

**2009-2012
Construction Work Plan**

KENTUCKY 61 CARTER

**Grayson Rural Electric
Cooperative Corporation
Grayson, Kentucky**

October 2008



October 3, 2008



Mrs. Carol Fraley
President and CEO
Grayson Rural Electric Cooperative Corporation
109 Bagby Park
Grayson, KY 41143

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PUBLIC SERVICE
COMMISSION

Subject: Construction Work Plan

Dear Mrs. Fraley:

We have completed our work in connection with the preparation of a 2009-2012 Construction Work Plan for Grayson Rural Electric Cooperative Corporation. The Executive Summary summarizes the results of our studies and sets forth our conclusions and opinions. The data, information, and results of the analysis, which support our conclusions and opinions, are described in detail in subsequent sections of the Report.

We wish to acknowledge the cooperation and assistance received from the management and staff of Grayson Rural Electric Cooperative Corporation in the conduct of our studies and the preparation of the Report.

Respectfully submitted,
R. W. BECK, INC.

Keith Mullen, P.E.
Project Manager

Grayson Rural Electric Cooperative Corporation
Grayson, Kentucky
Kentucky 61, Carter

CONSTRUCTION WORK PLAN

I hereby certify that this 2009—2012 Construction Work Plan was prepared by me or under my direct supervision and that we are duly registered professional engineers under the laws of the State of Kentucky.

Keith Mullen, P.E.
Project Manager

Date: _____

GRAYSON RURAL ELECTRIC COOPERATIVE CORPORATION CONSTRUCTION WORK PLAN

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This report has been prepared for the use of the client for the specific purposes identified in the report. The conclusions, observations and recommendations contained herein attributed to R. W. Beck, Inc. (R. W. Beck) constitute the opinions of R. W. Beck. To the extent that statements, information and opinions provided by the client or others have been used in the preparation of this report, R. W. Beck has relied upon the same to be accurate, and for which no assurances are intended and no representations or warranties are made. R. W. Beck makes no certification and gives no assurances except as explicitly set forth in this report.

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SECTION A. COST ESTIMATES (cont.)					BORROWER'S COST ESTIMATES	RUS USE ONLY
500	e. Substation, Switching Station, Metering Point Changes					
	<u>Station Designation</u>	<u>Description of Changes</u>				
501					\$0	
502					0	
503					0	
504					0	
505					0	
506					0	
507					0	
508					0	
509					0	
	<i>Subtotal</i>				\$0	
600	f. Miscellaneous Distribution Equipment					
601	(1) Transformers and Meters					
	Construction	<u>Transformers</u>		<u>Meters</u>		
	Underground	192	\$387,744	0	\$0	\$387,744
	Overhead	2236	\$2,505,146	1600	\$256,400	2,761,546
	<i>Subtotal code 601 ... (included in total of all 600 codes below)</i>				\$3,149,290	
602	(2) Sets of Service Wires to increase Capacity	388			745,057	
603	(3) Sectionalizing Equipment	45			213,300	
604	(4) Regulators	9			150,650	
605	(5) Capacitors				0	
606	(6) Pole Replacements	1512			3,645,054	
	(7)				0	
	(8)				0	
	(9)				0	
	(10)				0	
	(11)				0	
	<i>Subtotal ALL 600 codes</i>				\$7,903,351	
700	g. Other Distribution Items					
701	(1) Security Lights	800			\$338,400	
702	(2) Engineering Fees				0	
703	(3) Reimbursement of General Funds (see attached)				0	
704	(4)				0	
	<i>Subtotal</i>				\$338,400	
TOTAL DISTRIBUTION.....					\$16,438,419	
800	2. Transmission					
	a. New Line					
	<u>Line Designation</u>	<u>Voltage</u>	<u>Wire Size</u>	<u>Miles</u>		
801					\$0	
802					0	
803					0	
804					0	
805					0	
806					0	
807					0	
808					0	
809					0	
810					0	
	<i>Total Miles</i>			0.00		
	<i>Subtotal</i>				\$0	

SECTION A. COST ESTIMATES (cont.)			BORROWER'S COST ESTIMATES	RUS USE ONLY
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</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</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
	TOTAL TRANSMISSION.....			\$0
1200	3. GENERATION (including Step-up Station at Plant)			
1201	a Fuel _____	Nameplate Rating _____	kW	\$0
1202	b. _____			0
	TOTAL GENERATION.....			\$0
1300	4. HEADQUARTERS FACILITIES			
1301	a. New or additional Facilities	(Attach RUS Form 740g) _____		\$0
1302	b. _____			0
	TOTAL HEADQUARTERS FACILITIES.....			\$0

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		\$16,438,000	
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		\$16,438,000	
4. RUS LOAN REQUESTED FOR FACILITIES.....	100%	\$16,438,000	
5. TOTAL SUPPLEMENTAL LOAN REQUESTED		\$0	
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%	\$0	
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:

- 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.
- 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.
- 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.

Date

Signature of Borrower's Manager

Date

Signature of Borrower's President

Grayson RECC
Corporate Name of Borrower

GFR Initials

Attachment to 740c
Grayson RECC, Kentucky 61 Carter

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,
Grayson RECC
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).

Date

Title:

Certification

740c - Total

KENTUCKY 61 Carter
Grayson Rural Electric Cooperative Corporation
2009-2012 Construction Work Plan

NEW CONSTRUCTION (Code 100)

RUS Code	General Description	Number	Miles	2009	2010	2011	2012	Estimated Cost	Loan Funds
100	New Underground Lines	192	3.29	\$142,381	\$158,185	\$166,094	\$174,399	\$641,059	\$641,059
100	New Overhead Lines	1,408	77.14	\$1,103,807	\$1,092,467	\$1,147,090	\$1,204,445	\$4,547,809	\$4,547,809
100 TOTAL NEW CONSTRUCTION		1,600	80.43	\$1,246,188	\$1,250,652	\$1,313,184	\$1,378,844	\$5,188,868	\$5,188,868

DISTRIBUTION LINE CONVERSIONS (Code 300)

RUS Code	General Description	Miles	2009	2010	2011	2012	Estimated Cost	Loan Funds	
AIRPORT ROAD									
Feeder 2									
304	Reconductor 1-ph 4 ACSR to 3-ph 1/0 ACSR (Modified Carry-Over)	3.50	\$223,810				\$223,810	\$223,810	
371	Reconductor 2-ph & 1-ph 6A CWC to 3-ph 1/0 ACSR	3.20			\$225,600		\$225,600	\$225,600	
ARGENTUM									
Feeder 2									
321	Reconductor 1-ph 6A CWC to 3-ph 1/0 ACSR (Modified Carry-Over)	2.60			\$183,300		\$183,300	\$183,300	
CARTER CITY									
Feeder 1									
373	Reconductor 1-ph 6A CWC to 3-ph 1/0 ACSR	2.20		\$147,710			\$147,710	\$147,710	
374	Reconductor 1-ph 6A CWC to 3-ph 1/0 ACSR	3.20	\$204,620				\$204,620	\$204,620	
375	Reconductor 1-ph 1/0 ACSR to 3-ph 1/0 ACSR	2.00				\$148,050	\$148,050	\$148,050	
Feeder 2									
376	Reconductor 1-ph 6A CWC to 3-ph 1/0 ACSR	1.85				\$136,950	\$136,950	\$136,950	
ELLIOTVILLE									
Feeder 1									
377	Reconductor 1-ph 4 ACSR to 3-ph 1/0 ACSR	3.00		\$201,430			\$201,430	\$201,430	
378	Reconductor 1-ph 6A CWC to 3-ph 1/0 ACSR	3.00			\$211,500		\$211,500	\$211,500	
379	Construct double circuit 3/0 ACSR parallel with Circuit 1	1.70	\$275,510				\$275,510	\$275,510	
Feeder 3									
380	Reconductor 1-ph 1/0 ACSR to 3-ph 1/0 ACSR	5.00	\$319,730				\$319,730	\$319,730	
381	Reconductor 1-ph 4 ACSR to 3-ph 1/0 ACSR	2.00		\$134,280			\$134,280	\$134,280	
LOW GAP									
Feeder 3									
383	Reconductor 1-ph 6A CWC to 2-ph 1/0 ACSR	1.60		\$101,130			\$101,130	\$101,130	

740c - Total

DISTRIBUTION LINE CONVERSIONS (Code 300 continued)

RUS Code	General Description	Miles	2009	2010	2011	2012	Estimated Cost	Loan Funds
MAZIE								
384	Feeder 2 Reconductor 1-ph 4 ACSR to 2-ph 1/0 ACSR	1.20			\$79,640		\$79,640	\$79,640
385	Reconductor 1-ph 1/0 ACSR to 2-ph 1/0 ACSR	1.50		\$94,810			\$94,810	\$94,810
WARNOCK								
334 & 335	Feeder 1 Reconductor 1-ph 6A CWC to 3-ph 1/0 ACSR (Modified Carry-Over)	5.00	\$319,730				\$319,730	\$319,730
300 TOTAL DISTRIBUTION LINE CONVERSIONS		42.55	\$ 1,343,400	\$ 679,360	\$ 700,040	\$ 285,000	\$ 3,007,800	\$ 3,007,800

MISCELLANEOUS DISTRIBUTION ITEMS (Code 600)

RUS Code	General Description	Number	2009	2010	2011	2012	Estimated Cost	Loan Funds
601	TRANSFORMERS FOR NEW MEMBERS Padmount Pole Mount	192 1,408	\$89,952 \$397,760	\$94,464 \$348,832	\$99,168 \$366,080	\$104,160 \$384,384	\$387,744 \$1,497,056	\$387,744 \$1,497,056
601	TRANSFORMERS REPLACEMENTS Padmount Pole Mount	0 828	\$0 \$233,910	\$0 \$245,502	\$0 \$257,922	\$0 \$270,756	\$0 \$1,008,090	\$0 \$1,008,090
601	METERS FOR NEW MEMBERS	1,600	\$59,600	\$62,400	\$65,600	\$68,800	\$256,400	\$256,400
602	SERVICE UPGRADES FOR EXISTING MEMBERS Padmount Pole Mount	0 388	\$0 \$172,854	\$0 \$181,487	\$0 \$190,605	\$0 \$200,111	\$0 \$745,057	\$0 \$745,057
603	SECTIONALIZING EQUIPMENT	45	\$ 70,020	\$ 54,630	\$ 59,810	\$ 28,840	\$ 213,300	\$ 213,300
AIRPORT ROAD								
603-1	Feeder 2 Remove 1ph 50-4H Add (3) single-phase 35-4H	3	\$15,770				\$15,770	\$15,770
603-2	Install (3) single-phase 70-4H Install (1) single-phase 35-4H	4			\$18,720		\$18,720	\$18,720
603-3	ARGENTUM Feeder 2 Remove 1ph 50-4H Add (3) single-phase 25-4H	3			\$17,380		\$17,380	\$17,380
603-4	CARTER CITY Feeder 1 Add (2) single-phase 70-4H	2		\$9,490			\$9,490	\$9,490
603-5	Install (3) single-phase 50-4H install (1) single-phase 25-4H	4	\$16,980				\$16,980	\$16,980
603-6	Install (3) single-phase 35-4H	3				\$14,420	\$14,420	\$14,420
603-7	CARTER CITY Feeder 2 Install (3) single-phase 35-4H	3				\$14,420	\$14,420	\$14,420

740c - Total

MISCELLANEOUS DISTRIBUTION ITEMS (Code 600-Continued)

RUS Code	General Description	Number	2009	2010	2011	2012	Estimated Cost	Loan Funds
ELLIOTVILLE								
603-8	Feeder 1 Install (3) single-phase 35-4H	3		\$13,080			\$13,080	\$13,080
603-9	Install (3) single-phase 50-4H	3			\$13,740		\$13,740	\$13,740
603-10	Feeder 3 Remove 1ph 35-4H Add (3) single-phase 70-4H	3	\$15,770				\$15,770	\$15,770
603-11	Install (3) single-phase 70-4H	3		\$13,080			\$13,080	\$13,080
LOW GAP								
603-13	Feeder 3 Add (2) single-phase 50-4H	2		\$9,490			\$9,490	\$9,490
MAZIE								
603-14	Feeder 2 Install (2) single-phase 50-L	2			\$9,970		\$9,970	\$9,970
603-15	Install (2) single-phase 35-4H	2		\$9,490			\$9,490	\$9,490
WARNOCK								
603-17	Feeder 1 Install (3) single-phase 50-4H Install (2) single-phase 25-4H	5	\$21,500				\$21,500	\$21,500
604	LINE REGULATORS	9	\$ 110,040	\$ 27,210	\$ -	\$ 13,400	\$ 150,650	\$ 150,650
CARTER CITY								
604-2	Feeder 1 Install a 1-ph 50 Amp regulator	1		\$12,160			\$12,160	\$12,160
604-3	Install a 1-ph 50 Amp regulator	1				\$13,400	\$13,400	\$13,400
604-4	Install a 1-ph 50 Amp regulator	1	\$11,580				\$11,580	\$11,580
ELLIOTTVILLE								
604-5	Feeder 1 Remove 100 Amp regulator	1		\$2,890			\$2,890	\$2,890
604-7	Feeder 3 Install a 1-ph 50 Amp regulator	1	\$11,580				\$11,580	\$11,580
604-8	Remove a 3-ph 100 Amp regulator Add a 3-ph 50 Amp regulator	1	\$37,490				\$37,490	\$37,490
604-9	Relocate a 3-ph 219 Amp regulator	1	\$4,520				\$4,520	\$4,520
604-13	Install a 3-ph 100 Amp regulator	1	\$40,350				\$40,350	\$40,350

740c - Total

MISCELLANEOUS DISTRIBUTION ITEMS (Code 600-Continued)

RUS Code	General Description	Number	2009	2010	2011	2012	Estimated Cost	Loan Funds
PELFREY								
Feeder 1								
604-10	Install a 1-ph 50 Amp regulator	1		\$12,160			\$12,160	\$12,160
WARNOCK								
Feeder 3								
604-12	Relocate a regulator	0	\$4,520				\$4,520	\$4,520
606	POLE REPLACEMENTS	1,512	\$845,586	\$887,922	\$932,526	\$979,020	\$3,645,054	\$3,645,054
600 TOTAL MISC. DISTRIBUTION ITEMS			\$1,979,722	\$1,902,447	\$1,971,711	\$2,049,471	\$7,903,351	\$7,903,351

OTHER DISTRIBUTION ITEMS (Code 700)

RUS Code	General Description	Number	2009	2010	2011	2012	Estimated Cost	Loan Funds
701	SECURITY LIGHTS	800	\$78,600	\$82,400	\$86,600	\$90,800	\$338,400	\$338,400
700 TOTAL OTHER DISTRIBUTION ITEMS			\$78,600	\$82,400	\$86,600	\$90,800	\$338,400	\$338,400

TOTAL (740c)			\$4,647,910	\$3,914,859	\$4,071,535	\$3,804,115	\$16,438,419	\$16,438,419
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EXECUTIVE SUMMARY

Purpose of Report

This 2009 - 2012 Construction Work Plan (CWP) documents the engineering analysis and proposed system improvements required for Grayson Rural Electric Cooperative Corporation (GRECC) to provide satisfactory and reliable service to its customers through the winter peak of 2011-2012. R. W. Beck, Inc. (Consultant) was retained to assist GRECC in the preparation of the CWP. Included within is engineering support for a loan application to RUS to finance the proposed construction program. The engineering support includes descriptions, estimated costs, and justification of required new facilities and facility improvements.

Service Area and Power Supply

GRECC provides service to approximately 15,600 customers located in all or parts of Carter, Rowan, Lawrence, Greenup, Lewis, and Elliot Counties in northeastern Kentucky. GRECC purchases power from the East Kentucky Power Cooperative (EKPC) at all thirteen delivery points. GRECC distributes power at a primary voltage of 12.47/7.2 kV over approximately 2,453 miles of distribution lines. The distribution system consists of 2,420 miles of overhead distribution lines and 33 miles of underground distribution lines.

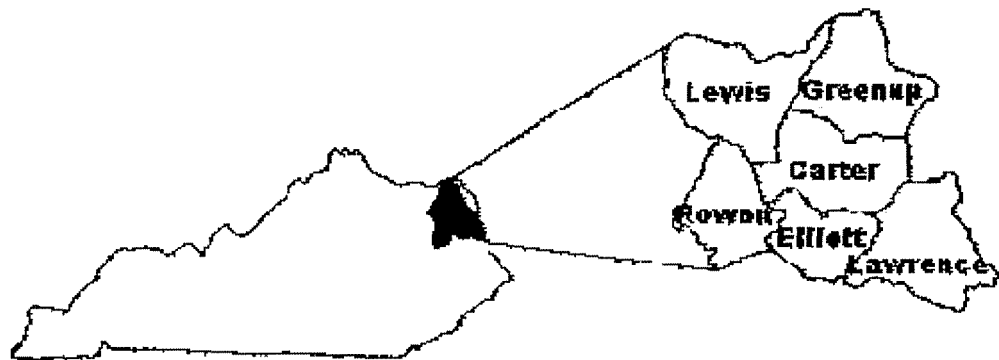


Figure ES-1: Location Map

EXECUTIVE SUMMARY

GRECC distributes power from thirteen 69-12.47 kV substations throughout the service area. All of the substations are owned, operated and maintained by EKPC. From the EKPC substations, all 41 distribution circuits are constructed for and operated at 12.47/7.2 kV. Installed overhead conductor sizes range from #8A CWC to 397 kcmil ACSR and #2 AL to 1/0 AL for underground primary. A tabulation of general operating statistics for the calendar years 2006 and 2007 from RUS Form 7 are shown in Table ES-1.

Table ES-1
General System Operating Statistics

	2006	2007
Miles of Distribution Line	2,437	2,453
Year-End consumers per Month Served	15,546	15,611
Consumers per Mile	6.4	6.4
Average Residential Consumption (kWh/mo)	1,340	1,432
Total MWh Purchased	265,607	282,214
Total MWh Sold ⁽¹⁾	250,083	268,972
Percent System Losses	5.8%	4.9%

Note:
Does not include own use.

Results of Proposed Construction

On completion of the proposed construction program, the system will adequately serve the 2011–2012 winter peak load of 83 MW as projected in the 2008 Load Forecast (LF) prepared by EKPC. The CWP was prepared to provide adequate and dependable service to 16,435 residential, commercial, and industrial customers with total annual sales of 289,755 MWh in 2012.

A detailed description of the proposed system improvements is given in Section 2. This CWP includes carryovers from the previous 2004–2007 CWP. The proposed system improvements are identified in the 740c Detail following the RUS 740c Form and are summarized in Table ES-2.

Table ES-2
System Improvements and Additions Summary

RUS Code	Item	Estimated Cost
100	New Construction	\$5,188,900
200	New Tie Lines	\$0
300	Line Conversions	\$3,007,800
400	New Substations	\$0
500	Substation Improvements	\$0
600	Miscellaneous Distribution Equipment	\$7,903,400
700	Other Distribution Equipment	\$338,400
Total CWP Improvements		\$16,438,500

General Basis of Study

The projected 2011–2012 winter system peak load and number of customers served used in this report were based on the 2008 LF prepared by EKPC. GRECC's load projections and recommendations were reviewed and generally found to be adequate for the CWP planning period. All of the construction proposed herein is consistent with the LF unless otherwise noted and explained. A copy of the 2008 LF is given in Appendix A of this report.

GRECC's 2007 operations and maintenance review (Review Rating Summary, RUS 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 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, EKPC.

Details and estimated costs of the line and equipment changes and the additional requirements to serve 626 new residential, commercial, and industrial customers during the work plan period are included in Section 2. An estimated cost of necessary service upgrades to existing customers is also included in Section 2.

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 Integrated Solutions, Inc.'s Windmil™ software was used to analyze the distribution circuits for the projected 2011–2012 winter peak load of 83 MW. A sample printout from the software is given in Appendix B. The economic conductor selection is given

EXECUTIVE SUMMARY

in Section 3. When applicable, alternate solutions were investigated and economically evaluated so the most cost effective construction could be proposed.

In the preparation of this Report, including the opinions contained herein, the Consultant has made certain assumptions and used certain considerations with respect to conditions which may occur in the future. While the Consultant believes these considerations and assumptions are reasonable and reasonably attainable based upon conditions known to us as of the date of this Report, they are dependent upon future events and actual conditions may differ from those assumed. In addition, the Consultant has used and relied upon certain information provided by others. To the extent actual future conditions differ from those assumed herein or from the assumptions provided by others, the actual results will vary from those estimated. In addition, field conditions encountered during design will impact some of the projects.

SECTION 1

BASIS OF STUDY AND PROPOSED CONSTRUCTION

1.1 Design Criteria

Construction proposed herein is required to meet the following minimum standards of adequacy for voltages, thermal loading, safety, and reliability on the system.

1. The maximum voltage drop on primary distribution lines is not to exceed 8 volts after regulation to 126 volts on a 120-volt base.
2. The following equipment is not to be thermally loaded by more than the percentage shown of its nameplate rating:
 - 100% Substation Transformer of EKPC's calculated rating
 - 100% Line Voltage Regulators
 - 100% Oil Circuit Reclosers
 - 100% Line Fuses
3. The calculated winter and summer capacity for power transformers are based on 2008 EKPC data. The ratings are given in Exhibit 1.
4. Primary conductors were reviewed and recommended for reconductoring if loaded over 80% of their calculated thermal rating.
5. Primary distribution lines are to be recondotored from single-phase to three-phase if loading exceeds 50 amps on single-phase lines. This is due to the limited fuse size that can be used on downstream taps for proper coordination with reclosers.
6. Poles and/or crossarms are to be replaced if found to be physically deteriorated by visual inspection and/or tests.
7. Overhead conductors, associated poles, and hardware as required, are to be replaced if conductor is old, in poor condition, and has excessive sag.
8. Primary distribution lines are to be rebuilt and/or relocated if they are found to be unsafe or in violation of the National Electrical Safety Code or other applicable code clearances when originally constructed.
9. New lines and line conversions are to be built according to the standard primary voltage level as recommended in the Long Range Plan.

Section 1

10. New primary conductor sizes to be determined on a case-by-case basis using the economic conductor sizing and presently known constants and variables. The final proposed conductor may be modified to conform with the cooperative's standard sizes.
11. All new primary construction is to be overhead except where underground is required to comply with governmental or environmental regulations, local restrictions, favorable economics, or by consumer's request with an aid to construction contribution.
12. All new distribution lines to be designed and built according to RUS standard construction specifications and guidelines.
13. Three-phase and single-phase copperweld copper lines are to be replaced on a systematic basis based on past reliability factors and future voltage and current requirements.

1.2 Distribution Line and Equipment Costs

The distribution line and equipment costs are given in Tables 1-1 and 1-2. The costs were estimated based on recent trends in the escalation of the cost of materials and labor. They include material, installation, engineering, and overheads.

**Table 1-1
Distribution Line (Installed Cost)**

Distribution Lines	2008 Estimated Cost (\$/mile)
New Lines	
3 ϕ 397 kcmil ACSR	\$148,000
3 ϕ 336 kcmil ACSR	\$135,000
3 ϕ #3/0 kcmil ACSR	\$98,000
3 ϕ #1/0 ACSR	\$75,000
1 ϕ #1/0 ACSR	\$50,000
1 ϕ #2 ACSR	\$46,000
Line Reconductor	
3 ϕ 397 kcmil ACSR	\$106,000
3 ϕ 336 kcmil ACSR	\$96,000
3 ϕ 3/0 ACSR	\$72,000
3 ϕ #1/0 ACSR	\$58,000
V ϕ #1/0 ACSR	\$54,600

BASIS OF STUDY AND PROPOSED CONSTRUCTION

**Table 1-1
Distribution Line (Installed Cost)**

Distribution Lines	2008 Estimated Cost (\$/mile)
1 ϕ #3/0 ACSR	\$46,000
1 ϕ #1/0 ACSR	\$35,000
1 ϕ #2 ACSR	\$33,000

**Table 1-2
Distribution Equipment (Installed Cost)**

Distribution Equipment	2008 Estimated Cost
Line Regulators	
Line Regulator – 50 amp, 1 ϕ	\$10,500
Line Regulator – 100 amp, 3 ϕ	\$36,600
Line Regulator – 219 amp, 3 ϕ	\$46,400
Line Regulator – 328 amp, 3 ϕ	\$67,300
Relocate Regulator Bank	\$4,100
Remove Regulator Bank	\$2,500
Line Regulators	
(1) 1 ϕ recloser	\$4,100
(3) 1 ϕ recloser	\$11,300
(1) 3 ϕ recloser	\$33,200
Relocate (1) recloser	\$4,800
Remove (1) recloser	\$3,000
Reclosers	
(1) 1 ϕ recloser	\$4,100
(3) 1 ϕ recloser	\$11,300
(1) 3 ϕ recloser	\$33,200
Relocate (1) recloser	\$4,800
Remove (1) recloser	\$3,000

1.3 Status of Previous CWP Items

The previous work plan was prepared for the 2004–2007 construction period. Approximately 50% of the projects in this plan were completed, and 25% were cancelled based on amendments or the issues identified did not materialize. Approximately 20% of the 2004–2007 CWP projects will be designated as a carry-over for the 2009–2012 CWP and 5% are in-progress. The status of each project is summarized in Exhibit 2 based on the following:

- Carry-Over Project will be a carry-over in the 2009–2012 CWP
- Complete Project has been completed
- Cancelled Project was cancelled.

1.4 Analysis of Current System Studies

1.4.1 2008 Load Forecast

EKPC prepared the 2008 Load Forecast (LF), which details the forecasted system coincident peak loads through 2027. The 2008 LF was based on the 2008 winter peak load of 75.2 MW, an average annual customer growth of 1.0%, and a growth of energy sales of 1.8%. A copy of the 2008 LF is attached in Appendix A.

From discussions with GRECC and the RUS representative, the extreme projections appeared to be more aggressive, initially, than the expectations due to the economy slow-down. Additionally, the normal projections appeared to be on the low side of load growth expectations. As a result, the projected load was adjusted to reflect an initial load growth in between the normal and extreme projections from the 2008 LF, and a long-term growth over both of the normal and extreme projections from the 2008 LF. The load forecast forms the basis for project development in the 2009-2012 CWP and the 2008 Long Range Plan (LRP), which were prepared concurrently. Figure 1-1 presents the revised winter projections with comparisons to the normal load forecast and extreme (1 in 5 years) load forecast from the 2008 LF.

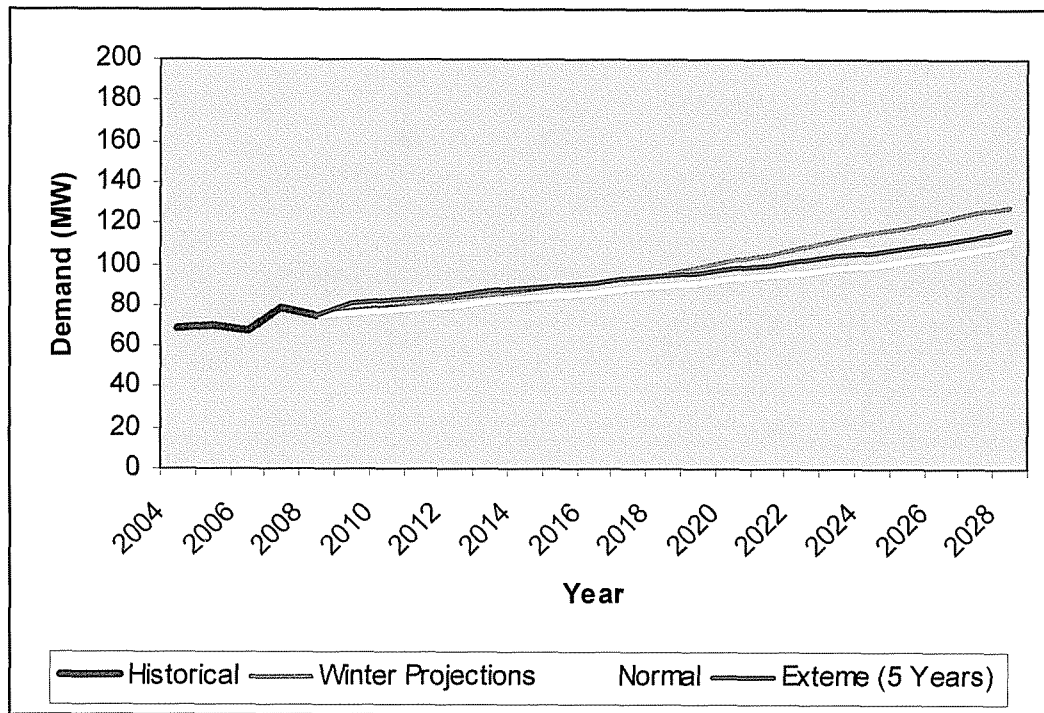


Figure 1-1 Historical and Projected System Peak Demands

1.4.2 2007 Operations and Maintenance Survey

The Form 300 operations and maintenance review was performed by GRECC and the RUS field representative in May of 2007. RUS Form 300 is located in Exhibit 4. The review indicated a satisfactory rating in all areas except the following, which received an acceptable rating.

- Distribution Lines – Overhead: Compliance with Safety Codes (Attachments)
- Distribution Lines – Overhead: Observed Physical Condition from Field Checking (Right-of-Way)
- Distribution Line Equipment – Conditions and Records: Voltage Regulators
- Distribution Line Equipment – Conditions and Records: Sectionalizing Equipment

1.4.3 Sectionalizing Studies

GRECC will analyze the protection schemes of all new or significantly changed circuits due to CWP projects. Upon completion of the analyses, a list is prepared of reclosers, fuses, and other devices required to adequately protect the circuits investigated. This list of protection equipment additions and changes, and its estimated installed cost required for the next planning period, is included in Section 2 of this CWP.

1.5 Historical and Projected System Data

1.5.1 Annual Energy, Load, and Consumer Data

A summary of the annual energy, demand, and consumer information is given in Table 1-3. The historical data provided was taken from GRECC data. Projections for the 2011–2012 CWP winter design load of 83 MW were based on the 2008 Load Forecast Report. The total projected system load, given in Exhibit 3, was allocated to individual substations based on GRECC’s knowledge of the system, historical loading, and known future development.

BASIS OF STUDY AND PROPOSED CONSTRUCTION

**Table 1-3
Historical and Projected Annual Energy, Demand, and Consumer Data**

Calendar Year	Energy Purchased (MWh)	Energy Sold ⁽²⁾		Energy Loss		Non-Coincident Peak Demand ⁽³⁾		Percent Increase	Annual Load Factor	Number of Customers ⁽⁴⁾	
		(MWh)	Percent Increase	(MWh)	Percent of Purchases	Season	(kW)			Average ⁽⁵⁾	Percent Increase
2003	252,309	241,913	-0.6%	10,395	4.1%	Winter	64.5		46.5	14,827	1.0%
2004	263,552	246,214	1.8%	17,338	6.6%	Winter	68.7	6.5%	44.4	15,113	1.9%
2005	277,814	261,432	6.2%	16,382	5.9%	Winter	70.4	2.5%	49.3	15,302	1.3%
2006	265,607	250,083	-4.3%	15,524	5.8%	Winter	67.2	-4.5%	46.7	15,517	1.4%
2007	282,214	268,266	7.3%	13,947	4.9%	Winter	79.1	17.7%	52.6	15,631	0.1%
2008	286,214	270,187	0.1%	16,027	5.6%	Winter	75.2	-4.9%	42.6	15,788	1.0%
2009	290,840	274,824	1.8%	16,016	5.6%	Winter	77.0	2.4%	43.7	15,928	0.9%
2010	295,784	279,220	1.6%	16,564	5.6%	Winter	79.0	2.6%	43.7	16,089	1.0%
2011	300,776	283,933	1.7%	16,843	5.6%	Winter	81.0	2.5%	43.7	16,257	1.0%
2012	306,944	289,755	2.1%	17,189	5.6%	Winter	83.0	2.5%	43.7	16,435	1.1%

Notes:

1. Historical and projected data based on 2008 LF.
2. Does not include own use.
3. Non-coincident peak for the system is the sum of the metered substation coincident peaks.
4. Average number of customers for projected CWP period was based on LF projections.
5. Includes residential, small commercial and large commercial customers.

1.6 Substation Load Data

GRECC distributes power from thirteen 69-12.47 kV substations owned, operated, and maintained by EKPC. Table 1-4 summarizes the existing GRECC substations, configuration, voltage, and capacity. Historical winter substation demands and power factor are shown in Table 1-5. The substations are listed in Table 1-7 with the calculated capacity and projected substation peak demands. During the existing and projected winter, none of the substation transformers or regulators exceeded their ratings.

The total installed substation transformer calculated capacity for the GRECC system is approximately 165.4 MVA based on the current configuration and location of the transformers. The calculated transformer capacity is 220% greater than the winter coincident system peak of 75.2 MW.

**Table 1-4
Substation Voltages and Capacities**

Substation	Voltage (kV)	Total Transformer Capacity (MVA)	Cal. Winter Transformer Capacity ⁽¹⁾ (MVA)	Cal. Winter Regulator Capacity ⁽¹⁾⁽²⁾ (MVA)
Airport Road	69-12.47	5.60	7.80	7.50
Argentum	69-12.47	14.00	18.30	23.40
Carter City	69-12.47	14.00	18.30	15.10
Elliottville	69-12.47	11.20	15.70	15.10
Leon	69-12.47	6.44	8.40	23.40
Low Gap	69-12.47	5.75	7.50	15.10
Mazie	69-12.47	5.60	7.80	15.10
Newfoundland	69-12.47	11.20	15.70	15.10
Pactolus	69-12.47	14.00	18.30	23.40
Pelfrey	69-12.47	5.60	7.80	15.10
Prison	69-12.47	11.20	15.70	23.40
Sandy Hook	69-12.47	6.44	8.40	15.10
Warnock	69-12.47	11.20	15.70	15.10

Notes:

1. Ratings provided by EKPC as shown in Exhibit 1.
2. In some cases, the available calculated regulator capacity is less than the transformer calculated capacity, limiting the capacity of the substation.

**Table 1-5
Historical Winter Substation Demands**

Substation	Cal. Winter Capacity ⁽¹⁾ (MVA)	Non-Coincident Peak ⁽²⁾ (MW)	Power Factor @ Peak ⁽²⁾	Percent Loaded ⁽³⁾
Airport Road	7.50	4.06	99%	54.7%
Argentum	18.30	6.14	100%	33.6%
Carter City	15.10	6.13	99%	41.0%
Elliottville	15.10	9.57	94%	67.4%
Leon	8.40	4.22	99%	50.7%
Low Gap	7.50	5.78	99%	77.8%
Mazie	7.80	4.64	99%	60.1%
Newfoundland	15.10	5.68	99%	38.0%
Pactolus	18.30	11.19	99%	61.8%
Pelfrey	7.80	4.68	99%	60.6%
Prison	15.70	2.08	99%	13.4%
Sandy Hook	8.40	6.77	99%	81.4%
Warnock	15.10	5.81	99%	38.9%

Notes:

1. Based on ratings provided by EKPC and either the calculated substation transformer rating or the calculated regulator rating, depending on the capacity limiting factor.
2. Peak demand and power factor based on historical metered data provided by EKPC for February 2008.
3. Loading percentage stated as non-coincident peak and power factor to the calculated rating.

1.7 Circuit Loads

The distribution system is served through (41) 12.47/7.2 kV substation reclosers. The recloser continuous current rating and the conductor capacity of the backbone conductors on the feeder are compared to the winter peak feeder loads in Table 1-6. The winter peak feeder loads were calculated based on the engineering model load flow results for the metered substation peak allocation. Based on the existing peak loads from the distribution system model, none of the substation reclosers exceeded the rated capacity. None of the first line sections exceeded the rated capacity.

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**Table 1-6
Recloser and Feeder Capacity at 2008 Winter Peak**

Substation /Feeder	Load ⁽¹⁾ (MW)	Power Factor @ Peak ⁽²⁾	Recloser Rating (MVA)	Percent Recloser Loading	Backbone Conductor ⁽³⁾	Percent Conductor Loading ⁽³⁾
Airport Road						
1	2.06	99%	12.9	16.1%	3/0 ACSR	19.2%
2	0.34	99%	12.9	2.7%	3/0 ACSR	31.6%
3	1.53	99%	12.9	12.0%	3/0 ACSR	8.5%
Argentum						
1	2.30	100%	12.9	17.8%	1/0 ACSR	43.9%
2	1.04	100%	12.9	8.1%	1/0 ACSR	18.5%
3	3.28	100%	12.9	25.4%	1/0 ACSR	54.5%
Carter City						
1	0.72	99%	12.9	5.6%	3/0 ACSR	32.3%
2	2.11	99%	12.9	16.5%	3/0 ACSR	26.4%
3	3.34	99%	12.9	26.2%	336 ACSR	11.4%
4	1.90	99%	12.9	14.9%	3/0 ACSR	12.9%
Elliottville						
1	0.72	94%	12.9	5.9%	1/0 ACSR	65.6%
2	1.44	94%	12.9	11.9%	1/0 ACSR	53.2%
3	1.18	94%	12.9	9.7%	3/0 ACSR	55.3%
Leon						
1	2.46	99%	12.9	19.3%	1/0 HD CU	16.0%
2	0.08	99%	12.9	0.6%	3/0 ACSR	21.8%
3	3.15	99%	12.9	24.7%	3/0 ACSR	24.2%
Low Gap						
1	2.46	99%	12.9	19.3%	3/0 ACSR	5.9%
2	0.08	99%	12.9	0.6%	3/0 ACSR	47.7%
3	3.15	99%	12.9	24.7%	3/0 ACSR	30.5%
Mazie						
1	1.44	99%	12.9	11.3%	3/0 ACSR	13.4%
2	2.64	99%	12.9	20.7%	397 ACSR	24.9%
3	0.00	99%	12.9	0.0%	3/0 ACSR	4.4%
Newfoundland						
1	2.88	99%	12.9	22.6%	3/0 ACSR	59.1%
2	0.72	99%	12.9	5.6%	1/0 ACSR	10.9%
3	1.23	99%	12.9	9.6%	3/0 ACSR	2.3%
4	0.18	99%	12.9	1.4%	3/0 ACSR	15.1%
Pactolus						
1	4.55	99%	12.9	35.6%	1/0 HD CU	68.7%
2	2.99	99%	12.9	23.4%	397 ACSR	17.8%

BASIS OF STUDY AND PROPOSED CONSTRUCTION

**Table 1-6
Recloser and Feeder Capacity at 2008 Winter Peak**

Substation /Feeder	Load ⁽¹⁾ (MW)	Power Factor @ Peak ⁽²⁾	Recloser Rating (MVA)	Percent Recloser Loading	Backbone Conductor ⁽³⁾	Percent Conductor Loading ⁽³⁾
3	1.97	99%	12.9	15.4%	397 ACSR	20.9%
4	6.23	99%	12.9	48.8%	397 ACSR	14.1%
Pelfrey						
1	1.37	99%	12.9	10.7%	3/0 ACSR	47.2%
2	3.05	99%	12.9	23.9%	3/0 ACSR	21.9%
Prison						
1	3.23	99%	12.9	25.3%	--	--
Sandy Hook						
1	0.99	99%	12.9	7.8%	3/0 ACSR	32.5%
2	3.29	99%	12.9	25.8%	3/0 ACSR	46.7%
3	2.03	99%	12.9	15.9%	3/0 ACSR	21.6%
4	0.00	99%	12.9	0.0%	--	--
Warnock						
1	1.82	99%	12.9	14.3%	2 ACSR	40.9%
2	8.31	99%	12.9	65.1%	3/0 ACSR	0.7%
3	1.71	99%	12.9	13.4%	3/0 ACSR	32.6%
4	2.08	99%	12.9	16.3%	336 ACSR	15.22%

Notes:

1. Calculated based on the metered peak substation loads from EKPC for February 2008 and the engineering model.
2. Power factor based on historical metered data provided by EKPC for February 2008 for each substation.
3. Based on the engineering model.

A review of Table 1-7 provides an overview of the existing transformer or regulator capacity compared to the projected CWP design load in 2012. At the 2012 projected peak, none of the transformers or regulators exceeds the 100% loading planning criteria.

**Table 1-7
Existing Substation Capacity and Loading**

Substation /Feeder	Peak Load (MW)			
	Cal. Winter Capacity ⁽¹⁾ (MVA)	Projected 2012 ⁽²⁾	Power Factor @Peak ⁽³⁾	Percent Loaded ⁽⁴⁾
Airport Road	7.50	4.45	99%	59.9%
Argentum	18.30	6.74	100%	36.8%
Carter City	15.10	6.73	99%	45.0%
Elliottville	15.10	10.74	94%	75.7%

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Substation /Feeder	Peak Load (MW)			
	Cal. Winter Capacity ⁽¹⁾ (MVA)	Projected 2012 ⁽²⁾	Power Factor @Peak ⁽³⁾	Percent Loaded ⁽⁴⁾
Leon	8.40	4.53	99%	54.5%
Low Gap	7.50	6.34	99%	85.4%
Mazie	7.80	5.10	99%	66.0%
Newfoundland	15.10	6.23	99%	41.7%
Pactolus	18.30	12.62	99%	69.7%
Pelfrey	7.80	5.13	99%	66.4%
Prison ⁽⁴⁾	15.70	2.28	99%	14.7%
Sandy Hook	8.40	7.43	99%	89.3%
Warnock	15.10	6.38	99%	42.7%

Notes:

1. Based on ratings provided by EKPC and either the calculated substation transformer rating or the calculated regulator rating, depending on the capacity limiting factor.
2. Projected demand based on the 2008 LF projections.
3. Power factor based on historical metered data provided by EKPC for February 2008.
4. Loading percentage stated as load projection and power factor to the calculated rating.

The GRECC electric system was modeled on Milsoft Integrated Solutions, Inc.'s Windmil™ software. Load data were obtained from the GRECC member billing information. Load-flows were prepared to provide information such as the percent conductor loading to its capacity, calculated line losses, and voltage drop along line sections. The load-flow information from the computer model was compared to the criteria outlined in this report. Recommendations were then based on these results.

Each of the 41 circuits was analyzed with respect to adequate voltage and loading conditions. The computer analysis of the 2008 winter system peak revealed:

- Voltage levels less than 118 Volts in line sections in all of the substations, with the exception of Leon.
- Conductor loading greater than 80% in line sections in all of the substations.
- Greater than 50 Amps on single-phase line sections in all of the substations, with the exception of Argentum and Pelfrey.

Computer analysis of the projected 2011-2012 winter system peak revealed:

- Voltage levels lower than 118 Volts in line sections in all of the substations, with the exception of Leon.
- Conductor loading greater than 80% in line sections in all of the substations.
- Greater than 50 Amps on single-phase line sections in all of the substations.

1.8 System Outages

A summary of the outages experienced by GRECC for the last five years is given in Table 1-8. The five-year average annual outage hours per customer is 3.46 hours. RUS suggests a system goal for outages of less than two hours per customer in rural areas and one hour in urban areas. GRECC's goal is to improve system reliability and keep the average outage hours per customer below the recommended guideline.

Table 1-8
Service Interruption Summary
Average Hours per Consumer by Cause

Year	Power Supplier	Extreme Storm	Prearranged	Others	Total
2003	0.00	0.89	0.00	1.93	2.82
2004	1.27	0.01	0.00	2.91	4.19
2005	0.03	0.43	0.15	2.68	3.29
2006	0.00	1.52	0.41	2.45	4.38
2007	0.00	0.34	0.35	1.94	2.63
5 Yr. Avg.	0.26	0.64	0.18	2.38	3.46

Note:
 From RUS Form 300.

Section 2

REQUIRED CONSTRUCTION ITEMS

The required 2009–2012 CWP items are discussed in this section. The design criteria as given in Section 1 were used as a guide to identify potential CWP items for evaluation. Load-flow, voltage drop, and where appropriate, economic analysis was performed to support the recommended CWP items.

2.1 Service to New Members

Historical information was reviewed for a 24-month period from calendar years 2006 and 2007 to project new member service requirements for the CWP period. The historical number of members was not increased approximately for the 2009–2012 CWP period. However, the historical costs were inflated by 5% per year.

Table 2-1
Construction Required to Serve New Members

Estimated 48-Month Work Plan Period						
New Members - System Wide	Average 2006-2007	2008	2009	2010	2011	TOTAL
Number of New Services						
Underground	48	48	48	48	48	192
Overhead	<u>348</u>	<u>352</u>	<u>352</u>	<u>352</u>	<u>352</u>	<u>1,408</u>
Total New Services	396	400	400	400	400	1,600
Linear Feet of New Underground Line						
Primary	273	273	273	273	273	1,092
Secondary	90	90	90	90	90	360
Service Drop	<u>3,975</u>	<u>3,975</u>	<u>3,975</u>	<u>3,975</u>	<u>3,975</u>	<u>15,900</u>
Subtotal	4,338	4,338	4,338	4,338	4,338	17,352
Average Length in Feet/UG Member	90.4	90.4	90.4	90.4	90.4	90.4
Linear Feet of New Overhead Line						
Primary	75,233	75,233	75,233	75,233	75,233	300,932
Secondary	192	192	192	192	192	768
Service Drop	<u>26,396</u>	<u>26,396</u>	<u>26,396</u>	<u>26,396</u>	<u>26,396</u>	<u>105,584</u>
Subtotal	101,821	101,821	101,821	101,821	101,821	407,284
Average Length in Feet/OH Member	292.6	289.3	289.3	289.3	289.3	289.3



Section 2

**Table 2-1
Construction Required to Serve New Members**

Estimated 48-Month Work Plan Period						
New Members - System Wide	Average 2006-2007	2008	2009	2010	2011	TOTAL
Total New Line (Linear Feet)	106,159	106,159	106,159	106,159	106,159	424,636
Cost of New Line						
Underground	\$136,646	\$142,381	\$158,185	\$166,094	\$174,399	\$641,059
Average Cost/UG Member	\$2,877	\$2,966	\$3,296	\$3,460	\$3,633	\$3,339
Overhead	\$943,714	\$1,103,807	\$1,092,467	\$1,147,090	\$1,204,445	\$4,547,809
Average Cost/OH Member	\$2,712	\$3,136	\$3,104	\$3,259	\$3,422	\$3,230
Total Cost of New Line	\$1,080,360	\$1,246,188	\$1,250,652	\$1,313,184	\$1,378,844	\$5,188,868
Number of New Transformers						
Padmount	36	48	48	48	48	192
Pole Mount	<u>379</u>	<u>352</u>	<u>352</u>	<u>352</u>	<u>352</u>	<u>1,408</u>
Total New Transformers	415	400	400	400	400	1,600
Average Installed Cost/Transformer						
Padmount	\$1,700	\$1,874	\$1,968	\$2,066	\$2,170	\$2,020
Pole Mount	\$856	\$1,130	\$991	\$1,040	\$1,092	\$1,063
Cost of Transformers						
Padmount	\$61,200	\$89,952	\$94,464	\$99,168	\$104,160	\$387,744
Pole Mount	<u>\$324,424</u>	<u>\$397,760</u>	<u>\$348,832</u>	<u>\$366,080</u>	<u>\$384,384</u>	<u>\$1,497,056</u>
Total Cost Of New Transformers	\$385,624	\$487,712	\$443,296	\$465,248	\$488,544	\$1,884,800
Number of New Meters						
Underground	-	-	-	-	-	-
Overhead	<u>535</u>	<u>400</u>	<u>400</u>	<u>400</u>	<u>400</u>	<u>1,600</u>
Total New Meters	535	400	400	400	400	1,600
Average Installed Cost/Meter						
Underground	\$0	\$0	\$0	\$0	\$0	\$0
Overhead	\$135	\$149	\$156	\$164	\$172	\$160

REQUIRED CONSTRUCTION ITEMS

**Table 2-1
Construction Required to Serve New Members**

Estimated 48-Month Work Plan Period						
New Members - System Wide	Average 2006-2007	2008	2009	2010	2011	TOTAL
Cost of Meters						
Underground	\$0	\$0	\$0	\$0	\$0	\$0
Overhead	<u>\$72,225</u>	<u>\$59,600</u>	<u>\$62,400</u>	<u>\$65,600</u>	<u>\$68,800</u>	<u>\$256,400</u>
Total Cost Of New Meters	\$72,225	\$59,600	\$62,400	\$65,600	\$68,800	\$256,400
TOTAL COST OF NEW SERVICES	\$1,538,209	\$1,793,500	\$1,756,348	\$1,844,032	\$1,936,188	\$7,330,068

**Table 2-2
Summary of Costs to Serve a New Member**

RUS Code	Category Description	2008	2009	2010	2011	TOTAL
101	UG Lines - New Members	\$142,381	\$158,185	\$166,094	\$174,399	\$641,059
102	OH Lines - New Members	<u>\$1,103,807</u>	<u>\$1,092,467</u>	<u>\$1,147,090</u>	<u>\$1,204,445</u>	<u>\$4,547,809</u>
100	Total New Lines	\$1,246,188	\$1,250,652	\$1,313,184	\$1,378,844	\$5,188,868
601	UG Transformers - New Members	\$89,952	\$94,464	\$99,168	\$104,160	\$387,744
601	OH Transformers - New Members	\$397,760	\$348,832	\$366,080	\$384,384	\$1,497,056
601	Meters - New Meters	<u>\$59,600</u>	<u>\$62,400</u>	<u>\$65,600</u>	<u>\$68,800</u>	<u>\$256,400</u>
601	Total Transformers and Meters	\$547,312	\$505,696	\$530,848	\$557,344	\$2,141,200

2.2 Service Changes to Existing Members

Historical information was reviewed for a 24-month period from calendar years 2006 and 2007 to project service change requirements to existing members for the CWP period. The historical number of services was not increased for the 2009–2012 CWP period. However, the historical costs were inflated by 5% per year.

