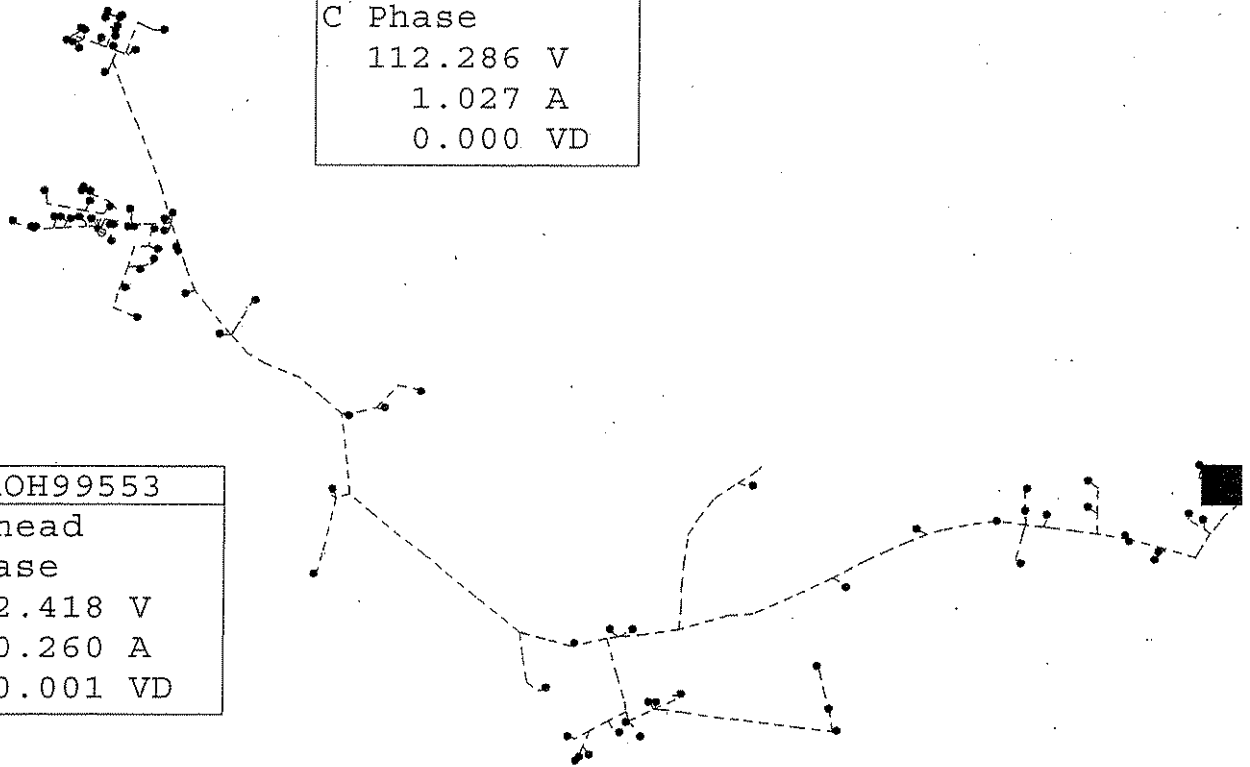
FREDRICKSBURG SUBSTATION

2008 LOAD LEVEL  
BEFORE CORRECTIONS

4,546 KW

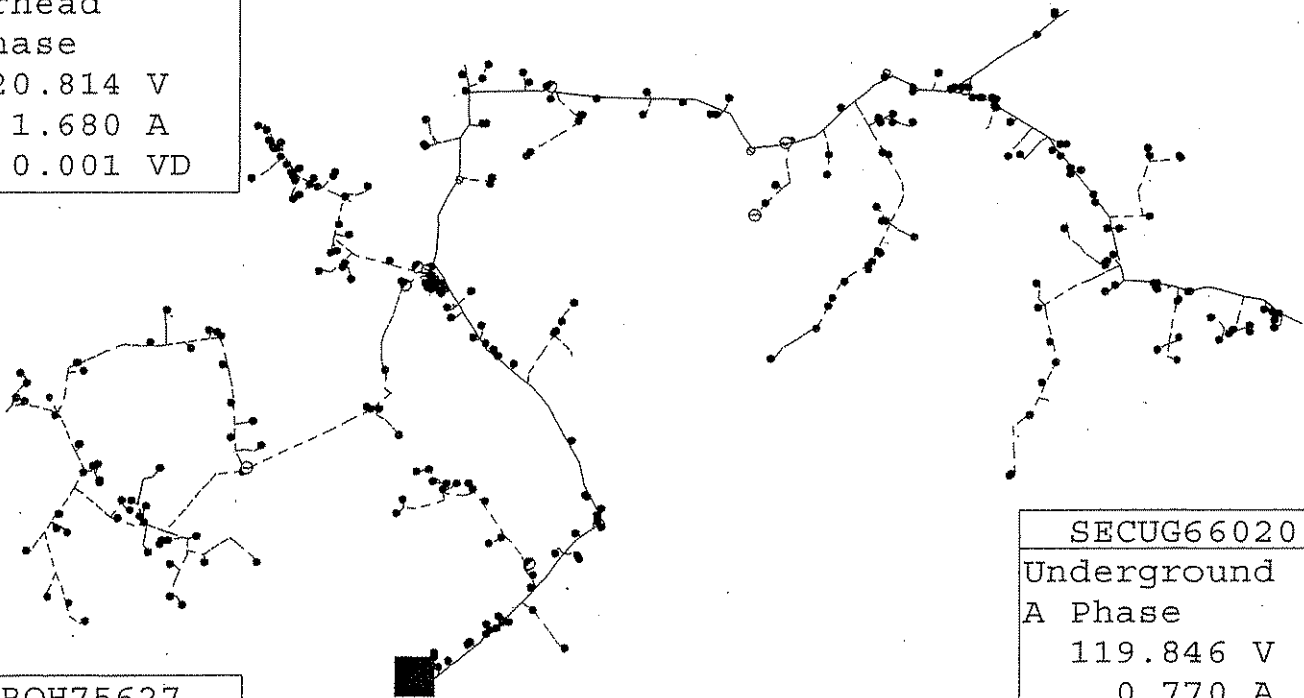
SECOH37122
Overhead
C Phase
112.286 V
1.027 A
0.000 VD

PROH99553
Overhead
C Phase
112.418 V