Section 2

**Table 2-3
Construction Required for Service Changes to Existing Members**

Estimated 48-Month Work Period						
<u>Service Charges to Existing Members</u>	<u>Average 2006-2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>TOTAL</u>
Service Drop Upgrades						
Number of Service Drop Upgrades						
Underground	0	0	0	0	0	0
Overhead	<u>97</u>	<u>97</u>	<u>97</u>	<u>97</u>	<u>97</u>	<u>388</u>
TOTAL SERVICE UPGRADES	97	97	97	97	97	388
Average Cost/Service Drop Upgrade						
Underground	\$0	\$0	\$0	\$0	\$0	\$0
Overhead	\$1,608	\$1,782	\$1,871	\$1,965	\$2,063	\$1,920
Cost of Service Drop Upgrades						
Underground	\$0	\$0	\$0	\$0	\$0	\$0
Overhead	<u>\$155,976</u>	<u>\$172,854</u>	<u>\$181,487</u>	<u>\$190,605</u>	<u>\$200,111</u>	<u>\$745,057</u>
TOTAL COST OF SERVICE UPGRADES	\$155,976	\$172,854	\$181,487	\$190,605	\$200,111	\$745,057
Number of Transformer Replacements						
Underground	0	0	0	0	0	0
Overhead	<u>207</u>	<u>207</u>	<u>207</u>	<u>207</u>	<u>207</u>	<u>828</u>
Total Transformer Replacements	207	207	207	207	207	828
Average Cost/Transformer Replacement						
Underground	\$0	\$0	\$0	\$0	\$0	\$0
Overhead	\$899	\$1,130	\$1,186	\$1,246	\$1,308	\$1,218
Cost of Transformers						
Underground	\$0	\$0	\$0	\$0	\$0	\$0
Overhead	<u>\$186,093</u>	<u>\$233,910</u>	<u>\$245,502</u>	<u>\$257,922</u>	<u>\$270,756</u>	<u>\$1,008,090</u>
TOTAL COST OF TRANSFORMER REPLACEMENTS	\$186,093	\$233,910	\$245,502	\$257,922	\$270,756	\$1,008,090

REQUIRED CONSTRUCTION ITEMS

Table 2-4
Summary of Costs for Service Changes

RUS Code	Category Description	2008	2009	2010	2011	TOTAL
602	UG Service Drops	\$0	\$0	\$0	\$0	\$0
602	OH Service Drops	\$172,854	\$181,487	\$190,605	\$200,111	\$745,057
602	Total Service Drops	\$172,854	\$181,487	\$190,605	\$200,111	\$745,057
608	UG Transformer Replacements	\$0	\$0	\$0	\$0	\$0
608	OH Transformer Replacements	\$233,910	\$245,502	\$257,922	\$270,756	\$1,008,090
608	Total Transformer Replacements	\$233,910	\$245,502	\$257,922	\$270,756	\$1,008,090

2.3 Poles

GRECC replaces all poles found to be physically deteriorated by inspection. An average of 378 poles per year required replacement during the 24-month period from calendar years 2006 and 2007. For the CWP period, shown in Table 2-5, it was estimated that a total of 1,512 poles will be replaced due to poor physical condition.

Table 2-6 shows a summary of pole replacement cost for the 2009–2012 CWP period. The historical number of poles was not increased, but the costs were inflated by 5% per year.

Table 2-5
Poles

	Estimated 48-Month Work Period					
	Average 2006-2007	2008	2009	2010	2011	TOTAL
<u>Pole Replacements</u>						
Number of Pole Replacements	378	378	378	378	378	1,512
Average Cost/Pole Replacement	\$1,933	\$2,237	\$2,349	\$2,467	\$2,590	\$2,411
TOTAL COST OF POLES	\$730,674	\$845,586	\$887,922	\$932,526	\$979,020	\$3,645,054

Section 2

**Table 2-6
Summary of Costs for Pole Replacements**

<u>RUS Code</u>	<u>Category Description</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>TOTAL</u>
606	Pole Replacements	\$845,586	\$887,922	\$932,526	\$979,020	\$3,645,054
606	Total Pole Replacements	\$845,586	\$887,922	\$932,526	\$979,020	\$3,645,054

2.4 Security Lights

For the 24-month period from calendar years 2006 and 2007, GRECC has installed an average of 264 security lights per year at an average cost of \$353 each. GRECC estimates that the cost will increase 5% a year during the CWP period, shown in Table 2-7. A summary of the security light costs for the CWP period is given in Table 2-8.

**Table 2-7
Miscellaneous Construction**

Estimated 48-Month Work Period						
	<u>Average 2006-2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>TOTAL</u>
Security Lights						
Number of Security Lights	264	200	200	200	200	800
Average Cost/Security Lights	\$353	\$393	\$412	\$433	\$454	\$423
TOTAL COST OF SECURITY LIGHTS	\$93,192	\$78,600	\$82,400	\$86,600	\$90,800	\$338,400

**Table 2-8
Summary of Costs for Miscellaneous Construction**

<u>RUS Code</u>	<u>Category Description</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>TOTAL</u>
702	Security Lights	\$78,600	\$82,400	\$86,600	\$90,800	\$338,400

2.5 Conversion and Line Changes

Conversion and line changes to existing lines were recommended to reduce voltage drop or relieve conductor loading. Switching load to other feeders was also evaluated when appropriate. Line regulators were considered as an alternative to improve voltage drop problems; however, no more than two line regulators were used in series.

Line and equipment costs were inflated by 5% per year based on the anticipated year of construction. Costs of carry-over projects were updated based on the existing line and equipment costs. The following conversions and line changes were recommended for the 2009–2012 CWP.

Airport Road – Circuit 2

- RUS CODE – 304 (Modified Carry-Over) \$223,810 in LL1
- PROJECT NAME – Ben’s Run

Description: Reconductor and multi-phase from aging, single-phase 4 ACSR to three-phase 1/0 ACSR for 3.5 miles between overhead line sections OH3940_12 to OH4252_12. The single-phase tap was loaded to 111 Amps with voltage as low as 112 volts at the end of the tap. With the recommended improvements, the single-phase loading is relieved and the voltage improves to 125 volts.

Sectionalizing: Add (3) 35-4H reclosers at line section OH3942_12 along with the recommended multi-phasing. (See RUS Code 603-1)

Alternatives: Surrounding single-phase ties do not have the capacity for the transfer of load.

- RUS CODE – 371 \$225,600 in LL3
- PROJECT NAME – Airport Road to Corey Ridge

Description: Reconductor and multi-phase from aging, two-phase and single-phase 6A CWC to three-phase 1/0 ACSR for 3.2 miles between overhead line sections OH3990_12 to OH4993_12. The single-phase tap was loaded to 110 Amps with voltage as low as 109 volts at the end of the tap. With the recommended improvements, the single-phase loading is relieved and the voltage improves to 118 volts.

Sectionalizing: Add (3) 70-4H reclosers on the upgraded three-phase tap and (1) 35-4H recloser on the single-phase down-line along with the recommended multi-phasing. (See RUS Code 603-2)

Alternatives: No load transfers are available on this radial circuit.

Section 2

Argentum – Circuit 2

- RUS CODE – 321 (Modified Carry-Over) \$183,300 in LL3
- PROJECT NAME – Brushy – Greenup Co.

Description: Reconductor and multi-phase from aging, single-phase 6A CWC to three-phase 1/0 ACSR for 2.6 miles between overhead line sections OH1904 and OH1958. Single-phase loading is anticipated in the LRP, and the minimum voltage was calculated to be 116 volts at line section OH2582. With the recommended improvements, the voltage improves to 119 volts.

Sectionalizing: Add (3) 25-4H reclosers along with the recommended multi-phasing. (See RUS Code 603-3)

Alternatives: This is a radial tap. The addition of a regulator was evaluated, but it would only delay the multi-phasing for a short period of time due to single-phase loading. No transfers were available.

Carter City – Circuit 1

- RUS CODE – 373 \$147,710 in LL2
- PROJECT NAME – Three Prong

Description: Reconductor and multi-phase from aging, single-phase 6A CWC to three-phase 1/0 ACSR for 2.2 miles between overhead line sections OH2818_10 and OH1640_10. The single-phase tap was loaded to 65 Amps with voltage as low as 112 volts. With the recommended improvements, the single-phase loading is relieved and the voltage improves to 123 volts. Results include the addition of a voltage regulator in RUS Code 604-2.

Sectionalizing: Add (2) 70-4H reclosers on the upgraded three-phase tap along with the recommended multi-phasing. (See RUS Code 603-4)

Alternatives: Switching to relieve the single-phase loading condition was evaluated; however, the alternative feed from Warnock Substation is projected to continue to have voltage issues even with the transfer option.

- RUS CODE – 374 \$204,620 in LL1
- PROJECT NAME – Lower Grassy

Description: Reconductor and multi-phase from aging, single-phase 6A CWC to three-phase 1/0 ACSR for 3.2 miles between overhead line sections OH646_10 and OH837_10. The single-phase tap was loaded to 81 Amps with voltage as low as 109 volts at section OH29588. With the recommended improvements, the single-phase loading is relieved and the voltage improves to 124 volts.

Sectionalizing: Add (3) 50-4H and (1) 25-4H reclosers along with the recommended multi-phasing. (See RUS Code 603-5)

Alternatives: No load transfers are available on this radial circuit.

REQUIRED CONSTRUCTION ITEMS

- RUS CODE – 375 \$148,050 in LL4
- PROJECT NAME – Lost Creek

Description: Reconductor and multi-phase from single-phase 1/0 ACSR to three-phase 1/0 ACSR for 2.0 miles between overhead line sections OH1445_10 and OH1252_10. The minimum voltage was calculated to be 117 volts at line section OH1312_10. With the recommended improvements, the voltage improves to 126 volts. Results include the addition of a voltage regulator in RUS Code 604-3.

Sectionalizing: Add (3) 35-4H reclosers on the upgraded three-phase tap along with the recommended multi-phasing. (See RUS Code 603-6)

Alternatives: The single-phase tie will exceed single-phase loading criteria from transferring the load. No other ties are available. A regulator is included in the LRP due to expected voltage issues even with the multi-phased tap.

Carter City – Circuit 2

- RUS CODE – 376 \$136,950 in LL4
- PROJECT NAME – Jordan Fork

Description: Reconductor and multi-phase from aging, single-phase 6A CWC to three-phase 1/0 ACSR for 1.85 miles between overhead line sections OH2192_10 and OH5069. The single-phase tap was loaded to 55 Amps. With the recommended improvements, the single-phase loading is relieved.

Sectionalizing: Add (3) single-phase 35-4H reclosers along with the recommended multi-phasing. (See RUS Code 603-7)

Alternatives: Surrounding single-phase ties do not have the capacity to serve transferred load from this long single-phase tap.

Elliottville – Circuit 1

- RUS CODE – 377 \$201,430 in LL2
- PROJECT NAME – Porter Creek

Description: Reconductor and multi-phase from aging, single-phase 4 ACSR to three-phase 1/0 ACSR for 3.0 miles between overhead line sections OH3056_7 and OH2825_7. The single-phase tap was loaded to 103 Amps with voltage as low as 109 volts. With the recommended improvements, the single-phase loading is relieved and the voltage improves to 120 volts. Results include the removal of a voltage regulator in RUS Code 604-5.

Sectionalizing: Add (3) 35-4H reclosers on the upgraded three-phase tap along with the recommended multi-phasing. (See RUS Code 603-8)

Alternatives: No load transfers are available on this radial circuit.

Section 2

- RUS CODE – 378 \$211,500 in LL3
- PROJECT NAME – Route 173

Description: Reconductor and multi-phase from aging, single-phase 6A CWC to three-phase 1/0 ACSR for 3.0 miles between overhead line sections OH1073_7 and OH971_7. The single-phase tap was loaded to 71 Amps with voltage as low as 116 volts. With the recommended improvements, the single-phase loading is relieved and the voltage improves to 118 volts.

Sectionalizing: Add (3) 50-4H reclosers on the upgraded three-phase tap along with the recommended multi-phasing. (See RUS Code 603-9)

Alternatives: Ties to surrounding circuits are single-phase with limited transfer capacity available.

- RUS CODE – 379 \$275,510 in LL1
- PROJECT NAME – New Elliottville Circuit 4

Description: Construct a new circuit out of Elliottville Substation with 1.7 miles of double circuit 3/0 ACSR parallel with Elliottville Circuit 1. Transfer the tap at section OH300_7 to the new circuit from Elliottville Circuit 1. The voltage at section OH2762_7 was calculated to be 109 volts. With the recommended improvements, voltage improves to 120 volts.

Sectionalizing: Device coordination was reviewed based on the recommended changes, and no improvements are required.

Alternatives: Elliottville Circuit 1 has a backbone conductor of 1/0 ACSR, which is nearing capacity. However, down-line voltage issues drive the need for improvements. Switching to Newfoundland Circuit 1 was evaluated; however, it is projected to exceed capacity and develop voltage issues with the transfer within the 4-year CWP.

Elliottville – Circuit 3

- RUS CODE – 380 \$319,730 in LL1
- PROJECT NAME – Route 519

Description: Reconductor and multi-phase from aging, single-phase 4 ACSR to three-phase 1/0 ACSR for 5.0 miles between overhead line sections OH4776 and OH5644_7. The single-phase tap was loaded to 102 Amps with voltage as low as 110 volts. With the recommended improvements, the single-phase loading is relieved and the voltage improves to 121 volts. Results include the addition of a voltage regulator in RUS Code 604-8.

Sectionalizing: Add (3) 70-4H reclosers on the upgraded three-phase tap along with the recommended multi-phasing. (See RUS Code 603-11)

Alternatives: No load transfers are available on this radial circuit.

REQUIRED CONSTRUCTION ITEMS

- RUS CODE – 381 \$134,280 in LL2
- PROJECT NAME – Riddle Fork

Description: Reconductor and multi-phase from single-phase 1/0 ACSR to three-phase 1/0 ACSR for 2.0 miles between overhead line sections OH4676 and OH4664. The single-phase tap was loaded to 79 Amps with voltage as low as 117 volts at section OH5016. With the recommended improvements, the single-phase loading is relieved and the voltage improves to 119 volts.

Sectionalizing: Add (3) 70-4H reclosers along with the recommended multi-phasing. (See RUS Code 603-10)

Alternatives: There are three single-phase ties into this neighborhood. However, the load is proposed to be greater than single-phase loading will allow on any of the taps.

Low Gap – Circuit 3

- RUS CODE – 383 \$101,130 in LL2
- PROJECT NAME – Culp Creek

Description: Reconductor and multi-phase from aging, single-phase 6A CWC to two-phase 1/0 ACSR for 1.6 miles between overhead line sections OH1307_11 and OH1444_11. The single-phase tap was loaded to 69 Amps with voltage as low as 116 volts. With the recommended improvements, the single-phase loading is relieved and the voltage improves to 120 volts.

Sectionalizing: Add (2) 50-4H reclosers on the upgraded two-phase tap along with the recommended multi-phasing. (See RUS Code 603-13)

Alternatives: No load transfers are available on this radial circuit.

Mazie – Circuit 2

- RUS CODE – 384 \$79,640 in LL3
- PROJECT NAME – Mills Branch

Description: Reconductor and multi-phase from aging, single-phase 4 ACSR to two-phase 1/0 ACSR for 1.2 miles between overhead line sections OH323 and OH1608_4. The single-phase tap was loaded to 58 Amps with voltage as low as 115 volts. With the recommended improvements, the single-phase loading is relieved and the voltage improves to 118 volts.

Sectionalizing: Install (2) 50-L recloser on the upgraded two-phase tap along with the recommended multi-phasing. (See RUS Code 603-14)

Alternatives: Switching to relieve the single-phase loading condition was evaluated; however, the alternative feed from Mazie Circuit 1 created another single-phase loading issue as well as low voltage.

Section 2

- RUS CODE – 385 \$94,8810 in LL2

- PROJECT NAME – Route 201 South at Blaine

Description: Reconductor and multi-phase from single-phase 1/0 ACSR to two-phase 1/0 ACSR for 1.5 miles between overhead line sections OH2560_4 and OH2886_4. The single-phase tap was loaded to 57 Amps with voltage as low as 115 volts. With the recommended improvements, the single-phase loading is relieved and the voltage improves to 119 volts.

Sectionalizing: Add (2) 35-4H reclosers on the upgraded two-phase tap along with the recommended multi-phasing. (See RUS Code 603-15)

Alternatives: No load transfers are available on this radial circuit.

Warnock – Circuit 1

- RUS CODE – 334/335 (Modified Carry-Over) \$319,730 in LL1

- PROJECT NAME – Big White Oak

Description: Reconductor and multi-phase from aging, single-phase 6A CWC to three-phase 1/0 ACSR for 5.0 miles between overhead line sections OH474_6 and OH1284_6. The single-phase tap was loaded to 106 Amps with voltage as low as 102 volts at section OH1566_6. With the recommended improvements, the single-phase loading is relieved and the voltage improves to 125 volts.

Sectionalizing: Add (3) 50-4H and (2) 25-4H reclosers along with the recommended multi-phasing. (See RUS Code 603-17)

Alternatives: Transfers to surrounding single-phase ties were considered; however, low voltage remained an issue with the transfers.

Warnock – Circuit 3

- No RUS Funds requested LL1

- PROJECT NAME – Laurel Road

Description: Transfer load from Warnock Circuit 3 to Pactolus Circuit 1 by opening at section OH1708 and closing at switch SW86. Also, open at section OH3298_6 and close at switch SW010 to transfer load to Warnock Circuit 4. The minimum voltage was calculated to be 116 volts at line section OH3362_6. With the recommended improvements, the voltage improves to 121 volts.

Sectionalizing: Device coordination was reviewed based on the recommended changes, and no improvements are required.

Alternatives: No other load transfers available.

Total RUS Code 300 \$3,007,800

2.6 Sectionalizing Equipment

Specific locations for sectionalizing equipment were identified in this report. For the 2009–012 CWP period, the following recloser recommendations are as follows. The cost was inflated by 5% per year.

Airport Road – Circuit 2

- RUS CODE – 603-1 \$15,770 in LL1

Description: Replace (1) single-phase 50-4H recloser with (3) single-phase 35-4H reclosers at OCR-1139. (See RUS CODE - 304)

- RUS CODE – 603-2 \$18,720 in LL3

Description: Install (3) single-phase 70-4H reclosers at section OH3990_12 and (1) single-phase 35-4H recloser at section OH4994_12. (See RUS CODE - 371)

Argentum – Circuit 2

- RUS CODE – 603-3 \$17,380 in LL3

Description: Replace (1) single-phase 50-4H recloser with (3) single-phase 25-4H reclosers at OCR-1023. (See RUS CODE - 321)

Carter City – Circuit 1

- RUS CODE – 603-4 \$9,490 in LL2

Description: Add (2) single-phase 70-4H reclosers at OCR-2655. (See RUS CODE - 373)

- RUS CODE – 603-5 \$16,980 in LL1

Description: Install (3) single-phase 50-4H reclosers at section OH646_10 and (1) single-phase 25-4H recloser at section OH838_10. (See RUS CODE - 374)

- RUS CODE – 603-6 \$14,420 in LL4

Description: Install (3) single-phase 35-4H reclosers at section OH1445_10. (See RUS CODE - 375)

Carter City – Circuit 2

- RUS CODE – 603-7 \$14,420 in LL4

Description: Install (3) single-phase 35-4H reclosers at section OH5069. (See RUS CODE - 376)

Section 2

Elliottville – Circuit 1

- RUS CODE – 603-8 \$13,080 in LL2

Description: Install (3) single-phase 35-4H reclosers at section OH3056_7. (See RUS CODE - 377)

- RUS CODE – 603-9 \$13,740 in LL3

Description: Install (3) single-phase 50-4H reclosers at section OH1073_7. (See RUS CODE - 378)

Elliottville – Circuit 3

- RUS CODE – 603-10 \$15,770 in LL1

Description: Replace (1) single-phase 35-4H recloser with (3) single-phase 70-4H reclosers at OCR-1386. (See RUS CODE - 380)

- RUS CODE – 603-11 \$13,080 in LL2

Description: Install (3) single-phase 70-4H reclosers at section OH4676. (See RUS CODE - 381)

Low Gap – Circuit 3

- RUS CODE – 603-13 \$9,490 in LL2

Description: Add (2) single-phase 50-4H reclosers at section OH1307_11. (See RUS CODE - 383)

Mazie – Circuit 2

- RUS CODE – 603-14 \$9,970 in LL3

Description: Install (2) single-phase 50-L reclosers at section OH323. (See RUS CODE - 384)

- RUS CODE – 603-15 \$9,490 in LL2

Description: Install (2) single-phase 35-4H reclosers at section OH2560_4. (See RUS CODE - 385)

Warnock – Circuit 1

- RUS CODE – 603-17 \$21,500 in LL1

Description: Install (3) single-phase 50-4H reclosers at section OH474_6, (1) single-phase 25-4H recloser at section OH1457_6, and (1) single-phase 25-4H recloser at section OH1407_6. (See RUS CODE – 334/335)

TOTAL RUS CODE 603 \$213,300

2.7 Line Regulators

Specific locations for line regulators were identified to correct voltage drop problems as an alternative solution when switching was not feasible or reconductoring was more expensive and not necessary due to lightly loaded circuits. The total estimated cost was inflated 5% per year to the recommended year of the 2009–012 CWP.

Carter City – Circuit 1

- RUS CODE – 604-2 \$12,160 in LL2

Description: Install a single-phase 50 Amp regulator at the source end of section OH1641_10 to improve voltage on downstream line sections. Before improvements, the voltage in line section OH1759 was calculated to be 111 volts. With the recommended improvements, the voltage was improved to 123 volts. Results include the improvements associated with RUS Code 373.

- RUS CODE – 604-3 \$13,400 in LL4

Description: Install a single-phase 50 Amp regulator at the source end of section OH1398_10 to improve voltage on downstream line sections. Before improvements, the voltage in line section OH1312_10 was calculated to be 117 volts. With the recommended improvements, the voltage was improved to 126 volts. Results include the improvements associated with RUS Code 375.

- RUS CODE – 604-4 \$11,580 in LL1

Description: Install a single-phase 50 Amp regulator at the source end of section OH845_10 to improve voltage on downstream line sections. Before improvements, the voltage in line section OH29588 was calculated to be 109 volts. With the recommended improvements, the voltage was improved to 124 volts.

Elliottville – Circuit 1

- RUS CODE – 604-5 \$2,890 in LL2

Description: Remove 100 Amp regulator, REG214, at the source end of section OH2717_7 due to improvements with RUS Code 377. Before improvements, the voltage was calculated to be 109 volts. With the recommended improvements, the voltage was improved to 120 volts. Results include the improvements associated with RUS Code 377.

Elliottville – Circuit 2

- RUS CODE – 604-13 \$40,350 in LL1

Description: Install a three-phase 100 Amp regulator at the source end of section OH4104 to improve voltage on downstream line sections. Before improvements, the voltage in line section OH4344_7 was calculated to be 116 volts. With the recommended improvements, the voltage was improved to 123 volts.

Section 2

Elliottville – Circuit 3

- RUS CODE – 604-7 \$11,580 in LL1

Description: Transfer load from Elliottville Circuit 3 to Elliottville Circuit 1 by opening at section OH3874_7 and closing at section OH3721_7. Install a three-phase 50 Amp regulator at the source end of section OH1341_7. Before improvements, the voltage in line section OH6029_7 was calculated to be 108 volts. With the recommended improvements, the voltage was improved to 123 volts.

- RUS CODE – 604-8 \$37,490 in LL1

Description: Remove three-phase 100 Amp regulator, REG5615, at section OH4776 and install a three-phase 50 Amp regulator, further down-line at section OH5058. Before improvements, the voltage in line section OH5312_7 was calculated to be 110 volts. With the recommended improvements, the voltage was improved to 121 volts. Results include the improvements associated with RUS Code 380.

- RUS CODE – 604-9 \$4,520 in LL1

Description: Relocate three-phase 219 Amp regulator, REG59, at section OH169_7 to further down-line at section OH163. Before improvements, the voltage in line section OH5312_7 was calculated to be 110 volts. With the recommended improvements, the voltage was improved to 121 volts.

Pelfrey – Circuit 1

- RUS CODE – 604-10 \$12,160 in LL2

Description: Install a single-phase 50 Amp regulator at the source end of section OH6380 to improve voltage on downstream line sections. Before improvements, the voltage in line section OH5337 was calculated to be 117 volts. With the recommended improvements, the voltage was improved to 125 volts.

Warnock – Circuit 3

- RUS CODE – 604-12 \$4,520 in LL1

Description: Move three-phase 50 Amp regulator, REG83, from the source end of section OH3622_6 to the source end of section OH3636_6. Transfer load from Warnock Circuit 3 to Pactolus Circuit 1 by opening at section OH3867_6 and closing at section OH4238. Before improvements, the voltage in line section OH29407 was calculated to be 114 volts. With the recommended improvements, the voltage was improved to 120 volts.

Total RUS Code 604 \$150,650

Section 3

ECONOMIC CONDUCTOR SELECTION

The data contained in this section details the assumptions which were used in the economic analysis of alternatives and economic conductor sections of this report.

3.1 Interest Rates

The Blue Chip Economic Indicators (BCEI) projects an average long-term inflation rate of approximately 2.3%, but it does not reflect the cost increases being experienced in electric utility construction. Based on discussions between GRECC staff and R. W. Beck and recent electric facility construction cost trends, for the study period, an inflation rate of 5.0% was chosen for distribution upgrades.

3.2 Annual Fixed Charge Rates

Annual fixed charge rates were developed based on GRECC's 2005–2007 operation and maintenance expense of the installed plant and an interest rate as previously developed. The annual fixed charge rates used are summarized in Table 3-1.

Table 3-1
Summary of Assumed Annual Fixed Charge Rates

Item	Plant ⁽¹⁾		
	Transmission	Substation	Distribution
Cost of Capital	5.00%	5.00%	5.00%
Depreciation	2.50%	2.00%	3.00%
Operation and Maintenance ⁽²⁾	2.00%	3.00%	5.84%
Taxes	0.05%	0.05%	0.05%
Insurance	0.05%	0.05%	0.05%
TOTAL	9.60%	10.10%	13.94%

Notes:

1. Rates expressed as a percent of original installed cost.
2. Transmission and substation O & M cost are assumed values.



3.3 Cost of Power

The cost of power in 2007 was \$0.059 per kWh, based on information provided by GRECC. It is anticipated that trends for the current market will increase power costs during the planning period; therefore, power costs were assumed to increase at a rate of 5%.

3.4 Cost of Losses

The cost of losses was calculated based on the wholesale power cost of \$0.059 per kWh. The wholesale power costs were obtained from the 2008 EKPC LF. The calculated cost of losses was based on an average of the 2005, 2006, and 2007 monthly billing demands and an average annual load factor of 45.88%. The cost of losses to carry one kW of loss at peak is \$129.30. The calculation is given in Exhibit 5.

3.5 Economic Conductor Selection

Economic conductor selection includes the consideration of initial construction costs and the associated losses of the selected conductors. For two alternative conductors compared, there is generally a kW load at which the fixed costs associated with the construction, plus the variable costs related to line losses, are equal for the two alternatives. For loads less than the equal cost load, the smaller conductor should be selected, and for loads greater than such load, the larger conductor would be selected. There are many choices of conductor sizes, but as part of system operation, standard conductor sizes for overhead construction of #2 ACSR, 1/0 ACSR, 3/0 ACSR, 336 ACSR, and 397 ACSR have been selected by GRECC.

Since a distribution line is used for many years, economic conductor selection should include the consideration of the initial load, load growth, cost of losses, increases in power cost, the annual fixed cost, and the present worth of the dollars spent.

The load on the distribution line considered was expressed as the current annual peak load and was assumed to grow over the life cycle analyzed. The cost of power was assumed to remain constant and a thirty-year present-worth factor was developed for the cost of losses and for the annual fixed cost.

Two basic conditions arise as alternatives are compared. The first, and most often encountered alternative, is the timing of the conversion of an existing distribution line. The question is simply a comparison of which is more economical for the next year. Thus, based on economics alone, the existing distribution line should remain as long as the annual cost of the losses on the existing line is less than the annual cost of the losses, plus fixed costs on the new line. Generally, voltage-drop problems require conversion prior to economics.

The second alternative arises when a new line is to be constructed or an existing line must be changed for reasons other than economic conductor selection. Such conditions include voltage-drop, system changes, and reliability. Economic conductor selection

analyses were performed and a summary for new construction and change-out was prepared.

General guidelines were developed based on the following assumptions.

- Compound annual load growth 2.71%
- Annual cost of peak kW losses \$129.30/kW
- Compound annual power cost increase 5.0%
- Fixed cost factor 13.94%
- Present-worth discount factor 5.0%
- Distribution line cost estimates in Table 1-2

3.5.1 12.47/7.2 kV Operating Voltage

The following general guidelines were developed based upon the analysis described previously for overhead conductors at an operating voltage of 12.47/7.2 kV.

New single-phase distribution lines should generally be constructed with #1/0 ACSR if the load on the line will potentially grow to require conversion to three-phase. If the load will not grow requiring conversion to three-phase, #2 ACSR is adequate for single-phase construction for loads less than 275 kW.

The single-phase #1/0 ACSR lines should be converted to three-phase #1/0 ACSR based upon operating conditions and voltage-drop.

Existing three-phase distribution lines should be reconducted based on the following:

- For loads less than 1,125 kW: 1/0 ACSR
- For loads greater than 1,125 kW and less than 1,625 kW: 3/0 ACSR
- For loads greater than 1,625 kW and less than 2,625 kW: 336 ACSR
- For loads greater than 2,625 kW: 397 ACSR

New three-phase 12.47 kV distribution lines should be constructed with the following conductors at the initial load given as follows:

- For loads less than 1,475 kW: 1/0 ACSR
- For loads greater than 1,475 kW and less than 2,025 kW: 3/0 ACSR
- For loads greater than 2,025 kW and less than 3,000 kW: 336 ACSR
- For loads greater than 3,000 kW: 397 ACSR

Economic conductor selection curves for overhead conductors are graphically presented in Figures 3-1 through 3-4. The economic conductor selection curves and guides should be updated periodically based on changes in construction cost, power cost, or fixed operating cost.

SECTION 3

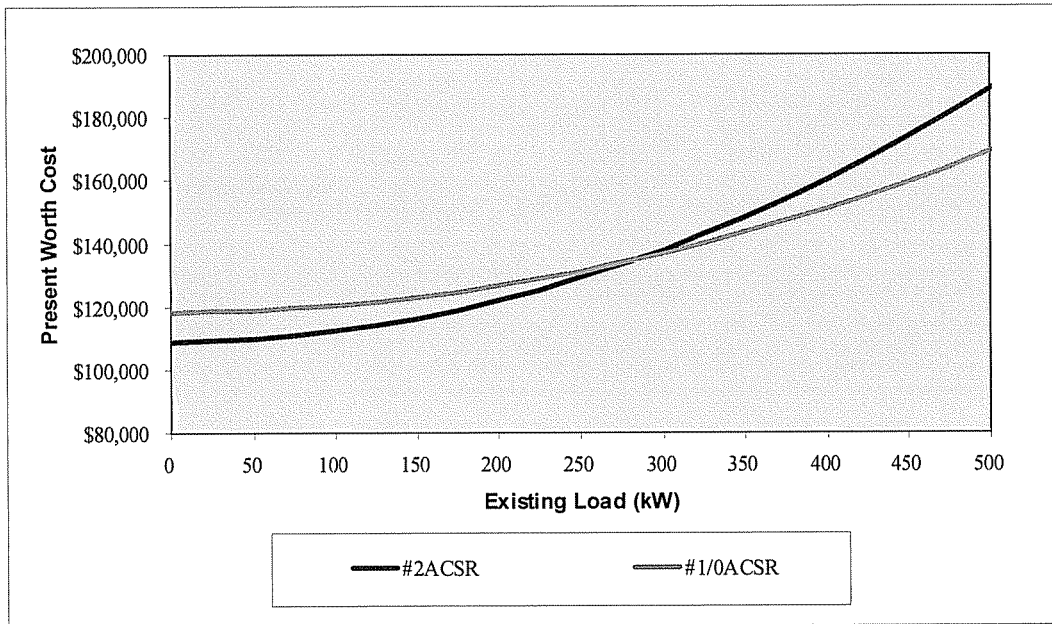


Figure 3-1: Single-Phase Construction 7.2 kV

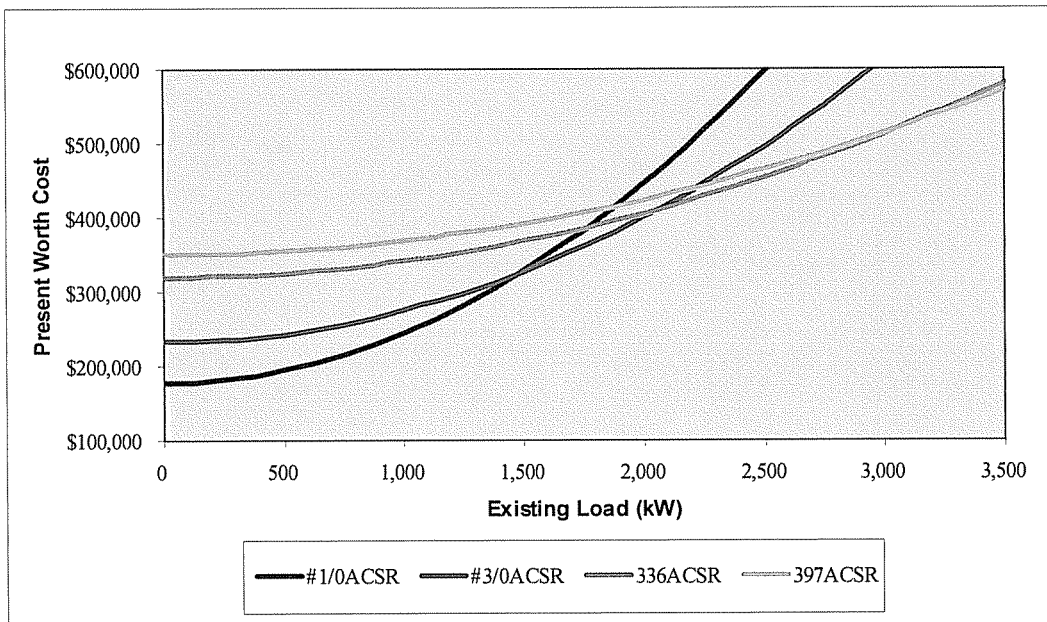


Figure 3-2: Three-Phase Construction 12.47 kV

ECONOMIC CONDUCTOR SELECTION

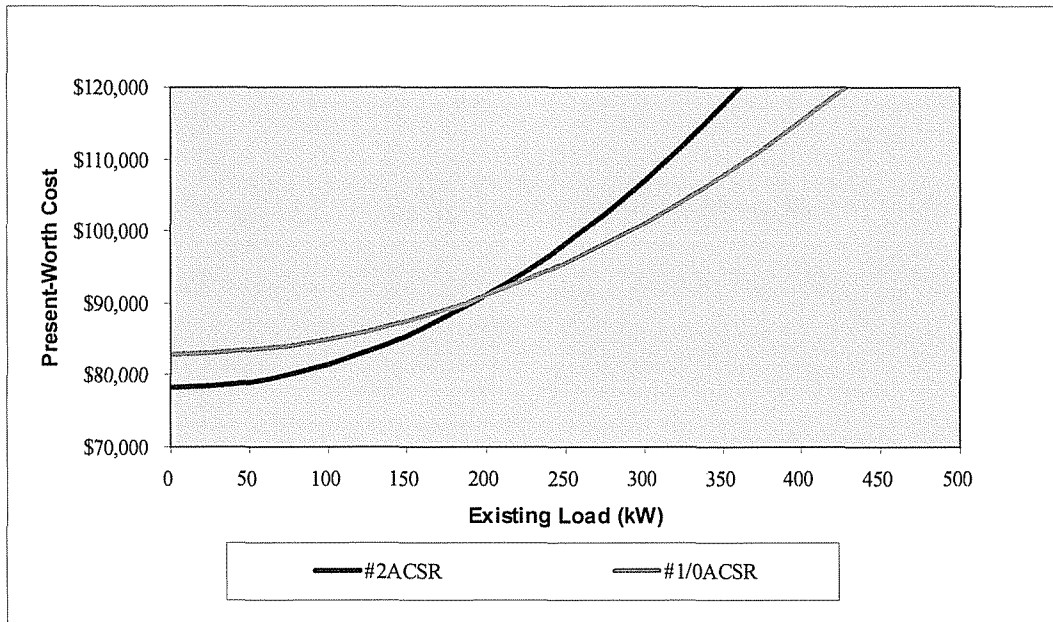


Figure 3-3: Single-Phase Reconductor 7.2 kV

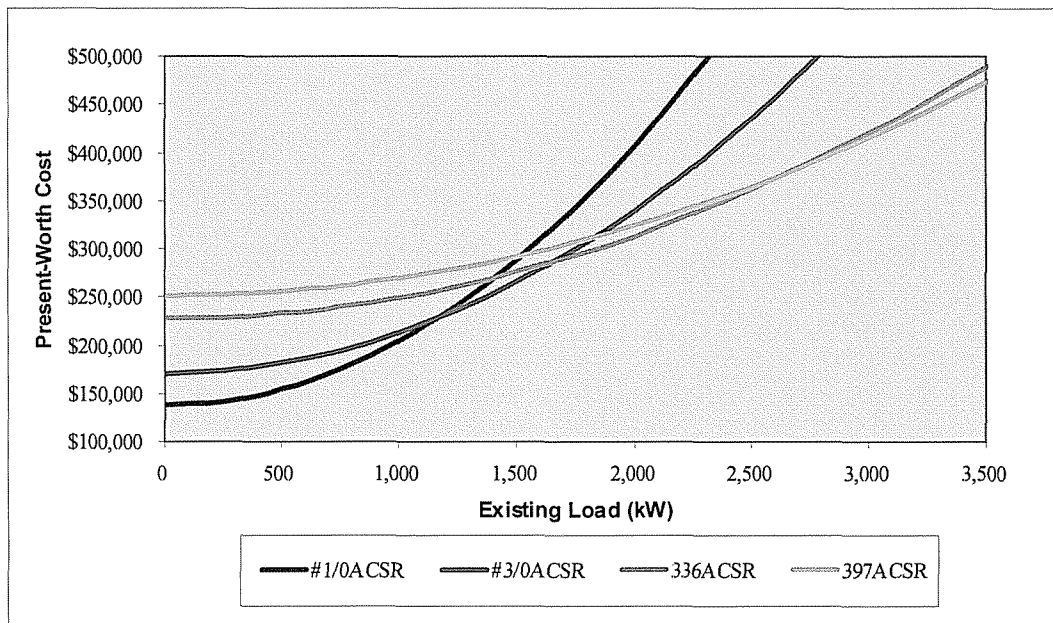


Figure 3-4: Three-Phase Reconductor 12.47 kV

Exhibit 1
2008 EKPC Calculated Winter Substation Ratings

Exhibit 2 Status of Previous CWP Projects

Exhibit 2
Status of Previous CWP Projects

Substation	Description	Est. CWP Miles	Estimated Cost	Actual Cost	Status
			\$ 4,009,734.00	\$ 4,353,876.28	
NEW LINE CONSTRUCTION					
HORTON FLATS	Convert 1-ph #4 ACSR to 3-ph #1/0 ACSR	3.00	\$ 155,600.00	\$ -	In-Progress
BEN'S RUN	Convert 1-ph #4 ACSR to 3-ph #1/0 ACSR	4.20	\$ 234,580.00	\$ -	Carry-over
WELLS CREEK SECTION 1	Convert 1-ph #6 Cu to V-ph #1/0 ACSR	2.60	\$ 126,850.00	\$ 99,071.09	Completed
NEIL HOWARDS CREEK	Reconductor 1-ph #6 Cu with #1/0 ACSR	3.20	\$ 101,680.00	\$ -	Cancelled
EAST TYGART	Convert 1-ph #1/0 ACSR to 3-ph #1/0 ACSR	5.90	\$ 321,490.00	\$ 182,665.19	Completed
FORT FALLS TO ADKINS LOOP #2	Convert 1-ph #4 ACSR to 3-ph #1/0 ACSR	1.70	\$ 92,630.00	\$ 131,311.57	Completed
FOUR MILE	Convert 1-ph #6 Cu to V-ph #1/0 ACSR	1.50	\$ 75,010.00	\$ -	Cancelled
FORT FALLS TO ADKINS LOOP	Convert 1-ph #1/0 ACSR to 3-ph #1/0 ACSR	0.75	\$ 40,870.00	\$ -	Completed
BRUSHY (GREENUP CO)	Reconductor 1-ph #6 Cu with #1/0 ACSR	7.40	\$ 247,040.00	\$ -	Carry-over
CRANE CREEK	Convert 1-ph #6 Cu to V-ph #1/0 ACSR	2.20	\$ 110,020.00	\$ -	Cancelled
RT 32 (HOGTOWN)	Reconductor 1-ph #4 ACSR to 1-ph #1/0 ACSR	1.30	\$ 41,310.00	\$ -	Cancelled
TUNNEL BRANCH	Convert 1-ph #6 Cu to 3-ph #1/0 ACSR	3.30	\$ 171,150.00	\$ 195,010.94	Completed
FEEDER 1 OUT OF WARNOCK SUB	Reconductor 3-ph #2 ACSR with 3/0 kcmil ACSR	1.70	\$ 120,090.00	\$ -	Cancelled
BIG WHITE OAK #1	Convert 1-ph #6 Cu to 3-ph #1/0 ACSR	3.30	\$ 171,150.00		Carry-over
BIG WHITE OAK #2	Convert 1-ph #6 Cu to V-ph #1/0 ACSR	2.80	\$ 140,030.00	\$ -	Carry-over
WELLS CREEK SECTION 2	Reconductor 1-ph #6 Cu with #1/0 ACSR	2.70	\$ 85,790.00	\$ 55,894.89	Completed
PRATER ROAD	Convert 1-ph #4 ACSR to V-ph #1/0 ACSR	3.30	\$ 161,010.00	\$ 128,237.34	Completed
BRUSHY - V PHASE BLAINE HILL	Convert 1-ph #6 Cu to 3-ph #1/0 ACSR	0.80	\$ 425.30	\$ 168,570.98	Completed
WEST SIDE SANDY	Convert 1-ph #6 Cu to 3-ph #1/0 ACSR	2.15	\$ 111,510.00	\$ -	Completed
BRUSHY - RECONDUCTOR 1 PHASE	Convert 1-ph #6 Cu to 3-ph #1/0 ACSR	0.90	\$ 478.50	\$ 153,754.05	Completed

Exhibit 3
Substation Forecast



GRECC
2008-2028 Substation Forecast

SUBSTATION / FEEDER NAME	TOTAL CAPACITY		RELATIVE GROWTH FACTOR	2008 PEAK (MW)	PROJECTED LOADS (kW)																				COMP. ANNUAL GROWTH
	XFMR (MVA)	REG (MVA)			LL1	LL2	LL3	LL4	LL5	LL6	LL7	LL8	LL9	LL10	LL11	LL12	LL13	LL14	LL15	LL16	LL17	LL18	LL19	LL20	
					2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	
PROJECTED SYSTEM COINCIDENT PEAK				75.20	77.00	79.00	81.00	83.00	85.00	87.00	89.00	91.00	93.00	95.00	98.30	101.60	104.90	108.20	111.50	114.80	118.10	121.40	124.70	128.00	2.71%
Airport Road (3)	7.8	7.5	1.00	4.06	4.15	4.25	4.35	4.45	4.56	4.66	4.76	4.86	4.96	5.06	5.22	5.39	5.55	5.71	5.88	6.04	6.20	6.36	6.53	6.69	2.54%
Argentum	18.3	23.4	1.00	6.14	6.28	6.43	6.58	6.74	6.89	7.04	7.19	7.34	7.50	7.65	7.90	8.15	8.39	8.64	8.89	9.13	9.38	9.62	9.87	10.11	2.54%
Carter City (3)	18.3	15.1	1.00	6.13	6.27	6.42	6.57	6.73	6.88	7.03	7.18	7.33	7.49	7.64	7.89	8.13	8.38	8.63	8.87	9.12	9.37	9.61	9.85	10.10	2.54%
Elliottville (3)	15.7	15.1	1.25	9.57	9.84	10.14	10.44	10.74	11.05	11.35	11.66	11.97	12.27	12.58	13.10	13.61	14.13	14.65	15.17	15.70	16.23	16.76	17.29	17.82	3.18%
Leon	8.4	23.4	0.75	4.22	4.29	4.37	4.45	4.53	4.60	4.68	4.76	4.83	4.91	4.98	5.10	5.22	5.34	5.46	5.58	5.69	5.81	5.92	6.03	6.15	1.91%
Low Gap	7.5	15.1	1.00	5.78	5.91	6.05	6.20	6.34	6.49	6.63	6.77	6.91	7.06	7.20	7.43	7.67	7.90	8.14	8.37	8.60	8.83	9.06	9.29	9.52	2.54%
Mazie	7.8	15.1	1.00	4.64	4.75	4.86	4.98	5.10	5.21	5.33	5.44	5.56	5.67	5.79	5.97	6.16	6.35	6.54	6.72	6.91	7.09	7.28	7.47	7.65	2.54%
Newfoundland (3)	15.7	15.1	1.00	5.68	5.81	5.95	6.09	6.23	6.37	6.51	6.65	6.79	6.93	7.07	7.30	7.53	7.76	7.99	8.22	8.45	8.68	8.90	9.13	9.35	2.54%
Pactolus	18.3	23.4	1.30	11.19	11.52	11.88	12.25	12.62	12.99	13.37	13.74	14.12	14.50	14.88	15.51	16.14	16.78	17.42	18.07	18.72	19.38	20.03	20.70	21.36	3.31%
Pelfrey	7.8	15.1	1.00	4.68	4.78	4.90	5.02	5.13	5.25	5.37	5.48	5.60	5.71	5.83	6.02	6.21	6.40	6.59	6.78	6.96	7.15	7.34	7.52	7.71	2.54%
Prison	15.7	23.4	1.00	2.08	2.13	2.18	2.23	2.28	2.34	2.39	2.44	2.49	2.54	2.59	2.68	2.76	2.85	2.93	3.01	3.10	3.18	3.26	3.35	3.43	2.54%
Sandy Hook	8.4	15.1	1.00	6.77	6.92	7.09	7.26	7.43	7.59	7.76	7.93	8.10	8.27	8.43	8.71	8.98	9.25	9.53	9.80	10.07	10.34	10.61	10.88	11.15	2.54%
Warnock (3)	15.7	15.1	1.00	5.81	5.94	6.09	6.23	6.38	6.52	6.67	6.81	6.95	7.10	7.24	7.48	7.71	7.95	8.18	8.41	8.65	8.88	9.11	9.34	9.57	2.54%
COINCIDENT SYSTEM PEAK				75.20	77.00	79.00	81.00	83.00	85.00	87.00	89.00	91.00	93.00	95.00	98.30	101.60	104.90	108.20	111.50	114.80	118.10	121.40	124.70	128.00	----
TOT. NON-COINCIDENT SUB. PEAK				76.76	78.57	80.61	82.65	84.69	86.73	88.78	90.82	92.86	94.90	96.94	100.31	103.67	107.04	110.41	113.78	117.14	120.51	123.88	127.24	130.61	----
SYSTEM GROWTH FACTORS					0.022	0.024	0.024	0.023	0.023	0.022	0.022	0.021	0.021	0.020	0.033	0.031	0.030	0.029	0.029	0.028	0.027	0.026	0.025	0.025	----
SYSTEM COINCIDENT FACTOR				97.97%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	----

Notes: (1) Historical system coincident and substation non-coincident peak loads provided by GRECC
(2) Projected coincident system peak from GRECC
(3) The available regulator capacity is less than the transformer capacity, limiting the capacity of the substation.