0.260 A
0.001 VD



Fredricksburg fdr 01  
 Winter 2008 Load Level  
 Before  
 Corrections

SECOH13224
Overhead
A Phase
120.814 V
1.680 A
0.001 VD



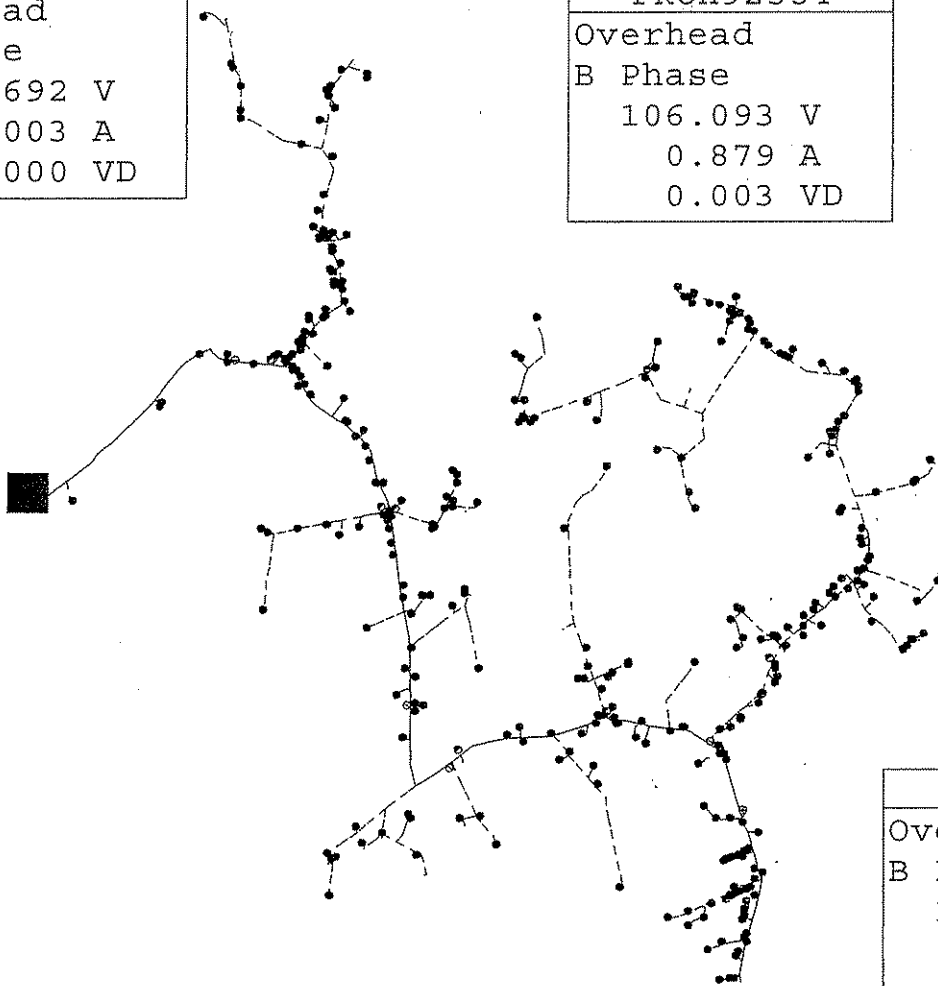
PROH75627
Overhead
B Phase
116.032 V
1.206 A
0.009 VD