Exhibit 4
RUS Form 300



United States
Department of
Agriculture

Rural Economic
and Community
Development

Rural
Utilities
Service

Washington,
DC
20250

May 30, 2007

SUBJECT: OPERATIONS AND MAINTENANCE SURVEY

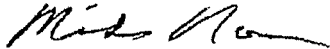
TO: CAROL ANN FRALEY, PRESIDENT & CEO
GRAYSON RECC

In accordance with 7 CFR 1730-1, a review and evaluation of your electric system and facilities as related to system operation and maintenance was made on May 30, 2007.

The objectives of this review are to carry out RUS's responsibility for loan security and to assure that your electric plant is being operated and maintained in a safe and satisfactory condition and that you are providing an acceptable quality of service.

My review has indicated that your facilities are being adequately operated and maintained and you have an effective O & M program supported by proper records.

Numerous right-of-way problems involving shade trees were observed and a more aggressive right-of-way clearing program is recommended. Directional trimming is now the recommended approach. We also observed several vines on poles which need to be removed.



MIKE NORMAN
RUS FIELD REPRESENTATIVE

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 0572-0025. The time required to complete this information collection is estimated to average 4 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 REVIEW RATING SUMMARY					BORROWER DESIGNATION KY 61 DATE PREPARED May 30, 2007																																																									
Ratings on form are: 0: Unsatisfactory -- No Records 2: Acceptable, but Should be Improved -- See Attached Recommendations NA: Not Applicable 1: Corrective Action Needed 3: Satisfactory -- No Additional Action Required at this Time																																																														
PART I. TRANSMISSION and DISTRIBUTION FACILITIES																																																														
1. Substations (Transmission and Distribution) a. Safety, Clearance, Code Compliance b. Physical Conditions: Structure, Major Equipment, Appearance c. Inspection Records - Each Substation d. Oil Spill Prevention		(Rating) NA NA NA NA	4. Distribution - Underground Cable a. Grounding and Corrosion Control b. Surface Grading, Appearance c. Riser Pole: Hazards, Guying, Condition		(Rating) 3 3 3																																																									
2. Transmission Lines a. Right-of-Way: Clearing, Erosion, Appearance, Intrusions b. Physical Condition: Structure, Conductor, Guying c. Inspection Program and Records		NA NA NA	5. Distribution Line Equipment: Conditions and Records a. Voltage Regulators b. Sectionalizing Equipment c. Distribution Transformers d. Pad Mounted Equipment Safety: Locking, Dead Front, Barriers Appearance: Settlement, Condition Other		2 2 3 3 3 3																																																									
3. Distribution Lines - Overhead a. Inspection Program and Records b. Compliance with Safety Codes:		3 Clearances 3 Foreign Structures 3 Attachments 2	e. Kilowatt-hour and Demand Meter Reading and Testing		3 3																																																									
c. Observed Physical Condition from Field Checking:		Right-of-Way 2 Other																																																												
PART II. OPERATIONS and MAINTENANCE																																																														
6. Line Maintenance and Work Order Procedures a. Work Planning & Scheduling b. Work Backlogs:		(Rating) 3 Right-of-Way Maintenance 3 Poles 3 Retirement of Idle Services 3 Other	8. Power Quality a. General Freedom from Complaints		(Rating) 3																																																									
7. Service Interruptions a. Average Annual Hours/Consumer by Cause (Complete for each of the previous 5 years)		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>PREVIOUS</th> <th>POWER</th> <th>MAJOR</th> <th>SCHEDULED</th> <th>ALL</th> <th>TOTAL</th> <th></th> </tr> <tr> <th>5 YEARS</th> <th>SUPPLIER</th> <th>STORM</th> <th></th> <th>OTHER</th> <th></th> <th>(Rating)</th> </tr> <tr> <th>(Year)</th> <th>a.</th> <th>b.</th> <th>c.</th> <th>d.</th> <th>e.</th> <th></th> </tr> </thead> <tbody> <tr> <td>2002</td> <td>0.27</td> <td>0.87</td> <td></td> <td>1.90</td> <td>3.04</td> <td>3</td> </tr> <tr> <td>2003</td> <td></td> <td>0.89</td> <td></td> <td>1.93</td> <td>2.82</td> <td>3</td> </tr> <tr> <td>2004</td> <td>1.27</td> <td>0.01</td> <td></td> <td>2.91</td> <td>4.19</td> <td>3</td> </tr> <tr> <td>2005</td> <td>0.03</td> <td>0.43</td> <td>0.15</td> <td>2.68</td> <td>3.29</td> <td>3</td> </tr> <tr> <td>2006</td> <td></td> <td>1.52</td> <td>0.41</td> <td>2.45</td> <td>4.38</td> <td>3</td> </tr> </tbody> </table>		PREVIOUS	POWER	MAJOR	SCHEDULED	ALL	TOTAL		5 YEARS	SUPPLIER	STORM		OTHER		(Rating)	(Year)	a.	b.	c.	d.	e.		2002	0.27	0.87		1.90	3.04	3	2003		0.89		1.93	2.82	3	2004	1.27	0.01		2.91	4.19	3	2005	0.03	0.43	0.15	2.68	3.29	3	2006		1.52	0.41	2.45	4.38	3	9. Loading and Load Balance a. Distribution Transformer Loading b. Load Control Apparatus c. Substation and Feeder Loading		3 NA 3
PREVIOUS	POWER	MAJOR	SCHEDULED	ALL	TOTAL																																																									
5 YEARS	SUPPLIER	STORM		OTHER		(Rating)																																																								
(Year)	a.	b.	c.	d.	e.																																																									
2002	0.27	0.87		1.90	3.04	3																																																								
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2006		1.52	0.41	2.45	4.38	3																																																								
b. Emergency Restoration Plan		3	10. Maps and Plant Records a. Operating Maps: Accurate and Up-to-Date b. Circuit Diagrams c. Staking Sheets		3 3 3																																																									
PART III. ENGINEERING																																																														
11. System Load Conditions and Losses a. Annual System Losses 5.80% b. Annual Load Factor 46.0% c. Power Factor at Monthly Peak 95+% d. Ratios of Individual Substation Annual Peak kW to kVA		(Rating) 3 3 3 3	13. Load Studies and Planning a. Long Range Engineering Plan b. Construction Work Plan c. Sectionalizing Study d. Load Data for Engineering Studies e. Load Forecasting Data		(Rating) 3 3 3 3 3																																																									
12. Voltage Conditions a. Voltage Surveys b. Substation Transformer Output Voltage Spread		3 3																																																												

Exhibit 5
Cost of Losses



LOAD LOSS CALCULATION

ANNUAL COST OF LOSS PER kW:

Cost for Demand: 1kW*DR*DF \$0.00 /kW
 Cost for Energy: (.84(LF^2) + .16(LF))*1kW*(ER)*8760 hours \$129.30 /kW

DR = Existing Power Demand Rate ⁽¹⁾
 = \$0.00 /kW
 LF = Three Year Average Annual Load Factor
 = 45.88%
 ER = Existing Power Energy Rate ⁽¹⁾
 = \$0.05900 /kWh
 DF = Three Year Average Annual Demand Factor
 = 8.06

ANNUAL COST FOR 1kW OF PEAK LOSSES: \$129.30 /kW

CORE LOSS CALCULATION

ANNUAL COST OF LOSS PER kW:

Cost for Demand: 1kW*DR*12 months \$0.00 /kW
 Cost for Energy: 1kW*ER*8760 hours \$516.84 /kW

DR = Existing Power Demand Rate ⁽¹⁾
 = \$0.00 /kW
 ER = Existing Power Energy Rate ⁽¹⁾
 = \$0.05900 /kWh

ANNUAL COST FOR 1kW OF PEAK LOSSES: \$516.84 /kW

LOAD FACTOR CALCULATION ⁽²⁾						
Month	Peak Load (kW)			Three Year Average	Percent of Peak	Percent of Peak Squared
	2005	2006	2007			
January	67,476	48,758	66,063	60,766	95.75%	0.92
February	50,222	64,802	73,356	62,793	98.94%	0.98
March	59,504	52,961	51,596	54,687	86.17%	0.74
April	41,054	39,522	51,407	43,994	69.32%	0.48
May	35,720	44,447	44,455	41,541	65.46%	0.43
June	36,781	49,376	45,788	43,982	69.30%	0.48
July	55,857	51,999	49,697	52,518	82.75%	0.68
August	53,257	54,483	55,573	54,438	85.78%	0.74
September	41,832	34,322	47,307	41,154	64.85%	0.42
October	43,182	43,926	41,729	42,946	67.67%	0.46
November	57,054	50,585	55,006	54,215	85.43%	0.73
December	64,278	64,915	61,200	63,464	100.00%	1.00
System Peak	67,476	64,915	73,356	63,464	100.00%	8.06
Ann. MWh Purch.	277,815	265,607	282,214	275,212		
Ann. Load Factor	47.00%	46.71%	43.92%	45.88%		

Notes : (1) Based on the annual energy purchases and power cost fi 2007 from the 2008 LF.
 (2) MWh Purch. and Peak Loading was provided by GRECC.

Appendix A
2008 LOAD FORECAST

Grayson Rural Electric Cooperative Corporation 2008 Load Forecast



Prepared by:
East Kentucky Power Cooperative, Inc.
Forecasting and Market Analysis
Department

June 2008



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Introduction

Executive Summary

Grayson Rural Electric Cooperative Corporation (Grayson RECC), located in Grayson, Kentucky, is an electric distribution cooperative that serves members in six counties in Kentucky. This load forecast report contains Grayson RECC's long-range forecast of energy and peak demand.

Grayson RECC and its power supplier, East Kentucky Power Cooperative (EKPC), worked jointly to prepare the load forecast. Factors considered in preparing the forecast include the national and local economy, population and housing trends, service area industrial development, electric price, household income, weather, and appliance efficiency changes.

EKPC prepared a preliminary load forecast, which was reviewed by Grayson RECC for reasonability. Final projections reflect a rigorous analysis of historical data combined with the experience and judgment of the manager and staff of Grayson RECC. Key assumptions are reported beginning on page 18.



Executive Summary *(continued)*

The load forecast is prepared biannually as part of the overall planning cycle at EKPC and Grayson RECC. Cooperation helps to ensure that the forecast meets both parties' needs. Grayson RECC uses the forecast in developing two-year work plans, long-range work plans, and financial forecasts. EKPC uses the forecast in areas of marketing analysis, transmission planning, generation planning, demand-side planning, and financial forecasting.

The complete load forecast for Grayson RECC is reported in Table 1-1. Residential and commercial sales, total purchases, winter and summer peak demands, and load factor are presented for the years 1990 through 2027.

Table 1-1
Grayson RECC
2008 Load Forecast
MWh Summary

Year	Residential Sales (MWh)	Seasonal Sales (MWh)	Small Comm. Sales (MWh)	Public Buildings (MWh)	Large Comm. Sales (MWh)	Other Sales (MWh)	Total Sales (MWh)	Office Use (MWh)	% Loss	Purchased Power (MWh)
1990	99,775	0	24,917	0	0	54	124,746	0	7.6	134,963
1991	108,329	0	27,541	0	12,511	55	148,436	0	8.3	161,820
1992	111,289	0	28,098	0	16,658	56	156,102	0	7.6	169,000
1993	121,453	0	32,268	0	15,857	68	169,646	0	7.8	184,053
1994	123,646	0	31,785	0	14,664	70	170,165	0	7.3	183,581
1995	134,204	0	34,049	0	16,246	71	184,569	0	6.8	198,013
1996	141,136	0	35,127	0	16,819	71	193,154	0	6.3	206,250
1997	141,902	0	35,184	0	18,134	73	195,293	0	6.8	209,648
1998	144,608	0	36,269	0	18,502	73	199,452	0	6.2	212,663
1999	151,055	0	38,784	0	18,389	76	208,304	0	6.7	223,158
2000	160,185	0	41,675	0	18,067	77	220,004	0	5.9	233,898
2001	164,833	0	44,052	0	18,454	77	227,415	0	3.8	236,421
2002	176,446	0	48,462	0	18,404	77	243,390	0	3.8	253,113
2003	174,698	0	47,977	0	19,156	79	241,912	0	4.1	252,309
2004	176,120	0	51,626	0	18,388	80	246,214	0	6.6	263,552
2005	187,260	0	56,561	0	17,532	80	261,433	0	5.9	277,815
2006	178,207	0	56,158	0	15,636	83	250,083	0	5.8	265,607
2007	192,737	0	59,181	0	16,264	84	268,267	0	4.9	282,214
2008	193,544	0	59,937	0	16,620	86	270,186	0	5.6	286,214
2009	196,035	0	61,361	0	17,071	87	274,553	0	5.6	290,840
2010	198,795	0	62,842	0	17,495	88	279,220	0	5.6	295,784
2011	201,546	0	64,392	0	17,905	90	283,933	0	5.6	300,776
2012	205,531	0	65,893	0	18,240	91	289,755	0	5.6	306,944
2013	208,423	0	67,421	0	18,535	92	294,472	0	5.6	311,940
2014	211,420	0	68,899	0	18,814	94	299,226	0	5.6	316,977
2015	215,249	0	70,400	0	19,096	95	304,840	0	5.6	322,923
2016	219,397	0	71,905	0	19,363	97	310,761	0	5.6	329,196
2017	222,898	0	73,400	0	19,613	98	316,008	0	5.6	334,754
2018	226,494	0	74,905	0	19,838	99	321,336	0	5.6	340,398
2019	230,895	0	76,388	0	19,982	101	327,366	0	5.6	346,786
2020	235,659	0	77,936	0	20,134	102	333,830	0	5.6	353,634
2021	239,812	0	79,441	0	20,293	103	339,649	0	5.6	359,798
2022	244,689	0	80,953	0	20,474	105	346,221	0	5.6	366,759
2023	249,469	0	82,419	0	20,651	106	352,644	0	5.6	373,564
2024	254,435	0	83,919	0	20,849	107	359,310	0	5.6	380,625
2025	259,084	0	85,413	0	21,034	109	365,640	0	5.6	387,330
2026	263,808	0	86,920	0	21,228	110	372,067	0	5.6	394,139
2027	268,157	0	88,411	0	29,673	112	386,352	0	5.6	409,271

Table 1-1 (continued)
Grayson RECC
2008 Load Forecast
Peaks Summary

<i>Winter</i>		<i>Summer</i>				
Season	Noncoincident Peak Demand (MW)	Year	Noncoincident Peak Demand (MW)	Year	Purchased Power (MWh)	Load Factor (%)
1989 - 90	32.1	1990	27.8	1990	134,963	48.0%
1990 - 91	34.0	1991	32.3	1991	161,820	54.3%
1991 - 92	37.9	1992	32.1	1992	169,000	50.9%
1992 - 93	39.9	1993	37.8	1993	184,053	52.6%
1993 - 94	50.1	1994	36.4	1994	183,581	41.8%
1994 - 95	45.9	1995	42.0	1995	198,013	49.3%
1995 - 96	53.1	1996	40.5	1996	206,250	44.3%
1996 - 97	51.0	1997	43.0	1997	209,648	46.9%
1997 - 98	47.1	1998	44.1	1998	212,663	51.5%
1998 - 99	55.0	1999	50.7	1999	223,158	46.3%
1999 - 00	59.5	2000	46.2	2000	233,898	44.9%
2000 - 01	65.2	2001	51.2	2001	236,421	41.4%
2001 - 02	58.6	2002	52.0	2002	253,113	49.3%
2002 - 03	64.5	2003	50.1	2003	252,309	44.7%
2003 - 04	68.7	2004	50.0	2004	263,552	43.8%
2004 - 05	70.4	2005	57.9	2005	277,815	45.0%
2005 - 06	67.2	2006	56.8	2006	265,607	45.1%
2006 - 07	79.1	2007	58.3	2007	282,214	40.7%
2007 - 08	76.8	2008	57.9	2008	286,214	42.6%
2008 - 09	76.0	2009	59.0	2009	290,840	43.7%
2009 - 10	77.3	2010	60.0	2010	295,784	43.7%
2010 - 11	78.6	2011	61.0	2011	300,776	43.7%
2011 - 12	80.0	2012	62.0	2012	306,944	43.8%
2012 - 13	81.6	2013	63.2	2013	311,940	43.6%
2013 - 14	82.9	2014	64.3	2014	316,977	43.6%
2014 - 15	84.5	2015	65.4	2015	322,923	43.6%
2015 - 16	86.0	2016	66.5	2016	329,196	43.7%
2016 - 17	87.7	2017	67.8	2017	334,754	43.6%
2017 - 18	89.2	2018	68.9	2018	340,398	43.5%
2018 - 19	91.0	2019	70.2	2019	346,786	43.5%
2019-2020	92.5	2020	71.3	2020	353,634	43.6%
2020-2021	94.5	2021	72.7	2021	359,798	43.4%
2021-2022	96.5	2022	74.0	2022	366,759	43.4%
2022-2023	98.4	2023	75.3	2023	373,564	43.4%
2023-2024	100.0	2024	76.5	2024	380,625	43.4%
2024-2025	102.2	2025	78.0	2025	387,330	43.3%
2025-2026	104.1	2026	79.3	2026	394,139	43.2%
2026-2027	107.2	2027	82.1	2027	409,271	43.6%

Executive Summary *(continued)*

Overall Results

- ❑ Total sales are projected to grow by 1.8 percent a year for the period 2007-2027, compared to a 1.7 percent growth projected in the 2006 load forecast for the period 2005-2025. Results shown in Table 1-2 and Figure 1-1.
- ❑ Winter and summer peak demands for the same period indicate annual growth of 1.7 and 1.8 percent, respectively. Annual peaks shown in Figure 1-2.
- ❑ Load factor will remain steady at approximately 43% for the forecast period. See Figure 1-3.

Executive Summary

Overall Results *(continued)*

Table 1-2
Grayson RECC
2008 Load Forecast
Summary of Sales Growth

Time Period	5 Year Growth Rates				Total Sales
	Residential	Small Commercial	Large Commercial	Other	
1997-2002	4.5%	6.6%	0.3%	1.2%	4.5%
2002-2007	1.8%	4.1%	-2.4%	1.6%	2.0%
2007-2012	1.3%	2.2%	2.3%	1.7%	1.6%
2012-2017	1.6%	2.2%	1.5%	1.5%	1.7%
2017-2022	1.9%	2.0%	0.9%	1.4%	1.8%
2022-2027	1.8%	1.8%	7.7%	1.3%	2.2%

Time Period	10 Year Growth Rates				Total Sales
	Residential	Small Commercial	Large Commercial	Other	
1997-2007	3.1%	5.3%	-1.1%	1.4%	3.2%
2007-2017	1.5%	2.2%	1.9%	1.6%	1.7%
2017-2027	1.9%	1.9%	4.2%	1.3%	2.0%

Figure 1-1
Average Annual Growth in Sales
2007-2027

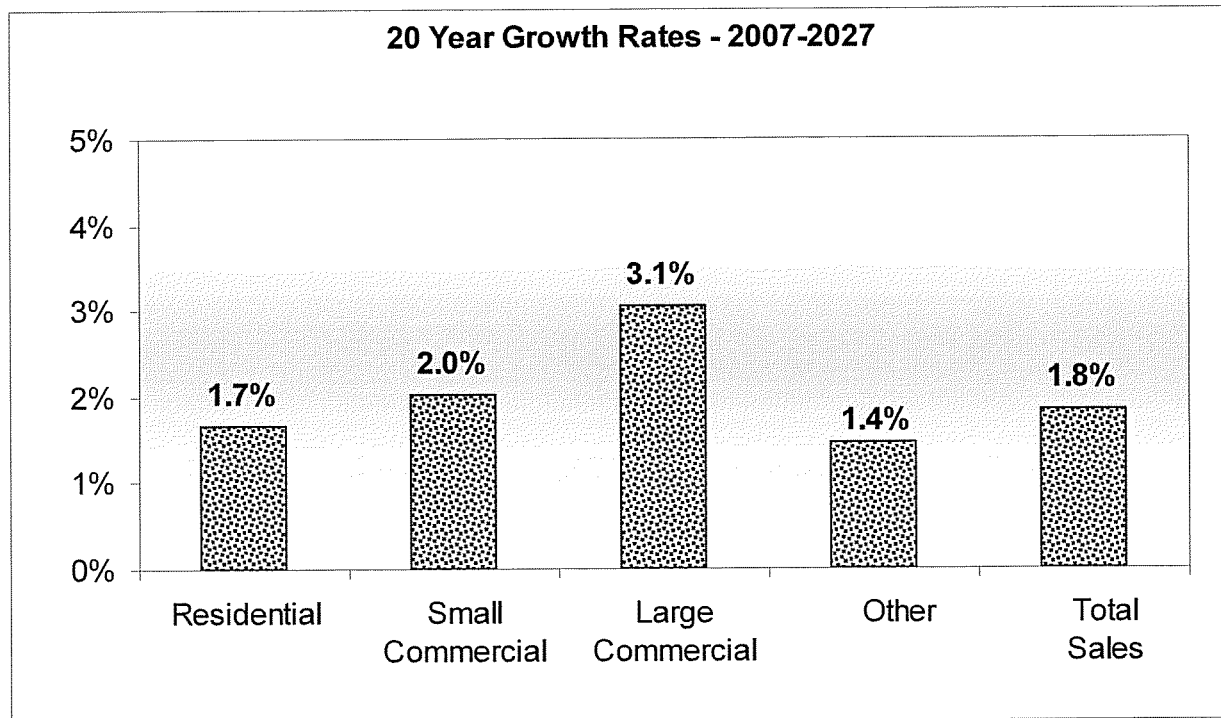


Figure 1-2 Peak Demand Forecast Winter and Summer

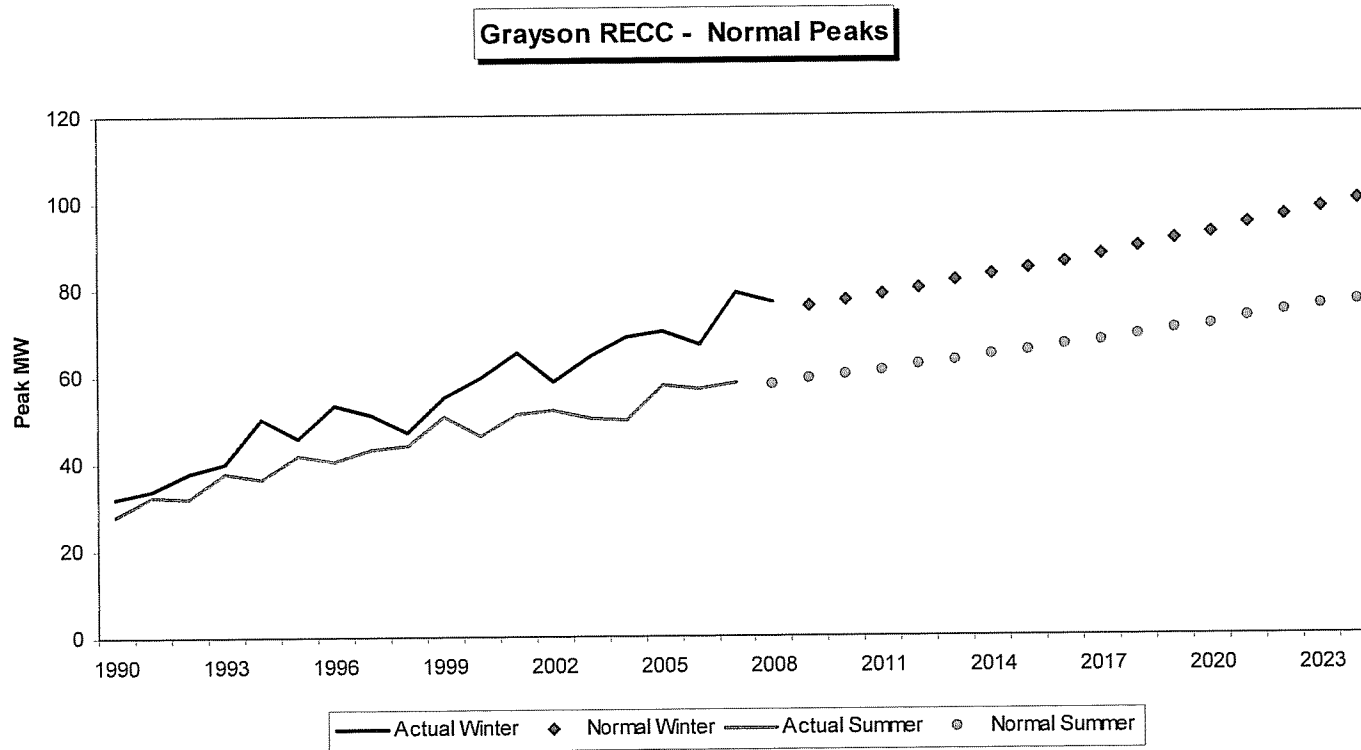
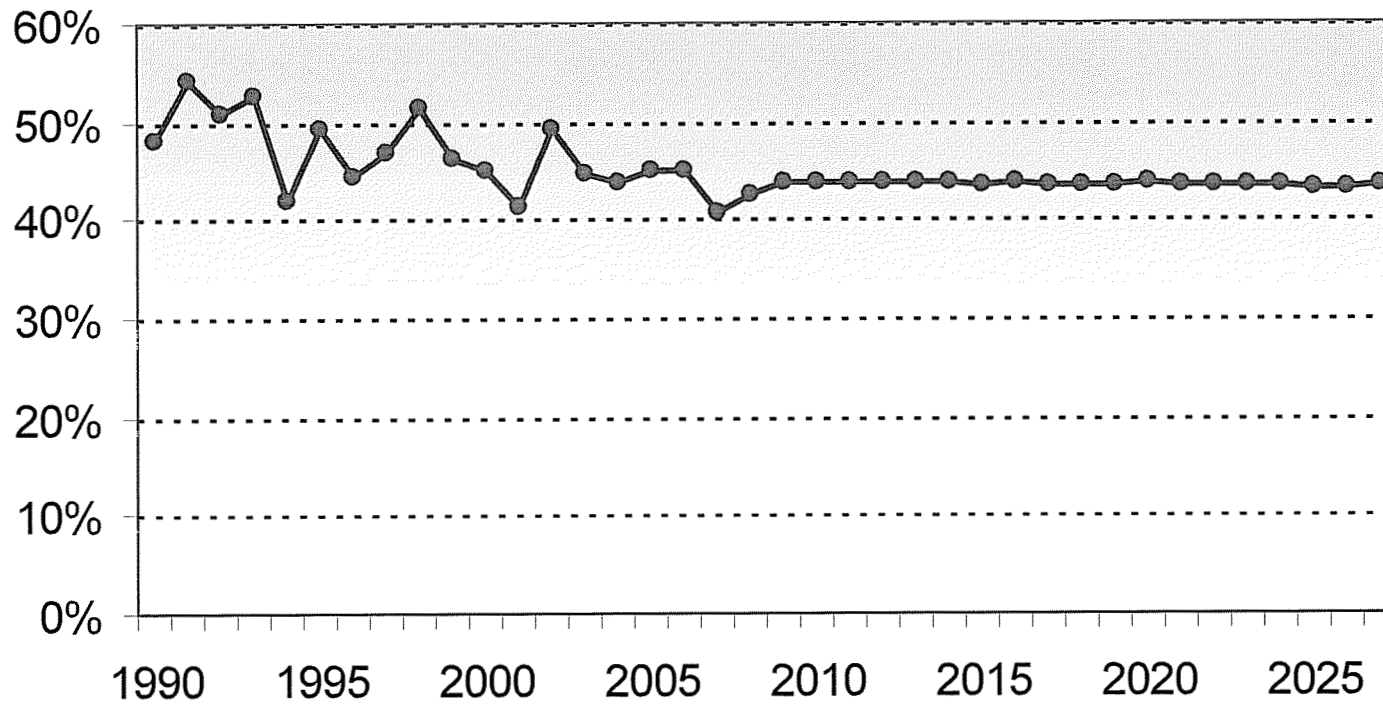



Figure 1-3
Annual System Load Factor





Narrative

Grayson RECC Members Demographic Information

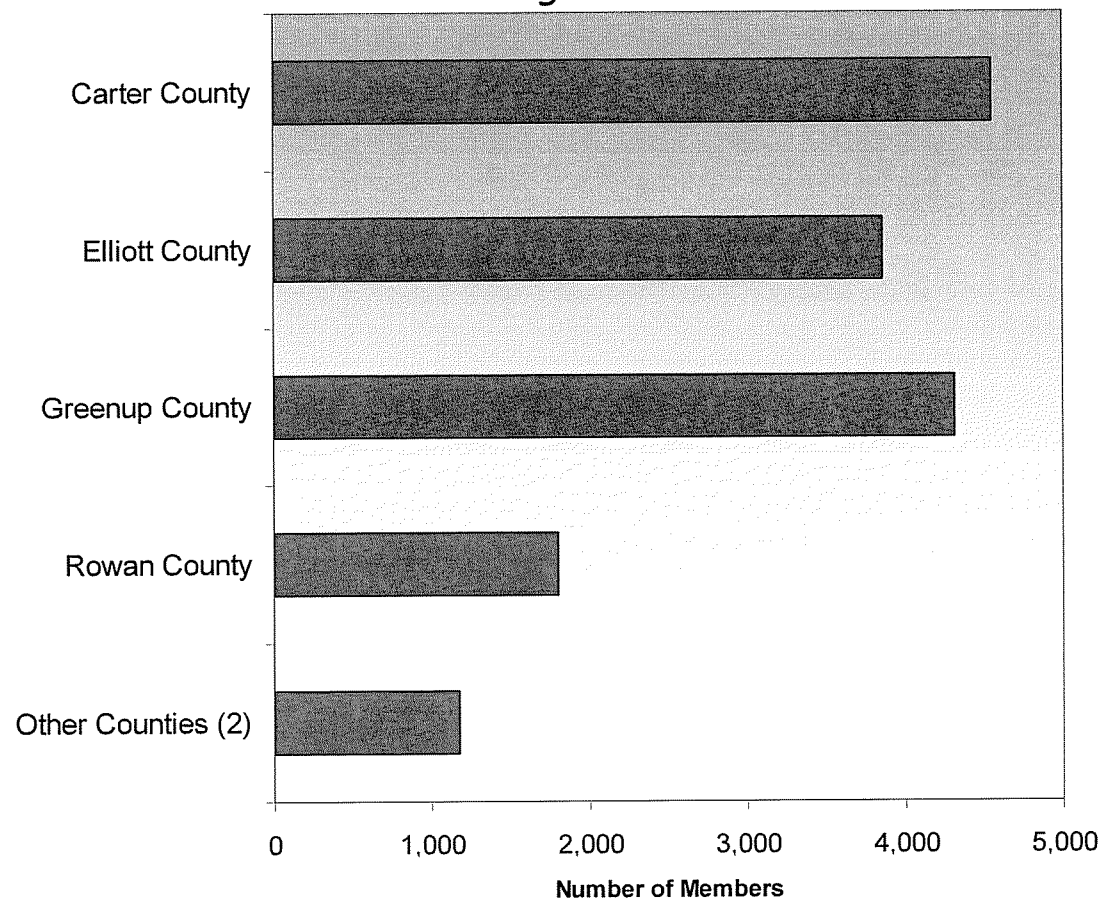
- ❑ There is an average of 2.34 people per household.
- ❑ 58% of all homes are headed by someone age 55 or greater.
- ❑ 22% of homes have farm operations, with beef cattle being most predominant.
- ❑ 22% of all homes served are less than 10 years old.


Narrative *(continued)*

Counties Served

Grayson RECC presently serves members in 6 counties.

Figure 1-4





Key Assumptions

Power Cost and Rates

- EKPC's wholesale power cost forecast used in this load forecast comes from the following report: "Twenty-Year Financial Forecast and Equity Development Plan, 2008-2027", revised February 12, 2008.
- Average residential retail rates will change from 9.407 cents/kWh in 2007 to 12.311 cents/kWh in 2027.

Key Assumptions *(continued)*

North Eastern Economic Region History and Forecast~

	Population		Households		Total Employment		Unemployment Rate		Regional Total Income	
		(%) Change		(%) Change		(%) Change		(%) Change		(%) Change
1990	250,788		93,007		77,606		8.8%		\$3,202	
1991	252,745	0.8%	94,963	2.1%	77,933	0.4%	10.1%	14.9%	\$3,350	4.6%
1992	254,920	0.9%	96,280	1.4%	80,026	2.7%	10.9%	8.5%	\$3,617	8.0%
1993	256,441	0.6%	97,016	0.8%	79,646	-0.5%	9.8%	-10.0%	\$3,655	1.0%
1994	257,720	0.5%	97,903	0.9%	82,076	3.1%	7.8%	-20.8%	\$3,837	5.0%
1995	258,925	0.5%	99,365	1.5%	83,736	2.0%	7.6%	-2.2%	\$3,953	3.0%
1996	260,247	0.5%	100,637	1.3%	85,337	1.9%	7.4%	-3.2%	\$4,135	4.6%
1997	261,862	0.6%	101,597	1.0%	87,340	2.3%	6.8%	-7.6%	\$4,439	7.4%
1998	263,275	0.5%	102,482	0.9%	89,226	2.2%	6.1%	-11.3%	\$4,652	4.8%
1999	264,646	0.5%	103,428	0.9%	89,974	0.8%	5.6%	-7.0%	\$4,670	0.4%
2000	265,827	0.4%	104,065	0.6%	91,175	1.3%	5.6%	-0.7%	\$5,137	10.0%
2001	266,848	0.4%	104,726	0.6%	91,026	-0.2%	7.4%	31.9%	\$5,205	1.3%
2002	267,719	0.3%	105,193	0.4%	93,013	2.2%	6.4%	-13.0%	\$5,394	3.6%
2003	268,535	0.3%	105,700	0.5%	93,346	0.4%	7.0%	9.6%	\$5,533	2.6%
2004	269,496	0.4%	106,200	0.5%	93,975	0.7%	6.4%	-8.7%	\$5,662	2.3%
2005	271,167	0.6%	106,823	0.6%	94,748	0.8%	6.6%	3.4%	\$6,046	6.8%
2006	272,821	0.6%	107,542	0.7%	94,664	-0.1%	5.8%	-12.2%	\$6,384	5.6%
2007	274,159	0.5%	108,187	0.6%	94,713	0.1%	6.1%	3.9%	\$6,734	5.5%
2008	275,813	0.6%	109,039	0.8%	95,785	1.1%	6.2%	2.2%	\$6,970	3.5%
2009	277,129	0.5%	109,812	0.7%	97,258	1.5%	6.2%	-0.3%	\$7,208	3.4%
2010	278,308	0.4%	110,569	0.7%	98,606	1.4%	6.1%	-1.1%	\$7,536	4.5%
2011	279,448	0.4%	111,256	0.6%	99,960	1.4%	6.3%	3.0%	\$7,842	4.1%
2012	280,611	0.4%	111,894	0.6%	101,098	1.1%	5.8%	-7.5%	\$8,230	5.0%
2017	287,249	0.4%	115,271	0.4%	106,040	0.7%	5.9%	0.2%	\$10,177	3.1%
2027	296,650	0.3%	119,752	0.4%	113,547	0.7%	6.1%	0.4%	\$15,356	4.2%

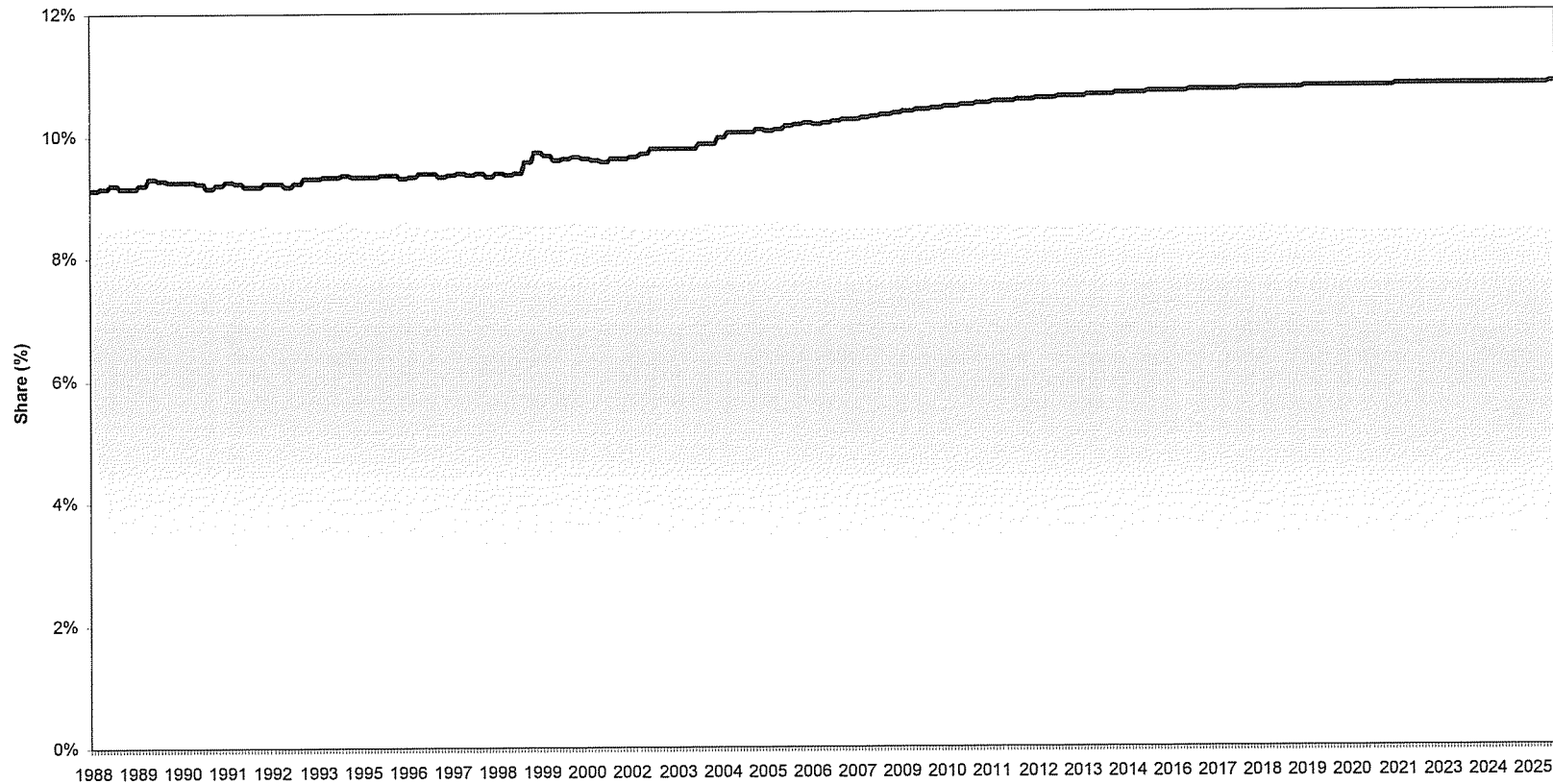
EKPC's source for economic forecasts is Global Insight. Regional Income is reported in millions of 2007 dollars. Growth rates are average annual changes.

Key Assumptions *(continued)*

Share of Regional Homes Served

Grayson RECC's market share will increase for the forecast period.

Figure 1-5

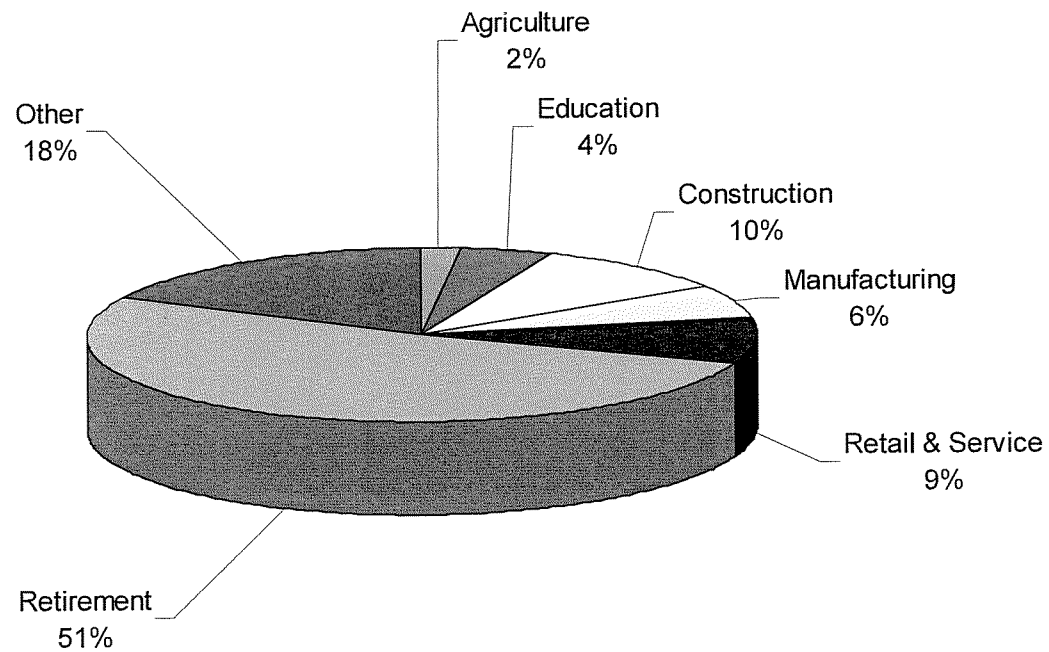


Key Assumptions *(continued)*

Household Income

Members' Greatest Sources

Figure 1-6





Key Assumptions *(continued)*

Appliance Saturations

- ❑ Electric heat saturation will increase from approximately 49 percent to approximately 55 percent.
- ❑ Central air conditioning will continue its penetration into the service area with approximately 69 percent of all residences having central air by 2027.
- ❑ Room air conditioner saturation is declining due to customers choosing central air conditioning systems.
- ❑ Electric water heater saturation will remain steady at approximately 93 percent.
- ❑ Appliance efficiency trends are accounted for in the model. The data is collected from Energy Information Administration, (EIA). See Figure 1-7.



Key Assumptions *(continued)*

Saturation Rates

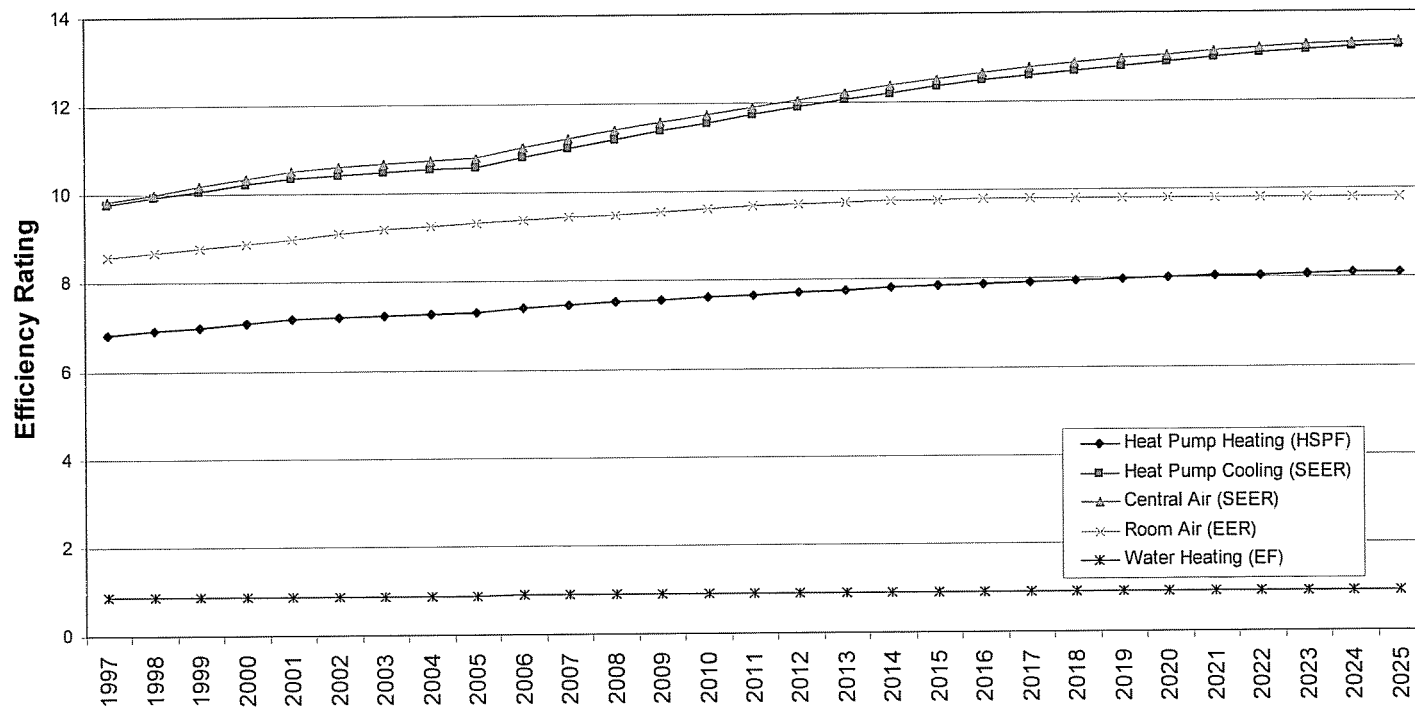
Non HVAC Appliances

□ Microwave Oven	95%
□ Electric Range	89%
□ Dishwasher	40%
□ Freezer	71%
□ Clothes Dryer	92%
□ Personal Computer	46%

Key Assumptions *(continued)*

Figure 1-7

Residential Appliance Efficiency Trends East South Central Region



Source: Energy Information Administration (EIA) Efficiency Trend Update, 2007



Key Assumptions *(continued)*

Weather

- ❑ Weather data is from the Huntington weather station.
- ❑ Normal weather, a 30-year average of historical temperatures, is assumed for the forecast years.



Methodology and Results

Introduction

This section briefly describes the methodology used to develop the load forecast and presents results in tabular and graphical form for residential and commercial classifications. Table 1-3 through Table 1-5 shows historical data for Grayson RECC as reported on RUS Form 736 and RUS Form 5.

A preliminary forecast is prepared during the first quarter depending on when Grayson RECC experiences its winter peak. The first step is modeling the regional economy. Population, income, and employment are among the areas analyzed. The regional model results are used in combination with the historical billing information, appliance saturation data, appliance efficiency data, and weather data to develop the long range forecast.

Table 1-3

Grayson RECC Comparative Annual Operating Data													
Year	kWh Purchased And Generated	Change	kWh Sold	Change	kWh Loss	% Loss	Peak Demand (MW)	Annual Load Factor	Average Number Of Consumers	Miles Of Line	Consumers Per Mile	Cost Of Purchased Power	Cents / kWh
1995	198,012,600		184,569,099		13,443,501	6.8%	45.9	49.3%	12,700	2,210	5.7	\$6,967,972	3.5
1996	206,249,769	4.2%	193,153,533	4.7%	13,096,236	6.3%	52.7	44.7%	12,982	2,226	5.8	\$6,963,630	3.4
1997	209,647,586	1.6%	195,293,259	1.1%	14,354,327	6.8%	60.0	39.9%	13,214	2,245	5.9	\$7,005,382	3.3
1998	212,662,922	1.4%	199,452,075	2.1%	13,210,847	6.2%	45.7	53.2%	13,558	2,264	6.0	\$7,155,239	3.4
1999	223,157,678	4.9%	208,303,880	4.4%	14,853,798	6.7%	54.1	47.1%	14,115	2,286	6.2	\$7,943,822	3.6
2000	233,898,374	4.8%	220,004,177	5.6%	13,894,197	5.9%	57.1	46.8%	14,126	2,309	6.1	\$8,535,706	3.6
2001	236,421,430	1.1%	227,415,106	3.4%	9,006,324	3.8%	59.3	45.5%	14,360	2,334	6.2	\$9,255,349	3.9
2002	253,113,145	7.1%	243,389,736	7.0%	9,723,409	3.8%	57.5	50.3%	14,673	2,357	6.2	\$9,731,363	3.8
2003	252,309,335	-0.3%	241,913,737	-0.6%	10,395,598	4.1%	61.9	46.5%	14,827	2,377	6.2	\$10,147,008	4.0
2004	263,552,482	4.5%	246,214,313	1.8%	17,338,169	6.6%	67.7	44.4%	15,113	2,400	6.3	\$11,697,993	4.4
2005	277,814,556	5.4%	261,432,545	6.2%	16,382,011	5.9%	64.3	49.3%	15,302	2,416	6.3	\$14,441,797	5.2
2006	265,607,453	-4.4%	250,083,354	-4.3%	15,524,099	5.8%	64.9	46.7%	15,517	2,437	6.4	\$14,834,604	5.6
2007	282,214,145	6.3%	268,266,972	7.3%	13,947,173	4.9%	61.2	52.6%	15,631	2,453	6.4	\$16,786,116	5.9
Average						5.6%							4.2

Table 1-4

Grayson RECC Comparative Annual Operating Data												
	Residential		Residential Seasonal		Commercial / Industrial (1 MW Or Less)		Commercial / Industrial (Over 1 MW)		Public Street / Highway Lighting		Public Authorities	
Year	kWh Sales	% Change	kWh Sales	% Change	kWh Sales	% Change	kWh Sales	% Change	kWh Sales	% Change	kWh Sales	% Change
1995	134,203,618		0		34,048,946		16,245,600		70,935		0	
1996	141,136,414	5.2%	0		35,126,737	3.2%	16,819,200	3.5%	71,182	0.3%	0	
1997	141,901,541	0.5%	0		35,184,409	0.2%	18,134,409	7.8%	72,900	2.4%	0	
1998	144,608,386	1.9%	0		36,269,039	3.1%	18,501,600	2.0%	73,050	0.2%	0	
1999	151,055,191	4.5%	0		38,783,839	6.9%	18,388,800	-0.6%	76,050	4.1%	0	
2000	160,185,496	6.0%	0		41,674,981	7.5%	18,067,200	-1.7%	76,500	0.6%	0	
2001	164,833,331	2.9%	0		44,051,675	5.7%	18,453,600	2.1%	76,500	0.0%	0	
2002	176,445,772	7.0%	0		48,462,370	10.0%	18,404,344	-0.3%	77,250	1.0%	0	
2003	174,698,419	-1.0%	0		47,979,579	-1.0%	19,156,464	4.1%	79,275	2.6%	0	
2004	176,119,896	0.8%	0		51,625,853	7.6%	18,388,464	-4.0%	80,100	1.0%	0	
2005	187,259,717	6.3%	0		56,560,764	9.6%	17,531,664	-4.7%	80,400	0.4%	0	
2006	178,206,517	-4.8%	0		56,158,367	-0.7%	15,635,670	-10.8%	82,800	3.0%	0	
2007	192,737,369	8.2%	0		59,181,479	5.4%	16,264,464	4.0%	83,660	1.0%	0	
Average Annual Change												
<i>2 Year</i>	2,738,826	1.5%			1,310,358	2.3%	-633,600	-3.7%	1,630	2.0%		
<i>5 Year</i>	3,258,319	1.8%			2,143,822	4.1%	-427,976	-2.4%	1,282	1.6%		
<i>10 Year</i>	5,083,583	3.1%			2,399,707	5.3%	-186,995	-1.1%	1,076	1.4%		


Table 1-5

Grayson RECC Comparative Annual Operating Data

Year	Residential		Residential Seasonal		Commercial / Industrial (1 MW Or Less)		Commercial / Industrial (Over 1 MW)		Public Street / Highway Lighting		Public Authorities	
	Consumers	kwh / Mo.	Consumers	kwh / Mo.	Consumers	kwh / Mo.	Consumers	kwh / Mo.	Consumers	kwh / Mo.	Consumers	kwh / Mo.
1995	11,702	956	0		996	2,849	1	1,353,800	1	5,911	0	
1996	11,976	982	0		1,004	2,916	1	1,401,600	1	5,932	0	
1997	12,199	969	0		1,013	2,894	1	1,511,201	1	6,075	0	
1998	12,424	970	0		1,132	2,670	1	1,541,800	1	6,088	0	
1999	12,935	973	0		1,178	2,744	1	1,532,400	1	6,338	0	
2000	12,974	1,029	0		1,150	3,020	1	1,505,600	1	6,375	0	
2001	13,183	1,042	0		1,175	3,124	1	1,537,800	1	6,375	0	
2002	13,470	1,092	0		1,201	3,363	1	1,533,695	1	6,438	0	
2003	13,632	1,068	0		1,193	3,351	1	1,596,372	1	6,606	0	
2004	13,909	1,055	0		1,202	3,579	1	1,532,372	1	6,675	0	
2005	14,067	1,109	0		1,233	3,823	1	1,460,972	1	6,700	0	
2006	14,239	1,043	0		1,276	3,668	1	1,302,973	1	6,900	0	
2007	14,342	1,120	0		1,287	3,832	1	1,355,372	1	6,972	0	
10 Year Avg	214	15			27	94	0	-15,583	0	90		
5 Year Avg	174	6			17	94	0	-35,665	0	107		
2 Year Avg	138	5			27	5	0	-52,800	0	136		

Annual Changes In Grayson RECC's Residential Class												
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Consumers	274	223	225	511	39	209	287	162	277	158	172	103
kWh/month	26	-13	1	3	56	13	50	-24	-13	54	-66	77

1999 - 2000 Reclassifications



Methodology and Results *(continued)*

The preliminary forecast was presented to Grayson RECC staff, and reviewed by the Rural Utilities Services (RUS) Field Representative. Changes were made to the forecast as needed based on new information, such as new large loads or subdivisions. In some instances, other assumptions were changed based on insights from Grayson RECC staff. Input from EKPC and Grayson RECC results in the best possible forecast.

Methodology and Results *(continued)*

Residential Forecast

Residential customers are analyzed by means of regression analysis with resulting coefficients used to prepare customer projections. Regressions for residential customers are typically a function of regional economic and demographic variables. Two variables that are very significant are the numbers of households by county in each member system's economic region and the percent of total households served by the member system. Table 1-6 and Figure 1-8 report Grayson RECC's customer forecast.

The residential energy sales were projected using a statistically adjusted end-use (SAE) approach. This method of modeling incorporates end-use forecasts and can be used to allocate the monthly and annual forecasts into end-use components. This method, like end-use modeling, requires detailed information about appliance saturation, appliance use, appliance efficiencies, household characteristics, weather characteristics, and demographic and economic information. The SAE approach segments the average household use into heating, cooling, and water heating end-use components. See Figure 1-9. This model accounts for appliance efficiency improvements. Table 1-6 reports Grayson RECC's energy forecast.

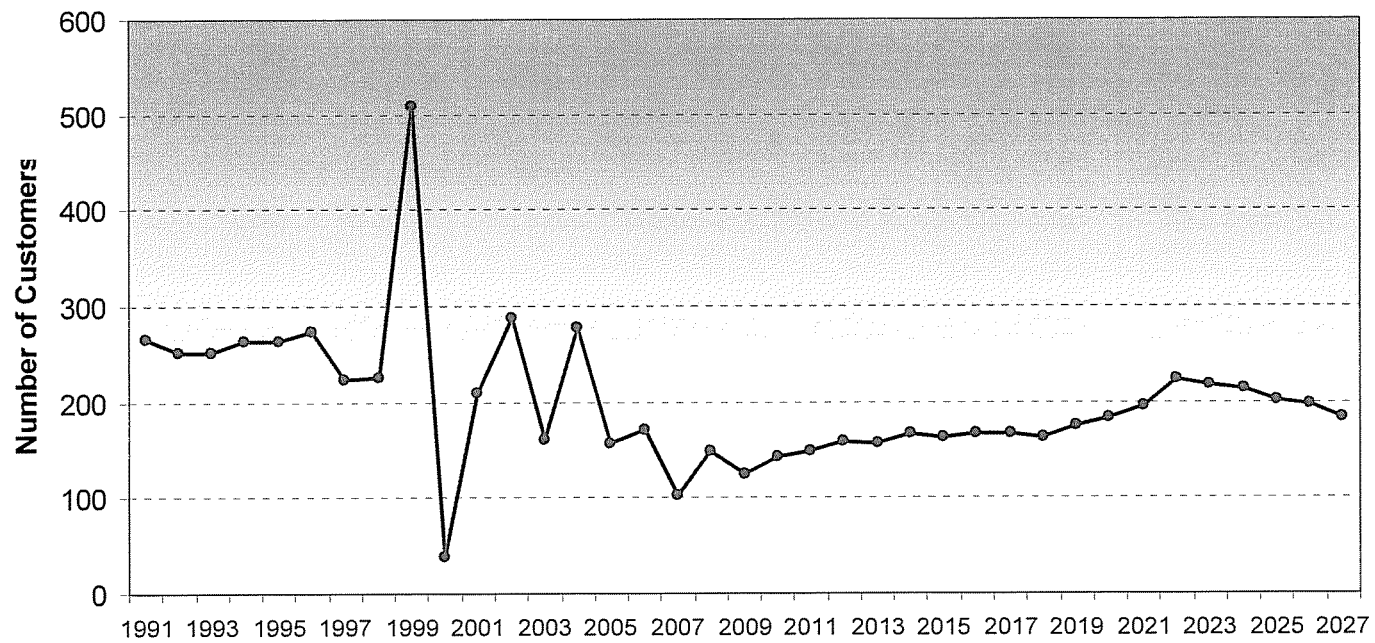
Table 1-6
Grayson RECC
2008 Load Forecast
Residential Summary

	<i>Customers</i>			<i>Use Per Customer</i>			<i>Class Sales</i>		
	Annual Average	Annual Change	% Change	Monthly Average (kWh)	Annual Change (kWh)	% Change	Total (MWh)	Annual Change (MWh)	% Change
1990	10,406			799			99,775		
1991	10,672	266	2.6	846	47	5.9	108,329	8,554	8.6
1992	10,924	252	2.4	849	3	0.4	111,289	2,960	2.7
1993	11,175	251	2.3	906	57	6.7	121,453	10,164	9.1
1994	11,439	264	2.4	901	-5	-0.5	123,646	2,193	1.8
1995	11,702	263	2.3	956	55	6.1	134,204	10,558	8.5
1996	11,976	274	2.3	982	26	2.8	141,136	6,933	5.2
1997	12,199	223	1.9	969	-13	-1.3	141,902	765	0.5
1998	12,425	226	1.9	970	1	0.1	144,608	2,707	1.9
1999	12,935	510	4.1	973	3	0.3	151,055	6,447	4.5
2000	12,974	39	0.3	1,029	56	5.7	160,185	9,130	6.0
2001	13,183	209	1.6	1,042	13	1.3	164,833	4,648	2.9
2002	13,470	287	2.2	1,092	50	4.8	176,446	11,612	7.0
2003	13,632	162	1.2	1,068	-24	-2.2	174,698	-1,747	-1.0
2004	13,909	277	2.0	1,055	-13	-1.2	176,120	1,421	0.8
2005	14,067	158	1.1	1,109	54	5.1	187,260	11,140	6.3
2006	14,239	172	1.2	1,043	-66	-6.0	178,207	-9,053	-4.8
2007	14,342	103	0.7	1,120	77	7.4	192,737	14,531	8.2
2008	14,490	148	1.0	1,113	-7	-0.6	193,544	807	0.4
2009	14,614	124	0.9	1,118	5	0.4	196,035	2,490	1.3
2010	14,757	143	1.0	1,123	5	0.4	198,795	2,760	1.4
2011	14,907	150	1.0	1,127	4	0.4	201,546	2,751	1.4
2012	15,067	160	1.1	1,137	10	0.9	205,531	3,985	2.0
2013	15,225	158	1.0	1,141	4	0.4	208,423	2,892	1.4
2014	15,392	167	1.1	1,145	4	0.3	211,420	2,996	1.4
2015	15,556	164	1.1	1,153	8	0.7	215,249	3,829	1.8
2016	15,723	167	1.1	1,163	10	0.8	219,397	4,148	1.9
2017	15,890	167	1.1	1,169	6	0.5	222,898	3,501	1.6
2018	16,054	164	1.0	1,176	7	0.6	226,494	3,596	1.6
2019	16,230	176	1.1	1,186	10	0.8	230,895	4,401	1.9
2020	16,413	183	1.1	1,197	11	0.9	235,659	4,763	2.1
2021	16,609	196	1.2	1,203	7	0.6	239,812	4,153	1.8
2022	16,833	224	1.3	1,211	8	0.7	244,689	4,877	2.0
2023	17,050	217	1.3	1,219	8	0.7	249,469	4,779	2.0
2024	17,264	214	1.3	1,228	9	0.7	254,435	4,967	2.0
2025	17,466	202	1.2	1,236	8	0.6	259,084	4,648	1.8
2026	17,664	198	1.1	1,245	8	0.7	263,808	4,725	1.8
2027	17,847	183	1.0	1,252	8	0.6	268,157	4,348	1.6

1999 - 2000 Reclassifications

Figure 1-8

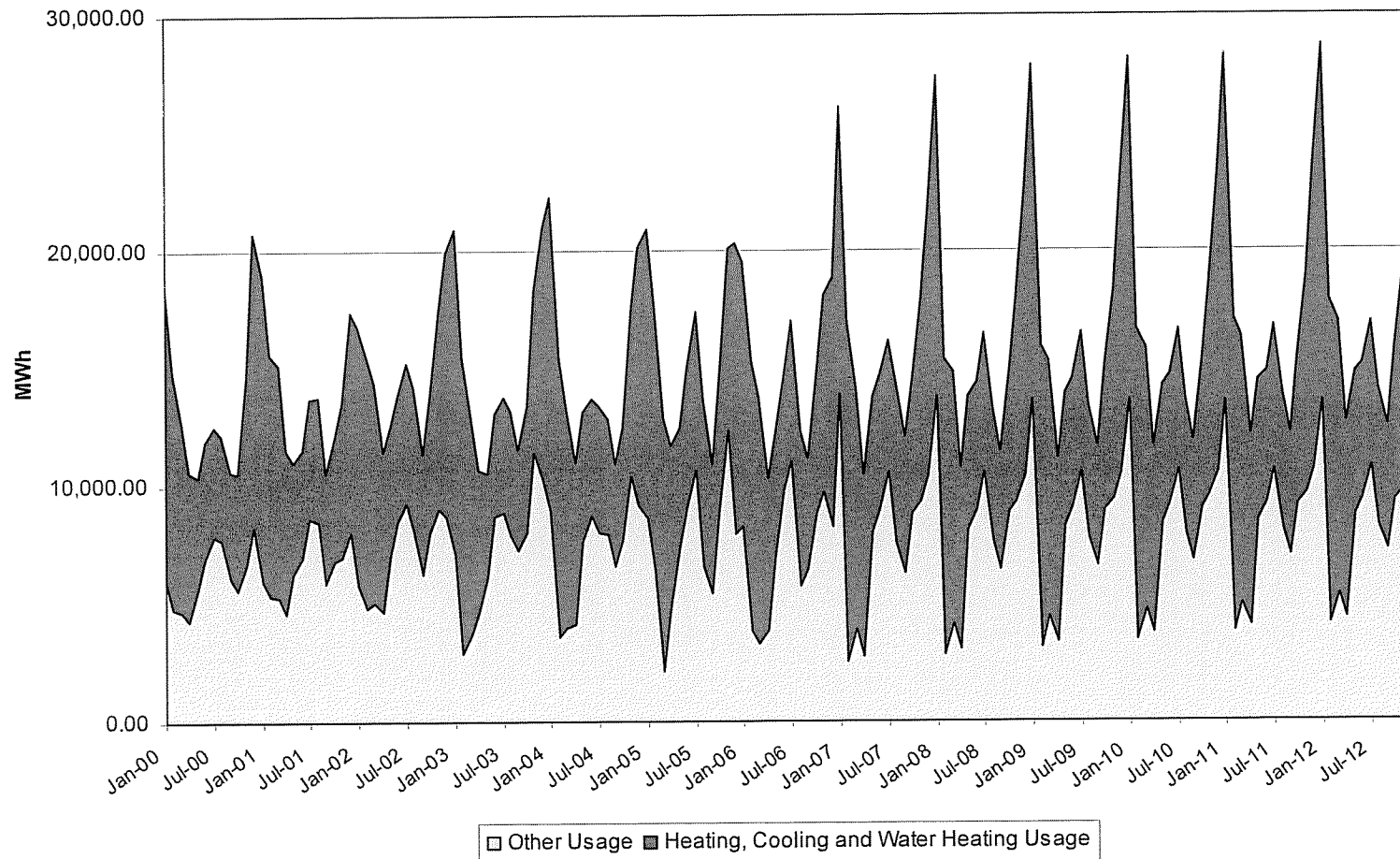
Annual Change in Residential Customers




1999 - 2000 Reclassifications

Figure 1-9

Grayson RECC Residential MWh Usage, History and Forecast





Methodology and Results *(continued)*


Small Commercial Forecast

Small commercial sales are projected using two equations, a customer equation and a small commercial sales equation. Both are determined through regression analysis and utilize inputs relating to the economy, electric price, and the residential customer forecast. Small commercial projections are reported in Table 1-7.

Table 1-7
Grayson RECC
2008 Load Forecast
Small Commercial Summary

	<i>Customers</i>			<i>Use Per Customer</i>			<i>Class Sales</i>		
	Annual Average	Annual Change	% Change	Annual Average (MWh)	Annual Change (MWh)	% Change	Total (MWh)	Annual Change (MWh)	% Change
1990	976			26			24,917		
1991	966	-10	-1.0	29	3.0	11.7	27,541	2,624	10.5
1992	970	4	0.4	29	0.5	1.6	28,098	557	2.0
1993	980	10	1.0	33	4.0	13.7	32,268	4,170	14.8
1994	969	-11	-1.1	33	-0.1	-0.4	31,785	-483	-1.5
1995	995	26	2.7	34	1.4	4.3	34,049	2,264	7.1
1996	1,004	9	0.9	35	0.8	2.2	35,127	1,078	3.2
1997	1,013	9	0.9	35	-0.3	-0.7	35,184	58	0.2
1998	1,132	119	11.7	32	-2.7	-7.8	36,269	1,085	3.1
1999	1,178	46	4.1	33	0.9	2.8	38,784	2,515	6.9
2000	1,150	-28	-2.4	36	3.3	10.1	41,675	2,891	7.5
2001	1,175	25	2.2	37	1.3	3.5	44,052	2,377	5.7
2002	1,201	26	2.2	40	2.9	7.6	48,462	4,411	10.0
2003	1,193	-8	-0.7	40	-0.1	-0.3	47,977	-485	-1.0
2004	1,202	9	0.8	43	2.7	6.8	51,626	3,648	7.6
2005	1,232	30	2.5	46	3.0	6.9	56,561	4,935	9.6
2006	1,276	44	3.6	44	-1.9	-4.1	56,158	-402	-0.7
2007	1,287	11	0.9	46	2.0	4.5	59,181	3,023	5.4
2008	1,296	9	0.7	46	0.3	0.6	59,937	755	1.3
2009	1,312	16	1.2	47	0.5	1.1	61,361	1,424	2.4
2010	1,330	18	1.4	47	0.5	1.0	62,842	1,481	2.4
2011	1,348	18	1.4	48	0.5	1.1	64,392	1,550	2.5
2012	1,366	18	1.3	48	0.5	1.0	65,893	1,501	2.3
2013	1,384	18	1.3	49	0.5	1.0	67,421	1,528	2.3
2014	1,401	17	1.2	49	0.5	1.0	68,899	1,478	2.2
2015	1,419	18	1.3	50	0.4	0.9	70,400	1,501	2.2
2016	1,437	18	1.3	50	0.4	0.9	71,905	1,505	2.1
2017	1,455	18	1.3	50	0.4	0.8	73,400	1,495	2.1
2018	1,472	17	1.2	51	0.4	0.9	74,905	1,505	2.0
2019	1,490	18	1.2	51	0.4	0.7	76,388	1,484	2.0
2020	1,508	18	1.2	52	0.4	0.8	77,936	1,547	2.0
2021	1,526	18	1.2	52	0.4	0.7	79,441	1,505	1.9
2022	1,544	18	1.2	52	0.4	0.7	80,953	1,512	1.9
2023	1,561	17	1.1	53	0.4	0.7	82,419	1,466	1.8
2024	1,579	18	1.2	53	0.3	0.7	83,919	1,500	1.8
2025	1,597	18	1.1	53	0.3	0.6	85,413	1,494	1.8
2026	1,614	17	1.1	54	0.4	0.7	86,920	1,508	1.8
2027	1,632	18	1.1	54	0.3	0.6	88,411	1,491	1.7

1999 - 2000 Reclassifications




Methodology and Results *(continued)*

Large Commercial Forecast

Large commercial customers are those with loads 1 MW or greater. Grayson RECC currently has 1 customer in this class and is projected to increase to 2 customers by 2027. Large commercial results are reported in Table 1-8.

Table 1-8
Grayson RECC
2008 Load Forecast
Large Commercial Summary

	<i>Customers</i>			<i>Use Per Customer</i>			<i>Class Sales</i>		
	Annual Average	Annual Change	% Change	Annual Average (MWh)	Annual Change (MWh)	% Change	Total (MWh)	Annual Change (MWh)	% Change
1990	0			0			0		
1991	1	1		12,511	12,511		12,511	12,511	
1992	1	0	0.0	16,658	4,147	33.1	16,658	4,147	33.1
1993	1	0	0.0	15,857	-802	-4.8	15,857	-802	-4.8
1994	1	0	0.0	14,664	-1,193	-7.5	14,664	-1,193	-7.5
1995	1	0	0.0	16,246	1,582	10.8	16,246	1,582	10.8
1996	1	0	0.0	16,819	574	3.5	16,819	574	3.5
1997	1	0	0.0	18,134	1,315	7.8	18,134	1,315	7.8
1998	1	0	0.0	18,502	367	2.0	18,502	367	2.0
1999	1	0	0.0	18,389	-113	-0.6	18,389	-113	-0.6
2000	1	0	0.0	18,067	-322	-1.7	18,067	-322	-1.7
2001	1	0	0.0	18,454	386	2.1	18,454	386	2.1
2002	1	0	0.0	18,404	-49	-0.3	18,404	-49	-0.3
2003	1	0	0.0	19,156	752	4.1	19,156	752	4.1
2004	1	0	0.0	18,388	-768	-4.0	18,388	-768	-4.0
2005	1	0	0.0	17,532	-857	-4.7	17,532	-857	-4.7
2006	1	0	0.0	15,636	-1,896	-10.8	15,636	-1,896	-10.8
2007	1	0	0.0	16,264	629	4.0	16,264	629	4.0
2008	1	0	0.0	16,620	355	2.2	16,620	355	2.2
2009	1	0	0.0	17,071	451	2.7	17,071	451	2.7
2010	1	0	0.0	17,495	424	2.5	17,495	424	2.5
2011	1	0	0.0	17,905	410	2.3	17,905	410	2.3
2012	1	0	0.0	18,240	335	1.9	18,240	335	1.9
2013	1	0	0.0	18,535	295	1.6	18,535	295	1.6
2014	1	0	0.0	18,814	279	1.5	18,814	279	1.5
2015	1	0	0.0	19,096	282	1.5	19,096	282	1.5
2016	1	0	0.0	19,363	267	1.4	19,363	267	1.4
2017	1	0	0.0	19,613	250	1.3	19,613	250	1.3
2018	1	0	0.0	19,838	226	1.2	19,838	226	1.2
2019	1	0	0.0	19,982	143	0.7	19,982	143	0.7
2020	1	0	0.0	20,134	152	0.8	20,134	152	0.8
2021	1	0	0.0	20,293	159	0.8	20,293	159	0.8
2022	1	0	0.0	20,474	182	0.9	20,474	182	0.9
2023	1	0	0.0	20,651	176	0.9	20,651	176	0.9
2024	1	0	0.0	20,849	198	1.0	20,849	198	1.0
2025	1	0	0.0	21,034	186	0.9	21,034	186	0.9
2026	1	0	0.0	21,228	194	0.9	21,228	194	0.9
2027	2	1	100.0	14,836	-6,392	-30.1	29,673	8,444	39.8




Methodology and Results *(continued)*

Other Forecast

On the RUS Form 7, Grayson RECC reports an 'Other' class which includes street lights. Results are reported in Table 1-9.

Table 1-9
Grayson RECC
2008 Load Forecast
Other Summary

	<i>Customers</i>			<i>Use Per Customer</i>			<i>Class Sales</i>		
	Annual Average	Annual Change	% Change	Monthly Average (kWh)	Annual Change (kWh)	% Change	Total (MWh)	Annual Change (MWh)	% Change
1990	1			4,500			54		
1991	1	0	0.0	4,588	88	1.9	55	1	1.9
1992	1	0	0.0	4,693	105	2.3	56	1	2.3
1993	1	0	0.0	5,663	970	20.7	68	12	20.7
1994	1	0	0.0	5,850	188	3.3	70	2	3.3
1995	1	0	0.0	5,911	61	1.0	71	1	1.0
1996	1	0	0.0	5,932	21	0.3	71	0	0.3
1997	1	0	0.0	6,075	143	2.4	73	2	2.4
1998	1	0	0.0	6,088	13	0.2	73	0	0.2
1999	1	0	0.0	6,338	250	4.1	76	3	4.1
2000	1	0	0.0	6,375	38	0.6	77	0	0.6
2001	1	0	0.0	6,375	0	0.0	77	0	0.0
2002	1	0	0.0	6,438	63	1.0	77	1	1.0
2003	1	0	0.0	6,606	169	2.6	79	2	2.6
2004	1	0	0.0	6,675	69	1.0	80	1	1.0
2005	1	0	0.0	6,700	25	0.4	80	0	0.4
2006	1	0	0.0	6,900	200	3.0	83	2	3.0
2007	1	0	0.0	6,972	72	1.0	84	1	1.0
2008	1	0	0.0	7,133	162	2.3	86	2	2.3
2009	1	0	0.0	7,247	114	1.6	87	1	1.6
2010	1	0	0.0	7,361	114	1.6	88	1	1.6
2011	1	0	0.0	7,475	114	1.5	90	1	1.5
2012	1	0	0.0	7,588	114	1.5	91	1	1.5
2013	1	0	0.0	7,702	114	1.5	92	1	1.5
2014	1	0	0.0	7,816	114	1.5	94	1	1.5
2015	1	0	0.0	7,929	114	1.5	95	1	1.5
2016	1	0	0.0	8,043	114	1.4	97	1	1.4
2017	1	0	0.0	8,157	114	1.4	98	1	1.4
2018	1	0	0.0	8,270	114	1.4	99	1	1.4
2019	1	0	0.0	8,384	114	1.4	101	1	1.4
2020	1	0	0.0	8,498	114	1.4	102	1	1.4
2021	1	0	0.0	8,612	114	1.3	103	1	1.3
2022	1	0	0.0	8,725	114	1.3	105	1	1.3
2023	1	0	0.0	8,839	114	1.3	106	1	1.3
2024	1	0	0.0	8,953	114	1.3	107	1	1.3
2025	1	0	0.0	9,066	114	1.3	109	1	1.3
2026	1	0	0.0	9,180	114	1.3	110	1	1.3
2027	1	0	0.0	9,294	114	1.2	112	1	1.2



Methodology and Results *(continued)*

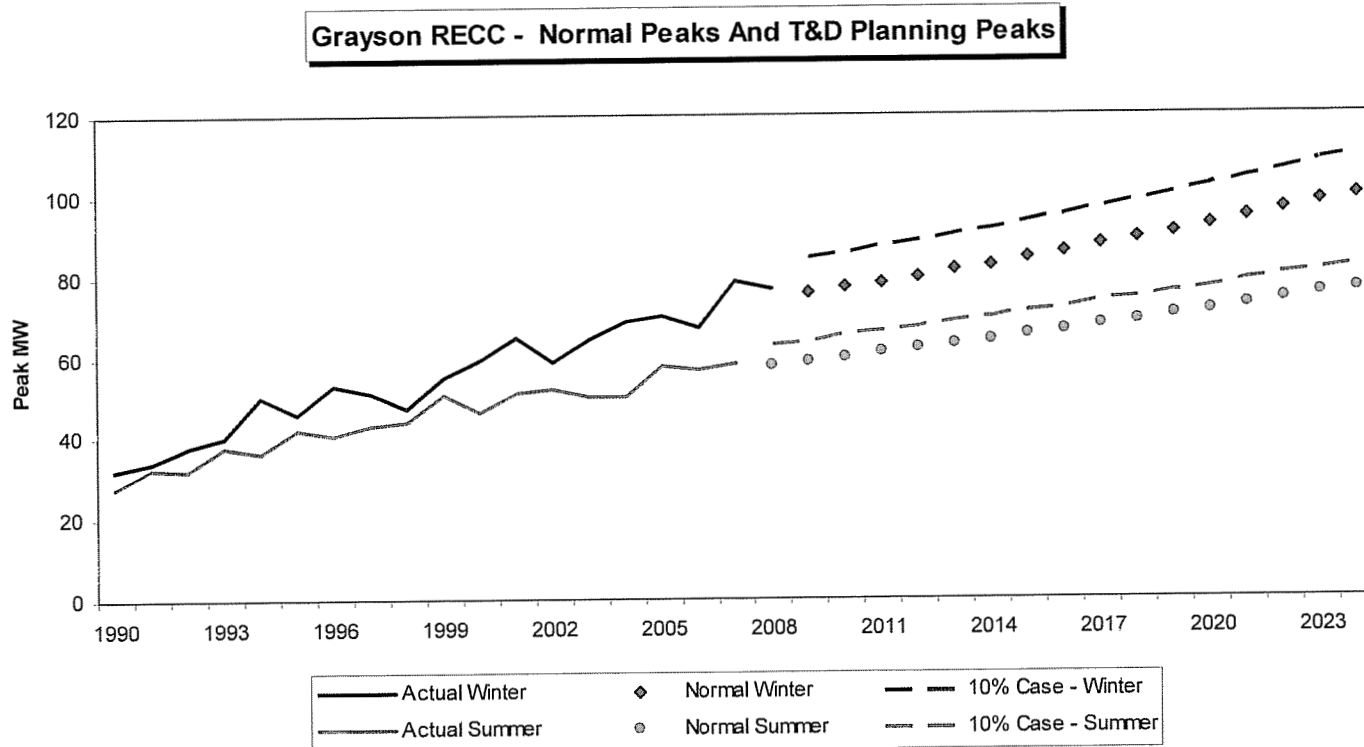
Peak Day Weather Scenarios

Extreme temperatures can dramatically influence Grayson RECC's peak demands. Table 1-10 and Figure 1-10 reports the impact of extreme weather on system demands.

Table 1-10

Grayson RECC Peak Day Weather Scenarios										
Winter Peak Day Minimum Temperatures					Summer Peak Day Maximum Temperatures					
	Mild	Normal	Extreme				Normal		Extreme	
Degrees	10	-2	-9	-14	-21	Degrees	95	98	100	103
Probability	99%	50%	20%	10%	3%	Probability	50%	20%	10%	3%
Occurs Once Every	2 Years	5 Years	10 Years	30 Years		2 Years	5 Years	10 Years	30 Years	
Noncoincident Winter Peak Demand - MW					Noncoincident Summer Peak Demand - MW					
Season	Mild	Normal	Extreme			Year	Normal	Extreme		
2008 - 09	67	76	81	85	90	2008	58	61	63	66
2009 - 10	69	77	82	86	91	2009	59	62	64	67
2010 - 11	70	79	84	87	92	2010	60	63	65	68
2011 - 12	71	80	85	89	94	2011	61	64	66	70
2012 - 13	73	82	87	90	96	2012	62	65	67	71
2013 - 14	74	83	88	92	97	2013	63	66	69	72
2014 - 15	75	85	90	94	99	2014	64	68	70	73
2015 - 16	77	86	91	95	101	2015	65	69	71	74
2016 - 17	78	88	93	97	102	2016	66	70	72	76
2017 - 18	80	89	95	99	104	2017	68	71	73	77
2018 - 19	81	91	96	100	106	2018	69	72	75	78
2019-2020	83	93	98	102	108	2019	70	74	76	80
2020-2021	85	95	100	104	110	2020	71	75	77	81
2021-2022	87	96	102	106	112	2021	73	76	79	82
2022-2023	88	98	104	108	114	2022	74	78	80	84
2023-2024	90	100	106	110	116	2023	75	79	81	85
2024-2025	92	102	108	112	118	2024	76	80	83	86
2025-2026	94	104	110	114	120	2025	78	82	84	88
2026-2027	97	107	113	118	124	2026	79	83	86	90
						2027	82	86	88	92

Figure 1-10



Appendix B

SAMPLE LOAD FLOWS

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMRs.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts											mi		-----Element-----					
		-Base Voltage:120.0-											From	Length			Cons	Cons		
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	Src	(mi)	KW	KVAR	On	Thru
Argentum-#1		ABC	Argentum	7.56Y	126.0	0.00	0.00	445.88	0	10112	-46	-100	0.00	0.0	0.000	0.000	0	0	0	1199
----- Feeder No. 0 (Argentum 2) Beginning with Device Arg_D2 -----																				
Arg_D2	Argentum-#1	ABC	240-140WVE	7.56Y	126.0	0.00	0.00	208.32	0	4724	88	100	0.00	0.0	0.000	0.000	0	0	0	591
C OH1859	Arg_D2	ABC	1/0 ACSR	7.53Y	125.6	0.44	0.44	208.32	91	4724	88	100	16.17	0.3	0.145	0.145	0	0	0	591 C
C OH1866	OH1859	ABC	1/0 ACSR	7.53Y	125.5	0.04	0.48	208.32	91	4708	74	100	1.39	0.0	0.157	0.012	0	0	0	591 C
C OH30222	OH1866	ABC	1/0 ACSR	7.53Y	125.5	0.02	0.50	207.52	90	4688	74	100	0.83	0.0	0.165	0.008	0	0	0	589 C
C OH1853	OH30222	ABC	1/0 ACSR	7.52Y	125.4	0.14	0.63	207.52	90	4687	74	100	5.04	0.1	0.210	0.045	0	0	0	588 C
C OH1901	OH1853	ABC	1/0 ACSR	7.49Y	124.9	0.47	1.11	207.27	90	4677	70	100	17.38	0.4	0.367	0.157	0	0	0	587 C
C OH1872	OH1901	ABC	1/0 ACSR	7.47Y	124.6	0.34	1.44	207.26	90	4659	55	100	12.41	0.3	0.479	0.112	0	0	0	586 C
C OH1878	OH1872	C	OH_Digitiz	7.47Y	124.5	0.01	1.45	2.08	208	15	-1	-100	0.00	0.0	0.643	0.164	0	0	0	3 C
C OH1890	OH1878	C	OH_Digitiz	7.47Y	124.5	0.01	1.46	2.08	208	15	-1	-100	0.00	0.0	0.768	0.125	0	0	0	3 C
OH1893	OH1890	C	OH_Digitiz	7.47Y	124.5	0.00	1.46	0.05	5	0	0	100	0.00	0.0	0.892	0.125	0	0	0	1
000061940400...	OH1893	C	Consumer	7.47Y	124.5	0.00	1.46	0.05	0	0	0	100	0.00	0.0	0.892	0.125	0	0	1	1
C OH1891	OH1890	C	OH_Digitiz	7.47Y	124.5	0.01	1.47	2.02	202	15	-1	-100	0.00	0.0	0.862	0.094	0	0	0	2 C
C OH1892	OH1891	C	OH_Digitiz	7.47Y	124.5	0.00	1.48	1.97	197	15	-1	-100	0.00	0.0	0.904	0.042	0	0	0	1 C
000061940400...	OH1892	C	Consumer	7.47Y	124.5	0.00	1.48	1.97	0	15	-1	-100	0.00	0.0	0.904	0.042	15	-1	1	1
OH1889	OH1891	C	OH_Digitiz	7.47Y	124.5	0.00	1.47	0.05	5	0	0	100	0.00	0.0	0.887	0.025	0	0	0	1
000061940400...	OH1889	C	Consumer	7.47Y	124.5	0.00	1.47	0.05	0	0	0	100	0.00	0.0	0.887	0.025	0	0	1	1
OH1879	OH1878	C	OH_Digitiz	7.47Y	124.5	0.00	1.45	0.00	0	0	0	100	0.00	0.0	0.660	0.017	0	0	0	0
OH1873	OH1879	C	OH_Digitiz	7.47Y	124.5	0.00	1.45	0.00	0	0	0	100	0.00	0.0	0.808	0.148	0	0	0	0
000061940400...	OH1873	C	Consumer	7.47Y	124.5	0.00	1.45	0.00	0	0	0	100	0.00	0.0	0.808	0.148	0	0	0	0
000061940400...	OH1879	C	Consumer	7.47Y	124.5	0.00	1.45	0.00	0	0	0	100	0.00	0.0	0.660	0.148	0	0	0	0
000061940400...	OH1879	C	Consumer	7.47Y	124.5	0.00	1.45	0.00	0	0	0	100	0.00	0.0	0.660	0.148	0	0	0	0
C OH1874	OH1872	A	OH_Digitiz	7.47Y	124.5	0.02	1.47	2.77	277	21	-2	-100	0.00	0.0	0.708	0.229	0	0	0	4 C
000061940400...	OH1874	A	Consumer	7.47Y	124.5	0.00	1.47	1.31	0	10	-1	-100	0.00	0.0	0.708	0.229	10	-1	1	1
000061940400...	OH1874	A	Consumer	7.47Y	124.5	0.00	1.47	0.01	0	0	0	100	0.00	0.0	0.708	0.229	0	0	1	1
000061940400...	OH1874	A	Consumer	7.47Y	124.5	0.00	1.47	0.15	0	1	0	100	0.00	0.0	0.708	0.229	1	0	1	1
000061940400...	OH1874	A	Consumer	7.47Y	124.5	0.00	1.47	1.30	0	10	-1	-100	0.00	0.0	0.708	0.229	10	-1	1	1
C OH1854	OH1872	ABC	1/0 ACSR	7.40Y	123.3	1.26	2.70	205.47	89	4607	46	100	46.41	1.0	0.906	0.427	0	0	0	578 C
OH1912	OH1854	A	OH_Digitiz	7.40Y	123.3	0.00	2.70	0.00	0	0	0	100	0.00	0.0	1.056	0.150	0	0	0	0
000061940401...	OH1912	A	Consumer	7.40Y	123.3	0.00	2.70	0.00	0	0	0	100	0.00	0.0	1.056	0.150	0	0	0	0
C OH1875	OH1854	C	OH_Digitiz	7.40Y	123.3	0.02	2.72	3.34	334	25	-2	-100	0.00	0.0	1.046	0.140	0	0	0	2 C
OH1876	OH1875	C	OH_Digitiz	7.40Y	123.3	0.00	2.72	0.52	52	4	0	100	0.00	0.0	1.124	0.079	0	0	0	1
000061940400...	OH1876	C	Consumer	7.40Y	123.3	0.00	2.72	0.52	0	4	0	100	0.00	0.0	1.124	0.079	4	0	1	1
000061940400...	OH1875	C	Consumer	7.40Y	123.3	0.00	2.72	2.81	0	21	-2	-100	0.00	0.0	1.046	0.079	21	-2	1	1
C OH1855	OH1854	ABC	1/0 ACSR	7.38Y	123.1	0.23	2.93	200.75	87	4456	15	100	8.13	0.2	0.984	0.078	0	0	0	564 C

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts													-----Element-----							
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru		
C	OH1915		OH1855	ABC	1/0 ACSR	7.37Y 122.9	0.18	3.10	200.16	87	4434	10	100	6.33	0.1	1.045	0.061	0	0	0	563	C
C	OH1916		OH1915	ABC	1/0 ACSR	7.33Y 122.2	0.67	3.77	198.81	86	4398	7	100	23.84	0.5	1.279	0.234	0	0	0	560	C
	OH1856		OH1916	ABC	1/0 ACSR	7.33Y 122.1	0.10	3.87	52.35	23	1151	-45	-100	0.99	0.1	1.420	0.140	0	0	0	152	
C	OH2012		OH1856	A	OH_Digitiz	7.33Y 122.1	0.02	3.89	3.47	347	25	-2	-100	0.00	0.0	1.558	0.139	0	0	0	3	C
C	OH2013		OH2012	A	OH_Digitiz	7.33Y 122.1	0.01	3.90	1.98	198	14	-1	-100	0.00	0.0	1.669	0.110	0	0	0	1	C
	000061940401...		OH2013	A	Consumer	7.33Y 122.1	0.00	3.90	1.98	0	14	-1	-100	0.00	0.0	1.669	0.110	14	-1	1	1	
	000061940401...		OH2012	A	Consumer	7.33Y 122.1	0.00	3.89	0.03	0	0	0	100	0.00	0.0	1.558	0.110	0	0	1	1	
	000061940401...		OH2012	A	Consumer	7.33Y 122.1	0.00	3.89	1.45	0	11	-1	-100	0.00	0.0	1.558	0.110	11	-1	1	1	
	OH1992		OH1856	ABC	1/0 ACSR	7.32Y 122.1	0.07	3.95	51.20	22	1125	-44	-100	0.71	0.1	1.524	0.104	0	0	0	149	
	OH2011		OH1992	ABC	1/0 ACSR	7.32Y 121.9	0.11	4.05	48.99	21	1076	-40	-100	1.00	0.1	1.686	0.162	0	0	0	144	
	OH2176		OH2011	ABC	1/0 ACSR	7.31Y 121.9	0.09	4.14	48.38	21	1061	-40	-100	0.79	0.1	1.816	0.130	0	0	0	143	
C	OH2177		OH2176	A	OH_Digitiz	7.31Y 121.8	0.02	4.16	1.92	192	14	-1	-100	0.00	0.0	2.115	0.298	0	0	0	2	C
	000061940401...		OH2177	A	Consumer	7.31Y 121.8	0.00	4.16	0.13	0	1	0	100	0.00	0.0	2.115	0.298	1	0	1	1	
	000061940401...		OH2177	A	Consumer	7.31Y 121.8	0.00	4.16	1.79	0	13	-1	-100	0.00	0.0	2.115	0.298	13	-1	1	1	
	OH1857		OH2176	ABC	1/0 ACSR	7.31Y 121.8	0.09	4.23	47.74	21	1047	-39	-100	0.77	0.1	1.947	0.130	0	0	0	141	
	OH2185		OH1857	ABC	1/0 ACSR	7.30Y 121.6	0.13	4.35	47.74	21	1046	-40	-100	1.13	0.1	2.138	0.192	0	0	0	141	
C	OH2191		OH2185	C	OH_Digitiz	7.30Y 121.6	0.02	4.37	3.03	303	22	-2	-100	0.00	0.0	2.268	0.129	0	0	0	2	C
	000061940401...		OH2191	C	Consumer	7.30Y 121.6	0.00	4.37	0.66	0	5	0	100	0.00	0.0	2.268	0.129	5	0	1	1	
	000061940401...		OH2191	C	Consumer	7.30Y 121.6	0.00	4.37	2.36	0	17	-2	-99	0.00	0.0	2.268	0.129	17	-2	1	1	
	OH2186		OH2185	ABC	1/0 ACSR	7.30Y 121.6	0.02	4.38	46.74	20	1023	-39	-100	0.20	0.0	2.174	0.036	0	0	0	139	
C	OH2195		OH2186	B	OH_Digitiz	7.29Y 121.6	0.04	4.42	3.50	350	25	-2	-100	0.01	0.0	2.466	0.292	0	0	0	3	C
C	OH2197		OH2195	B	OH_Digitiz	7.29Y 121.6	0.00	4.42	1.75	175	13	-1	-100	0.00	0.0	2.533	0.067	0	0	0	1	C
	000061940402...		OH2197	B	Consumer	7.29Y 121.6	0.00	4.42	1.75	0	13	-1	-100	0.00	0.0	2.533	0.067	13	-1	1	1	
C	OH2196		OH2195	B	OH_Digitiz	7.29Y 121.6	0.01	4.43	1.53	153	11	-1	-100	0.00	0.0	2.655	0.189	0	0	0	1	C
	000061940402...		OH2196	B	Consumer	7.29Y 121.6	0.00	4.43	1.53	0	11	-1	-100	0.00	0.0	2.655	0.189	11	-1	1	1	
	000061940402...		OH2195	B	Consumer	7.29Y 121.6	0.00	4.42	0.22	0	2	0	100	0.00	0.0	2.466	0.189	2	0	1	1	
	000061940402...		OH2195	B	Consumer	7.29Y 121.6	0.00	4.42	0.00	0	0	0	100	0.00	0.0	2.466	0.189	0	0	0	0	
	000061940402...		OH2195	B	Consumer	7.29Y 121.6	0.00	4.42	0.00	0	0	0	100	0.00	0.0	2.466	0.189	0	0	0	0	
	OH2187		OH2186	ABC	1/0 ACSR	7.29Y 121.6	0.07	4.45	45.57	20	997	-36	-100	0.59	0.1	2.285	0.111	0	0	0	136	
	OH2202		OH2187	A	OH_Digitiz	7.29Y 121.5	0.00	4.45	0.37	37	3	0	100	0.00	0.0	2.442	0.157	0	0	0	1	
	000061940401...		OH2202	A	Consumer	7.29Y 121.5	0.00	4.45	0.37	0	3	0	100	0.00	0.0	2.442	0.157	3	0	1	1	
	OH2188		OH2187	ABC	1/0 ACSR	7.29Y 121.5	0.03	4.48	45.45	20	994	-37	-100	0.25	0.0	2.333	0.048	0	0	0	135	
	OH2189		OH2188	ABC	1/0 ACSR	7.29Y 121.4	0.08	4.56	45.21	20	988	-36	-100	0.71	0.1	2.467	0.134	0	0	0	133	
	OH2203		OH2189	A	OH_Digitiz	7.29Y 121.4	0.00	4.56	0.00	0	0	0	100	0.00	0.0	2.595	0.128	0	0	0	0	
	000061940402...		OH2203	A	Consumer	7.29Y 121.4	0.00	4.56	0.00	0	0	0	100	0.00	0.0	2.595	0.128	0	0	0	0	
	OH2190		OH2189	ABC	1/0 ACSR	7.28Y 121.4	0.04	4.60	45.21	20	987	-37	-100	0.35	0.0	2.533	0.066	0	0	0	133	
	OH29627		OH2190	A	1/0 ACSR	7.28Y 121.4	0.00	4.60	0.00	0	0	0	100	0.00	0.0	2.768	0.235	0	0	0	0	