SECUG66020
Underground
A Phase
119.846 V
0.770 A
0.000 VD

Fredricksburg fdr 02  
 Winter 2008 Load Level  
 Before  
 Corrections

PROH85150	
Overhead	
A Phase	
121.692	V
0.003	A
0.000	VD

PROH92354	
Overhead	
B Phase	
106.093	V
0.879	A
0.003	VD



PROH76525	
Overhead	
B Phase	
114.942	V
0.412	A
0.001	VD

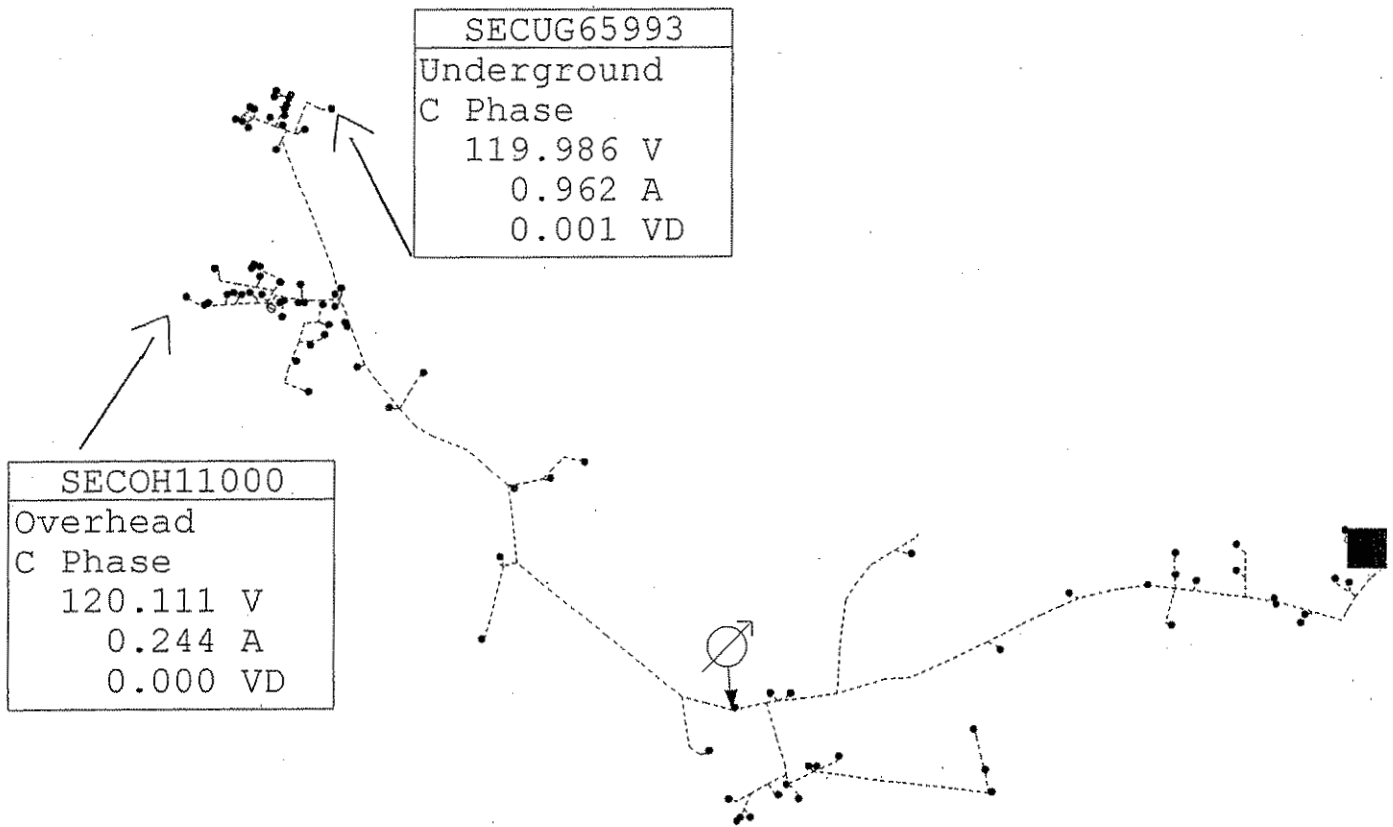
Fredricksburg fdr 03  
 Winter 2008 Load Level  
 Before  
 Corrections