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts														-----Element-----				
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
000061940402...	OH29627	A	Consumer	7.28Y	121.4	0.00	4.60	0.00	0	0	0	100	0.00	0.0	2.768	0.235	0	0	0	0
OH1898	OH2190	ABC	1/0 ACSR	7.28Y	121.3	0.14	4.74	44.41	19	970	-36	-100	1.15	0.1	2.760	0.227	0	0	0	132
OH1899	OH1898	A	OH_Digitiz	7.28Y	121.3	0.00	4.74	0.00	0	0	0	100	0.00	0.0	2.838	0.078	0	0	0	0
000061910402...	OH1899	A	Consumer	7.28Y	121.3	0.00	4.74	0.00	0	0	0	100	0.00	0.0	2.838	0.078	0	0	0	0
OH1884	OH1898	ABC	1/0 ACSR	7.27Y	121.2	0.09	4.83	20.63	9	450	-21	-100	0.35	0.1	3.081	0.322	0	0	0	56
C OH1886	OH1884	B	OH_Digitiz	7.27Y	121.2	0.01	4.85	2.73	273	20	-1	-100	0.00	0.0	3.214	0.132	0	0	0	3 C
C OH1894	OH1886	B	OH_Digitiz	7.27Y	121.1	0.00	4.85	2.58	258	19	-1	-100	0.00	0.0	3.252	0.038	0	0	0	2 C
C OH1887	OH1894	B	OH_Digitiz	7.27Y	121.1	0.01	4.86	2.58	258	19	-1	-100	0.00	0.0	3.306	0.055	0	0	0	2 C
OH1888	OH1887	B	OH_Digitiz	7.27Y	121.1	0.00	4.86	0.32	32	2	1	89	0.00	0.0	3.372	0.065	0	0	0	1
000061910402...	OH1888	B	Consumer	7.27Y	121.1	0.00	4.86	0.32	0	2	1	89	0.00	0.0	3.372	0.065	2	1	1	1
000061910402...	OH1887	B	Consumer	7.27Y	121.1	0.00	4.86	2.29	0	17	-2	-99	0.00	0.0	3.306	0.065	17	-2	1	1
000061910402...	OH1894	B	Consumer	7.27Y	121.1	0.00	4.85	0.00	0	0	0	100	0.00	0.0	3.252	0.065	0	0	0	0
000061910402...	OH1886	B	Consumer	7.27Y	121.2	0.00	4.85	0.16	0	1	0	100	0.00	0.0	3.214	0.065	1	0	1	1
OH1885	OH1884	ABC	1/0 ACSR	7.27Y	121.1	0.03	4.86	19.72	9	430	-21	-100	0.11	0.0	3.188	0.107	0	0	0	53
OH1883	OH1885	ABC	1/0 ACSR	7.27Y	121.1	0.02	4.88	19.72	9	430	-21	-100	0.07	0.0	3.255	0.067	0	0	0	53
OH2184	OH1883	ABC	1/0 ACSR	7.26Y	121.1	0.05	4.93	19.70	9	429	-21	-100	0.18	0.0	3.438	0.183	0	0	0	52
OH1882	OH2184	ABC	1/0 ACSR	7.26Y	121.0	0.04	4.97	9.45	4	206	-7	-100	0.08	0.0	3.768	0.330	0	0	0	24
OH2036	OH1882	ABC	1/0 ACSR	7.26Y	121.0	0.02	4.99	9.12	4	199	-7	-100	0.03	0.0	3.888	0.120	0	0	0	23
C OH2044	OH2036	B	OH_Digitiz	7.26Y	121.0	0.01	5.00	1.73	173	13	-1	-100	0.00	0.0	4.017	0.129	0	0	0	1 C
000061910403...	OH2044	B	Consumer	7.26Y	121.0	0.00	5.00	1.73	0	13	-1	-100	0.00	0.0	4.017	0.129	13	-1	1	1
OH1860	OH2036	ABC	1/0 ACSR	7.26Y	121.0	0.01	5.00	8.41	4	183	-5	-100	0.02	0.0	4.000	0.111	0	0	0	20
C OH2046	OH1860	A	OH_Digitiz	7.26Y	121.0	0.00	5.00	1.23	123	9	-1	-99	0.00	0.0	4.040	0.040	0	0	0	2 C
000061910403...	OH2046	A	Consumer	7.26Y	121.0	0.00	5.00	0.00	0	0	0	100	0.00	0.0	4.040	0.040	0	0	1	1
000061910403...	OH2046	A	Consumer	7.26Y	121.0	0.00	5.00	1.23	0	9	-1	-99	0.00	0.0	4.040	0.040	9	-1	1	1
OH2045	OH1860	A	OH_Digitiz	7.26Y	121.0	0.00	5.00	0.00	0	0	0	100	0.00	0.0	4.130	0.131	0	0	0	0
000061910403...	OH2045	A	Consumer	7.26Y	121.0	0.00	5.00	0.00	0	0	0	100	0.00	0.0	4.130	0.131	0	0	0	0
OH2037	OH1860	ABC	1/0 ACSR	7.26Y	121.0	0.01	5.01	8.00	3	174	-5	-100	0.02	0.0	4.113	0.113	0	0	0	18
C OH2047	OH2037	B	OH_Digitiz	7.26Y	121.0	0.00	5.02	1.37	137	10	-1	-100	0.00	0.0	4.164	0.052	0	0	0	3 C
C OH2048	OH2047	B	OH_Digitiz	7.26Y	121.0	0.00	5.02	0.84	84	6	-1	-99	0.00	0.0	4.216	0.051	6	-1	1	1
000061910403...	OH2048	B	Consumer	7.26Y	121.0	0.00	5.02	0.84	0	6	-1	-99	0.00	0.0	4.216	0.051	0	0	0	0
000061910403...	OH2048	B	Consumer	7.26Y	121.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	4.216	0.051	0	0	0	0
000061910403...	OH2047	B	Consumer	7.26Y	121.0	0.00	5.02	0.24	0	2	0	100	0.00	0.0	4.164	0.051	2	0	1	1
000061910403...	OH2047	B	Consumer	7.26Y	121.0	0.00	5.02	0.29	0	2	0	100	0.00	0.0	4.164	0.051	2	0	1	1
OH2039	OH2037	ABC	1/0 ACSR	7.26Y	121.0	0.00	5.02	7.55	3	164	-4	-100	0.01	0.0	4.156	0.043	0	0	0	15
OH1861	OH2039	ABC	1/0 ACSR	7.26Y	121.0	0.00	5.02	7.33	3	160	-3	-100	0.00	0.0	4.173	0.017	0	0	0	14
C OH2063	OH1861	ABC	OH_Digitiz	7.26Y	121.0	0.00	5.02	1.59	159	34	8	97	0.00	0.0	4.233	0.059	0	0	0	2 C
000061910403...	OH2063	A	Consumer	7.26Y	121.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	4.233	0.059	0	0	0	0

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMRs.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
000061910403...	OH2063	A	Consumer	7.26Y	121.0	0.00	5.02	1.92	0	14	-1	-100	0.00	0.0	4.233	0.059	14	-1	1	1
000061910403...	OH2063	ABC	Consumer	7.26Y	121.0	0.00	5.02	1.01	0	20	10	89	0.00	0.0	4.233	0.059	20	10	1	1
000061910403...	OH2063	A	Consumer	7.26Y	121.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	4.233	0.059	0	0	0	0
000061910403...	OH2063	A	Consumer	7.26Y	121.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	4.233	0.059	0	0	0	0
C OH2051	OH1861	B	OH_Digitiz	7.26Y	120.9	0.03	5.05	4.05	405	29	-3	-99	0.01	0.0	4.363	0.190	0	0	0	1 C
000061910403...	OH2051	B	Consumer	7.26Y	120.9	0.00	5.05	4.05	0	29	-3	-99	0.00	0.0	4.363	0.190	29	-3	1	1
OH2038	OH1861	ABC	1/0 ACSR	7.26Y	121.0	0.01	5.03	4.46	2	97	-9	-100	0.01	0.0	4.321	0.147	0	0	0	11
OH2066	OH2038	ABC	1/0 ACSR	7.26Y	121.0	0.01	5.04	3.29	1	71	-7	-100	0.01	0.0	4.552	0.231	0	0	0	7
OH2072	OH2066	ABC	1/0 ACSR	7.26Y	121.0	0.01	5.05	2.25	1	49	-4	-100	0.00	0.0	4.855	0.303	0	0	0	5
OH3591	OH2072	ABC	1/0 ACSR	7.26Y	121.0	0.00	5.05	0.00	0	0	0	100	0.00	0.0	5.018	0.163	0	0	0	0
OH28861	OH3591	ABC	1/0 ACSR	7.26Y	121.0	0.00	5.05	0.00	0	0	0	100	0.00	0.0	5.019	0.001	0	0	0	0
SW78-B	OH28861	ABC	Open	7.26Y	121.0	0.00	5.05	0.00	0	0	0	100	0.00	0.0	5.019	0.001	0	0	0	0
C OH2108	OH2072	A	OH_Digitiz	7.26Y	120.9	0.01	5.06	1.79	179	13	-1	-100	0.00	0.0	4.960	0.104	0	0	0	1 C
C OH2073	OH2108	A	OH_Digitiz	7.26Y	120.9	0.01	5.06	1.79	179	13	-1	-100	0.00	0.0	5.073	0.113	0	0	0	1 C
000061910404...	OH2073	A	Consumer	7.26Y	120.9	0.00	5.06	1.79	0	13	-1	-100	0.00	0.0	5.073	0.113	13	-1	1	1
000061910404...	OH2108	A	Consumer	7.26Y	120.9	0.00	5.06	0.00	0	0	0	100	0.00	0.0	4.960	0.113	0	0	0	0
000061910404...	OH2108	A	Consumer	7.26Y	120.9	0.00	5.06	0.00	0	0	0	100	0.00	0.0	4.960	0.113	0	0	0	0
C OH2077	OH2072	B	OH_Digitiz	7.25Y	120.9	0.04	5.09	4.95	495	36	-3	-100	0.01	0.0	5.060	0.205	0	0	0	4 C
C OH29676	OH2077	B	OH_Digitiz	7.25Y	120.9	0.01	5.09	1.21	121	9	-1	-99	0.00	0.0	5.204	0.144	0	0	0	1 C
000061910404...	OH29676	B	Consumer	7.25Y	120.9	0.00	5.09	1.21	0	9	-1	-99	0.00	0.0	5.204	0.144	9	-1	1	1
C OH2118	OH2077	B	OH_Digitiz	7.25Y	120.9	0.03	5.11	3.01	301	22	-2	-100	0.01	0.0	5.290	0.229	0	0	0	2 C
OH2078	OH2118	B	OH_Digitiz	7.25Y	120.9	0.01	5.12	0.58	58	4	0	100	0.00	0.0	5.605	0.315	0	0	0	1
000061910403...	OH2078	B	Consumer	7.25Y	120.9	0.00	5.12	0.58	0	4	0	100	0.00	0.0	5.605	0.315	4	0	1	1
000061910403...	OH2078	B	Consumer	7.25Y	120.9	0.00	5.12	0.00	0	0	0	100	0.00	0.0	5.605	0.315	0	0	0	0
000061910403...	OH2078	B	Consumer	7.25Y	120.9	0.00	5.12	0.00	0	0	0	100	0.00	0.0	5.605	0.315	0	0	0	0
000061910403...	OH2078	B	Consumer	7.25Y	120.9	0.00	5.12	0.00	0	0	0	100	0.00	0.0	5.605	0.315	0	0	0	0
000061910404...	OH2118	B	Consumer	7.25Y	120.9	0.00	5.11	2.44	0	18	-2	-99	0.00	0.0	5.290	0.315	18	-2	1	1
000061910404...	OH2118	B	Consumer	7.25Y	120.9	0.00	5.11	0.00	0	0	0	100	0.00	0.0	5.290	0.315	0	0	0	0
000061910404...	OH2077	B	Consumer	7.25Y	120.9	0.00	5.09	0.72	0	5	0	100	0.00	0.0	5.060	0.315	5	0	1	1
000061910404...	OH2077	B	Consumer	7.25Y	120.9	0.00	5.09	0.00	0	0	0	100	0.00	0.0	5.060	0.315	0	0	0	0
000061910404...	OH2077	B	Consumer	7.25Y	120.9	0.00	5.09	0.00	0	0	0	100	0.00	0.0	5.060	0.315	0	0	0	0
C OH2067	OH2066	A	OH_Digitiz	7.26Y	121.0	0.01	5.05	3.12	312	23	-2	-100	0.00	0.0	4.614	0.062	0	0	0	2 C
OH2068	OH2067	A	OH_Digitiz	7.26Y	121.0	0.00	5.05	0.02	2	0	0	100	0.00	0.0	4.680	0.066	0	0	0	1
000061910404...	OH2068	A	Consumer	7.26Y	121.0	0.00	5.05	0.00	0	0	0	100	0.00	0.0	4.680	0.066	0	0	0	0
000061910404...	OH2068	A	Consumer	7.26Y	121.0	0.00	5.05	0.02	0	0	0	100	0.00	0.0	4.680	0.066	0	0	1	1
000061910404...	OH2067	A	Consumer	7.26Y	121.0	0.00	5.05	3.09	0	22	-2	-100	0.00	0.0	4.614	0.066	22	-2	1	1
000061910404...	OH2038	A	Consumer	7.26Y	121.0	0.00	5.03	0.67	0	5	0	100	0.00	0.0	4.321	0.066	5	0	1	1
000061910404...	OH2038	A	Consumer	7.26Y	121.0	0.00	5.03	1.07	0	8	-1	-99	0.00	0.0	4.321	0.066	8	-1	1	1

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts													-----Element-----					
		-Base Voltage:120.0-													mi		Cons Cons			
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	On	Thru
000061910404...	OH2038	A	Consumer	7.26Y	121.0	0.00	5.03	0.00	0	0	0	100	0.00	0.0	4.321	0.066	0	0	0	0
000061910404...	OH2038	A	Consumer	7.26Y	121.0	0.00	5.03	0.00	0	0	0	100	0.00	0.0	4.321	0.066	0	0	0	0
000061910404...	OH2038	A	Consumer	7.26Y	121.0	0.00	5.03	1.53	0	11	-1	-100	0.00	0.0	4.321	0.066	11	-1	1	1
000061910404...	OH2038	A	Consumer	7.26Y	121.0	0.00	5.03	0.25	0	2	0	100	0.00	0.0	4.321	0.066	2	0	1	1
000061910404...	OH2038	A	Consumer	7.26Y	121.0	0.00	5.03	0.00	0	0	0	100	0.00	0.0	4.321	0.066	0	0	0	0
000061910403...	OH2039	B	Consumer	7.26Y	121.0	0.00	5.02	0.65	0	5	0	100	0.00	0.0	4.156	0.066	5	0	1	1
000061910403...	OH2036	C	Consumer	7.26Y	121.0	0.00	4.99	0.17	0	1	0	100	0.00	0.0	3.888	0.066	1	0	1	1
000061910403...	OH2036	C	Consumer	7.26Y	121.0	0.00	4.99	0.23	0	2	0	100	0.00	0.0	3.888	0.066	2	0	1	1
000061910403...	OH1882	C	Consumer	7.26Y	121.0	0.00	4.97	0.99	0	7	-1	-99	0.00	0.0	3.768	0.066	7	-1	1	1
OH1881	OH2184	A	4 ACSR 7/1	7.25Y	120.8	0.26	5.19	30.75	22	223	-14	-100	0.49	0.2	3.648	0.210	0	0	0	28
OH2175	OH1881	A	4 ACSR 7/1	7.24Y	120.7	0.15	5.34	30.75	22	222	-14	-100	0.29	0.1	3.771	0.123	0	0	0	28
OH2213	OH2175	A	4 ACSR 7/1	7.24Y	120.7	0.00	5.34	0.71	1	5	0	100	0.00	0.0	3.846	0.074	0	0	0	2
OH2204	OH2213	A	4 ACSR 7/1	7.24Y	120.7	0.00	5.34	0.00	0	0	0	100	0.00	0.0	3.902	0.057	0	0	0	1
OH2205	OH2204	A	4 ACSR 7/1	7.24Y	120.7	0.00	5.34	0.00	0	0	0	100	0.00	0.0	3.992	0.089	0	0	0	0
OH2206	OH2205	A	4 ACSR 7/1	7.24Y	120.7	0.00	5.34	0.00	0	0	0	100	0.00	0.0	4.072	0.080	0	0	0	0
000061910403...	OH2206	A	Consumer	7.24Y	120.7	0.00	5.34	0.00	0	0	0	100	0.00	0.0	4.072	0.080	0	0	0	0
000061910403...	OH2205	A	Consumer	7.24Y	120.7	0.00	5.34	0.00	0	0	0	100	0.00	0.0	3.992	0.080	0	0	0	0
000061910403...	OH2205	A	Consumer	7.24Y	120.7	0.00	5.34	0.00	0	0	0	100	0.00	0.0	3.992	0.080	0	0	0	0
000061910403...	OH2204	A	Consumer	7.24Y	120.7	0.00	5.34	0.00	0	0	0	100	0.00	0.0	3.902	0.080	0	0	1	1
000061910403...	OH2204	A	Consumer	7.24Y	120.7	0.00	5.34	0.00	0	0	0	100	0.00	0.0	3.902	0.080	0	0	0	0
000061910403...	OH2204	A	Consumer	7.24Y	120.7	0.00	5.34	0.00	0	0	0	100	0.00	0.0	3.902	0.080	0	0	0	0
000061910403...	OH2204	A	Consumer	7.24Y	120.7	0.00	5.34	0.00	0	0	0	100	0.00	0.0	3.902	0.080	0	0	0	0
000061910403...	OH2213	A	Consumer	7.24Y	120.7	0.00	5.34	0.71	0	5	0	100	0.00	0.0	3.846	0.080	5	0	1	1
000061910403...	OH2213	A	Consumer	7.24Y	120.7	0.00	5.34	0.00	0	0	0	100	0.00	0.0	3.846	0.080	0	0	0	0
OH2178	OH2175	A	4 ACSR 7/1	7.24Y	120.6	0.06	5.40	29.53	21	213	-13	-100	0.11	0.1	3.822	0.051	0	0	0	25
OH2244	OH2178	A	4 ACSR 7/1	7.23Y	120.5	0.09	5.49	28.23	20	204	-12	-100	0.15	0.1	3.900	0.078	0	0	0	23
OH2248	OH2244	A	4 ACSR 7/1	7.23Y	120.5	0.00	5.49	2.54	2	18	-2	-99	0.00	0.0	3.925	0.025	0	0	0	1
000061910403...	OH2248	A	Consumer	7.23Y	120.5	0.00	5.49	2.54	0	18	-2	-99	0.00	0.0	3.925	0.025	18	-2	1	1
OH2179	OH2244	A	4 ACSR 7/1	7.23Y	120.5	0.03	5.51	25.69	18	185	-11	-100	0.04	0.0	3.926	0.026	0	0	0	22
OH2245	OH2179	A	4 ACSR 7/1	7.23Y	120.5	0.01	5.53	12.37	9	89	-8	-100	0.01	0.0	3.957	0.031	0	0	0	9
OH2249	OH2245	A	4 ACSR 7/1	7.23Y	120.5	0.00	5.53	2.23	2	16	-1	-100	0.00	0.0	3.995	0.038	0	0	0	2
000061910403...	OH2249	A	Consumer	7.23Y	120.5	0.00	5.53	1.69	0	12	-1	-100	0.00	0.0	3.995	0.038	12	-1	1	1
000061910403...	OH2249	A	Consumer	7.23Y	120.5	0.00	5.53	0.53	0	4	0	100	0.00	0.0	3.995	0.038	4	0	1	1
OH2246	OH2245	A	4 ACSR 7/1	7.23Y	120.5	0.01	5.54	10.14	7	73	-7	-100	0.01	0.0	3.984	0.027	0	0	0	7
OH2250	OH2246	A	4 ACSR 7/1	7.23Y	120.5	0.01	5.55	6.72	5	48	-4	-100	0.00	0.0	4.019	0.035	0	0	0	4
000061910403...	OH2250	A	Consumer	7.23Y	120.5	0.00	5.55	0.05	0	0	0	100	0.00	0.0	4.019	0.035	0	0	1	1
000061910403...	OH2250	A	Consumer	7.23Y	120.5	0.00	5.55	0.00	0	0	0	100	0.00	0.0	4.019	0.035	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
000061910403...	OH2250	A	Consumer	7.23Y	120.5	0.00	5.55	1.57	0	11	-1	-100	0.00	0.0	4.019	0.035	11	-1	1	1
000061910403...	OH2250	A	Consumer	7.23Y	120.5	0.00	5.55	3.04	0	22	-2	-100	0.00	0.0	4.019	0.035	22	-2	1	1
000061910403...	OH2250	A	Consumer	7.23Y	120.5	0.00	5.55	0.00	0	0	0	100	0.00	0.0	4.019	0.035	0	0	0	0
000061910403...	OH2250	A	Consumer	7.23Y	120.5	0.00	5.55	2.06	0	15	-1	-100	0.00	0.0	4.019	0.035	15	-1	1	1
OH2247	OH2246	A	4 ACSR 7/1	7.23Y	120.5	0.01	5.54	3.42	2	25	-2	-100	0.00	0.0	4.027	0.043	0	0	0	3
OH2207	OH2247	A	4 ACSR 7/1	7.23Y	120.4	0.01	5.55	2.66	2	19	-2	-99	0.00	0.0	4.096	0.069	0	0	0	2
000061910403...	OH2207	A	Consumer	7.23Y	120.4	0.00	5.55	0.00	0	0	0	100	0.00	0.0	4.096	0.069	0	0	0	0
000061910403...	OH2207	A	Consumer	7.23Y	120.4	0.00	5.55	0.00	0	0	0	100	0.00	0.0	4.096	0.069	0	0	0	0
000061910403...	OH2207	A	Consumer	7.23Y	120.4	0.00	5.55	0.00	0	0	0	100	0.00	0.0	4.096	0.069	0	0	1	1
000061910403...	OH2207	A	Consumer	7.23Y	120.4	0.00	5.55	0.00	0	0	0	100	0.00	0.0	4.096	0.069	0	0	0	0
000061910403...	OH2207	A	Consumer	7.23Y	120.4	0.00	5.55	0.00	0	0	0	100	0.00	0.0	4.096	0.069	0	0	0	0
000061910403...	OH2207	A	Consumer	7.23Y	120.4	0.00	5.55	2.66	0	19	-2	-99	0.00	0.0	4.096	0.069	19	-2	1	1
000061910403...	OH2207	A	Consumer	7.23Y	120.4	0.00	5.55	0.00	0	0	0	100	0.00	0.0	4.096	0.069	0	0	0	0
000061910403...	OH2247	A	Consumer	7.23Y	120.5	0.00	5.54	0.76	0	5	-1	-98	0.00	0.0	4.027	0.069	5	-1	1	1
000061910403...	OH2247	A	Consumer	7.23Y	120.5	0.00	5.54	0.00	0	0	0	100	0.00	0.0	4.027	0.069	0	0	0	0
OH2180	OH2179	A	4 ACSR 7/1	7.23Y	120.4	0.04	5.55	13.33	10	96	-3	-100	0.03	0.0	4.003	0.077	0	0	0	13
OH2199	OH2180	A	4 ACSR 7/1	7.23Y	120.4	0.00	5.55	0.00	0	0	0	100	0.00	0.0	4.104	0.101	0	0	0	0
000061910403...	OH2199	A	Consumer	7.23Y	120.4	0.00	5.55	0.00	0	0	0	100	0.00	0.0	4.104	0.101	0	0	0	0
OH2181	OH2180	A	4 ACSR 7/1	7.22Y	120.4	0.04	5.60	12.42	9	90	-2	-100	0.03	0.0	4.090	0.087	0	0	0	11
OH2220	OH2181	A	4 ACSR 7/1	7.22Y	120.4	0.04	5.63	10.84	8	78	-7	-100	0.02	0.0	4.176	0.085	0	0	0	9
OH2221	OH2220	A	4 ACSR 7/1	7.22Y	120.4	0.01	5.65	9.28	7	67	-6	-100	0.01	0.0	4.212	0.036	0	0	0	8
OH2182	OH2221	A	4 ACSR 7/1	7.22Y	120.3	0.00	5.65	3.06	2	22	-2	-100	0.00	0.0	4.253	0.041	0	0	0	5
OH2299	OH2182	A	4 ACSR 7/1	7.22Y	120.3	0.00	5.65	0.15	0	1	0	100	0.00	0.0	4.285	0.032	0	0	0	1
OH1871	OH2299	A	4 ACSR 7/1	7.22Y	120.3	0.00	5.65	0.00	0	0	0	100	0.00	0.0	4.375	0.090	0	0	0	0
000061910403...	OH1871	A	Consumer	7.22Y	120.3	0.00	5.65	0.00	0	0	0	100	0.00	0.0	4.375	0.090	0	0	0	0
000061910403...	OH2299	A	Consumer	7.22Y	120.3	0.00	5.65	0.15	0	1	0	100	0.00	0.0	4.285	0.090	1	0	1	1
OH2183	OH2182	A	4 ACSR 7/1	7.22Y	120.3	0.01	5.66	2.91	2	21	-2	-100	0.00	0.0	4.314	0.061	0	0	0	4
OH2289	OH2183	A	4 ACSR 7/1	7.22Y	120.3	0.00	5.66	0.00	0	0	0	100	0.00	0.0	4.355	0.041	0	0	0	0
000061910403...	OH2289	A	Consumer	7.22Y	120.3	0.00	5.66	0.00	0	0	0	100	0.00	0.0	4.355	0.041	0	0	0	0
OH2193	OH2183	A	4 ACSR 7/1	7.22Y	120.3	0.00	5.66	1.95	1	14	-1	-100	0.00	0.0	4.377	0.063	0	0	0	2
OH2194	OH2193	A	4 ACSR 7/1	7.22Y	120.3	0.00	5.66	0.00	0	0	0	100	0.00	0.0	4.446	0.069	0	0	0	0
000061910403...	OH2194	A	Consumer	7.22Y	120.3	0.00	5.66	0.00	0	0	0	100	0.00	0.0	4.446	0.069	0	0	0	0
000061910403...	OH2193	A	Consumer	7.22Y	120.3	0.00	5.66	0.62	0	4	0	100	0.00	0.0	4.377	0.069	4	0	1	1
000061910403...	OH2193	A	Consumer	7.22Y	120.3	0.00	5.66	1.33	0	10	-1	-100	0.00	0.0	4.377	0.069	10	-1	1	1
000061910403...	OH2193	A	Consumer	7.22Y	120.3	0.00	5.66	0.00	0	0	0	100	0.00	0.0	4.377	0.069	0	0	0	0
OH2192	OH2183	A	4 ACSR 7/1	7.22Y	120.3	0.00	5.66	0.96	1	7	-1	-99	0.00	0.0	4.395	0.081	0	0	0	2
000061910403...	OH2192	A	Consumer	7.22Y	120.3	0.00	5.66	0.05	0	0	0	100	0.00	0.0	4.395	0.081	0	0	1	1
000061910403...	OH2192	A	Consumer	7.22Y	120.3	0.00	5.66	0.90	0	7	-1	-99	0.00	0.0	4.395	0.081	7	-1	1	1

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
000061910403...	OH2183	A	Consumer	7.22Y	120.3	0.00	5.66	0.00	0	0	0	100	0.00	0.0	4.314	0.081	0	0	0	0
000061910403...	OH2221	A	Consumer	7.22Y	120.4	0.00	5.65	1.67	0	12	-1	-100	0.00	0.0	4.212	0.081	12	-1	1	1
000061910403...	OH2221	A	Consumer	7.22Y	120.4	0.00	5.65	2.67	0	19	-2	-99	0.00	0.0	4.212	0.081	19	-2	1	1
000061910403...	OH2221	A	Consumer	7.22Y	120.4	0.00	5.65	1.89	0	14	-1	-100	0.00	0.0	4.212	0.081	14	-1	1	1
000061910403...	OH2221	A	Consumer	7.22Y	120.4	0.00	5.65	0.00	0	0	0	100	0.00	0.0	4.212	0.081	0	0	0	0
000061910403...	OH2220	A	Consumer	7.22Y	120.4	0.00	5.63	1.56	0	11	-1	-100	0.00	0.0	4.176	0.081	11	-1	1	1
OH2198	OH2181	A	4 ACSR 7/1	7.22Y	120.4	0.01	5.60	1.74	1	12	5	92	0.00	0.0	4.161	0.071	0	0	0	2
000061910403...	OH2198	A	Consumer	7.22Y	120.4	0.00	5.60	0.50	0	4	0	100	0.00	0.0	4.161	0.071	4	0	1	1
000061910403...	OH2198	A	Consumer	7.22Y	120.4	0.00	5.60	0.00	0	0	0	100	0.00	0.0	4.161	0.071	0	0	0	0
000061910403...	OH2198	A	Consumer	7.22Y	120.4	0.00	5.60	0.00	0	0	0	100	0.00	0.0	4.161	0.071	0	0	0	0
000061910403...	OH2198	A	Consumer	7.22Y	120.4	0.00	5.60	1.32	0	8	5	85	0.00	0.0	4.161	0.071	8	5	1	1
000061910403...	OH2180	A	Consumer	7.23Y	120.4	0.00	5.55	0.81	0	6	-1	-99	0.00	0.0	4.003	0.071	6	-1	1	1
000061910403...	OH2180	A	Consumer	7.23Y	120.4	0.00	5.55	0.12	0	1	0	100	0.00	0.0	4.003	0.071	1	0	1	1
OH2200	OH2178	A	4 ACSR 7/1	7.24Y	120.6	0.00	5.40	1.30	1	9	-1	-99	0.00	0.0	3.840	0.018	0	0	0	2
OH2201	OH2200	A	4 ACSR 7/1	7.24Y	120.6	0.00	5.40	0.56	0	4	0	100	0.00	0.0	3.887	0.047	0	0	0	1
000061910403...	OH2201	A	Consumer	7.24Y	120.6	0.00	5.40	0.56	0	4	0	100	0.00	0.0	3.887	0.047	4	0	1	1
000061910403...	OH2200	A	Consumer	7.24Y	120.6	0.00	5.40	0.74	0	5	0	100	0.00	0.0	3.840	0.047	5	0	1	1
000061910403...	OH2175	A	Consumer	7.24Y	120.7	0.00	5.34	0.00	0	0	0	100	0.00	0.0	3.771	0.047	0	0	0	0
000061910403...	OH2175	A	Consumer	7.24Y	120.7	0.00	5.34	0.50	0	4	0	100	0.00	0.0	3.771	0.047	4	0	1	1
OH2174	OH1881	A	4 ACSR 7/1	7.25Y	120.8	0.00	5.19	0.00	0	0	0	100	0.00	0.0	3.717	0.068	0	0	0	0
000061910403...	OH2174	A	Consumer	7.25Y	120.8	0.00	5.19	0.00	0	0	0	100	0.00	0.0	3.717	0.068	0	0	0	0
000061910403...	OH1883	C	Consumer	7.27Y	121.1	0.00	4.88	0.07	0	1	0	100	0.00	0.0	3.255	0.068	1	0	1	1
000061910403...	OH1883	C	Consumer	7.27Y	121.1	0.00	4.88	0.00	0	0	0	100	0.00	0.0	3.255	0.068	0	0	0	0
000061910403...	OH1883	C	Consumer	7.27Y	121.1	0.00	4.88	0.00	0	0	0	100	0.00	0.0	3.255	0.068	0	0	0	0
000061910402...	OH1885	A	Consumer	7.27Y	121.1	0.00	4.86	0.00	0	0	0	100	0.00	0.0	3.188	0.068	0	0	0	0
OCR-1023	OH1898	C	50-4H OCR	7.28Y	121.3	0.00	4.74	71.33	0	519	-16	-100	0.00	0.0	2.760	0.068	0	0	0	76
OH1904	OCR-1023	C	6A CWC 3 S	7.24Y	120.6	0.66	5.40	71.33	51	519	-16	-100	2.87	0.6	2.990	0.230	0	0	0	76
OH1910	OH1904	C	6A CWC 3 S	7.22Y	120.3	0.33	5.73	70.47	50	510	-17	-100	1.43	0.3	3.107	0.117	0	0	0	75
OH2014	OH1910	C	6A CWC 3 S	7.18Y	119.7	0.59	6.32	63.73	46	460	-13	-100	2.29	0.5	3.337	0.230	0	0	0	69
OH1903	OH2014	C	6A CWC 3 S	7.17Y	119.6	0.12	6.44	62.42	45	448	-14	-100	0.47	0.1	3.386	0.049	0	0	0	68
OH1971	OH1903	C	6A CWC 3 S	7.14Y	119.1	0.50	6.94	61.81	44	443	-13	-100	1.90	0.4	3.589	0.202	0	0	0	67
OH1972	OH1971	C	6A CWC 3 S	7.14Y	119.1	0.00	6.94	0.00	0	0	0	100	0.00	0.0	3.738	0.149	0	0	0	0
000061910402...	OH1972	C	Consumer	7.14Y	119.1	0.00	6.94	0.00	0	0	0	100	0.00	0.0	3.738	0.149	0	0	0	0
OH1965	OH1971	C	6A CWC 3 S	7.11Y	118.5	0.54	7.49	61.81	44	441	-15	-100	2.06	0.5	3.808	0.220	0	0	0	67
OH1964	OH1965	C	6A CWC 3 S	7.10Y	118.4	0.10	7.59	61.68	44	438	-16	-100	0.36	0.1	3.847	0.039	0	0	0	66
OH1976	OH1964	C	6A CWC 3 S	7.10Y	118.4	0.00	7.59	0.74	1	5	0	100	0.00	0.0	3.977	0.130	0	0	0	1
000061910402...	OH1976	C	Consumer	7.10Y	118.4	0.00	7.59	0.74	0	5	0	100	0.00	0.0	3.977	0.130	5	0	1	1

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OH1963	OH1964	C	6A CWC 3 S	7.10Y	118.3	0.07	7.66	60.94	44	433	-15	-100	0.27	0.1	3.878	0.030	0	0	0	65
OH2471	OH1963	C	6A CWC 3 S	7.08Y	117.9	0.41	8.07	58.23	42	413	-14	-100	1.46	0.4	4.053	0.175	0	0	0	62
OH2498	OH2471	C	6A CWC 3 S	7.08Y	117.9	0.01	8.08	2.30	2	16	-1	-100	0.00	0.0	4.187	0.134	0	0	0	2
000061900002...	OH2498	C	Consumer	7.08Y	117.9	0.00	8.08	1.62	0	11	-1	-100	0.00	0.0	4.187	0.134	11	-1	1	1
000061900002...	OH2498	C	Consumer	7.08Y	117.9	0.00	8.08	0.68	0	5	0	100	0.00	0.0	4.187	0.134	5	0	1	1
OH2472	OH2471	C	6A CWC 3 S	7.06Y	117.6	0.31	8.38	55.94	40	396	-13	-100	1.06	0.3	4.192	0.139	0	0	0	60
OH2473	OH2472	C	6A CWC 3 S	7.04Y	117.3	0.32	8.70	52.20	37	368	-11	-100	1.04	0.3	4.347	0.155	0	0	0	59
OH2474	OH2473	C	6A CWC 3 S	7.03Y	117.1	0.18	8.88	51.87	37	365	-13	-100	0.57	0.2	4.433	0.086	0	0	0	58
OH2492	OH2474	C	6A CWC 3 S	7.03Y	117.1	0.01	8.89	2.46	2	17	-2	-99	0.00	0.0	4.522	0.089	0	0	0	1
000061900002...	OH2492	C	Consumer	7.03Y	117.1	0.00	8.89	2.46	0	17	-2	-99	0.00	0.0	4.522	0.089	17	-2	1	1
000061900002...	OH2492	C	Consumer	7.03Y	117.1	0.00	8.89	0.00	0	0	0	100	0.00	0.0	4.522	0.089	0	0	0	0
000061900002...	OH2492	C	Consumer	7.03Y	117.1	0.00	8.89	0.00	0	0	0	100	0.00	0.0	4.522	0.089	0	0	0	0
OH2486	OH2474	C	6A CWC 3 S	7.03Y	117.1	0.01	8.89	3.30	2	23	-2	-100	0.00	0.0	4.531	0.098	0	0	0	7
OH2512	OH2486	C	6A CWC 3 S	7.03Y	117.1	0.01	8.91	3.30	2	23	-2	-100	0.00	0.0	4.634	0.104	0	0	0	7
OH2491	OH2512	C	6A CWC 3 S	7.02Y	117.1	0.02	8.93	3.29	2	23	-2	-100	0.00	0.0	4.780	0.146	0	0	0	6
OH2493	OH2491	C	6A CWC 3 S	7.02Y	117.1	0.01	8.94	2.68	2	19	-2	-99	0.00	0.0	4.905	0.125	0	0	0	1
000061900002...	OH2493	C	Consumer	7.02Y	117.1	0.00	8.94	2.68	0	19	-2	-99	0.00	0.0	4.905	0.125	19	-2	1	1
OH2487	OH2491	C	6A CWC 3 S	7.02Y	117.1	0.01	8.93	0.61	0	4	0	100	0.00	0.0	5.078	0.298	0	0	0	4
OH2488	OH2487	C	6A CWC 3 S	7.02Y	117.1	0.00	8.93	0.02	0	0	0	100	0.00	0.0	5.358	0.280	0	0	0	3
OH2489	OH2488	C	6A CWC 3 S	7.02Y	117.1	0.00	8.93	0.02	0	0	0	100	0.00	0.0	5.434	0.075	0	0	0	3
OH29415	OH2489	C	6A CWC 3 S	7.02Y	117.1	0.00	8.93	0.02	0	0	0	100	0.00	0.0	5.515	0.082	0	0	0	2
OH2490	OH29415	C	6A CWC 3 S	7.02Y	117.1	0.00	8.93	0.01	0	0	0	100	0.00	0.0	5.745	0.230	0	0	0	1
000061900001...	OH2490	C	Consumer	7.02Y	117.1	0.00	8.93	0.01	0	0	0	100	0.00	0.0	5.745	0.230	0	0	1	1
000061900001...	OH2490	C	Consumer	7.02Y	117.1	0.00	8.93	0.00	0	0	0	100	0.00	0.0	5.745	0.230	0	0	0	0
000061900001...	OH29415	C	Consumer	7.02Y	117.1	0.00	8.93	0.00	0	0	0	100	0.00	0.0	5.515	0.230	0	0	1	1
000061900001...	OH2489	C	Consumer	7.02Y	117.1	0.00	8.93	0.01	0	0	0	100	0.00	0.0	5.434	0.230	0	0	1	1
000061900001...	OH2488	C	Consumer	7.02Y	117.1	0.00	8.93	0.00	0	0	0	100	0.00	0.0	5.358	0.230	0	0	0	0
000061900002...	OH2487	C	Consumer	7.02Y	117.1	0.00	8.93	0.59	0	4	0	100	0.00	0.0	5.078	0.230	4	0	1	1
000061900002...	OH2491	C	Consumer	7.02Y	117.1	0.00	8.93	0.00	0	0	0	100	0.00	0.0	4.780	0.230	0	0	1	1
000061900002...	OH2512	C	Consumer	7.03Y	117.1	0.00	8.91	0.00	0	0	0	100	0.00	0.0	4.634	0.230	0	0	0	0
000061900002...	OH2512	C	Consumer	7.03Y	117.1	0.00	8.91	0.01	0	0	0	100	0.00	0.0	4.634	0.230	0	0	1	1
OH2484	OH2486	C	6A CWC 3 S	7.03Y	117.1	0.00	8.89	0.00	0	0	0	100	0.00	0.0	4.636	0.106	0	0	0	0
OH2485	OH2474	C	6A CWC 3 S	7.03Y	117.1	0.00	8.88	0.42	0	3	0	100	0.00	0.0	4.564	0.131	0	0	0	1
000061900002...	OH2485	C	Consumer	7.03Y	117.1	0.00	8.88	0.00	0	0	0	100	0.00	0.0	4.564	0.131	0	0	0	0
000061900002...	OH2485	C	Consumer	7.03Y	117.1	0.00	8.88	0.42	0	3	0	100	0.00	0.0	4.564	0.131	3	0	1	1
L OH2475	OH2474	C	6A CWC 3 S	6.98Y	116.4	0.75	9.63	45.71	33	321	-9	-100	2.09	0.7	4.841	0.408	0	0	0	49 L
L OH2476	OH2475	C	6A CWC 3 S	6.95Y	115.9	0.52	10.15	45.71	33	319	-11	-100	1.46	0.5	5.125	0.284	0	0	0	49 L

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts													-----Element-----					
		-Base Voltage:120.0-													mi					
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
L OH2530	OH2476	C	6A CWC 3 S	6.94Y	115.6	0.20	10.35	45.12	32	313	-11	-100	0.56	0.2	5.238	0.112	0	0	0	48 L
L OH1958	OH2530	C	6A CWC 3 S	6.92Y	115.4	0.29	10.64	44.49	32	309	-11	-100	0.80	0.3	5.402	0.165	0	0	0	47 L
L OH2477	OH1958	C	6A CWC 3 S	6.89Y	114.9	0.49	11.14	44.49	32	308	-12	-100	1.35	0.4	5.680	0.278	0	0	0	47 L
L OH2562	OH2477	C	6A CWC 3 S	6.87Y	114.5	0.36	11.50	41.08	29	283	-10	-100	0.91	0.3	5.899	0.219	0	0	0	45 L
L OH2563	OH2562	C	6A CWC 3 S	6.85Y	114.1	0.36	11.86	38.58	28	265	-9	-100	0.86	0.3	6.134	0.235	0	0	0	43 L
L OH2569	OH2563	C	6A CWC 3 S	6.84Y	114.0	0.12	11.98	38.58	28	264	-10	-100	0.29	0.1	6.214	0.080	0	0	0	43 L
L OH2639	OH2569	C	6A CWC 3 S	6.84Y	114.0	0.00	11.99	0.81	1	6	-1	-99	0.00	0.0	6.301	0.088	0	0	0	1 L
L OH2640	OH2639	C	6A CWC 3 S	6.84Y	114.0	0.00	11.99	0.81	1	6	-1	-99	0.00	0.0	6.369	0.068	0	0	0	1 L
L 000052400002...	OH2640	C	Consumer	6.84Y	114.0	0.00	11.99	0.81	0	6	-1	-99	0.00	0.0	6.369	0.068	6	-1	1	1 L
L 000052400002...	OH2639	C	Consumer	6.84Y	114.0	0.00	11.99	0.00	0	0	0	100	0.00	0.0	6.301	0.068	0	0	0	0 L
L OH2571	OH2569	C	6A CWC 3 S	6.83Y	113.8	0.24	12.22	37.77	27	258	-9	-100	0.55	0.2	6.371	0.157	0	0	0	42 L
L OH2626	OH2571	C	6A CWC 3 S	6.83Y	113.8	0.01	12.23	1.70	1	12	-1	-100	0.00	0.0	6.545	0.174	0	0	0	1 L
L 000052400002...	OH2626	C	Consumer	6.83Y	113.8	0.00	12.23	1.70	0	12	-1	-100	0.00	0.0	6.545	0.174	12	-1	1	1 L
L OH2570	OH2571	C	6A CWC 3 S	6.82Y	113.7	0.07	12.29	36.07	26	246	-9	-100	0.16	0.1	6.423	0.052	0	0	0	41 L
L OH2634	OH2570	C	6A CWC 3 S	6.82Y	113.7	0.02	12.32	7.08	5	48	-4	-100	0.01	0.0	6.498	0.076	0	0	0	8 L
L OH2635	OH2634	C	6A CWC 3 S	6.82Y	113.7	0.00	12.32	0.00	0	0	0	100	0.00	0.0	6.580	0.082	0	0	0	0 L
L 000052400002...	OH2635	C	Consumer	6.82Y	113.7	0.00	12.32	0.00	0	0	0	100	0.00	0.0	6.580	0.082	0	0	0	0 L
L OH2633	OH2634	C	6A CWC 3 S	6.82Y	113.7	0.01	12.33	4.61	3	31	-3	-100	0.00	0.0	6.577	0.079	0	0	0	6 L
L OH2632	OH2633	C	6A CWC 3 S	6.82Y	113.7	0.00	12.33	0.89	1	6	-1	-99	0.00	0.0	6.697	0.121	0	0	0	4 L
L OH2631	OH2632	C	6A CWC 3 S	6.82Y	113.7	0.00	12.34	0.70	1	5	0	100	0.00	0.0	6.816	0.119	0	0	0	3 L
L OH2630	OH2631	C	6A CWC 3 S	6.82Y	113.7	0.00	12.34	0.70	1	5	0	100	0.00	0.0	6.986	0.170	0	0	0	3 L
L OH2629	OH2630	C	6A CWC 3 S	6.82Y	113.7	0.00	12.35	0.70	0	5	0	100	0.00	0.0	7.147	0.161	0	0	0	2 L
L OH2628	OH2629	C	6A CWC 3 S	6.82Y	113.6	0.01	12.35	0.38	0	3	0	100	0.00	0.0	7.617	0.469	0	0	0	1 L
L OH2627	OH2628	C	6A CWC 3 S	6.82Y	113.6	0.00	12.36	0.38	0	3	0	100	0.00	0.0	7.908	0.291	0	0	0	1 L
L 000052400003...	OH2627	C	Consumer	6.82Y	113.6	0.00	12.36	0.38	0	3	0	100	0.00	0.0	7.908	0.291	3	0	1	1 L
L 000052400003...	OH2628	C	Consumer	6.82Y	113.6	0.00	12.35	0.00	0	0	0	100	0.00	0.0	7.617	0.291	0	0	0	0 L
L 000052400003...	OH2629	C	Consumer	6.82Y	113.7	0.00	12.35	0.00	0	0	0	100	0.00	0.0	7.147	0.291	0	0	0	0 L
L 000052400003...	OH2629	C	Consumer	6.82Y	113.7	0.00	12.35	0.32	0	2	0	100	0.00	0.0	7.147	0.291	2	0	1	1 L
L 000052400002...	OH2630	C	Consumer	6.82Y	113.7	0.00	12.34	0.01	0	0	0	100	0.00	0.0	6.986	0.291	0	0	1	1 L
L 000052400002...	OH2631	C	Consumer	6.82Y	113.7	0.00	12.34	0.00	0	0	0	100	0.00	0.0	6.816	0.291	0	0	0	0 L
L 000052400002...	OH2632	C	Consumer	6.82Y	113.7	0.00	12.33	0.19	0	1	0	100	0.00	0.0	6.697	0.291	1	0	1	1 L
L 000052400002...	OH2632	C	Consumer	6.82Y	113.7	0.00	12.33	0.00	0	0	0	100	0.00	0.0	6.697	0.291	0	0	0	0 L
L 000052400002...	OH2633	C	Consumer	6.82Y	113.7	0.00	12.33	1.36	0	9	-1	-99	0.00	0.0	6.577	0.291	9	-1	1	1 L
L 000052400002...	OH2633	C	Consumer	6.82Y	113.7	0.00	12.33	2.36	0	16	-1	-100	0.00	0.0	6.577	0.291	16	-1	1	1 L
L 000052400002...	OH2634	C	Consumer	6.82Y	113.7	0.00	12.32	1.43	0	10	-1	-100	0.00	0.0	6.498	0.291	10	-1	1	1 L
L 000052400002...	OH2634	C	Consumer	6.82Y	113.7	0.00	12.32	1.04	0	7	-1	-99	0.00	0.0	6.498	0.291	7	-1	1	1 L
L 000052400002...	OH2634	C	Consumer	6.82Y	113.7	0.00	12.32	0.00	0	0	0	100	0.00	0.0	6.498	0.291	0	0	0	0 L