PROH80640
Overhead
B Phase
123.602 V
0.657 A
0.009 VD

SECOH10736
Overhead
B Phase
122.850 V
0.115 A
0.000 VD

PROH106878
Overhead
B Phase
121.678 V
0.013 A
0.000 VD

Fredricksburg fdr 04  
Winter 2008 Load Level  
Before  
Corrections



Fredricksburg fdr 01  
 Winter 2008 Load Level  
 After  
 Corrections

SECOH13224
Overhead
A Phase
122.568 V
1.656 A
0.001 VD

PROH75627
Overhead
B Phase
117.861 V
1.187 A
0.009 VD

PROH95232
Overhead
A Phase
122.025 V
0.509 A
0.010 VD

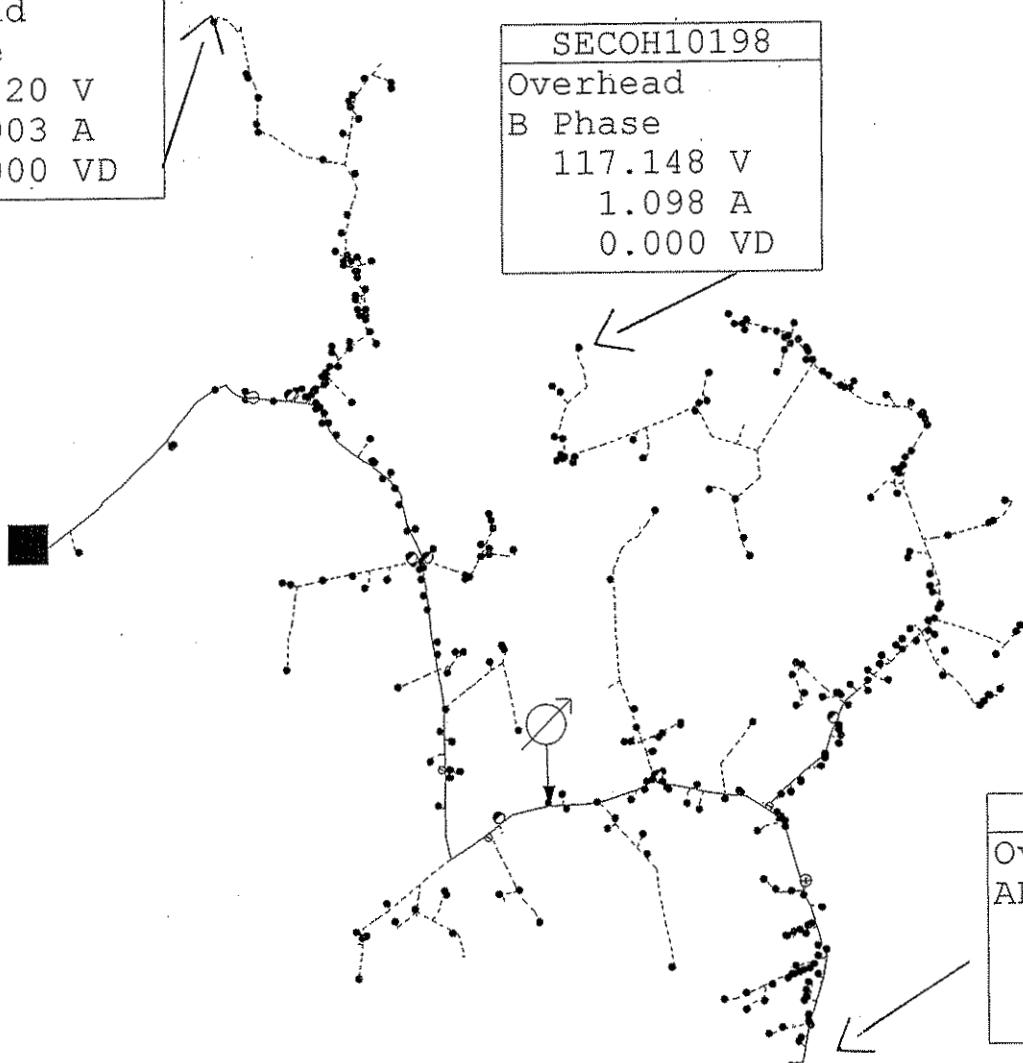
Fredricksburg fdr 02  
Winter 2008 Load Level  
After  
Corrections



PROH85150
Overhead
A Phase
121.720 V
0.003 A
0.000 VD

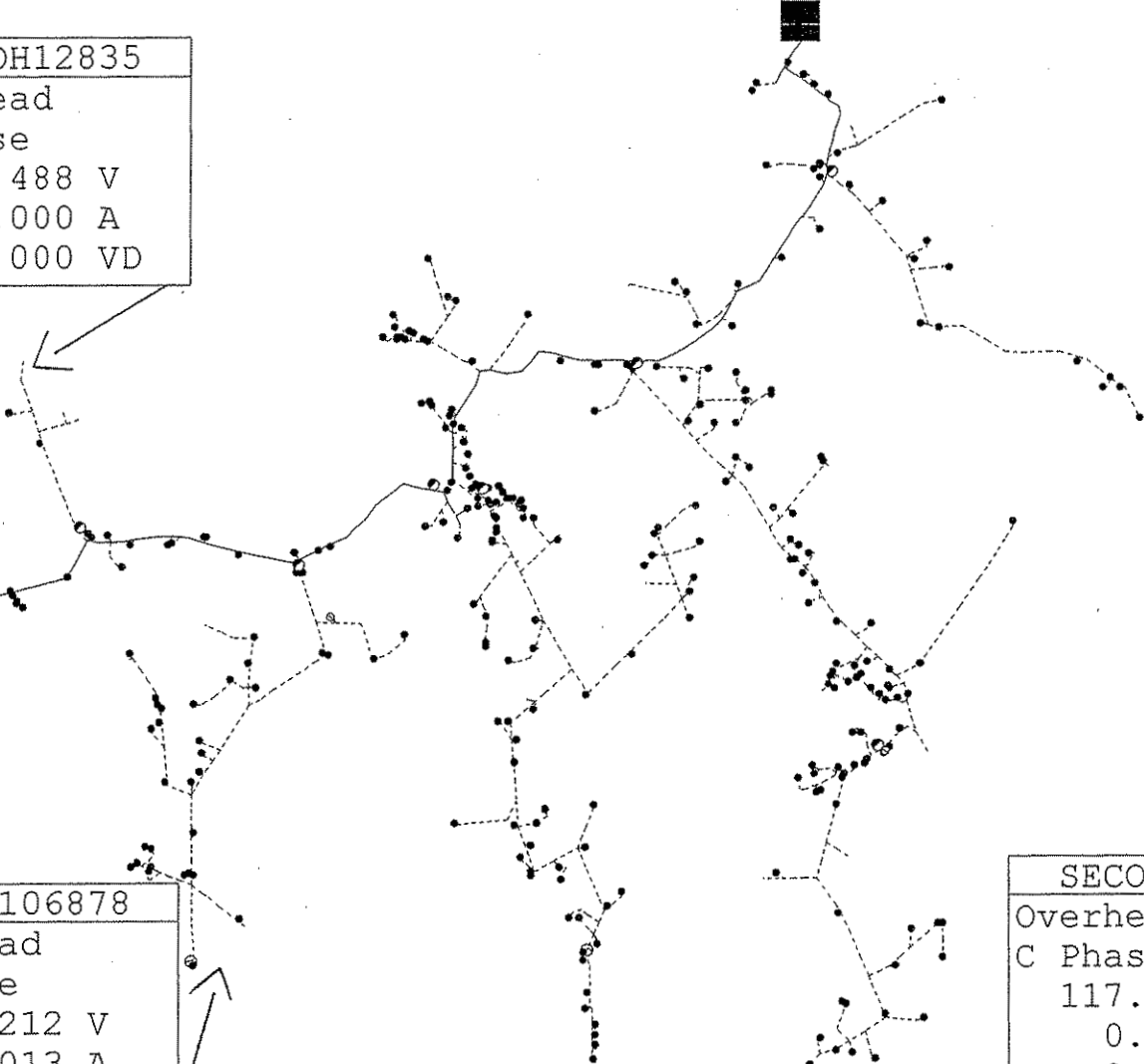
SECOH10198
Overhead
B Phase
117.148 V
1.098 A
0.000 VD