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts											-----Element-----							
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
L OH2572	OH2570	C	6A CWC 3 S	6.81Y	113.5	0.20	12.50	29.00	21	198	-4	-100	0.36	0.2	6.596	0.173	0	0	0	33 L
L OH2573	OH2572	C	6A CWC 3 S	6.80Y	113.3	0.16	12.65	28.08	20	191	-4	-100	0.27	0.1	6.734	0.139	0	0	0	30 L
L OH2601	OH2573	C	6A CWC 3 S	6.80Y	113.3	0.02	12.68	1.11	1	8	-1	-99	0.00	0.0	7.218	0.484	0	0	0	1 L
L 000052400002...	OH2601	C	Consumer	6.80Y	113.3	0.00	12.68	1.11	0	8	-1	-99	0.00	0.0	7.218	0.484	8	-1	1	1 L
L OH2574	OH2573	C	6A CWC 3 S	6.79Y	113.2	0.11	12.76	24.78	18	169	-2	-100	0.16	0.1	6.840	0.106	0	0	0	27 L
L OH2575	OH2574	C	6A CWC 3 S	6.78Y	113.1	0.19	12.95	24.78	18	168	-2	-100	0.28	0.2	7.026	0.185	0	0	0	26 L
L OH1960	OH2575	C	6A CWC 3 S	6.77Y	112.8	0.21	13.15	24.78	18	168	-2	-100	0.31	0.2	7.232	0.206	0	0	0	26 L
L OH29544	OH1960	C	6A CWC 3 S	6.77Y	112.8	0.03	13.18	8.06	6	54	-5	-100	0.01	0.0	7.319	0.087	0	0	0	8 L
L OH2602	OH29544	C	6A CWC 3 S	6.77Y	112.8	0.03	13.21	6.16	4	42	-4	-100	0.01	0.0	7.430	0.112	0	0	0	7 L
L OH29108	OH2602	C	6A CWC 3 S	6.77Y	112.8	0.00	13.21	0.46	0	3	0	100	0.00	0.0	7.520	0.089	0	0	0	1 L
L 000052400001...	OH29108	C	Consumer	6.77Y	112.8	0.00	13.21	0.46	0	3	0	100	0.00	0.0	7.520	0.089	3	0	1	1 L
L OH2603	OH2602	C	6A CWC 3 S	6.77Y	112.8	0.03	13.24	4.38	3	30	-3	-100	0.01	0.0	7.619	0.188	0	0	0	5 L
L OH2604	OH2603	C	6A CWC 3 S	6.76Y	112.7	0.10	13.34	4.38	3	30	-3	-100	0.03	0.1	8.205	0.586	0	0	0	5 L
L 000052400001...	OH2604	C	Consumer	6.76Y	112.7	0.00	13.34	0.00	0	0	0	100	0.00	0.0	8.205	0.586	0	0	0	0 L
L OH4413	OH2604	C	6A CWC 3 S	6.76Y	112.6	0.01	13.35	4.38	3	29	-3	-99	0.00	0.0	8.292	0.087	0	0	0	5 L
L OH2606	OH4413	C	6A CWC 3 S	6.76Y	112.6	0.04	13.39	4.38	3	29	-3	-99	0.01	0.0	8.508	0.216	0	0	0	5 L
L OH2605	OH2606	C	6A CWC 3 S	6.76Y	112.6	0.02	13.41	4.38	3	29	-3	-99	0.01	0.0	8.625	0.117	0	0	0	5 L
L OH2607	OH2605	C	6A CWC 3 S	6.75Y	112.5	0.06	13.46	3.48	2	23	-2	-100	0.01	0.1	9.036	0.411	0	0	0	4 L
L OH2608	OH2607	C	6A CWC 3 S	6.75Y	112.5	0.01	13.48	3.48	2	23	-2	-100	0.00	0.0	9.146	0.110	0	0	0	3 L
L OH2609	OH2608	C	6A CWC 3 S	6.75Y	112.5	0.02	13.50	3.34	2	22	-2	-100	0.00	0.0	9.311	0.165	0	0	0	2 L
L OH1959	OH2609	C	6A CWC 3 S	6.75Y	112.5	0.02	13.52	1.57	1	11	-1	-100	0.00	0.0	9.662	0.350	0	0	0	1 L
L 000052400001...	OH1959	C	Consumer	6.75Y	112.5	0.00	13.52	1.57	0	11	-1	-100	0.00	0.0	9.662	0.350	11	-1	1	1 L
L 000052400000...	OH2609	C	Consumer	6.75Y	112.5	0.00	13.50	1.77	0	12	-1	-100	0.00	0.0	9.311	0.350	12	-1	1	1 L
L 000052400000...	OH2609	C	Consumer	6.75Y	112.5	0.00	13.50	0.00	0	0	0	100	0.00	0.0	9.311	0.350	0	0	0	0 L
L 000052400000...	OH2608	C	Consumer	6.75Y	112.5	0.00	13.48	0.14	0	1	0	100	0.00	0.0	9.146	0.350	1	0	1	1 L
L 000052400000...	OH2608	C	Consumer	6.75Y	112.5	0.00	13.48	0.00	0	0	0	100	0.00	0.0	9.146	0.350	0	0	0	0 L
L 000052400000...	OH2608	C	Consumer	6.75Y	112.5	0.00	13.48	0.00	0	0	0	100	0.00	0.0	9.036	0.350	0	0	1	1 L
L 000052400000...	OH2607	C	Consumer	6.75Y	112.5	0.00	13.46	0.00	0	0	0	100	0.00	0.0	9.036	0.350	0	0	1	1 L
L 000052400000...	OH2605	C	Consumer	6.76Y	112.6	0.00	13.41	0.90	0	6	-1	-99	0.00	0.0	8.625	0.350	6	-1	1	1 L
L 000052400000...	OH2606	C	Consumer	6.76Y	112.6	0.00	13.39	0.00	0	0	0	100	0.00	0.0	8.508	0.350	0	0	0	0 L
L 000052400001...	OH4413	C	Consumer	6.76Y	112.6	0.00	13.35	0.00	0	0	0	100	0.00	0.0	8.292	0.350	0	0	0	0 L
L 000052400001...	OH2603	C	Consumer	6.77Y	112.8	0.00	13.24	0.00	0	0	0	100	0.00	0.0	7.619	0.350	0	0	0	0 L
L 000052400001...	OH2602	C	Consumer	6.77Y	112.8	0.00	13.21	1.32	0	9	-1	-99	0.00	0.0	7.430	0.350	9	-1	1	1 L
L 000052400001...	OH29544	C	Consumer	6.77Y	112.8	0.00	13.18	1.90	0	13	-1	-100	0.00	0.0	7.319	0.350	13	-1	1	1 L
L OH2684	OH1960	C	6A CWC 3 S	6.77Y	112.8	0.00	13.15	0.00	0	0	0	100	0.00	0.0	7.351	0.119	0	0	0	0 L
L 000052400002...	OH2684	C	Consumer	6.77Y	112.8	0.00	13.15	0.00	0	0	0	100	0.00	0.0	7.351	0.119	0	0	0	0 L
L OH2576	OH1960	C	6A CWC 3 S	6.76Y	112.7	0.18	13.34	16.38	12	111	3	100	0.18	0.2	7.502	0.270	0	0	0	17 L
L OH2577	OH2576	C	6A CWC 3 S	6.75Y	112.5	0.16	13.50	16.38	12	111	3	100	0.15	0.1	7.736	0.234	0	0	0	17 L

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts														-----Element-----					
		-Base Voltage:120.0-														mi				Cons Cons	
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	On	Thru	
L OH2578	OH2577	C	6A CWC 3 S	6.72Y	112.1	0.43	13.92	16.38	12	111	3	100	0.41	0.4	8.366	0.630	0	0	0	17 L	
L OH29119	OH2578	C	6A CWC 3 S	6.72Y	112.0	0.08	14.01	16.38	12	110	2	100	0.08	0.1	8.487	0.121	0	0	0	17 L	
L OH29121	OH29119	C	6A CWC 3 S	6.72Y	112.0	0.01	14.01	1.95	1	13	-1	-100	0.00	0.0	8.599	0.112	0	0	0	1 L	
L 000052400002...	OH29121	C	Consumer	6.72Y	112.0	0.00	14.01	1.95	0	13	-1	-100	0.00	0.0	8.599	0.112	13	-1	1	1 L	
L OH2588	OH29119	C	6A CWC 3 S	6.72Y	111.9	0.05	14.06	13.45	10	90	4	100	0.04	0.0	8.581	0.094	0	0	0	14 L	
L OH2598	OH2588	C	6A CWC 3 S	6.72Y	111.9	0.00	14.06	0.67	0	4	0	100	0.00	0.0	8.683	0.102	0	0	0	1 L	
L OH2597	OH2598	C	6A CWC 3 S	6.72Y	111.9	0.00	14.06	0.00	0	0	0	100	0.00	0.0	8.856	0.173	0	0	0	0 L	
L 000052400002...	OH2598	C	Consumer	6.72Y	111.9	0.00	14.06	0.67	0	4	0	100	0.00	0.0	8.683	0.173	4	0	1	1 L	
L OH2579	OH2588	C	6A CWC 3 S	6.71Y	111.8	0.10	14.16	12.79	9	86	5	100	0.08	0.1	8.772	0.191	0	0	0	13 L	
L OH2580	OH2579	C	6A CWC 3 S	6.70Y	111.6	0.22	14.38	12.79	9	86	4	100	0.16	0.2	9.179	0.407	0	0	0	13 L	
L OH2581	OH2580	C	6A CWC 3 S	6.69Y	111.5	0.09	14.47	11.98	9	80	5	100	0.06	0.1	9.358	0.179	0	0	0	12 L	
L OH29116	OH2581	C	6A CWC 3 S	6.69Y	111.5	0.05	14.52	10.55	8	70	6	100	0.03	0.0	9.463	0.105	0	0	0	10 L	
L OH2589	OH29116	C	6A CWC 3 S	6.68Y	111.3	0.15	14.67	10.55	8	70	6	100	0.09	0.1	9.788	0.325	0	0	0	10 L	
L OH2590	OH2589	C	6A CWC 3 S	6.68Y	111.3	0.02	14.69	5.05	4	34	-3	-100	0.01	0.0	9.902	0.113	0	0	0	5 L	
L OH2591	OH2590	C	6A CWC 3 S	6.68Y	111.3	0.01	14.69	4.58	3	30	-3	-100	0.00	0.0	9.942	0.041	0	0	0	4 L	
L OH2592	OH2591	C	6A CWC 3 S	6.68Y	111.3	0.03	14.73	4.58	3	30	-3	-100	0.01	0.0	10.118	0.176	0	0	0	4 L	
L OH2593	OH2592	C	6A CWC 3 S	6.68Y	111.3	0.02	14.75	3.35	2	22	-2	-100	0.00	0.0	10.292	0.174	0	0	0	3 L	
L OH29105	OH2593	C	6A CWC 3 S	6.68Y	111.3	0.00	14.75	0.90	1	6	-1	-99	0.00	0.0	10.326	0.034	0	0	0	2 L	
L OH2582	OH29105	C	6A CWC 3 S	6.67Y	111.2	0.01	14.76	0.52	0	3	0	100	0.00	0.0	10.620	0.294	0	0	0	1 L	
L 000052400001...	OH2582	C	Consumer	6.67Y	111.2	0.00	14.76	0.52	0	3	0	100	0.00	0.0	10.620	0.294	3	0	1	1 L	
L 000052400001...	OH29105	C	Consumer	6.68Y	111.3	0.00	14.75	0.38	0	3	0	100	0.00	0.0	10.326	0.294	3	0	1	1 L	
L 000052400001...	OH2593	C	Consumer	6.68Y	111.3	0.00	14.75	2.44	0	16	-2	-99	0.00	0.0	10.292	0.294	16	-2	1	1 L	
L 000052400001...	OH2592	C	Consumer	6.68Y	111.3	0.00	14.73	1.24	0	8	-1	-99	0.00	0.0	10.118	0.294	8	-1	1	1 L	
L 000052400001...	OH2591	C	Consumer	6.68Y	111.3	0.00	14.69	0.00	0	0	0	100	0.00	0.0	9.942	0.294	0	0	0	0 L	
L 000052400001...	OH2591	C	Consumer	6.68Y	111.3	0.00	14.69	0.00	0	0	0	100	0.00	0.0	9.942	0.294	0	0	0	0 L	
L 000052400001...	OH2590	C	Consumer	6.68Y	111.3	0.00	14.69	0.47	0	3	0	100	0.00	0.0	9.902	0.294	3	0	1	1 L	
L 000052400001...	OH2589	C	Consumer	6.68Y	111.3	0.00	14.67	1.36	0	9	-1	-99	0.00	0.0	9.788	0.294	9	-1	1	1 L	
L 000052400001...	OH2589	C	Consumer	6.68Y	111.3	0.00	14.67	3.38	0	20	10	89	0.00	0.0	9.788	0.294	20	10	1	1 L	
L 000052400001...	OH2589	C	Consumer	6.68Y	111.3	0.00	14.67	0.13	0	1	0	100	0.00	0.0	9.788	0.294	1	0	1	1 L	
L 000052400001...	OH2589	C	Consumer	6.68Y	111.3	0.00	14.67	0.92	0	6	-1	-99	0.00	0.0	9.788	0.294	6	-1	1	1 L	
L 000052400001...	OH2589	C	Consumer	6.68Y	111.3	0.00	14.67	0.00	0	0	0	100	0.00	0.0	9.788	0.294	0	0	0	0 L	
L 000052400001...	OH2589	C	Consumer	6.68Y	111.3	0.00	14.67	0.00	0	0	0	100	0.00	0.0	9.788	0.294	0	0	1	1 L	
L 000052400001...	OH2589	C	Consumer	6.68Y	111.3	0.00	14.67	0.06	0	0	0	100	0.00	0.0	9.788	0.294	0	0	1	1 L	
L 000052400002...	OH29116	C	Consumer	6.69Y	111.5	0.00	14.52	0.00	0	0	0	100	0.00	0.0	9.463	0.294	0	0	0	0 L	
L 000052400002...	OH2581	C	Consumer	6.69Y	111.5	0.00	14.47	1.09	0	7	-1	-99	0.00	0.0	9.358	0.294	7	-1	1	1 L	
L 000052400002...	OH2581	C	Consumer	6.69Y	111.5	0.00	14.47	0.37	0	2	0	100	0.00	0.0	9.358	0.294	2	0	1	1 L	
L OH1961	OH2580	C	6A CWC 3 S	6.70Y	111.6	0.00	14.39	0.82	1	5	-1	-98	0.00	0.0	9.328	0.149	0	0	0	1 L	
L OH2583	OH1961	C	6A CWC 3 S	6.70Y	111.6	0.00	14.39	0.82	1	5	-1	-98	0.00	0.0	9.476	0.148	0	0	0	1 L	

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

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	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
L 000052400002...	OH2583	C	Consumer	6.70Y	111.6	0.00	14.39	0.82	0	5	-1	-98	0.00	0.0	9.476	0.148	5	-1	1	1 L
L 000052400002...	OH1961	C	Consumer	6.70Y	111.6	0.00	14.39	0.00	0	0	0	100	0.00	0.0	9.328	0.148	0	0	0	0 L
L 000052400002...	OH1961	C	Consumer	6.70Y	111.6	0.00	14.39	0.00	0	0	0	100	0.00	0.0	9.328	0.148	0	0	0	0 L
L 000052400002...	OH2579	C	Consumer	6.71Y	111.8	0.00	14.16	0.00	0	0	0	100	0.00	0.0	8.772	0.148	0	0	0	0 L
L 000052400002...	OH29119	C	Consumer	6.72Y	112.0	0.00	14.01	0.45	0	3	0	100	0.00	0.0	8.487	0.148	3	0	1	1 L
L 000052400002...	OH29119	C	Consumer	6.72Y	112.0	0.00	14.01	0.54	0	4	0	100	0.00	0.0	8.487	0.148	4	0	1	1 L
L 000052400002...	OH2578	C	Consumer	6.72Y	112.1	0.00	13.92	0.00	0	0	0	100	0.00	0.0	8.366	0.148	0	0	0	0 L
L 000052400002...	OH2577	C	Consumer	6.75Y	112.5	0.00	13.50	0.00	0	0	0	100	0.00	0.0	7.736	0.148	0	0	0	0 L
L 000052400002...	OH2576	C	Consumer	6.76Y	112.7	0.00	13.34	0.00	0	0	0	100	0.00	0.0	7.502	0.148	0	0	0	0 L
L 000052400002...	OH1960	C	Consumer	6.77Y	112.8	0.00	13.15	0.00	0	0	0	100	0.00	0.0	7.232	0.148	0	0	0	0 L
L 000052400002...	OH1960	C	Consumer	6.77Y	112.8	0.00	13.15	0.38	0	3	0	100	0.00	0.0	7.232	0.148	3	0	1	1 L
L 000052400002...	OH2575	C	Consumer	6.78Y	113.1	0.00	12.95	0.00	0	0	0	100	0.00	0.0	7.026	0.148	0	0	0	0 L
L 000052400002...	OH2574	C	Consumer	6.79Y	113.2	0.00	12.76	0.00	0	0	0	100	0.00	0.0	6.840	0.148	0	0	0	0 L
L 000052400002...	OH2574	C	Consumer	6.79Y	113.2	0.00	12.76	0.00	0	0	0	100	0.00	0.0	6.840	0.148	0	0	0	0 L
L 000052400002...	OH2574	C	Consumer	6.79Y	113.2	0.00	12.76	0.00	0	0	0	100	0.00	0.0	6.840	0.148	0	0	0	0 L
L 000052400002...	OH2574	C	Consumer	6.79Y	113.2	0.00	12.76	0.00	0	0	0	100	0.00	0.0	6.840	0.148	0	0	0	0 L
L 000052400002...	OH2574	C	Consumer	6.79Y	113.2	0.00	12.76	0.00	0	0	0	100	0.00	0.0	6.840	0.148	0	0	1	1 L
L 000052400002...	OH2573	C	Consumer	6.80Y	113.3	0.00	12.65	0.01	0	0	0	100	0.00	0.0	6.734	0.148	0	0	1	1 L
L 000052400002...	OH2573	C	Consumer	6.80Y	113.3	0.00	12.65	2.19	0	15	-1	-100	0.00	0.0	6.734	0.148	15	-1	1	1 L
L 000052400002...	OH2572	C	Consumer	6.81Y	113.5	0.00	12.50	0.89	0	6	-1	-99	0.00	0.0	6.596	0.148	6	-1	1	1 L
L 000052400002...	OH2572	C	Consumer	6.81Y	113.5	0.00	12.50	0.00	0	0	0	100	0.00	0.0	6.596	0.148	0	0	0	0 L
L 000052400002...	OH2572	C	Consumer	6.81Y	113.5	0.00	12.50	0.00	0	0	0	100	0.00	0.0	6.596	0.148	0	0	0	0 L
L 000052400002...	OH2572	C	Consumer	6.81Y	113.5	0.00	12.50	0.00	0	0	0	100	0.00	0.0	6.596	0.148	0	0	1	1 L
L 000052400002...	OH2572	C	Consumer	6.81Y	113.5	0.00	12.50	0.03	0	0	0	100	0.00	0.0	6.596	0.148	0	0	1	1 L
L 000052400002...	OH2571	C	Consumer	6.83Y	113.8	0.00	12.22	0.00	0	0	0	100	0.00	0.0	6.371	0.148	0	0	0	0 L
L 000052400002...	OH2563	C	Consumer	6.85Y	114.1	0.00	11.86	0.00	0	0	0	100	0.00	0.0	6.134	0.148	0	0	0	0 L
L 000052400002...	OH2562	C	Consumer	6.87Y	114.5	0.00	11.50	0.11	0	1	0	100	0.00	0.0	5.899	0.148	1	0	1	1 L
L 000052400002...	OH2562	C	Consumer	6.87Y	114.5	0.00	11.50	2.39	0	16	-2	-99	0.00	0.0	5.899	0.148	16	-2	1	1 L
L OH2478	OH2477	C	6A CWC 3 S	6.89Y	114.8	0.02	11.16	3.42	2	23	-2	-100	0.01	0.0	5.859	0.179	0	0	0	2 L
L 000061900002...	OH2478	C	Consumer	6.89Y	114.8	0.00	11.16	1.49	0	10	-1	-100	0.00	0.0	5.859	0.179	10	-1	1	1 L
L 000061900002...	OH2478	C	Consumer	6.89Y	114.8	0.00	11.16	1.93	0	13	-1	-100	0.00	0.0	5.859	0.179	13	-1	1	1 L
L OH1957	OH1958	C	6A CWC 3 S	6.92Y	115.4	0.00	10.64	0.00	0	0	0	100	0.00	0.0	5.797	0.395	0	0	0	0 L
L 000061900003...	OH1957	C	Consumer	6.92Y	115.4	0.00	10.64	0.00	0	0	0	100	0.00	0.0	5.797	0.395	0	0	0	0 L
L 000061900002...	OH2530	C	Consumer	6.94Y	115.6	0.00	10.35	0.00	0	0	0	100	0.00	0.0	5.238	0.395	0	0	0	0 L
L 000061900002...	OH2530	C	Consumer	6.94Y	115.6	0.00	10.35	0.63	0	4	0	100	0.00	0.0	5.238	0.395	4	0	1	1 L
L OH2479	OH2476	C	6A CWC 3 S	6.95Y	115.8	0.00	10.15	0.59	0	4	0	100	0.00	0.0	5.307	0.182	0	0	0	1 L
L 000061900002...	OH2479	C	Consumer	6.95Y	115.8	0.00	10.15	0.59	0	4	0	100	0.00	0.0	5.307	0.182	4	0	1	1 L

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

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	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru	
L 000061900002...	OH2476	C	Consumer	6.95Y	115.9	0.00	10.15	0.00	0	0	0	100	0.00	0.0	5.125	0.182	0	0	0	0	L
L 000061900002...	OH2475	C	Consumer	6.98Y	116.4	0.00	9.63	0.00	0	0	0	100	0.00	0.0	4.841	0.182	0	0	0	0	L
000061900002...	OH2473	C	Consumer	7.04Y	117.3	0.00	8.70	0.37	0	2	1	89	0.00	0.0	4.347	0.182	2	1	1	1	
000061900002...	OH2472	C	Consumer	7.06Y	117.6	0.00	8.38	3.74	0	26	-2	-100	0.00	0.0	4.192	0.182	26	-2	1	1	
OH1977	OH1963	C	6A CWC 3 S	7.10Y	118.3	0.03	7.68	2.71	2	19	-2	-99	0.00	0.0	4.129	0.251	0	0	0	3	
OH1978	OH1977	C	6A CWC 3 S	7.10Y	118.3	0.00	7.69	1.56	1	11	-1	-100	0.00	0.0	4.190	0.061	0	0	0	2	
OH1979	OH1978	C	6A CWC 3 S	7.10Y	118.3	0.01	7.70	1.50	1	11	-1	-100	0.00	0.0	4.371	0.181	0	0	0	1	
000061940402...	OH1979	C	Consumer	7.10Y	118.3	0.00	7.70	1.50	0	11	-1	-100	0.00	0.0	4.371	0.181	11	-1	1	1	
000061940402...	OH1978	C	Consumer	7.10Y	118.3	0.00	7.69	0.06	0	0	0	100	0.00	0.0	4.190	0.181	0	0	1	1	
000061940402...	OH1978	C	Consumer	7.10Y	118.3	0.00	7.69	0.00	0	0	0	100	0.00	0.0	4.190	0.181	0	0	0	0	
000061940402...	OH1977	C	Consumer	7.10Y	118.3	0.00	7.68	0.00	0	0	0	100	0.00	0.0	4.129	0.181	0	0	0	0	
000061940402...	OH1977	C	Consumer	7.10Y	118.3	0.00	7.68	1.15	0	8	-1	-99	0.00	0.0	4.129	0.181	8	-1	1	1	
000061910402...	OH1965	C	Consumer	7.11Y	118.5	0.00	7.49	0.00	0	0	0	100	0.00	0.0	3.808	0.181	0	0	0	0	
000061910402...	OH1965	C	Consumer	7.11Y	118.5	0.00	7.49	0.13	0	1	0	100	0.00	0.0	3.808	0.181	1	0	1	1	
OH1906	OH1903	C	6A CWC 3 S	7.17Y	119.6	0.00	6.45	0.61	0	4	0	100	0.00	0.0	3.531	0.145	0	0	0	1	
000061910402...	OH1906	C	Consumer	7.17Y	119.6	0.00	6.45	0.00	0	0	0	100	0.00	0.0	3.531	0.145	0	0	0	0	
000061910402...	OH1906	C	Consumer	7.17Y	119.6	0.00	6.45	0.61	0	4	0	100	0.00	0.0	3.531	0.145	4	0	1	1	
000061910402...	OH2014	C	Consumer	7.18Y	119.7	0.00	6.32	1.32	0	9	-1	-99	0.00	0.0	3.337	0.145	9	-1	1	1	
OH1942	OH1910	C	6A CWC 3 S	7.21Y	120.2	0.05	5.78	6.75	5	48	-4	-100	0.02	0.0	3.280	0.174	0	0	0	6	
OH1943	OH1942	C	6A CWC 3 S	7.21Y	120.2	0.02	5.80	4.01	3	29	-3	-99	0.01	0.0	3.408	0.127	0	0	0	1	
OH1952	OH1943	C	6A CWC 3 S	7.21Y	120.2	0.00	5.80	4.01	3	29	-3	-99	0.00	0.0	3.439	0.032	0	0	0	1	
000061940402...	OH1952	C	Consumer	7.21Y	120.2	0.00	5.80	4.01	0	29	-3	-99	0.00	0.0	3.439	0.032	29	-3	1	1	
OH1951	OH1943	C	6A CWC 3 S	7.21Y	120.2	0.00	5.80	0.00	0	0	0	100	0.00	0.0	3.478	0.070	0	0	0	0	
OH1935	OH1942	C	6A CWC 3 S	7.21Y	120.2	0.02	5.79	2.74	2	20	-2	-100	0.00	0.0	3.441	0.160	0	0	0	5	
OH1911	OH1935	C	6A CWC 3 S	7.21Y	120.2	0.01	5.80	2.08	1	15	-1	-100	0.00	0.0	3.531	0.090	0	0	0	4	
OH1917	OH1911	C	6A CWC 3 S	7.21Y	120.2	0.00	5.81	1.88	1	14	-1	-100	0.00	0.0	3.596	0.065	0	0	0	3	
OH1919	OH1917	C	6A CWC 3 S	7.21Y	120.2	0.02	5.83	1.88	1	14	-1	-100	0.00	0.0	3.896	0.300	0	0	0	1	
000061940401...	OH1919	C	Consumer	7.21Y	120.2	0.00	5.83	1.88	0	14	-1	-100	0.00	0.0	3.896	0.300	14	-1	1	1	
000061940402...	OH1917	C	Consumer	7.21Y	120.2	0.00	5.81	0.00	0	0	0	100	0.00	0.0	3.596	0.300	0	0	1	1	
000061940402...	OH1917	C	Consumer	7.21Y	120.2	0.00	5.81	0.00	0	0	0	100	0.00	0.0	3.596	0.300	0	0	0	0	
000061940402...	OH1917	C	Consumer	7.21Y	120.2	0.00	5.81	0.00	0	0	0	100	0.00	0.0	3.596	0.300	0	0	1	1	
000061940402...	OH1917	C	Consumer	7.21Y	120.2	0.00	5.81	0.00	0	0	0	100	0.00	0.0	3.596	0.300	0	0	0	0	
OH1913	OH1911	C	6A CWC 3 S	7.21Y	120.2	0.00	5.80	0.19	0	1	0	100	0.00	0.0	3.782	0.251	0	0	0	1	
OH1914	OH1913	C	6A CWC 3 S	7.21Y	120.2	0.00	5.80	0.19	0	1	0	100	0.00	0.0	3.879	0.096	0	0	0	1	
000061940401...	OH1914	C	Consumer	7.21Y	120.2	0.00	5.80	0.19	0	1	0	100	0.00	0.0	3.879	0.096	1	0	1	1	
000061940401...	OH1913	C	Consumer	7.21Y	120.2	0.00	5.80	0.00	0	0	0	100	0.00	0.0	3.782	0.096	0	0	0	0	
000061940402...	OH1935	C	Consumer	7.21Y	120.2	0.00	5.79	0.66	0	5	0	100	0.00	0.0	3.441	0.096	5	0	1	1	

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts														-----Element-----				
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OH1905	OH1904	C	6A CWC 3 S	7.24Y	120.6	0.01	5.41	0.87	1	6	-1	-99	0.00	0.0	3.141	0.151	0	0	0	1
000061910402...	OH1905	C	Consumer	7.24Y	120.6	0.00	5.41	0.87	0	6	-1	-99	0.00	0.0	3.141	0.151	6	-1	1	1
000061940402...	OH2190	A	Consumer	7.28Y	121.4	0.00	4.60	0.00	0	0	0	100	0.00	0.0	2.533	0.151	0	0	0	0
000061940402...	OH2190	A	Consumer	7.28Y	121.4	0.00	4.60	2.39	0	17	-2	-99	0.00	0.0	2.533	0.151	17	-2	1	1
000061940402...	OH2190	A	Consumer	7.28Y	121.4	0.00	4.60	0.00	0	0	0	100	0.00	0.0	2.533	0.151	0	0	0	0
000061940402...	OH2188	A	Consumer	7.29Y	121.5	0.00	4.48	0.03	0	0	0	100	0.00	0.0	2.333	0.151	0	0	1	1
000061940402...	OH2188	A	Consumer	7.29Y	121.5	0.00	4.48	0.70	0	5	0	100	0.00	0.0	2.333	0.151	5	0	1	1
000061940401...	OH2176	A	Consumer	7.31Y	121.9	0.00	4.14	0.00	0	0	0	100	0.00	0.0	1.816	0.151	0	0	0	0
C OH2173	OH2011	A	OH_Digitiz	7.32Y	121.9	0.01	4.06	1.83	183	13	-1	-100	0.00	0.0	1.764	0.078	0	0	0	1
000061940401...	OH2173	A	Consumer	7.32Y	121.9	0.00	4.06	1.83	0	13	-1	-100	0.00	0.0	1.764	0.078	13	-1	1	1
OCR-2022	OH1992	C	25-4H OCR	7.32Y	122.1	0.00	3.95	4.72	0	34	-3	-100	0.00	0.0	1.524	0.078	0	0	0	4
OH1993	OCR-2022	C	4 ACSR 7/1	7.32Y	122.0	0.08	4.03	4.72	3	34	-3	-100	0.02	0.1	1.958	0.434	0	0	0	4
OH1997	OH1993	C	4 ACSR 7/1	7.32Y	122.0	0.01	4.03	4.72	3	34	-3	-100	0.00	0.0	2.001	0.043	0	0	0	4
OH2001	OH1997	C	4 ACSR 7/1	7.32Y	122.0	0.01	4.04	1.58	1	11	-1	-100	0.00	0.0	2.156	0.155	0	0	0	2
000061940401...	OH2001	C	Consumer	7.32Y	122.0	0.00	4.04	0.06	0	0	0	100	0.00	0.0	2.156	0.155	0	0	1	1
000061940401...	OH2001	C	Consumer	7.32Y	122.0	0.00	4.04	1.51	0	11	-1	-100	0.00	0.0	2.156	0.155	11	-1	1	1
OH1994	OH1997	C	4 ACSR 7/1	7.32Y	122.0	0.01	4.04	3.14	2	23	-2	-100	0.00	0.0	2.093	0.092	0	0	0	2
OH1995	OH1994	C	4 ACSR 7/1	7.32Y	122.0	0.01	4.05	1.49	1	11	-1	-100	0.00	0.0	2.183	0.091	0	0	0	1
OH1996	OH1995	C	4 ACSR 7/1	7.32Y	122.0	0.00	4.05	0.00	0	0	0	100	0.00	0.0	2.257	0.074	0	0	0	0
000061940401...	OH1996	C	Consumer	7.32Y	122.0	0.00	4.05	0.00	0	0	0	100	0.00	0.0	2.257	0.074	0	0	0	0
000061940401...	OH1995	C	Consumer	7.32Y	122.0	0.00	4.05	1.49	0	11	-1	-100	0.00	0.0	2.183	0.074	11	-1	1	1
000061940401...	OH1994	C	Consumer	7.32Y	122.0	0.00	4.04	1.66	0	12	-1	-100	0.00	0.0	2.093	0.074	12	-1	1	1
000061940401...	OH1994	C	Consumer	7.32Y	122.0	0.00	4.04	0.00	0	0	0	100	0.00	0.0	2.093	0.074	0	0	0	0
000061940401...	OH1992	A	Consumer	7.32Y	122.1	0.00	3.95	1.90	0	14	-1	-100	0.00	0.0	1.524	0.074	14	-1	1	1
OCR-1021	OH1916	ABC	100L OCR	7.33Y	122.2	0.00	3.77	146.51	0	3223	32	100	0.00	0.0	1.279	0.074	0	0	0	408
OH1933	OCR-1021	ABC	336 ACSR18	7.32Y	122.0	0.19	3.96	146.51	28	3223	32	100	4.92	0.2	1.558	0.278	0	0	0	408
OH29631	OH1933	ABC	336 ACSR18	7.31Y	121.9	0.16	4.12	146.06	28	3208	21	100	4.10	0.1	1.791	0.234	0	0	0	407
OH29632	OH29631	C	336 ACSR18	7.31Y	121.9	0.00	4.12	2.10	0	15	-1	-100	0.00	0.0	1.835	0.044	0	0	0	1
OH2970	OH29632	C	336 ACSR18	7.31Y	121.9	0.00	4.12	0.00	0	0	0	100	0.00	0.0	1.836	0.001	0	0	0	0
OH2981	OH2970	C	336 ACSR18	7.31Y	121.9	0.00	4.12	0.00	0	0	0	100	0.00	0.0	1.838	0.002	0	0	0	0
000061940400...	OH2981	C	Consumer	7.31Y	121.9	0.00	4.12	0.00	0	0	0	100	0.00	0.0	1.838	0.002	0	0	0	0
000061940400...	OH29632	C	Consumer	7.31Y	121.9	0.00	4.12	2.10	0	15	-1	-100	0.00	0.0	1.835	0.002	15	-1	1	1
OH1920	OH29631	ABC	336 ACSR18	7.31Y	121.9	0.01	4.13	145.36	28	3189	13	100	0.25	0.0	1.805	0.014	0	0	0	406
OH29461	OH1920	ABC	336 ACSR18	7.31Y	121.9	0.02	4.15	144.92	28	3179	13	100	0.49	0.0	1.833	0.028	0	0	0	405
OH29635	OH29461	B	336 ACSR18	7.31Y	121.9	0.00	4.15	0.01	0	0	0	100	0.00	0.0	1.860	0.027	0	0	0	1
000061940400...	OH29635	B	Consumer	7.31Y	121.9	0.00	4.15	0.01	0	0	0	100	0.00	0.0	1.860	0.027	0	0	1	1
OH29462	OH29461	A	336 ACSR18	7.31Y	121.9	0.00	4.15	2.64	1	19	-2	-99	0.00	0.0	1.877	0.044	0	0	0	1

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts											mi		-----Element-----					
		-Base Voltage:120.0-											From	Length			Cons	Cons		
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	Src	(mi)	KW	KVAR	On	Thru
000061940400...	OH29462	A	Consumer	7.31Y	121.9	0.00	4.15	2.64	0	19	-2	-99	0.00	0.0	1.877	0.044	19	-2	1	1
OH1921	OH29461	ABC	336 ACSR18	7.31Y	121.8	0.02	4.16	144.05	28	3159	14	100	0.42	0.0	1.858	0.024	0	0	0	403
OH1931	OH1921	A	OH_Digitiz	7.31Y	121.8	0.00	4.16	0.00	0	0	0	100	0.00	0.0	1.950	0.092	0	0	0	0
000061940400...	OH1931	A	Consumer	7.31Y	121.8	0.00	4.16	0.00	0	0	0	100	0.00	0.0	1.950	0.092	0	0	0	0
OH1922	OH1921	ABC	336 ACSR18	7.30Y	121.7	0.18	4.34	144.05	28	3159	13	100	4.67	0.1	2.131	0.273	0	0	0	403
C OH1930	OH1922	A	OH_Digitiz	7.30Y	121.6	0.01	4.35	2.00	200	15	-1	-100	0.00	0.0	2.256	0.125	0	0	0	1 C
000061940400...	OH1930	A	Consumer	7.30Y	121.6	0.00	4.35	2.00	0	15	-1	-100	0.00	0.0	2.256	0.125	15	-1	1	1
OH1923	OH1922	ABC	336 ACSR18	7.30Y	121.6	0.04	4.39	143.38	28	3140	3	100	1.11	0.0	2.196	0.066	0	0	0	402
OH1929	OH1923	A	OH_Digitiz	7.30Y	121.6	0.00	4.39	0.00	0	0	0	100	0.00	0.0	2.294	0.097	0	0	0	0
000061940400...	OH1929	A	Consumer	7.30Y	121.6	0.00	4.39	0.00	0	0	0	100	0.00	0.0	2.294	0.097	0	0	0	0
OH1924	OH1923	ABC	336 ACSR18	7.29Y	121.5	0.09	4.48	143.38	28	3139	0	100	2.36	0.1	2.336	0.140	0	0	0	402
C OH1928	OH1924	A	OH_Digitiz	7.29Y	121.5	0.01	4.49	1.51	151	11	-1	-100	0.00	0.0	2.468	0.131	0	0	0	1 C
000061940400...	OH1928	A	Consumer	7.29Y	121.5	0.00	4.49	1.51	0	11	-1	-100	0.00	0.0	2.468	0.131	11	-1	1	1
OH1925	OH1924	ABC	336 ACSR18	7.29Y	121.5	0.07	4.55	142.88	28	3125	-4	-100	1.75	0.1	2.440	0.104	0	0	0	401
OH2042	OH1925	ABC	336 ACSR18	7.28Y	121.4	0.07	4.61	142.88	28	3124	-9	-100	1.72	0.1	2.543	0.102	0	0	0	401
C OH2049	OH2042	ABC	OH_Digitiz	7.28Y	121.3	0.10	4.71	142.68	14268	3118	-12	-100	2.45	0.1	2.561	0.018	0	0	0	400 C
C OH30206	OH2049	B	OH_Digitiz	7.28Y	121.3	0.00	4.71	4.21	421	31	-3	-100	0.00	0.0	2.574	0.013	0	0	0	4 C
C OH30207	OH30206	B	OH_Digitiz	7.28Y	121.3	0.00	4.71	1.42	142	10	-1	-100	0.00	0.0	2.586	0.012	0	0	0	1 C
000061330409...	OH30207	B	Consumer	7.28Y	121.3	0.00	4.71	1.42	0	10	-1	-100	0.00	0.0	2.586	0.012	10	-1	1	1
C OH2052	OH30206	B	OH_Digitiz	7.28Y	121.3	0.00	4.71	2.79	279	20	-2	-100	0.00	0.0	2.596	0.022	0	0	0	3 C
OH30202	OH2052	B	OH_Digitiz	7.28Y	121.3	0.00	4.71	0.57	57	4	0	100	0.00	0.0	2.607	0.010	0	0	0	2
OH30203	OH30202	B	OH_Digitiz	7.28Y	121.3	0.00	4.71	0.05	5	0	0	100	0.00	0.0	2.629	0.022	0	0	0	1
000061330409...	OH30203	B	Consumer	7.28Y	121.3	0.00	4.71	0.05	0	0	0	100	0.00	0.0	2.629	0.022	0	0	1	1
OH2050	OH30202	B	OH_Digitiz	7.28Y	121.3	0.00	4.71	0.52	52	4	0	100	0.00	0.0	2.620	0.013	0	0	0	1
000061330409...	OH2050	B	Consumer	7.28Y	121.3	0.00	4.71	0.52	0	4	0	100	0.00	0.0	2.620	0.013	4	0	1	1
000061330409...	OH2052	B	Consumer	7.28Y	121.3	0.00	4.71	2.22	0	16	-1	-100	0.00	0.0	2.596	0.013	16	-1	1	1
OH2031	OH2049	ABC	336 ACSR18	7.28Y	121.3	0.03	4.73	141.28	27	3085	-10	-100	0.69	0.0	2.603	0.042	0	0	0	396
OH2034	OH2031	A	OH_Digitiz	7.28Y	121.3	0.00	4.73	0.15	15	1	0	100	0.00	0.0	2.638	0.035	0	0	0	1
OH2035	OH2034	A	OH_Digitiz	7.28Y	121.3	0.00	4.73	0.00	0	0	0	100	0.00	0.0	2.803	0.165	0	0	0	0
000061330409...	OH2035	A	Consumer	7.28Y	121.3	0.00	4.73	0.00	0	0	0	100	0.00	0.0	2.803	0.165	0	0	0	0
000061330409...	OH2034	A	Consumer	7.28Y	121.3	0.00	4.73	0.00	0	0	0	100	0.00	0.0	2.638	0.165	0	0	0	0
000061330409...	OH2034	A	Consumer	7.28Y	121.3	0.00	4.73	0.15	0	1	0	100	0.00	0.0	2.638	0.165	1	0	1	1
OH2032	OH2031	ABC	336 ACSR18	7.27Y	121.2	0.02	4.76	141.01	27	3078	-11	-100	0.57	0.0	2.638	0.035	0	0	0	394
C OH2069	OH2032	ABC	OH_Digitiz	7.27Y	121.1	0.11	4.87	140.35	14035	3063	-11	-100	2.77	0.1	2.659	0.021	0	0	0	393 C
C OH29395	OH2069	A	OH_Digitiz	7.27Y	121.1	0.01	4.88	1.45	145	10	-1	-100	0.00	0.0	2.840	0.181	0	0	0	1 C
OH29397	OH29395	A	OH_Digitiz	7.27Y	121.1	0.00	4.88	0.00	0	0	0	100	0.00	0.0	2.861	0.022	0	0	0	0
000061330409...	OH29397	A	Consumer	7.27Y	121.1	0.00	4.88	0.00	0	0	0	100	0.00	0.0	2.861	0.022	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts													-----Element-----						
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru	
C	OH29396		OH_Digitiz	7.27Y	121.1	0.01	4.88	1.45	145	10	-1	-100	0.00	0.0	2.942	0.102	0	0	0	1 C	
	000061330409...	OH29396	Consumer	7.27Y	121.1	0.00	4.88	1.45	0	10	-1	-100	0.00	0.0	2.942	0.102	10	-1	1	1	
	OH2060	OH2069	ABC	336	ACSR18	7.27Y	121.1	0.02	4.89	139.82	27	3049	-11	-100	0.49	0.0	2.690	0.030	0	0	390
	OH2074	OH2060	ABC	336	ACSR18	7.26Y	121.0	0.10	4.98	138.80	27	3026	-11	-100	2.51	0.1	2.847	0.158	0	0	388
	OH2082	OH2074	ABC	336	ACSR18	7.26Y	121.0	0.05	5.04	137.99	27	3006	-15	-100	1.31	0.0	2.931	0.083	0	0	386
	OH2089	OH2082	C	OH_Digitiz	7.26Y	121.0	0.00	5.04	0.00	0	0	0	100	0.00	0.0	2.985	0.054	0	0	0	
	OH2131	OH2089	C	OH_Digitiz	7.26Y	121.0	0.00	5.04	0.00	0	0	0	100	0.00	0.0	3.030	0.045	0	0	0	
	000061940400...	OH2131	C	Consumer	7.26Y	121.0	0.00	5.04	0.00	0	0	0	100	0.00	0.0	3.030	0.045	0	0	0	
	OH2088	OH2089	C	OH_Digitiz	7.26Y	121.0	0.00	5.04	0.00	0	0	0	100	0.00	0.0	3.056	0.071	0	0	0	
	OH2083	OH2082	ABC	336	ACSR18	7.26Y	120.9	0.04	5.08	137.88	27	3002	-18	-100	1.08	0.0	3.000	0.069	0	0	385
	OH2093	OH2083	ABC	336	ACSR18	7.25Y	120.9	0.02	5.10	135.93	26	2959	-16	-100	0.60	0.0	3.039	0.039	0	0	381
	OH2096	OH2093	C	OH_Digitiz	7.25Y	120.9	0.00	5.10	0.48	48	3	0	100	0.00	0.0	3.106	0.068	0	0	1	
	000061940400...	OH2096	C	Consumer	7.25Y	120.9	0.00	5.10	0.48	0	3	0	100	0.00	0.0	3.106	0.068	3	0	1	
	OH2084	OH2093	ABC	336	ACSR18	7.25Y	120.9	0.03	5.13	135.77	26	2955	-18	-100	0.70	0.0	3.085	0.046	0	0	380
C	OH2095	OH2084	A	OH_Digitiz	7.25Y	120.9	0.01	5.14	1.19	119	9	-1	-99	0.00	0.0	3.210	0.125	0	0	1 C	
	000061940400...	OH2095	A	Consumer	7.25Y	120.9	0.00	5.14	1.19	0	9	-1	-99	0.00	0.0	3.210	0.125	9	-1	1	
C	OH2094	OH2084	B	OH_Digitiz	7.25Y	120.9	0.00	5.14	1.24	124	9	-1	-99	0.00	0.0	3.171	0.086	0	0	1 C	
	OH2126	OH2094	B	OH_Digitiz	7.25Y	120.9	0.00	5.14	0.00	0	0	0	100	0.00	0.0	3.212	0.041	0	0	0	
	000061940400...	OH2126	B	Consumer	7.25Y	120.9	0.00	5.14	0.00	0	0	0	100	0.00	0.0	3.212	0.041	0	0	0	
	000061940400...	OH2094	B	Consumer	7.25Y	120.9	0.00	5.14	1.24	0	9	-1	-99	0.00	0.0	3.171	0.041	9	-1	1	
	OH2085	OH2084	ABC	336	ACSR18	7.25Y	120.8	0.03	5.16	134.15	26	2919	-16	-100	0.75	0.0	3.135	0.050	0	0	376
	OH2086	OH2085	ABC	336	ACSR18	7.25Y	120.8	0.06	5.22	133.18	26	2897	-16	-100	1.38	0.0	3.229	0.094	0	0	374
	OH2087	OH2086	ABC	336	ACSR18	7.24Y	120.7	0.08	5.30	133.18	26	2895	-19	-100	2.05	0.1	3.370	0.140	0	0	374
	OH2100	OH2087	ABC	336	ACSR18	7.23Y	120.6	0.13	5.43	131.93	25	2866	-21	-100	3.12	0.1	3.587	0.218	0	0	372
	OH2115	OH2100	ABC	336	ACSR18	7.23Y	120.5	0.02	5.45	131.79	25	2860	-29	-100	0.49	0.0	3.621	0.034	0	0	371
	OH2099	OH2115	ABC	336	ACSR18	7.23Y	120.5	0.06	5.51	131.79	25	2859	-30	-100	1.45	0.1	3.723	0.102	0	0	371
	OH2113	OH2099	ABC	336	ACSR18	7.23Y	120.5	0.02	5.54	131.79	25	2858	-33	-100	0.60	0.0	3.765	0.042	0	0	371
	OH2111	OH2113	ABC	336	ACSR18	7.23Y	120.4	0.03	5.57	131.29	25	2847	-34	-100	0.84	0.0	3.824	0.059	0	0	370
	OH2101	OH2111	ABC	336	ACSR18	7.22Y	120.4	0.07	5.64	131.29	25	2846	-36	-100	1.79	0.1	3.950	0.126	0	0	370
	OH2102	OH2101	ABC	336	ACSR18	7.22Y	120.3	0.06	5.70	131.29	25	2844	-40	-100	1.38	0.0	4.047	0.097	0	0	370
	OH2322	OH2102	ABC	336	ACSR18	7.21Y	120.2	0.06	5.76	131.19	25	2841	-43	-100	1.46	0.1	4.150	0.103	0	0	369
	OH2303	OH2322	ABC	336	ACSR18	7.21Y	120.2	0.02	5.78	131.19	25	2839	-46	-100	0.58	0.0	4.191	0.041	0	0	369
C	OH2326	OH2303	B	OH_Digitiz	7.21Y	120.2	0.01	5.79	1.51	151	11	-1	-100	0.00	0.0	4.320	0.129	0	0	2 C	
	OH2315	OH2326	B	OH_Digitiz	7.21Y	120.2	0.00	5.79	0.62	62	4	0	100	0.00	0.0	4.456	0.136	0	0	1	
	000061900001...	OH2315	B	Consumer	7.21Y	120.2	0.00	5.79	0.62	0	4	0	100	0.00	0.0	4.456	0.136	4	0	1	
	000061900001...	OH2326	B	Consumer	7.21Y	120.2	0.00	5.79	0.90	0	6	-1	-99	0.00	0.0	4.320	0.136	6	-1	1	
	OH2323	OH2303	ABC	336	ACSR18	7.21Y	120.2	0.02	5.81	130.69	25	2828	-47	-100	0.56	0.0	4.231	0.040	0	0	367