PROH98590
Overhead
ABC Phase
123.316 V
0.731 A
0.002 VD



Fredricksburg fdr 03  
 Winter 2008 Load Level  
 After  
 Corrections

SECOH12835
Overhead
C Phase
123.488 V
0.000 A
0.000 VD



PROH106878
Overhead
B Phase
122.212 V
0.013 A
0.000 VD

SECOH41626
Overhead
C Phase
117.878 V
0.801 A
0.000 VD

Fredricksburg fdr 04  
 Winter 2008 Load Level  
 After  
 Corrections

# FREDRICKSBURG SUBSTATION

## 2008 LOAD LEVEL AFTER CORRECTIONS

4,546 KW

FDR 01 1 PHASE REGULATOR (\$6,300)

FDR 02 3.13 MILE 6ACWC TO 336.4 ACSR (\$228,490)

FDR 03 0.93 MILE 6ACWC TO 3 PHASE 1/0 ACSR (\$51,150)

FDR 03 3 PHASE 150 AMP REGULATOR (\$23,600)

FDR 04 2.59 MILE 6ACWC TO 336.4 ACSR (\$189,070)

Balanced Voltage Drop Report  
Source: 26

Database: C:\MILSOFT\PROGRAMS\ALLSUBS.WM  
Title:  
Case:

03/03/2005 11:26 Page 1

		Units Displayed in Volts														Element				
		-Base Voltage:125.0-																		
Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
26		ABC	FREDRICKSB	7.20Y	125.0	0.00	0.00	213.14	38	4396	1369	95	0.00	0.0	0.000	0.000	0	0	0	871
-----	Feeder NO.	2	Beginning with Node			Element 302-17-3040														
302-17-3040	26	ABC	Node	7.20Y	125.0	0.00	0.00	54.31	0	1121	345	96	0.00	0.0	0.000	0.000	0	0	0	245
-----	Feeder NO.	3	Beginning with Node			Element 302-17-3034														
302-17-3034	26	ABC	Node	7.20Y	125.0	0.00	0.00	57.65	0	1190	365	96	0.00	0.0	0.000	0.000	0	0	0	242
-----	Feeder NO.	4	Beginning with Node			Element 302-17-2340														
302-17-2340	26	ABC	Node	7.20Y	125.0	0.00	0.00	24.01	0	495	154	95	0.00	0.0	0.000	0.000	0	0	0	85
-----	Feeder NO.	1	Beginning with Node			Element 302-17-2441														
302-17-2441	26	ABC	Node	7.20Y	125.0	0.00	0.00	77.18	0	1589	505	95	0.00	0.0	0.000	0.000	0	0	0	299

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total			
KW	1099	0	0	0	0	3274	22		0.00	4396	Lowest Voltage = 117.75	on Element SECOH9552	
KVAR	320	0	0	-1	0	1024	26			1369	Max Accm VoltD = 7.25	on Element SECOH9552	
											Max Elem VoltD = 1.72	on Element PROH14336	

Substation Summary:

Substation	KW	KW Losses	KVAR	KVAR Losses	KVA
26	1099.00	22.00	320.00	26.00	4603.86
Total:	1099.00	22.00	320.00	26.00	4603.86



**SALT RIVER ELECTRIC**

111 West Brashear Avenue  
Bardstow, Kentucky 40004

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# WORK PLAN

2005

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2006

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2007

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Handwritten notes and scribbles along the left margin, including the word "SCHEDULE" written vertically.