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

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	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
OH2304	OH2323	ABC	336 ACSR18	7.21Y	120.2	0.02	5.83	130.69	25	2827	-48	-100	0.61	0.0	4.274	0.044	0	0	0	367
C OH2318	OH2304	A	OH_Digitiz	7.21Y	120.1	0.02	5.85	5.44	544	39	-4	-99	0.01	0.0	4.391	0.117	0	0	0	5 C
C OH2331	OH2318	A	OH_Digitiz	7.21Y	120.1	0.02	5.87	3.24	324	23	-2	-100	0.00	0.0	4.547	0.156	0	0	0	3 C
OH2332	OH2331	A	OH_Digitiz	7.21Y	120.1	0.01	5.88	0.53	53	4	0	100	0.00	0.0	4.839	0.292	0	0	0	2
OH2333	OH2332	A	OH_Digitiz	7.21Y	120.1	0.00	5.88	0.00	0	0	0	100	0.00	0.0	4.925	0.086	0	0	0	1
OH2334	OH2333	A	OH_Digitiz	7.21Y	120.1	0.00	5.88	0.00	0	0	0	100	0.00	0.0	4.994	0.070	0	0	0	1
OH2309	OH2334	A	OH_Digitiz	7.21Y	120.1	0.00	5.88	0.00	0	0	0	100	0.00	0.0	5.156	0.162	0	0	0	1
000061900001...	OH2309	A	Consumer	7.21Y	120.1	0.00	5.88	0.00	0	0	0	100	0.00	0.0	5.156	0.162	0	0	1	1
000061900001...	OH2334	A	Consumer	7.21Y	120.1	0.00	5.88	0.00	0	0	0	100	0.00	0.0	4.994	0.162	0	0	0	0
000061900001...	OH2333	A	Consumer	7.21Y	120.1	0.00	5.88	0.00	0	0	0	100	0.00	0.0	4.925	0.162	0	0	0	0
000061900001...	OH2332	A	Consumer	7.21Y	120.1	0.00	5.88	0.53	0	4	0	100	0.00	0.0	4.839	0.162	4	0	1	1
000061900001...	OH2331	A	Consumer	7.21Y	120.1	0.00	5.87	2.71	0	19	-2	-99	0.00	0.0	4.547	0.162	19	-2	1	1
000061900001...	OH2318	A	Consumer	7.21Y	120.1	0.00	5.85	0.28	0	2	0	100	0.00	0.0	4.391	0.162	2	0	1	1
000061900001...	OH2318	A	Consumer	7.21Y	120.1	0.00	5.85	1.92	0	14	-1	-100	0.00	0.0	4.391	0.162	14	-1	1	1
OH2305	OH2304	ABC	336 ACSR18	7.21Y	120.1	0.05	5.88	127.89	25	2766	-44	-100	1.09	0.0	4.355	0.081	0	0	0	359
OH2351	OH2305	ABC	336 ACSR18	7.21Y	120.1	0.03	5.91	127.49	25	2756	-46	-100	0.73	0.0	4.410	0.055	0	0	0	357
OH2306	OH2351	ABC	336 ACSR18	7.20Y	120.1	0.03	5.94	126.33	24	2730	-45	-100	0.78	0.0	4.469	0.060	0	0	0	354
OH30281	OH2306	ABC	336 ACSR18	7.20Y	120.0	0.06	6.00	124.46	24	2689	-43	-100	1.40	0.1	4.579	0.110	0	0	0	350
OH2307	OH30281	ABC	336 ACSR18	7.20Y	120.0	0.04	6.04	124.20	24	2682	-46	-100	0.96	0.0	4.655	0.076	0	0	0	349
C OH2365	OH2307	B	OH_Digitiz	7.19Y	119.8	0.16	6.20	7.03	703	50	-5	-100	0.07	0.1	5.253	0.599	0	0	0	4 C
OH2367	OH2365	B	OH_Digitiz	7.19Y	119.8	0.00	6.21	0.70	70	5	0	100	0.00	0.0	5.346	0.092	0	0	0	1
000061900001...	OH2367	B	Consumer	7.19Y	119.8	0.00	6.21	0.70	0	5	0	100	0.00	0.0	5.346	0.092	5	0	1	1
C OH2311	OH2365	B	OH_Digitiz	7.19Y	119.8	0.02	6.22	2.01	201	14	-1	-100	0.00	0.0	5.494	0.240	0	0	0	1 C
000061900001...	OH2311	B	Consumer	7.19Y	119.8	0.00	6.22	2.01	0	14	-1	-100	0.00	0.0	5.494	0.240	14	-1	1	1
000061900001...	OH2365	B	Consumer	7.19Y	119.8	0.00	6.20	1.59	0	11	-1	-100	0.00	0.0	5.253	0.240	11	-1	1	1
000061900001...	OH2365	B	Consumer	7.19Y	119.8	0.00	6.20	0.00	0	0	0	100	0.00	0.0	5.253	0.240	0	0	0	0
000061900001...	OH2365	B	Consumer	7.19Y	119.8	0.00	6.20	2.74	0	20	-2	-100	0.00	0.0	5.253	0.240	20	-2	1	1
OH2314	OH2307	ABC	336 ACSR18	7.19Y	119.9	0.06	6.10	121.86	23	2631	-44	-100	1.39	0.1	4.769	0.114	0	0	0	345
OH2377	OH2314	ABC	336 ACSR18	7.19Y	119.8	0.06	6.16	119.99	23	2589	-43	-100	1.27	0.0	4.876	0.107	0	0	0	342
OH2378	OH2377	ABC	336 ACSR18	7.19Y	119.8	0.04	6.20	118.22	23	2550	-43	-100	0.97	0.0	4.960	0.084	0	0	0	340
OH2379	OH2378	ABC	336 ACSR18	7.18Y	119.7	0.05	6.25	116.39	22	2509	-42	-100	1.06	0.0	5.055	0.095	0	0	0	336
OH2387	OH2379	C	OH_Digitiz	7.18Y	119.7	0.00	6.25	0.00	0	0	0	100	0.00	0.0	5.157	0.102	0	0	0	0
000061900001...	OH2387	C	Consumer	7.18Y	119.7	0.00	6.25	0.00	0	0	0	100	0.00	0.0	5.157	0.102	0	0	0	0
000061900001...	OH2387	C	Consumer	7.18Y	119.7	0.00	6.25	0.00	0	0	0	100	0.00	0.0	5.157	0.102	0	0	0	0
OH2308	OH2379	ABC	336 ACSR18	7.18Y	119.7	0.04	6.29	115.80	22	2496	-43	-100	0.76	0.0	5.124	0.069	0	0	0	335
C OH2435	OH2308	C	OH_Digitiz	7.18Y	119.7	0.00	6.29	1.08	108	8	-1	-99	0.00	0.0	5.183	0.059	0	0	0	3 C
OH2415	OH2435	C	OH_Digitiz	7.18Y	119.7	0.00	6.29	0.55	55	4	0	100	0.00	0.0	5.324	0.141	0	0	0	1

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
000061900001...	OH2415	C	Consumer	7.18Y	119.7	0.00	6.29	0.00	0	0	0	100	0.00	0.0	5.324	0.141	0	0	0	0
000061900001...	OH2415	C	Consumer	7.18Y	119.7	0.00	6.29	0.55	0	4	0	100	0.00	0.0	5.324	0.141	4	0	1	1
000061900001...	OH2435	C	Consumer	7.18Y	119.7	0.00	6.29	0.09	0	1	0	100	0.00	0.0	5.183	0.141	1	0	1	1
000061900001...	OH2435	C	Consumer	7.18Y	119.7	0.00	6.29	0.00	0	0	0	100	0.00	0.0	5.183	0.141	0	0	0	0
000061900001...	OH2435	C	Consumer	7.18Y	119.7	0.00	6.29	0.45	0	3	0	100	0.00	0.0	5.183	0.141	3	0	1	1
000061900001...	OH2435	C	Consumer	7.18Y	119.7	0.00	6.29	0.00	0	0	0	100	0.00	0.0	5.183	0.141	0	0	0	0
000061900001...	OH2435	C	Consumer	7.18Y	119.7	0.00	6.29	0.00	0	0	0	100	0.00	0.0	5.183	0.141	0	0	0	0
OH2389	OH2308	ABC	336 ACSR18	7.18Y	119.7	0.06	6.34	108.97	21	2348	-31	-100	1.15	0.0	5.242	0.118	0	0	0	313
OH2390	OH2389	ABC	336 ACSR18	7.18Y	119.6	0.06	6.41	108.97	21	2347	-34	-100	1.31	0.1	5.376	0.134	0	0	0	313
OH2391	OH2390	ABC	336 ACSR18	7.17Y	119.4	0.17	6.58	108.97	21	2346	-37	-100	3.56	0.2	5.739	0.364	0	0	0	313
OH2567	OH2391	ABC	336 ACSR18	7.16Y	119.4	0.04	6.62	107.90	21	2319	-44	-100	0.75	0.0	5.818	0.079	0	0	0	311
OH2568	OH2567	ABC	336 ACSR18	7.16Y	119.3	0.06	6.67	107.74	21	2315	-45	-100	1.12	0.0	5.935	0.117	0	0	0	310
C OH2594	OH2568	B	OH_Digitiz	7.16Y	119.3	0.01	6.68	2.76	276	20	-2	-100	0.00	0.0	6.008	0.073	0	0	0	1 C
000061330509...	OH2594	B	Consumer	7.16Y	119.3	0.00	6.68	2.76	0	20	-2	-100	0.00	0.0	6.008	0.073	20	-2	1	1
OH2584	OH2568	ABC	336 ACSR18	7.15Y	119.2	0.08	6.75	106.82	21	2294	-46	-100	1.60	0.1	6.106	0.171	0	0	0	309
OH2595	OH2584	A	OH_Digitiz	7.15Y	119.2	0.00	6.75	0.43	43	3	0	100	0.00	0.0	6.288	0.182	0	0	0	1
000061330509...	OH2595	A	Consumer	7.15Y	119.2	0.00	6.75	0.43	0	3	0	100	0.00	0.0	6.288	0.182	3	0	1	1
OH2585	OH2584	ABC	336 ACSR18	7.15Y	119.2	0.02	6.77	106.68	21	2289	-49	-100	0.38	0.0	6.146	0.040	0	0	0	308
C OH2596	OH2585	B	OH_Digitiz	7.15Y	119.2	0.01	6.78	0.99	99	6	3	89	0.00	0.0	6.290	0.144	0	0	0	1 C
000061330509...	OH2596	B	Consumer	7.15Y	119.2	0.00	6.78	0.99	0	6	3	89	0.00	0.0	6.290	0.144	6	3	1	1
000061330509...	OH2596	B	Consumer	7.15Y	119.2	0.00	6.78	0.00	0	0	0	100	0.00	0.0	6.290	0.144	0	0	0	0
OH2560	OH2585	ABC	336 ACSR18	7.15Y	119.2	0.07	6.84	106.38	20	2283	-53	-100	1.37	0.1	6.293	0.147	0	0	0	307
OH2813	OH2560	ABC	4 ACSR 7/1	7.14Y	118.9	0.23	7.07	19.49	14	418	-6	-100	0.80	0.2	6.608	0.315	0	0	0	61
OH2814	OH2813	ABC	4 ACSR 7/1	7.13Y	118.8	0.14	7.21	19.46	14	417	-6	-100	0.49	0.1	6.802	0.194	0	0	0	60
C OH2817	OH2814	B	OH_Digitiz	7.13Y	118.8	0.01	7.22	2.61	261	17	8	90	0.00	0.0	6.923	0.121	0	0	0	1 C
000061330508...	OH2817	B	Consumer	7.13Y	118.8	0.00	7.22	2.61	0	17	8	90	0.00	0.0	6.923	0.121	17	8	1	1
OH2815	OH2814	ABC	4 ACSR 7/1	7.13Y	118.8	0.04	7.24	18.69	13	399	-15	-100	0.12	0.0	6.854	0.052	0	0	0	59
OH2820	OH2815	ABC	4 ACSR 7/1	7.12Y	118.7	0.04	7.28	18.26	13	390	-14	-100	0.13	0.0	6.910	0.056	0	0	0	56
OH2565	OH2820	ABC	4 ACSR 7/1	7.12Y	118.7	0.02	7.30	17.62	13	376	-13	-100	0.08	0.0	6.948	0.038	0	0	0	54
OH2821	OH2565	ABC	4 ACSR 7/1	7.12Y	118.6	0.06	7.37	17.62	13	376	-13	-100	0.20	0.1	7.044	0.096	0	0	0	54
OH2839	OH2821	A	OH_Digitiz	7.12Y	118.6	0.00	7.37	0.00	0	0	0	100	0.00	0.0	7.150	0.106	0	0	0	0
000061330508...	OH2839	A	Consumer	7.12Y	118.6	0.00	7.37	0.00	0	0	0	100	0.00	0.0	7.150	0.106	0	0	0	0
OH2822	OH2821	ABC	4 ACSR 7/1	7.12Y	118.6	0.04	7.40	17.62	13	376	-13	-100	0.12	0.0	7.103	0.059	0	0	0	54
OH2840	OH2822	A	OH_Digitiz	7.12Y	118.6	0.00	7.40	0.00	0	0	0	100	0.00	0.0	7.187	0.084	0	0	0	0
000061330508...	OH2840	A	Consumer	7.12Y	118.6	0.00	7.40	0.00	0	0	0	100	0.00	0.0	7.187	0.084	0	0	0	0
OH2823	OH2822	ABC	4 ACSR 7/1	7.11Y	118.6	0.02	7.42	17.62	13	376	-13	-100	0.06	0.0	7.131	0.028	0	0	0	54
C OH2841	OH2823	B	OH_Digitiz	7.11Y	118.6	0.00	7.43	1.16	116	8	-1	-99	0.00	0.0	7.223	0.092	0	0	0	1 C

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts											mi		-----Element-----					
		-Base Voltage:120.0-											From	Length			Cons	Cons		
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	Src	(mi)	KW	KVAR	On	Thru
OH2842	OH2841	B	OH_Digitiz	7.11Y	118.6	0.00	7.43	0.00	0	0	0	100	0.00	0.0	7.256	0.033	0	0	0	0
000061330508...	OH2842	B	Consumer	7.11Y	118.6	0.00	7.43	0.00	0	0	0	100	0.00	0.0	7.256	0.033	0	0	0	0
000061330508...	OH2841	B	Consumer	7.11Y	118.6	0.00	7.43	1.16	0	8	-1	-99	0.00	0.0	7.223	0.033	8	-1	1	1
000061330508...	OH2841	B	Consumer	7.11Y	118.6	0.00	7.43	0.00	0	0	0	100	0.00	0.0	7.223	0.033	0	0	0	0
OH2824	OH2823	ABC	4 ACSR 7/1	7.11Y	118.5	0.05	7.47	17.23	12	368	-12	-100	0.16	0.0	7.209	0.078	0	0	0	53
OH30241	OH2824	C	4 ACSR 7/1	7.10Y	118.4	0.14	7.61	19.11	14	136	-10	-100	0.17	0.1	7.398	0.188	0	0	0	15
OH30244	OH30241	C	4 ACSR 7/1	7.10Y	118.4	0.00	7.61	0.04	0	0	0	100	0.00	0.0	7.452	0.054	0	0	0	1
000061330508...	OH30244	C	Consumer	7.10Y	118.4	0.00	7.61	0.04	0	0	0	100	0.00	0.0	7.452	0.054	0	0	1	1
OH2846	OH30241	C	4 ACSR 7/1	7.09Y	118.2	0.14	7.76	19.07	14	135	-10	-100	0.17	0.1	7.590	0.192	0	0	0	14
OH2875	OH2846	C	4 ACSR 7/1	7.09Y	118.2	0.03	7.79	16.21	12	115	-8	-100	0.03	0.0	7.639	0.049	0	0	0	11
OH2883	OH2875	C	4 ACSR 7/1	7.09Y	118.2	0.02	7.81	13.02	9	92	-6	-100	0.01	0.0	7.672	0.033	0	0	0	9
OH2871	OH2883	C	4 ACSR 7/1	7.09Y	118.2	0.03	7.84	13.02	9	92	-6	-100	0.03	0.0	7.735	0.063	0	0	0	9
OH29388	OH2871	C	4 ACSR 7/1	7.08Y	118.0	0.20	8.04	13.02	9	92	-6	-100	0.17	0.2	8.127	0.392	0	0	0	9
OH2886	OH29388	C	4 ACSR 7/1	7.08Y	117.9	0.03	8.07	11.27	8	80	-5	-100	0.02	0.0	8.195	0.068	0	0	0	7
OH2887	OH2886	C	4 ACSR 7/1	7.07Y	117.9	0.05	8.12	11.27	8	80	-5	-100	0.04	0.0	8.307	0.111	0	0	0	7
OH2903	OH2887	C	4 ACSR 7/1	7.07Y	117.9	0.00	8.12	0.00	0	0	0	100	0.00	0.0	8.390	0.083	0	0	0	0
000061330408...	OH2903	C	Consumer	7.07Y	117.9	0.00	8.12	0.00	0	0	0	100	0.00	0.0	8.390	0.083	0	0	0	0
OH2888	OH2887	C	4 ACSR 7/1	7.07Y	117.8	0.05	8.17	11.27	8	80	-5	-100	0.03	0.0	8.408	0.101	0	0	0	7
OH30216	OH2888	C	4 ACSR 7/1	7.07Y	117.8	0.02	8.19	3.94	3	28	-3	-99	0.01	0.0	8.549	0.141	0	0	0	2
OH30217	OH30216	C	4 ACSR 7/1	7.07Y	117.8	0.01	8.20	3.94	3	28	-3	-99	0.00	0.0	8.623	0.074	0	0	0	2
000061330408...	OH30217	C	Consumer	7.07Y	117.8	0.00	8.20	2.51	0	18	-2	-99	0.00	0.0	8.623	0.074	18	-2	1	1
000061330408...	OH30217	C	Consumer	7.07Y	117.8	0.00	8.20	1.44	0	10	-1	-100	0.00	0.0	8.623	0.074	10	-1	1	1
OH2904	OH30216	C	4 ACSR 7/1	7.07Y	117.8	0.00	8.19	0.00	0	0	0	100	0.00	0.0	8.772	0.223	0	0	0	0
OH2906	OH2904	C	4 ACSR 7/1	7.07Y	117.8	0.00	8.19	0.00	0	0	0	100	0.00	0.0	8.919	0.147	0	0	0	0
000061330408...	OH2906	C	Consumer	7.07Y	117.8	0.00	8.19	0.00	0	0	0	100	0.00	0.0	8.919	0.147	0	0	0	0
OH2905	OH2904	C	4 ACSR 7/1	7.07Y	117.8	0.00	8.19	0.00	0	0	0	100	0.00	0.0	8.942	0.170	0	0	0	0
000061330408...	OH2905	C	Consumer	7.07Y	117.8	0.00	8.19	0.00	0	0	0	100	0.00	0.0	8.942	0.170	0	0	0	0
000061330408...	OH2904	C	Consumer	7.07Y	117.8	0.00	8.19	0.00	0	0	0	100	0.00	0.0	8.772	0.170	0	0	0	0
OH2889	OH2888	C	4 ACSR 7/1	7.07Y	117.8	0.05	8.21	7.33	5	52	-3	-100	0.02	0.0	8.563	0.156	0	0	0	5
OH2890	OH2889	C	4 ACSR 7/1	7.07Y	117.8	0.03	8.24	7.33	5	52	-3	-100	0.01	0.0	8.657	0.094	0	0	0	5
OH2891	OH2890	C	4 ACSR 7/1	7.06Y	117.7	0.03	8.27	7.33	5	52	-3	-100	0.01	0.0	8.752	0.095	0	0	0	5
OH2892	OH2891	C	4 ACSR 7/1	7.06Y	117.7	0.02	8.29	4.51	3	32	-1	-100	0.00	0.0	8.849	0.097	0	0	0	4
OH2902	OH2892	C	4 ACSR 7/1	7.06Y	117.7	0.00	8.29	0.00	0	0	0	100	0.00	0.0	8.897	0.047	0	0	0	0
000061330408...	OH2902	C	Consumer	7.06Y	117.7	0.00	8.29	0.00	0	0	0	100	0.00	0.0	8.897	0.047	0	0	0	0
OH2893	OH2892	C	4 ACSR 7/1	7.06Y	117.7	0.04	8.33	4.51	3	32	-1	-100	0.01	0.0	9.067	0.218	0	0	0	4
OH2897	OH2893	C	4 ACSR 7/1	7.06Y	117.7	0.00	8.33	0.58	0	4	2	89	0.00	0.0	9.099	0.032	0	0	0	1
000061330408...	OH2897	C	Consumer	7.06Y	117.7	0.00	8.33	0.58	0	4	2	89	0.00	0.0	9.099	0.032	4	2	1	1

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts														-----Element-----				
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OH2847	OH2893	C	4 ACSR 7/1	7.05Y	117.6	0.10	8.43	4.00	3	28	-3	-99	0.03	0.1	9.723	0.656	0	0	0	3
OH30213	OH2847	C	4 ACSR 7/1	7.05Y	117.6	0.01	8.44	3.06	2	22	-2	-100	0.00	0.0	9.790	0.067	0	0	0	1
000061330409...	OH30213	C	Consumer	7.05Y	117.6	0.00	8.44	3.06	0	22	-2	-100	0.00	0.0	9.790	0.067	22	-2	1	1
000061330409...	OH2847	C	Consumer	7.05Y	117.6	0.00	8.43	0.08	0	1	0	100	0.00	0.0	9.723	0.067	1	0	1	1
000061330409...	OH2847	C	Consumer	7.05Y	117.6	0.00	8.43	0.87	0	6	-1	-99	0.00	0.0	9.723	0.067	6	-1	1	1
000061330408...	OH2893	C	Consumer	7.06Y	117.7	0.00	8.33	0.00	0	0	0	100	0.00	0.0	9.067	0.067	0	0	0	0
000061330408...	OH2891	C	Consumer	7.06Y	117.7	0.00	8.27	2.82	0	20	-2	-100	0.00	0.0	8.752	0.067	20	-2	1	1
000061330408...	OH2890	C	Consumer	7.07Y	117.8	0.00	8.24	0.00	0	0	0	100	0.00	0.0	8.657	0.067	0	0	0	0
000061330408...	OH2889	C	Consumer	7.07Y	117.8	0.00	8.21	0.00	0	0	0	100	0.00	0.0	8.563	0.067	0	0	0	0
000061330408...	OH2886	C	Consumer	7.08Y	117.9	0.00	8.07	0.00	0	0	0	100	0.00	0.0	8.195	0.067	0	0	0	0
000061330408...	OH29388	C	Consumer	7.08Y	118.0	0.00	8.04	0.18	0	1	0	100	0.00	0.0	8.127	0.067	1	0	1	1
000061330408...	OH29388	C	Consumer	7.08Y	118.0	0.00	8.04	1.57	0	11	-1	-100	0.00	0.0	8.127	0.067	11	-1	1	1
000061330508...	OH2871	C	Consumer	7.09Y	118.2	0.00	7.84	0.00	0	0	0	100	0.00	0.0	7.735	0.067	0	0	0	0
000061330508...	OH2883	C	Consumer	7.09Y	118.2	0.00	7.81	0.00	0	0	0	100	0.00	0.0	7.672	0.067	0	0	0	0
OH2878	OH2875	C	4 ACSR 7/1	7.09Y	118.2	0.00	7.80	3.19	2	23	-2	-100	0.00	0.0	7.678	0.039	0	0	0	2
000061330508...	OH2878	C	Consumer	7.09Y	118.2	0.00	7.80	1.95	0	14	-1	-100	0.00	0.0	7.678	0.039	14	-1	1	1
000061330508...	OH2878	C	Consumer	7.09Y	118.2	0.00	7.80	1.23	0	9	-1	-99	0.00	0.0	7.678	0.039	9	-1	1	1
OH2844	OH2846	C	4 ACSR 7/1	7.09Y	118.2	0.01	7.77	2.57	2	18	-2	-99	0.00	0.0	7.689	0.098	0	0	0	2
000061330508...	OH2844	C	Consumer	7.09Y	118.2	0.00	7.77	2.49	0	18	-2	-99	0.00	0.0	7.689	0.098	18	-2	1	1
000061330508...	OH2844	C	Consumer	7.09Y	118.2	0.00	7.77	0.08	0	1	0	100	0.00	0.0	7.689	0.098	1	0	1	1
000061330508...	OH2844	C	Consumer	7.09Y	118.2	0.00	7.77	0.00	0	0	0	100	0.00	0.0	7.689	0.098	0	0	0	0
000061330508...	OH2846	C	Consumer	7.09Y	118.2	0.00	7.76	0.29	0	2	0	100	0.00	0.0	7.590	0.098	2	0	1	1
000061330508...	OH2846	C	Consumer	7.09Y	118.2	0.00	7.76	0.00	0	0	0	100	0.00	0.0	7.590	0.098	0	0	0	0
OH2957	OH2824	ABC	4 ACSR 7/1	7.11Y	118.5	0.03	7.50	10.87	8	232	-2	-100	0.06	0.0	7.284	0.074	0	0	0	38
OH2827	OH2957	C	4 ACSR 7/1	7.10Y	118.4	0.14	7.64	28.71	21	203	-16	-100	0.24	0.1	7.404	0.120	0	0	0	37
OH2829	OH2827	C	4 ACSR 7/1	7.10Y	118.4	0.00	7.64	0.00	0	0	0	100	0.00	0.0	7.557	0.154	0	0	0	0
000061330508...	OH2829	C	Consumer	7.10Y	118.4	0.00	7.64	0.00	0	0	0	100	0.00	0.0	7.557	0.154	0	0	0	0
OH2826	OH2827	C	4 ACSR 7/1	7.09Y	118.1	0.26	7.89	28.71	21	203	-16	-100	0.47	0.2	7.631	0.227	0	0	0	37
OH2830	OH2826	C	4 ACSR 7/1	7.07Y	117.8	0.26	8.15	28.71	21	203	-17	-100	0.47	0.2	7.860	0.229	0	0	0	36
OH2831	OH2830	C	4 ACSR 7/1	7.05Y	117.6	0.27	8.42	27.53	20	194	-16	-100	0.46	0.2	8.106	0.246	0	0	0	34
OH2832	OH2831	C	4 ACSR 7/1	7.05Y	117.5	0.05	8.47	27.53	20	194	-16	-100	0.08	0.0	8.151	0.045	0	0	0	34
OH2746	OH2832	C	4 ACSR 7/1	7.05Y	117.5	0.02	8.49	22.09	16	155	-13	-100	0.03	0.0	8.173	0.022	0	0	0	30
OH2833	OH2746	C	4 ACSR 7/1	7.05Y	117.5	0.03	8.52	18.29	13	129	-10	-100	0.04	0.0	8.216	0.043	0	0	0	27
OH2901	OH2833	C	4 ACSR 7/1	7.05Y	117.5	0.01	8.53	12.74	9	90	-7	-100	0.01	0.0	8.242	0.025	0	0	0	20
OH2967	OH2901	C	4 ACSR 7/1	7.05Y	117.5	0.00	8.53	12.74	9	90	-7	-100	0.00	0.0	8.251	0.009	0	0	0	20
OH2969	OH2967	C	4 ACSR 7/1	7.05Y	117.5	0.00	8.53	0.00	0	0	0	100	0.00	0.0	8.301	0.050	0	0	0	0
000061330207...	OH2969	C	Consumer	7.05Y	117.5	0.00	8.53	0.00	0	0	0	100	0.00	0.0	8.301	0.050	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OH2962	OH2967	C	4 ACSR 7/1	7.05Y	117.5	0.00	8.54	12.74	9	90	-7	-100	0.00	0.0	8.260	0.009	0	0	0	20
OH2963	OH2962	C	4 ACSR 7/1	7.05Y	117.5	0.00	8.54	0.38	0	2	1	89	0.00	0.0	8.284	0.024	0	0	0	1
000061330207...	OH2963	C	Consumer	7.05Y	117.5	0.00	8.54	0.38	0	2	1	89	0.00	0.0	8.284	0.024	2	1	1	1
OH2914	OH2962	C	4 ACSR 7/1	7.05Y	117.4	0.04	8.57	12.41	9	87	-8	-100	0.03	0.0	8.333	0.073	0	0	0	19
OH2974	OH2914	C	4 ACSR 7/1	7.05Y	117.4	0.00	8.57	0.00	0	0	0	100	0.00	0.0	8.391	0.058	0	0	0	0
000061330207...	OH2974	C	Consumer	7.05Y	117.4	0.00	8.57	0.00	0	0	0	100	0.00	0.0	8.391	0.058	0	0	0	0
OH2913	OH2914	C	4 ACSR 7/1	7.04Y	117.4	0.05	8.63	12.41	9	87	-8	-100	0.04	0.0	8.445	0.112	0	0	0	19
OH2990	OH2913	C	4 ACSR 7/1	7.04Y	117.4	0.01	8.64	4.32	3	30	-3	-100	0.00	0.0	8.503	0.058	0	0	0	7
OH3000	OH2990	C	4 ACSR 7/1	7.04Y	117.4	0.00	8.64	0.48	0	3	0	100	0.00	0.0	8.556	0.053	0	0	0	1
000061330207...	OH3000	C	Consumer	7.04Y	117.4	0.00	8.64	0.48	0	3	0	100	0.00	0.0	8.556	0.053	3	0	1	1
OH2991	OH2990	C	4 ACSR 7/1	7.04Y	117.4	0.00	8.64	3.85	3	27	-2	-100	0.00	0.0	8.516	0.013	0	0	0	6
OH2992	OH2991	C	4 ACSR 7/1	7.04Y	117.4	0.01	8.65	2.81	2	20	-2	-100	0.00	0.0	8.574	0.058	0	0	0	5
OH2993	OH2992	C	4 ACSR 7/1	7.04Y	117.3	0.01	8.65	1.52	1	11	-1	-100	0.00	0.0	8.661	0.087	0	0	0	3
OH3011	OH2993	C	4 ACSR 7/1	7.04Y	117.3	0.01	8.66	0.32	0	2	0	100	0.00	0.0	9.204	0.544	0	0	0	1
000061330206...	OH3011	C	Consumer	7.04Y	117.3	0.00	8.66	0.32	0	2	0	100	0.00	0.0	9.204	0.544	2	0	1	1
OH2996	OH2993	C	4 ACSR 7/1	7.04Y	117.3	0.00	8.65	0.06	0	0	0	100	0.00	0.0	8.729	0.068	0	0	0	1
000061330207...	OH2996	C	Consumer	7.04Y	117.3	0.00	8.65	0.06	0	0	0	100	0.00	0.0	8.729	0.068	0	0	1	1
OH2557	OH2993	C	4 ACSR 7/1	7.04Y	117.3	0.00	8.65	1.14	1	8	-1	-99	0.00	0.0	8.750	0.090	0	0	0	1
000061330207...	OH2557	C	Consumer	7.04Y	117.3	0.00	8.65	1.14	0	8	-1	-99	0.00	0.0	8.750	0.090	8	-1	1	1
000061330207...	OH2993	C	Consumer	7.04Y	117.3	0.00	8.65	0.00	0	0	0	100	0.00	0.0	8.661	0.090	0	0	0	0
000061330207...	OH2992	C	Consumer	7.04Y	117.4	0.00	8.65	0.76	0	5	0	100	0.00	0.0	8.574	0.090	5	0	1	1
000061330207...	OH2992	C	Consumer	7.04Y	117.4	0.00	8.65	0.00	0	0	0	100	0.00	0.0	8.574	0.090	0	0	0	0
000061330207...	OH2992	C	Consumer	7.04Y	117.4	0.00	8.65	0.53	0	4	0	100	0.00	0.0	8.574	0.090	4	0	1	1
000061330207...	OH2991	C	Consumer	7.04Y	117.4	0.00	8.64	1.04	0	7	-1	-99	0.00	0.0	8.516	0.090	7	-1	1	1
OH2977	OH2913	C	4 ACSR 7/1	7.04Y	117.4	0.02	8.65	8.09	6	57	-5	-100	0.01	0.0	8.512	0.067	0	0	0	12
OH2984	OH2977	C	4 ACSR 7/1	7.04Y	117.3	0.01	8.65	6.91	5	48	-4	-100	0.00	0.0	8.532	0.019	0	0	0	11
OH2915	OH2984	C	4 ACSR 7/1	7.04Y	117.3	0.00	8.66	5.37	4	38	-3	-100	0.00	0.0	8.552	0.020	0	0	0	10
OH2917	OH2915	C	4 ACSR 7/1	7.04Y	117.3	0.02	8.67	5.37	4	38	-3	-100	0.01	0.0	8.628	0.076	0	0	0	10
OH2918	OH2917	C	4 ACSR 7/1	7.04Y	117.3	0.02	8.70	5.37	4	38	-3	-100	0.01	0.0	8.731	0.103	0	0	0	10
OH2925	OH2918	C	4 ACSR 7/1	7.04Y	117.3	0.00	8.70	0.64	0	5	0	100	0.00	0.0	8.814	0.083	0	0	0	3
OH2926	OH2925	C	4 ACSR 7/1	7.04Y	117.3	0.00	8.70	0.36	0	3	0	100	0.00	0.0	8.853	0.039	0	0	0	2
000061330407...	OH2926	C	Consumer	7.04Y	117.3	0.00	8.70	0.00	0	0	0	100	0.00	0.0	8.853	0.039	0	0	1	1
000061330407...	OH2926	C	Consumer	7.04Y	117.3	0.00	8.70	0.36	0	3	0	100	0.00	0.0	8.853	0.039	3	0	1	1
000061330407...	OH2925	C	Consumer	7.04Y	117.3	0.00	8.70	0.28	0	2	0	100	0.00	0.0	8.814	0.039	2	0	1	1
OH2919	OH2918	C	4 ACSR 7/1	7.04Y	117.3	0.02	8.72	4.73	3	33	-3	-100	0.01	0.0	8.840	0.109	0	0	0	7
OH2920	OH2919	C	4 ACSR 7/1	7.04Y	117.3	0.01	8.72	3.34	2	23	-2	-100	0.00	0.0	8.891	0.051	0	0	0	6
OH2921	OH2920	C	4 ACSR 7/1	7.04Y	117.3	0.02	8.75	2.37	2	17	-2	-99	0.00	0.0	9.157	0.266	0	0	0	5

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts														-----Element-----				
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OH2922	OH2921	C	4 ACSR 7/1	7.04Y	117.3	0.00	8.75	1.03	1	7	-1	-99	0.00	0.0	9.176	0.019	0	0	0	3
OH2939	OH2922	C	4 ACSR 7/1	7.04Y	117.3	0.00	8.75	1.03	1	7	-1	-99	0.00	0.0	9.213	0.038	0	0	0	2
OH2940	OH2939	C	4 ACSR 7/1	7.03Y	117.2	0.01	8.76	0.86	1	6	-1	-99	0.00	0.0	9.597	0.384	0	0	0	1
000061330408...	OH2940	C	Consumer	7.03Y	117.2	0.00	8.76	0.86	0	6	-1	-99	0.00	0.0	9.597	0.384	6	-1	1	1
OH2923	OH2939	C	4 ACSR 7/1	7.04Y	117.3	0.00	8.75	0.17	0	1	0	100	0.00	0.0	9.263	0.049	0	0	0	1
OH2916	OH2923	C	4 ACSR 7/1	7.04Y	117.3	0.00	8.75	0.00	0	0	0	100	0.00	0.0	9.351	0.089	0	0	0	0
000061330408...	OH2916	C	Consumer	7.04Y	117.3	0.00	8.75	0.00	0	0	0	100	0.00	0.0	9.351	0.089	0	0	0	0
000061330407...	OH2923	C	Consumer	7.04Y	117.3	0.00	8.75	0.17	0	1	0	100	0.00	0.0	9.263	0.089	1	0	1	1
OH2924	OH2922	C	4 ACSR 7/1	7.04Y	117.3	0.00	8.75	0.00	0	0	0	100	0.00	0.0	9.221	0.045	0	0	0	1
000061330407...	OH2924	C	Consumer	7.04Y	117.3	0.00	8.75	0.00	0	0	0	100	0.00	0.0	9.221	0.045	0	0	0	0
000061330407...	OH2924	C	Consumer	7.04Y	117.3	0.00	8.75	0.00	0	0	0	100	0.00	0.0	9.221	0.045	0	0	1	1
000061330407...	OH2921	C	Consumer	7.04Y	117.3	0.00	8.75	1.05	0	7	-1	-99	0.00	0.0	9.157	0.045	7	-1	1	1
000061330407...	OH2921	C	Consumer	7.04Y	117.3	0.00	8.75	0.29	0	2	0	100	0.00	0.0	9.157	0.045	2	0	1	1
000061330407...	OH2920	C	Consumer	7.04Y	117.3	0.00	8.72	0.96	0	7	-1	-99	0.00	0.0	8.891	0.045	7	-1	1	1
000061330407...	OH2919	C	Consumer	7.04Y	117.3	0.00	8.72	1.39	0	10	-1	-100	0.00	0.0	8.840	0.045	10	-1	1	1
000061330407...	OH2919	C	Consumer	7.04Y	117.3	0.00	8.72	0.00	0	0	0	100	0.00	0.0	8.840	0.045	0	0	0	0
000061330407...	OH2919	C	Consumer	7.04Y	117.3	0.00	8.72	0.00	0	0	0	100	0.00	0.0	8.840	0.045	0	0	0	0
000061330407...	OH2917	C	Consumer	7.04Y	117.3	0.00	8.67	0.00	0	0	0	100	0.00	0.0	8.628	0.045	0	0	0	0
000061330407...	OH2915	C	Consumer	7.04Y	117.3	0.00	8.66	0.00	0	0	0	100	0.00	0.0	8.552	0.045	0	0	0	0
000061330407...	OH2915	C	Consumer	7.04Y	117.3	0.00	8.66	0.00	0	0	0	100	0.00	0.0	8.552	0.045	0	0	0	0
000061330207...	OH2984	C	Consumer	7.04Y	117.3	0.00	8.65	1.55	0	11	-1	-100	0.00	0.0	8.532	0.045	11	-1	1	1
OH2978	OH2977	C	4 ACSR 7/1	7.04Y	117.4	0.00	8.65	0.00	0	0	0	100	0.00	0.0	8.564	0.052	0	0	0	0
000061330207...	OH2978	C	Consumer	7.04Y	117.4	0.00	8.65	0.00	0	0	0	100	0.00	0.0	8.564	0.052	0	0	0	0
000061330207...	OH2977	C	Consumer	7.04Y	117.4	0.00	8.65	0.00	0	0	0	100	0.00	0.0	8.512	0.052	0	0	0	0
000061330207...	OH2977	C	Consumer	7.04Y	117.4	0.00	8.65	1.18	0	8	-1	-99	0.00	0.0	8.512	0.052	8	-1	1	1
000061330207...	OH2977	C	Consumer	7.04Y	117.4	0.00	8.65	0.00	0	0	0	100	0.00	0.0	8.512	0.052	0	0	0	0
000061330207...	OH2977	C	Consumer	7.04Y	117.4	0.00	8.65	0.00	0	0	0	100	0.00	0.0	8.512	0.052	0	0	0	0
000061330207...	OH2977	C	Consumer	7.04Y	117.4	0.00	8.65	0.00	0	0	0	100	0.00	0.0	8.512	0.052	0	0	0	0
000061330207...	OH2914	C	Consumer	7.05Y	117.4	0.00	8.57	0.00	0	0	0	100	0.00	0.0	8.333	0.052	0	0	0	0
000061330207...	OH2967	C	Consumer	7.05Y	117.5	0.00	8.53	0.00	0	0	0	100	0.00	0.0	8.251	0.052	0	0	0	0
OH2907	OH2901	C	4 ACSR 7/1	7.05Y	117.5	0.00	8.53	0.00	0	0	0	100	0.00	0.0	8.530	0.288	0	0	0	0
OH2908	OH2907	C	4 ACSR 7/1	7.05Y	117.5	0.00	8.53	0.00	0	0	0	100	0.00	0.0	8.599	0.070	0	0	0	0
000061330407...	OH2908	C	Consumer	7.05Y	117.5	0.00	8.53	0.00	0	0	0	100	0.00	0.0	8.599	0.070	0	0	0	0
000061330407...	OH2907	C	Consumer	7.05Y	117.5	0.00	8.53	0.00	0	0	0	100	0.00	0.0	8.530	0.070	0	0	0	0
000061330207...	OH2901	C	Consumer	7.05Y	117.5	0.00	8.53	0.00	0	0	0	100	0.00	0.0	8.242	0.070	0	0	0	0
OH2834	OH2833	C	4 ACSR 7/1	7.05Y	117.5	0.01	8.53	5.55	4	39	-4	-99	0.00	0.0	8.266	0.050	0	0	0	7
OH2835	OH2834	C	4 ACSR 7/1	7.05Y	117.5	0.01	8.53	5.01	4	35	-3	-100	0.00	0.0	8.302	0.036	0	0	0	6

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OH2836	OH2835	C	4 ACSR 7/1	7.05Y	117.5	0.01	8.54	2.83	2	20	-2	-100	0.00	0.0	8.388	0.086	0	0	0	3
OH2838	OH2836	C	4 ACSR 7/1	7.05Y	117.5	0.00	8.54	1.35	1	9	-1	-99	0.00	0.0	8.417	0.028	0	0	0	2
OH2843	OH2838	C	4 ACSR 7/1	7.05Y	117.5	0.00	8.55	0.76	1	5	0	100	0.00	0.0	8.501	0.084	0	0	0	1
000061330507...	OH2843	C	Consumer	7.05Y	117.5	0.00	8.55	0.76	0	5	0	100	0.00	0.0	8.501	0.084	5	0	1	1
000061330507...	OH2838	C	Consumer	7.05Y	117.5	0.00	8.54	0.59	0	4	0	100	0.00	0.0	8.417	0.084	4	0	1	1
OH2837	OH2836	C	4 ACSR 7/1	7.05Y	117.5	0.00	8.54	0.00	0	0	0	100	0.00	0.0	8.453	0.065	0	0	0	0
000061330507...	OH2837	C	Consumer	7.05Y	117.5	0.00	8.54	0.00	0	0	0	100	0.00	0.0	8.453	0.065	0	0	0	0
000061330507...	OH2836	C	Consumer	7.05Y	117.5	0.00	8.54	1.48	0	10	-1	-100	0.00	0.0	8.388	0.065	10	-1	1	1
000061330507...	OH2835	C	Consumer	7.05Y	117.5	0.00	8.53	0.03	0	0	0	100	0.00	0.0	8.302	0.065	0	0	1	1
000061330507...	OH2835	C	Consumer	7.05Y	117.5	0.00	8.53	0.59	0	4	0	100	0.00	0.0	8.302	0.065	4	0	1	1
000061330507...	OH2835	C	Consumer	7.05Y	117.5	0.00	8.53	1.57	0	11	-1	-100	0.00	0.0	8.302	0.065	11	-1	1	1
OH2825	OH2834	C	4 ACSR 7/1	7.05Y	117.5	0.00	8.53	0.53	0	4	0	100	0.00	0.0	8.343	0.077	0	0	0	1
OH2845	OH2825	C	4 ACSR 7/1	7.05Y	117.5	0.00	8.53	0.00	0	0	0	100	0.00	0.0	8.410	0.067	0	0	0	0
000061330507...	OH2845	C	Consumer	7.05Y	117.5	0.00	8.53	0.00	0	0	0	100	0.00	0.0	8.410	0.067	0	0	0	0
000061330507...	OH2825	C	Consumer	7.05Y	117.5	0.00	8.53	0.53	0	4	0	100	0.00	0.0	8.343	0.067	4	0	1	1
OH2760	OH2746	C	4 ACSR 7/1	7.05Y	117.5	0.01	8.49	3.80	3	27	-2	-100	0.00	0.0	8.226	0.052	0	0	0	3
OH2789	OH2760	C	4 ACSR 7/1	7.05Y	117.5	0.00	8.50	3.80	3	27	-2	-100	0.00	0.0	8.254	0.028	0	0	0	3
OH2811	OH2789	C	4 ACSR 7/1	7.05Y	117.5	0.02	8.51	3.24	2	23	-2	-100	0.00	0.0	8.391	0.137	0	0	0	2
OH2812	OH2811	C	4 ACSR 7/1	7.05Y	117.5	0.01	8.52	2.64	2	19	-2	-99	0.00	0.0	8.467	0.076	0	0	0	1
000061330507...	OH2812	C	Consumer	7.05Y	117.5	0.00	8.52	2.64	0	19	-2	-99	0.00	0.0	8.467	0.076	19	-2	1	1
000061330507...	OH2811	C	Consumer	7.05Y	117.5	0.00	8.51	0.60	0	4	0	100	0.00	0.0	8.391	0.076	4	0	1	1
000061330507...	OH2789	C	Consumer	7.05Y	117.5	0.00	8.50	0.56	0	4	0	100	0.00	0.0	8.254	0.076	4	0	1	1
000061330507...	OH2760	C	Consumer	7.05Y	117.5	0.00	8.49	0.00	0	0	0	100	0.00	0.0	8.226	0.076	0	0	0	0
OH2737	OH2832	C	4 ACSR 7/1	7.05Y	117.5	0.01	8.48	5.45	4	38	-4	-99	0.00	0.0	8.217	0.066	0	0	0	4
OH2741	OH2737	C	4 ACSR 7/1	7.05Y	117.5	0.00	8.48	0.00	0	0	0	100	0.00	0.0	8.263	0.046	0	0	0	0
000061330507...	OH2741	C	Consumer	7.05Y	117.5	0.00	8.48	0.00	0	0	0	100	0.00	0.0	8.263	0.046	0	0	0	0
OH2740	OH2737	C	4 ACSR 7/1	7.05Y	117.5	0.00	8.48	0.85	1	6	-1	-99	0.00	0.0	8.248	0.030	0	0	0	1
000061330507...	OH2740	C	Consumer	7.05Y	117.5	0.00	8.48	0.85	0	6	-1	-99	0.00	0.0	8.248	0.030	6	-1	1	1
000061330507...	OH2737	C	Consumer	7.05Y	117.5	0.00	8.48	0.27	0	2	0	100	0.00	0.0	8.217	0.030	2	0	1	1
000061330507...	OH2737	C	Consumer	7.05Y	117.5	0.00	8.48	2.29	0	16	-1	-100	0.00	0.0	8.217	0.030	16	-1	1	1
000061330507...	OH2737	C	Consumer	7.05Y	117.5	0.00	8.48	2.04	0	14	-1	-100	0.00	0.0	8.217	0.030	14	-1	1	1
000061330507...	OH2832	C	Consumer	7.05Y	117.5	0.00	8.47	0.00	0	0	0	100	0.00	0.0	8.151	0.030	0	0	0	0
000061330507...	OH2831	C	Consumer	7.05Y	117.6	0.00	8.42	0.00	0	0	0	100	0.00	0.0	8.106	0.030	0	0	0	0
000061330507...	OH2830	C	Consumer	7.07Y	117.8	0.00	8.15	0.06	0	0	0	100	0.00	0.0	7.860	0.030	0	0	1	1
000061330507...	OH2830	C	Consumer	7.07Y	117.8	0.00	8.15	1.12	0	8	-1	-99	0.00	0.0	7.860	0.030	8	-1	1	1
OH2828	OH2826	C	4 ACSR 7/1	7.09Y	118.1	0.00	7.89	0.00	0	0	0	100	0.00	0.0	7.733	0.102	0	0	0	0
000061330507...	OH2828	C	Consumer	7.09Y	118.1	0.00	7.89	0.00	0	0	0	100	0.00	0.0	7.733	0.102	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts													mi		-----Element-----			
		-Base Voltage:120.0-													From	Length			Cons	Cons
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	Src	(mi)	KW	KVAR	On	Thru
000061330507...	OH2826	C	Consumer	7.09Y	118.1	0.00	7.89	0.00	0	0	0	100	0.00	0.0	7.631	0.102	0	0	1	1
000061330507...	OH2826	C	Consumer	7.09Y	118.1	0.00	7.89	0.00	0	0	0	100	0.00	0.0	7.631	0.102	0	0	0	0
000061330508...	OH2957	ABC	Consumer	7.11Y	118.5	0.00	7.50	1.48	0	28	14	89	0.00	0.0	7.284	0.102	28	14	1	1
000061330508...	OH2820	C	Consumer	7.12Y	118.7	0.00	7.28	0.00	0	0	0	100	0.00	0.0	6.910	0.102	0	0	0	0
000061330508...	OH2820	C	Consumer	7.12Y	118.7	0.00	7.28	1.51	0	11	-1	-100	0.00	0.0	6.910	0.102	11	-1	1	1
000061330508...	OH2820	C	Consumer	7.12Y	118.7	0.00	7.28	0.42	0	3	0	100	0.00	0.0	6.910	0.102	3	0	1	1
000061330508...	OH2820	C	Consumer	7.12Y	118.7	0.00	7.28	0.42	0	3	0	100	0.00	0.0	6.910	0.102	3	0	1	1
C OH2818	OH2815	B	OH_Digitiz	7.13Y	118.8	0.01	7.25	1.24	124	9	-1	-99	0.00	0.0	7.002	0.148	0	0	0	2 C
OH2819	OH2818	B	OH_Digitiz	7.12Y	118.7	0.00	7.25	0.52	52	4	0	100	0.00	0.0	7.113	0.110	0	0	0	1
000061330508...	OH2819	B	Consumer	7.12Y	118.7	0.00	7.25	0.00	0	0	0	100	0.00	0.0	7.113	0.110	0	0	0	0
000061330508...	OH2819	B	Consumer	7.12Y	118.7	0.00	7.25	0.00	0	0	0	100	0.00	0.0	7.113	0.110	0	0	0	0
000061330508...	OH2819	B	Consumer	7.12Y	118.7	0.00	7.25	0.52	0	4	0	100	0.00	0.0	7.113	0.110	4	0	1	1
000061330508...	OH2819	B	Consumer	7.12Y	118.7	0.00	7.25	0.52	0	4	0	100	0.00	0.0	7.113	0.110	4	0	1	1
000061330508...	OH2818	B	Consumer	7.13Y	118.8	0.00	7.25	0.72	0	5	0	100	0.00	0.0	7.002	0.110	5	0	1	1
000061330508...	OH2818	B	Consumer	7.13Y	118.8	0.00	7.24	0.00	0	0	0	100	0.00	0.0	6.854	0.110	0	0	0	0
000061330508...	OH2815	C	Consumer	7.13Y	118.8	0.00	7.24	0.05	0	0	0	100	0.00	0.0	6.854	0.110	0	0	1	1
000061330508...	OH2815	C	Consumer	7.13Y	118.8	0.00	7.24	0.05	0	0	0	100	0.00	0.0	6.854	0.110	0	0	1	1
000061330508...	OH2813	C	Consumer	7.14Y	118.9	0.00	7.06	0.08	0	1	0	100	0.00	0.0	6.608	0.110	1	0	1	1
000061330508...	OH2813	C	Consumer	7.14Y	118.9	0.00	7.06	0.00	0	0	0	100	0.00	0.0	6.608	0.110	0	0	0	0
000061330508...	OH2813	C	Consumer	7.14Y	118.9	0.00	7.06	0.00	0	0	0	100	0.00	0.0	6.608	0.110	0	0	0	0
C OH2599	OH2560	A	OH_Digitiz	7.15Y	119.1	0.01	6.85	1.06	406	29	-3	-99	0.00	0.0	6.387	0.094	0	0	0	3 C
C OH2611	OH2599	A	OH_Digitiz	7.15Y	119.1	0.01	6.86	1.65	165	12	-1	-100	0.00	0.0	6.577	0.190	0	0	0	1 C
000061330509...	OH2611	A	Consumer	7.15Y	119.1	0.00	6.86	1.65	0	12	-1	-100	0.00	0.0	6.577	0.190	12	-1	1	1
C OH2610	OH2599	A	OH_Digitiz	7.15Y	119.1	0.00	6.86	2.17	217	15	-1	-100	0.00	0.0	6.430	0.044	0	0	0	1 C
000061330509...	OH2610	A	Consumer	7.15Y	119.1	0.00	6.86	2.17	0	15	-1	-100	0.00	0.0	6.430	0.044	15	-1	1	1
OH2600	OH2599	A	OH_Digitiz	7.15Y	119.1	0.00	6.85	0.24	24	2	0	100	0.00	0.0	6.496	0.109	0	0	0	1
000061330509...	OH2600	A	Consumer	7.15Y	119.1	0.00	6.85	0.24	0	2	0	100	0.00	0.0	6.496	0.109	2	0	1	1
OH2564	OH2560	ABC	1/0 ACSR	7.14Y	119.0	0.19	7.03	85.54	37	1834	-48	-100	3.03	0.2	6.453	0.161	0	0	0	243
OH2738	OH2564	ABC	1/0 ACSR	7.13Y	118.8	0.22	7.25	82.92	36	1775	-47	-100	3.34	0.2	6.642	0.188	0	0	0	232
OH2743	OH2738	ABC	1/0 ACSR	7.09Y	118.1	0.64	7.89	82.43	36	1761	-49	-100	9.82	0.6	7.203	0.561	0	0	0	230
REG3701	OH2743	ABC	SystemRegu	7.56Y	126.0	-7.87	0.02	82.43	55	1752	-58	-100	percent Boost=	6.25	Tap=10.0					230
OH2747	REG3701	ABC	1/0 ACSR	7.55Y	125.8	0.15	0.17	77.28	34	1752	-58	-100	2.17	0.1	7.344	0.141	0	0	0	229
OH2795	OH2747	ABC	1/0 ACSR	7.54Y	125.7	0.10	0.27	77.12	34	1746	-59	-100	1.47	0.1	7.439	0.096	0	0	0	228
OH2784	OH2795	ABC	1/0 ACSR	7.54Y	125.7	0.03	0.30	77.12	34	1744	-60	-100	0.45	0.0	7.469	0.030	0	0	0	228
OH2786	OH2784	A	OH_Digitiz	7.54Y	125.7	0.00	0.30	0.00	0	0	0	100	0.00	0.0	7.498	0.030	0	0	0	0
000061330508...	OH2786	A	Consumer	7.54Y	125.7	0.00	0.30	0.00	0	0	0	100	0.00	0.0	7.498	0.030	0	0	0	0
OH2785	OH2784	ABC	1/0 ACSR	7.54Y	125.7	0.04	0.34	77.12	34	1744	-61	-100	0.55	0.0	7.505	0.036	0	0	0	228
OH2748	OH2785	ABC	1/0 ACSR	7.54Y	125.6	0.04	0.38	77.12	34	1743	-61	-100	0.53	0.0	7.539	0.034	0	0	0	228
OH3015	OH2748	ABC	1/0 ACSR	7.53Y	125.5	0.11	0.48	77.12	34	1743	-62	-100	1.51	0.1	7.638	0.099	0	0	0	228
OH3016	OH3015	A	OH_Digitiz	7.53Y	125.5	0.00	0.48	0.00	0	0	0	100	0.00	0.0	7.706	0.068	0	0	0	0
000051810108...	OH3016	A	Consumer	7.53Y	125.5	0.00	0.48	0.00	0	0	0	100	0.00	0.0	7.706	0.068	0	0	0	0

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts											mi		-----Element-----		Cons Cons			
		-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	kW Loss	% Loss	From Src	Length (mi)	KW	KVAR	On	Thru
000051810108...	OH3016	A	Consumer	7.53Y	125.5	0.00	0.48	0.00	0	0	0	100	0.00	0.0	7.706	0.068	0	0	0	0
OH2787	OH3015	ABC	1/0 ACSR	7.53Y	125.5	0.04	0.53	77.12	34	1741	-63	-100	0.61	0.0	7.678	0.040	0	0	0	228
OH2788	OH2787	A	OH_Digitiz	7.53Y	125.5	0.00	0.53	0.00	0	0	0	100	0.00	0.0	7.823	0.146	0	0	0	0
000061330508...	OH2788	A	Consumer	7.53Y	125.5	0.00	0.53	0.00	0	0	0	100	0.00	0.0	7.823	0.146	0	0	0	0
OH2751	OH2787	ABC	1/0 ACSR	7.52Y	125.4	0.10	0.62	77.12	34	1741	-63	-100	1.39	0.1	7.769	0.091	0	0	0	228
OH2752	OH2751	ABC	1/0 ACSR	7.52Y	125.3	0.05	0.68	76.83	33	1733	-64	-100	0.74	0.0	7.817	0.049	0	0	0	227
C OH2804	OH2752	A	OH_Digitiz	7.52Y	125.3	0.00	0.68	2.36	236	18	-2	-99	0.00	0.0	7.872	0.054	0	0	0	1 C
000051810108...	OH2804	A	Consumer	7.52Y	125.3	0.00	0.68	2.36	0	18	-2	-99	0.00	0.0	7.872	0.054	18	-2	1	1
OH2749	OH2752	ABC	1/0 ACSR	7.52Y	125.3	0.04	0.72	76.05	33	1714	-63	-100	0.60	0.0	7.857	0.040	0	0	0	226
OH2805	OH2749	A	OH_Digitiz	7.52Y	125.3	0.00	0.72	0.00	0	0	0	100	0.00	0.0	7.971	0.114	0	0	0	0
000051810108...	OH2805	A	Consumer	7.52Y	125.3	0.00	0.72	0.00	0	0	0	100	0.00	0.0	7.971	0.114	0	0	0	0
000051810108...	OH2805	A	Consumer	7.52Y	125.3	0.00	0.72	0.00	0	0	0	100	0.00	0.0	7.971	0.114	0	0	0	0
OH2750	OH2749	ABC	1/0 ACSR	7.51Y	125.2	0.09	0.81	76.05	33	1714	-64	-100	1.27	0.1	7.942	0.085	0	0	0	226
OH3021	OH2750	ABC	1/0 ACSR	7.51Y	125.2	0.03	0.84	76.05	33	1713	-65	-100	0.43	0.0	7.971	0.029	0	0	0	226
OH2753	OH3021	ABC	1/0 ACSR	7.51Y	125.1	0.04	0.88	74.03	32	1667	-61	-100	0.58	0.0	8.012	0.041	0	0	0	223
OH2807	OH2753	B	OH_Digitiz	7.51Y	125.1	0.00	0.88	0.23	23	2	1	89	0.00	0.0	8.081	0.069	0	0	0	1
000051810108...	OH2807	B	Consumer	7.51Y	125.1	0.00	0.88	0.23	0	2	1	89	0.00	0.0	8.081	0.069	2	1	1	1
OH2754	OH2753	ABC	1/0 ACSR	7.50Y	125.1	0.06	0.94	73.96	32	1665	-62	-100	0.79	0.0	8.069	0.056	0	0	0	222
OH3026	OH2754	ABC	OH_Digitiz	7.50Y	125.1	0.00	0.94	0.00	0	0	0	100	0.00	0.0	8.235	0.166	0	0	0	0
OH3024	OH2754	A	OH_Digitiz	7.50Y	125.1	0.00	0.94	0.30	30	2	0	100	0.00	0.0	8.151	0.082	0	0	0	1
000051810108...	OH3024	A	Consumer	7.50Y	125.1	0.00	0.94	0.30	0	2	0	100	0.00	0.0	8.151	0.082	2	0	1	1
C OH2808	OH2754	B	OH_Digitiz	7.50Y	125.1	0.01	0.94	1.25	125	9	-1	-99	0.00	0.0	8.209	0.141	0	0	0	2 C
OH29521	OH2808	B	OH_Digitiz	7.50Y	125.1	0.00	0.95	0.34	34	3	0	100	0.00	0.0	8.257	0.048	0	0	0	1
000051810108...	OH29521	B	Consumer	7.50Y	125.1	0.00	0.95	0.34	0	3	0	100	0.00	0.0	8.257	0.048	3	0	1	1
000051810108...	OH2808	B	Consumer	7.50Y	125.1	0.00	0.94	0.91	0	7	-1	-99	0.00	0.0	8.209	0.048	7	-1	1	1
OH2755	OH2754	ABC	1/0 ACSR	7.49Y	124.8	0.24	1.18	73.44	32	1652	-62	-100	3.25	0.2	8.302	0.234	0	0	0	219
OH3065	OH2755	A	OH_Digitiz	7.49Y	124.8	0.00	1.18	0.59	59	4	0	100	0.00	0.0	8.497	0.195	0	0	0	1
000051810108...	OH3065	A	Consumer	7.49Y	124.8	0.00	1.18	0.00	0	0	0	100	0.00	0.0	8.497	0.195	0	0	0	0
000051810108...	OH3065	A	Consumer	7.49Y	124.8	0.00	1.18	0.59	0	4	0	100	0.00	0.0	8.497	0.195	4	0	1	1
C OH3030	OH2755	A	OH_Digitiz	7.49Y	124.8	0.02	1.19	2.41	241	18	-2	-99	0.00	0.0	8.475	0.173	0	0	0	2 C
C OH3031	OH3030	A	OH_Digitiz	7.49Y	124.8	0.00	1.19	0.89	89	7	-1	-99	0.00	0.0	8.525	0.050	0	0	0	1 C
000051810108...	OH3031	A	Consumer	7.49Y	124.8	0.00	1.19	0.89	0	7	-1	-99	0.00	0.0	8.525	0.050	7	-1	1	1
000051810108...	OH3030	A	Consumer	7.49Y	124.8	0.00	1.19	1.53	0	11	-1	-100	0.00	0.0	8.475	0.050	11	-1	1	1
OH3029	OH2755	B	OH_Digitiz	7.49Y	124.8	0.00	1.18	0.00	0	0	0	100	0.00	0.0	8.451	0.149	0	0	0	1
000051810109...	OH3029	B	Consumer	7.49Y	124.8	0.00	1.18	0.00	0	0	0	100	0.00	0.0	8.451	0.149	0	0	1	1
OH3028	OH2755	A	OH_Digitiz	7.49Y	124.8	0.00	1.18	0.32	32	2	0	100	0.00	0.0	8.488	0.186	0	0	0	2
000051810108...	OH3028	A	Consumer	7.49Y	124.8	0.00	1.18	0.00	0	0	0	100	0.00	0.0	8.488	0.186	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts											mi		-----Element-----					
		-Base Voltage:120.0-											From	Length	Cons		Cons			
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	Src	(mi)	KW	KVAR	On	Thru
000051810108...	OH3028	A	Consumer	7.49Y	124.8	0.00	1.18	0.08	0	1	0	100	0.00	0.0	8.488	0.186	1	0	1	1
000051810108...	OH3028	A	Consumer	7.49Y	124.8	0.00	1.18	0.24	0	2	0	100	0.00	0.0	8.488	0.186	2	0	1	1
OH2756	OH2755	ABC	1/0 ACSR	7.48Y	124.6	0.19	1.37	71.19	31	1598	-60	-100	2.58	0.2	8.499	0.197	0	0	0	211
OH2757	OH2756	ABC	1/0 ACSR	7.47Y	124.5	0.09	1.46	71.08	31	1593	-62	-100	1.25	0.1	8.596	0.096	0	0	0	210
C OH3038	OH2757	B	OH_Digitiz	7.47Y	124.5	0.01	1.47	1.30	130	10	-1	-100	0.00	0.0	8.759	0.163	0	0	0	2 C
000051810109...	OH3038	B	Consumer	7.47Y	124.5	0.00	1.47	0.00	0	0	0	100	0.00	0.0	8.759	0.163	0	0	0	0
000051810109...	OH3038	B	Consumer	7.47Y	124.5	0.00	1.47	0.43	0	3	0	100	0.00	0.0	8.759	0.163	3	0	1	1
000051810108...	OH3038	B	Consumer	7.47Y	124.5	0.00	1.47	0.87	0	6	-1	-99	0.00	0.0	8.759	0.163	6	-1	1	1
000051810108...	OH3038	B	Consumer	7.47Y	124.5	0.00	1.47	0.00	0	0	0	100	0.00	0.0	8.759	0.163	0	0	0	0
OH2758	OH2757	ABC	1/0 ACSR	7.47Y	124.5	0.03	1.50	69.99	30	1568	-61	-100	0.44	0.0	8.631	0.035	0	0	0	207
C OH3039	OH2758	B	OH_Digitiz	7.47Y	124.5	0.00	1.50	0.99	99	7	-1	-99	0.00	0.0	8.762	0.131	0	0	0	1 C
000051810109...	OH3039	B	Consumer	7.47Y	124.5	0.00	1.50	0.99	0	7	-1	-99	0.00	0.0	8.762	0.131	7	-1	1	1
000051810109...	OH3039	B	Consumer	7.47Y	124.5	0.00	1.50	0.00	0	0	0	100	0.00	0.0	8.762	0.131	0	0	0	0
OH2759	OH2758	ABC	1/0 ACSR	7.47Y	124.5	0.03	1.53	69.67	30	1560	-60	-100	0.43	0.0	8.665	0.034	0	0	0	206
OH3040	OH2759	C	OH_Digitiz	7.47Y	124.5	0.00	1.53	0.00	0	0	0	100	0.00	0.0	8.868	0.203	0	0	0	1
000051810109...	OH3040	C	Consumer	7.47Y	124.5	0.00	1.53	0.00	0	0	0	100	0.00	0.0	8.868	0.203	0	0	1	1
OH2762	OH2759	ABC	1/0 ACSR	7.47Y	124.5	0.01	1.55	69.66	30	1560	-61	-100	0.18	0.0	8.679	0.014	0	0	0	205
OH2761	OH2762	ABC	1/0 ACSR	7.46Y	124.4	0.06	1.60	69.66	30	1559	-61	-100	0.73	0.0	8.738	0.058	0	0	0	205
OH3041	OH2761	A	OH_Digitiz	7.46Y	124.4	0.00	1.60	0.00	0	0	0	100	0.00	0.0	8.876	0.138	0	0	0	0
OH2763	OH2761	ABC	1/0 ACSR	7.44Y	124.0	0.41	2.01	68.79	30	1539	-60	-100	5.28	0.3	9.171	0.433	0	0	0	204
C OH3094	OH2763	A	OH_Digitiz	7.44Y	124.0	0.01	2.02	3.41	341	25	-2	-100	0.00	0.0	9.244	0.073	0	0	0	3 C
C OH29518	OH3094	A	OH_Digitiz	7.44Y	124.0	0.01	2.03	1.95	195	14	-1	-100	0.00	0.0	9.339	0.094	0	0	0	1 C
000051810109...	OH29518	A	Consumer	7.44Y	124.0	0.00	2.03	1.95	0	14	-1	-100	0.00	0.0	9.339	0.094	14	-1	1	1
000051810109...	OH3094	A	Consumer	7.44Y	124.0	0.00	2.02	0.41	0	3	0	100	0.00	0.0	9.244	0.094	3	0	1	1
000051810109...	OH3094	A	Consumer	7.44Y	124.0	0.00	2.02	0.00	0	0	0	100	0.00	0.0	9.244	0.094	0	0	0	0
000051810109...	OH3094	A	Consumer	7.44Y	124.0	0.00	2.02	1.05	0	8	-1	-99	0.00	0.0	9.244	0.094	8	-1	1	1
OH2764	OH2763	ABC	1/0 ACSR	7.44Y	123.9	0.05	2.06	67.66	29	1509	-62	-100	0.59	0.0	9.221	0.050	0	0	0	201
OH2765	OH2764	ABC	1/0 ACSR	7.43Y	123.9	0.06	2.12	67.62	29	1507	-62	-100	0.71	0.0	9.282	0.060	0	0	0	200
OH3095	OH2765	A	OH_Digitiz	7.43Y	123.9	0.00	2.12	0.68	68	5	0	100	0.00	0.0	9.374	0.092	0	0	0	2
000051810109...	OH3095	A	Consumer	7.43Y	123.9	0.00	2.12	0.00	0	0	0	100	0.00	0.0	9.374	0.092	0	0	0	0
000051810109...	OH3095	A	Consumer	7.43Y	123.9	0.00	2.12	0.33	0	2	0	100	0.00	0.0	9.374	0.092	2	0	1	1
000051810109...	OH3095	A	Consumer	7.43Y	123.9	0.00	2.12	0.34	0	3	0	100	0.00	0.0	9.374	0.092	3	0	1	1
OH2767	OH2765	ABC	1/0 ACSR	7.43Y	123.8	0.04	2.16	67.39	29	1502	-62	-100	0.55	0.0	9.329	0.047	0	0	0	198
OH2766	OH2767	ABC	1/0 ACSR	7.43Y	123.8	0.03	2.19	67.08	29	1494	-62	-100	0.32	0.0	9.356	0.027	0	0	0	197
C OH3138	OH2766	A	OH_Digitiz	7.43Y	123.8	0.00	2.19	1.17	117	9	-1	-99	0.00	0.0	9.387	0.031	0	0	0	1 C
000051810109...	OH3138	A	Consumer	7.43Y	123.8	0.00	2.19	1.17	0	9	-1	-99	0.00	0.0	9.387	0.031	9	-1	1	1
OH3096	OH2766	A	OH_Digitiz	7.43Y	123.8	0.00	2.19	0.00	0	0	0	100	0.00	0.0	9.415	0.059	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts											mi		-----Element-----					
		-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	kW Loss	% Loss	From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
000051810109...	OH3096	A	Consumer	7.43Y	123.8	0.00	2.19	0.00	0	0	0	100	0.00	0.0	9.415	0.059	0	0	0	0
OH2768	OH2766	ABC	1/0 ACSR	7.43Y	123.8	0.02	2.21	66.69	29	1485	-62	-100	0.30	0.0	9.383	0.026	0	0	0	196
OH2769	OH2768	ABC	1/0 ACSR	7.43Y	123.8	0.04	2.25	66.68	29	1484	-62	-100	0.45	0.0	9.422	0.039	0	0	0	195
OH3097	OH2769	A	OH_Digitiz	7.43Y	123.8	0.00	2.25	0.48	48	4	0	100	0.00	0.0	9.508	0.086	0	0	0	2
OH3098	OH3097	A	OH_Digitiz	7.43Y	123.8	0.00	2.25	0.45	45	3	0	100	0.00	0.0	9.603	0.095	0	0	0	1
000051810109...	OH3098	A	Consumer	7.43Y	123.8	0.00	2.25	0.45	0	3	0	100	0.00	0.0	9.603	0.095	3	0	1	1
000051810109...	OH3097	A	Consumer	7.43Y	123.8	0.00	2.25	0.03	0	0	0	100	0.00	0.0	9.508	0.095	0	0	1	1
OH2770	OH2769	ABC	1/0 ACSR	7.42Y	123.7	0.02	2.26	66.51	29	1480	-62	-100	0.20	0.0	9.440	0.018	0	0	0	193
C OH3135	OH2770	C	OH_Digitiz	7.42Y	123.7	0.00	2.27	4.04	404	30	-3	-100	0.00	0.0	9.459	0.019	0	0	0	2 C
000051810109...	OH3135	C	Consumer	7.42Y	123.7	0.00	2.27	2.40	0	18	-2	-99	0.00	0.0	9.459	0.019	18	-2	1	1
000051810109...	OH3135	C	Consumer	7.42Y	123.7	0.00	2.27	1.64	0	12	-1	-100	0.00	0.0	9.459	0.019	12	-1	1	1
OH2771	OH2770	ABC	1/0 ACSR	7.42Y	123.6	0.10	2.36	65.17	28	1450	-60	-100	1.18	0.1	9.548	0.108	0	0	0	191
OH3099	OH2771	A	OH_Digitiz	7.42Y	123.6	0.00	2.36	0.00	0	0	0	100	0.00	0.0	9.636	0.088	0	0	0	0
000051810109...	OH3099	A	Consumer	7.42Y	123.6	0.00	2.36	0.00	0	0	0	100	0.00	0.0	9.636	0.088	0	0	0	0
OH2772	OH2771	ABC	1/0 ACSR	7.41Y	123.5	0.14	2.50	65.17	28	1449	-61	-100	1.75	0.1	9.708	0.160	0	0	0	191
C OH3102	OH2772	ABC	OH_Digitiz	7.41Y	123.5	0.02	2.53	63.60	6360	1413	-59	-100	0.29	0.0	9.719	0.011	0	0	0	187 C
OH3103	OH3102	A	OH_Digitiz	7.41Y	123.5	0.00	2.53	0.00	0	0	0	100	0.00	0.0	9.774	0.055	0	0	0	0
000051810109...	OH3103	A	Consumer	7.41Y	123.5	0.00	2.53	0.00	0	0	0	100	0.00	0.0	9.774	0.055	0	0	0	0
OH2773	OH3102	ABC	1/0 ACSR	7.40Y	123.3	0.15	2.68	63.60	28	1412	-59	-100	1.84	0.1	9.895	0.176	0	0	0	187
OH2774	OH2773	ABC	1/0 ACSR	7.40Y	123.3	0.04	2.72	63.60	28	1410	-61	-100	0.50	0.0	9.942	0.048	0	0	0	187
OH2775	OH2774	ABC	1/0 ACSR	7.39Y	123.2	0.07	2.79	62.70	27	1390	-59	-100	0.83	0.1	10.024	0.082	0	0	0	186
C OH3104	OH2775	A	OH_Digitiz	7.39Y	123.2	0.01	2.81	2.62	262	19	-2	-99	0.00	0.0	10.126	0.102	0	0	0	1 C
000051810109...	OH3104	A	Consumer	7.39Y	123.2	0.00	2.81	2.62	0	19	-2	-99	0.00	0.0	10.126	0.102	19	-2	1	1
OH2776	OH2775	ABC	1/0 ACSR	7.39Y	123.1	0.09	2.88	61.83	27	1370	-58	-100	1.03	0.1	10.128	0.104	0	0	0	185
OH3105	OH2776	C	OH_Digitiz	7.39Y	123.1	0.00	2.89	0.43	43	3	0	100	0.00	0.0	10.239	0.111	0	0	0	2
000051810109...	OH3105	C	Consumer	7.39Y	123.1	0.00	2.89	0.00	0	0	0	100	0.00	0.0	10.239	0.111	0	0	1	1
000051810109...	OH3105	C	Consumer	7.39Y	123.1	0.00	2.89	0.00	0	0	0	100	0.00	0.0	10.239	0.111	0	0	0	0
000051810109...	OH3105	C	Consumer	7.39Y	123.1	0.00	2.89	0.43	0	3	0	100	0.00	0.0	10.239	0.111	3	0	1	1
OH2778	OH2776	ABC	1/0 ACSR	7.38Y	123.0	0.12	3.01	61.68	27	1366	-59	-100	1.43	0.1	10.274	0.145	0	0	0	182
OH2777	OH2778	ABC	1/0 ACSR	7.38Y	123.0	0.03	3.03	61.19	27	1353	-59	-100	0.29	0.0	10.304	0.031	0	0	0	180
OH3197	OH2777	ABC	1/0 ACSR	7.37Y	122.9	0.05	3.09	48.83	21	1079	-53	-100	0.50	0.0	10.386	0.082	0	0	0	145
OH3452	OH3197	ABC	1/0 ACSR	7.37Y	122.9	0.03	3.12	48.44	21	1070	-53	-100	0.26	0.0	10.429	0.043	0	0	0	143
C OH3456	OH3452	C	OH_Digitiz	7.37Y	122.9	0.03	3.14	2.98	298	22	-2	-100	0.01	0.0	10.670	0.242	0	0	0	2 C
000052400000...	OH3456	C	Consumer	7.37Y	122.9	0.00	3.14	0.00	0	0	0	100	0.00	0.0	10.670	0.242	0	0	0	0
000052400000...	OH3456	C	Consumer	7.37Y	122.9	0.00	3.14	0.89	0	7	-1	-99	0.00	0.0	10.670	0.242	7	-1	1	1
000052400000...	OH3456	C	Consumer	7.37Y	122.9	0.00	3.14	2.09	0	15	-1	-100	0.00	0.0	10.670	0.242	15	-1	1	1
000052400000...	OH3456	C	Consumer	7.37Y	122.9	0.00	3.14	0.00	0	0	0	100	0.00	0.0	10.670	0.242	0	0	0	0

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts														-----Element-----				
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
000052400000...	OH3456	C	Consumer	7.37Y	122.9	0.00	3.14	0.00	0	0	0	100	0.00	0.0	10.670	0.242	0	0	0	0
OH3214	OH3452	ABC	1/0 ACSR	7.37Y	122.8	0.05	3.16	47.15	21	1042	-51	-100	0.43	0.0	10.504	0.075	0	0	0	140
OH3448	OH3214	ABC	1/0 ACSR	7.37Y	122.8	0.06	3.22	47.15	21	1041	-51	-100	0.51	0.0	10.593	0.089	0	0	0	140
OH3441	OH3448	ABC	1/0 ACSR	7.36Y	122.7	0.04	3.26	47.03	20	1038	-51	-100	0.36	0.0	10.657	0.064	0	0	0	139
OH3442	OH3441	ABC	1/0 ACSR	7.36Y	122.6	0.14	3.41	46.99	20	1037	-52	-100	1.28	0.1	10.881	0.224	0	0	0	138
OH3447	OH3442	ABC	1/0 ACSR	7.35Y	122.5	0.06	3.47	46.55	20	1026	-54	-100	0.56	0.1	10.981	0.100	0	0	0	135
OH3567	OH3447	ABC	1/0 ACSR	7.34Y	122.4	0.13	3.60	46.55	20	1025	-55	-100	1.12	0.1	11.182	0.201	0	0	0	135
OH3549	OH3567	AB	1/0 ACSR	7.33Y	122.1	0.28	3.87	57.48	25	843	-45	-100	2.01	0.2	11.500	0.317	0	0	0	106
OH3550	OH3549	AB	1/0 ACSR	7.31Y	121.8	0.37	4.25	57.48	25	841	-47	-100	2.73	0.3	11.930	0.430	0	0	0	106
C OH3555	OH3550	A	OH_Digitiz	7.30Y	121.7	0.00	4.25	1.21	121	9	-1	-99	0.00	0.0	12.029	0.100	0	0	0	2
000052400000...	OH3555	A	Consumer	7.30Y	121.7	0.00	4.25	0.05	0	0	0	100	0.00	0.0	12.029	0.100	0	0	1	1
000052400000...	OH3555	A	Consumer	7.30Y	121.7	0.00	4.25	1.16	0	8	-1	-99	0.00	0.0	12.029	0.100	8	-1	1	1
OH3551	OH3550	AB	1/0 ACSR	7.29Y	121.5	0.23	4.47	56.88	25	830	-49	-100	1.64	0.2	12.194	0.264	0	0	0	104
OH3554	OH3551	A	OH_Digitiz	7.29Y	121.5	0.00	4.47	0.00	0	0	0	100	0.00	0.0	12.367	0.173	0	0	0	0
000052400000...	OH3554	A	Consumer	7.29Y	121.5	0.00	4.47	0.00	0	0	0	100	0.00	0.0	12.367	0.173	0	0	0	0
OH3552	OH3551	AB	1/0 ACSR	7.28Y	121.3	0.24	4.71	56.88	25	828	-50	-100	1.75	0.2	12.476	0.282	0	0	0	104
OH3125	OH3552	AB	1/0 ACSR	7.25Y	120.8	0.50	5.21	56.88	25	826	-52	-100	3.67	0.4	13.067	0.591	0	0	0	104
OH3122	OH3125	AB	1/0 ACSR	7.24Y	120.7	0.05	5.26	56.88	25	823	-56	-100	0.36	0.0	13.125	0.058	0	0	0	104
OH3126	OH3122	B	4 ACSR 7/1	7.24Y	120.6	0.12	5.38	30.75	22	222	-18	-100	0.23	0.1	13.224	0.099	0	0	0	26
OH3532	OH3126	B	4 ACSR 7/1	7.24Y	120.6	0.00	5.38	1.61	1	12	-1	-100	0.00	0.0	13.289	0.065	0	0	0	1
000052400001...	OH3532	B	Consumer	7.24Y	120.6	0.00	5.38	1.61	0	12	-1	-100	0.00	0.0	13.289	0.065	12	-1	1	1
OH3505	OH3126	B	4 ACSR 7/1	7.20Y	120.0	0.62	6.00	29.14	21	210	-17	-100	1.15	0.5	13.769	0.545	0	0	0	25
OH3506	OH3505	B	4 ACSR 7/1	7.20Y	120.0	0.03	6.03	4.67	3	33	-3	-100	0.01	0.0	13.913	0.143	0	0	0	3
OH3507	OH3506	B	4 ACSR 7/1	7.20Y	120.0	0.01	6.04	2.48	2	18	-2	-99	0.00	0.0	14.066	0.153	0	0	0	2
OH3525	OH3507	B	4 ACSR 7/1	7.20Y	120.0	0.00	6.04	0.02	0	0	0	100	0.00	0.0	14.199	0.133	0	0	0	1
000052400000...	OH3525	B	Consumer	7.20Y	120.0	0.00	6.04	0.02	0	0	0	100	0.00	0.0	14.199	0.133	0	0	1	1
000052400000...	OH3507	B	Consumer	7.20Y	120.0	0.00	6.04	2.46	0	18	-2	-99	0.00	0.0	14.066	0.133	18	-2	1	1
000052400000...	OH3506	B	Consumer	7.20Y	120.0	0.00	6.03	2.19	0	16	-1	-100	0.00	0.0	13.913	0.133	16	-1	1	1
OH3504	OH3506	B	4 ACSR 7/1	7.20Y	120.0	0.05	6.05	24.47	17	176	-15	-100	0.07	0.0	13.819	0.049	0	0	0	22
OH3392	OH3504	B	4 ACSR 7/1	7.17Y	119.6	0.37	6.42	24.47	17	175	-15	-100	0.57	0.3	14.205	0.386	0	0	0	22
OH3393	OH3392	B	4 ACSR 7/1	7.17Y	119.6	0.00	6.42	0.00	0	0	0	100	0.00	0.0	14.406	0.202	0	0	0	0
000051800009...	OH3393	B	Consumer	7.17Y	119.6	0.00	6.42	0.00	0	0	0	100	0.00	0.0	14.406	0.202	0	0	0	0
OH3346	OH3392	B	4 ACSR 7/1	7.17Y	119.5	0.06	6.48	20.23	14	145	-13	-100	0.08	0.1	14.286	0.081	0	0	0	18
OH3365	OH3346	B	4 ACSR 7/1	7.17Y	119.5	0.00	6.49	0.16	0	1	0	100	0.00	0.0	14.677	0.392	0	0	0	1
000051800009...	OH3365	B	Consumer	7.17Y	119.5	0.00	6.49	0.16	0	1	0	100	0.00	0.0	14.677	0.392	1	0	1	1
OH3347	OH3346	B	4 ACSR 7/1	7.17Y	119.5	0.05	6.54	20.07	14	143	-13	-100	0.07	0.0	14.353	0.067	0	0	0	17
OH3348	OH3347	B	4 ACSR 7/1	7.16Y	119.4	0.08	6.62	15.98	11	114	-10	-100	0.08	0.1	14.484	0.131	0	0	0	15

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

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	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
OH3349	OH3348	B	4 ACSR 7/1	7.16Y	119.3	0.04	6.66	14.94	11	107	-9	-100	0.04	0.0	14.549	0.064	0	0	0	14
OH3350	OH3349	B	4 ACSR 7/1	7.16Y	119.3	0.06	6.71	12.70	9	91	-8	-100	0.04	0.0	14.661	0.112	0	0	0	12
OH3351	OH3350	B	4 ACSR 7/1	7.16Y	119.3	0.03	6.74	8.98	6	64	-5	-100	0.02	0.0	14.754	0.093	0	0	0	10
OH3352	OH3351	B	4 ACSR 7/1	7.15Y	119.2	0.03	6.78	7.25	5	52	-4	-100	0.02	0.0	14.872	0.118	0	0	0	7
OH3353	OH3352	B	4 ACSR 7/1	7.15Y	119.2	0.02	6.79	6.77	5	48	-4	-100	0.01	0.0	14.932	0.060	0	0	0	6
OH3354	OH3353	B	4 ACSR 7/1	7.15Y	119.2	0.01	6.81	6.65	5	47	-4	-100	0.01	0.0	14.979	0.047	0	0	0	5
OH3355	OH3354	B	4 ACSR 7/1	7.15Y	119.2	0.01	6.81	1.42	1	10	-1	-100	0.00	0.0	15.130	0.151	0	0	0	1
000051800009...	OH3355	B	Consumer	7.15Y	119.2	0.00	6.81	1.42	0	10	-1	-100	0.00	0.0	15.130	0.151	10	-1	1	1
OH3123	OH3354	B	4 ACSR 7/1	7.15Y	119.2	0.03	6.83	3.35	2	24	-2	-100	0.01	0.0	15.186	0.207	0	0	0	2
000051800009...	OH3123	B	Consumer	7.15Y	119.2	0.00	6.83	1.67	0	12	-1	-100	0.00	0.0	15.186	0.207	12	-1	1	1
000051800009...	OH3123	B	Consumer	7.15Y	119.2	0.00	6.83	1.68	0	12	-1	-100	0.00	0.0	15.186	0.207	12	-1	1	1
000051800009...	OH3354	B	Consumer	7.15Y	119.2	0.00	6.81	1.19	0	8	-1	-99	0.00	0.0	14.979	0.207	8	-1	1	1
000051800009...	OH3354	B	Consumer	7.15Y	119.2	0.00	6.81	0.69	0	5	0	100	0.00	0.0	14.979	0.207	5	0	1	1
000051800009...	OH3353	B	Consumer	7.15Y	119.2	0.00	6.79	0.14	0	1	0	100	0.00	0.0	14.932	0.207	1	0	1	1
000051800009...	OH3353	B	Consumer	7.15Y	119.2	0.00	6.79	0.00	0	0	0	100	0.00	0.0	14.932	0.207	0	0	0	0
000051800009...	OH3352	B	Consumer	7.15Y	119.2	0.00	6.78	0.47	0	3	0	100	0.00	0.0	14.872	0.207	3	0	1	1
000051800009...	OH3352	B	Consumer	7.15Y	119.2	0.00	6.78	0.00	0	0	0	100	0.00	0.0	14.872	0.207	0	0	0	0
000051800009...	OH3351	B	Consumer	7.16Y	119.3	0.00	6.74	0.00	0	0	0	100	0.00	0.0	14.754	0.207	0	0	1	1
000051800009...	OH3351	B	Consumer	7.16Y	119.3	0.00	6.74	0.00	0	0	0	100	0.00	0.0	14.754	0.207	0	0	0	0
000051800009...	OH3351	B	Consumer	7.16Y	119.3	0.00	6.74	0.59	0	4	0	100	0.00	0.0	14.754	0.207	4	0	1	1
000051800009...	OH3351	B	Consumer	7.16Y	119.3	0.00	6.74	1.15	0	8	-1	-99	0.00	0.0	14.754	0.207	8	-1	1	1
000051800009...	OH3350	B	Consumer	7.16Y	119.3	0.00	6.71	0.85	0	6	-1	-99	0.00	0.0	14.661	0.207	6	-1	1	1
000051800009...	OH3350	B	Consumer	7.16Y	119.3	0.00	6.71	2.87	0	20	-2	-100	0.00	0.0	14.661	0.207	20	-2	1	1
000051800009...	OH3349	B	Consumer	7.16Y	119.3	0.00	6.66	2.20	0	16	-1	-100	0.00	0.0	14.549	0.207	16	-1	1	1
000051800009...	OH3349	B	Consumer	7.16Y	119.3	0.00	6.66	0.04	0	0	0	100	0.00	0.0	14.549	0.207	0	0	1	1
000051800009...	OH3349	B	Consumer	7.16Y	119.3	0.00	6.66	0.00	0	0	0	100	0.00	0.0	14.549	0.207	0	0	0	0
000051800009...	OH3348	B	Consumer	7.16Y	119.4	0.00	6.62	0.00	0	0	0	100	0.00	0.0	14.484	0.207	0	0	0	0
000051800009...	OH3348	B	Consumer	7.16Y	119.4	0.00	6.62	1.04	0	7	-1	-99	0.00	0.0	14.484	0.207	7	-1	1	1
888051800009...	OH3347	B	Consumer	7.17Y	119.5	0.00	6.54	0.00	0	0	0	100	0.00	0.0	14.353	0.207	0	0	0	0
000052400000...	OH3347	B	Consumer	7.17Y	119.5	0.00	6.54	1.94	0	14	-1	-100	0.00	0.0	14.353	0.207	14	-1	1	1
000051800009...	OH3347	B	Consumer	7.17Y	119.5	0.00	6.54	2.15	0	15	-1	-100	0.00	0.0	14.353	0.207	15	-1	1	1
000052400000...	OH3392	B	Consumer	7.17Y	119.6	0.00	6.42	0.55	0	4	0	100	0.00	0.0	14.205	0.207	4	0	1	1
000052400000...	OH3392	B	Consumer	7.17Y	119.6	0.00	6.42	1.29	0	9	-1	-99	0.00	0.0	14.205	0.207	9	-1	1	1
000052400000...	OH3392	B	Consumer	7.17Y	119.6	0.00	6.42	2.40	0	17	-2	-99	0.00	0.0	14.205	0.207	17	-2	1	1
000052400000...	OH3392	B	Consumer	7.17Y	119.6	0.00	6.42	0.00	0	0	0	100	0.00	0.0	14.205	0.207	0	0	0	0
000051800009...	OH3392	B	Consumer	7.17Y	119.6	0.00	6.42	0.00	0	0	0	100	0.00	0.0	14.205	0.207	0	0	1	1
000052400000...	OH3504	B	Consumer	7.20Y	120.0	0.00	6.05	0.00	0	0	0	100	0.00	0.0	13.819	0.207	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts											mi		-----Element-----					
		-Base Voltage:120.0-											From	Length	Cons		Cons			
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	Src	(mi)	KW	KVAR	On	Thru
OH3124	OH3122	AB	1/0 ACSR	7.24Y	120.6	0.14	5.40	41.50	18	600	-38	-100	0.75	0.1	13.351	0.226	0	0	0	78
OH3586	OH3124	B	OH_Digitiz	7.24Y	120.6	0.00	5.40	0.75	75	5	-1	-98	0.00	0.0	13.442	0.091	0	0	0	1
000052410101...	OH3586	B	Consumer	7.24Y	120.6	0.00	5.40	0.75	0	5	-1	-98	0.00	0.0	13.442	0.091	5	-1	1	1
OH3584	OH3124	AB	1/0 ACSR	7.23Y	120.5	0.07	5.47	41.13	18	594	-38	-100	0.39	0.1	13.471	0.120	0	0	0	77
OH3553	OH3584	AB	1/0 ACSR	7.23Y	120.5	0.02	5.49	41.13	18	594	-39	-100	0.10	0.0	13.501	0.031	0	0	0	77
OH3556	OH3553	AB	1/0 ACSR	7.23Y	120.5	0.05	5.54	41.13	18	593	-39	-100	0.25	0.0	13.580	0.078	0	0	0	77
OH3557	OH3556	AB	1/0 ACSR	7.23Y	120.4	0.03	5.57	41.13	18	593	-39	-100	0.16	0.0	13.628	0.049	0	0	0	77
OH3581	OH3557	A	OH_Digitiz	7.23Y	120.4	0.00	5.57	0.00	0	0	0	100	0.00	0.0	13.689	0.061	0	0	0	0
000052410101...	OH3581	A	Consumer	7.23Y	120.4	0.00	5.57	0.00	0	0	0	100	0.00	0.0	13.689	0.061	0	0	0	0
C OH3580	OH3557	A	OH_Digitiz	7.23Y	120.4	0.00	5.57	0.87	87	6	-1	-99	0.00	0.0	13.715	0.087	0	0	0	1 C
C OH3599	OH3580	A	OH_Digitiz	7.23Y	120.4	0.00	5.58	0.87	87	6	-1	-99	0.00	0.0	13.758	0.043	0	0	0	1 C
000052410101...	OH3599	A	Consumer	7.23Y	120.4	0.00	5.58	0.87	0	6	-1	-99	0.00	0.0	13.758	0.043	6	-1	1	1
000052410101...	OH3580	A	Consumer	7.23Y	120.4	0.00	5.57	0.00	0	0	0	100	0.00	0.0	13.715	0.043	0	0	0	0
OH3558	OH3557	AB	1/0 ACSR	7.22Y	120.4	0.05	5.62	40.69	18	587	-39	-100	0.25	0.0	13.708	0.080	0	0	0	76
OH3559	OH3558	AB	1/0 ACSR	7.22Y	120.3	0.07	5.69	40.69	18	587	-39	-100	0.37	0.1	13.824	0.116	0	0	0	76
OH3571	OH3559	AB	1/0 ACSR	7.22Y	120.3	0.04	5.73	40.69	18	586	-39	-100	0.21	0.0	13.890	0.066	0	0	0	76
C OH3572	OH3571	A	OH_Digitiz	7.22Y	120.3	0.01	5.74	1.10	110	8	-1	-99	0.00	0.0	14.054	0.164	0	0	0	1 C
000052410101...	OH3572	A	Consumer	7.22Y	120.3	0.00	5.74	0.00	0	0	0	100	0.00	0.0	14.054	0.164	0	0	0	0
000052410101...	OH3572	A	Consumer	7.22Y	120.3	0.00	5.74	1.10	0	8	-1	-99	0.00	0.0	14.054	0.164	8	-1	1	1
OH3560	OH3571	AB	1/0 ACSR	7.22Y	120.3	0.01	5.74	40.15	17	578	-39	-100	0.05	0.0	13.905	0.015	0	0	0	75
OH3561	OH3560	AB	1/0 ACSR	7.21Y	120.2	0.07	5.81	40.15	17	578	-39	-100	0.36	0.1	14.020	0.115	0	0	0	75
OH3562	OH3561	AB	1/0 ACSR	7.21Y	120.2	0.01	5.81	40.15	17	578	-39	-100	0.03	0.0	14.029	0.009	0	0	0	75
OH3569	OH3562	A	OH_Digitiz	7.21Y	120.2	0.00	5.81	0.00	0	0	0	100	0.00	0.0	14.105	0.076	0	0	0	0
000052410101...	OH3569	A	Consumer	7.21Y	120.2	0.00	5.81	0.00	0	0	0	100	0.00	0.0	14.105	0.076	0	0	0	0
OH3563	OH3562	AB	1/0 ACSR	7.21Y	120.1	0.10	5.91	40.15	17	578	-39	-100	0.50	0.1	14.189	0.160	0	0	0	75
OH3564	OH3563	AB	1/0 ACSR	7.20Y	120.1	0.02	5.93	40.15	17	577	-40	-100	0.13	0.0	14.230	0.041	0	0	0	75
OH3114	OH3564	AB	1/0 ACSR	7.20Y	120.0	0.07	6.00	39.65	17	570	-39	-100	0.36	0.1	14.348	0.118	0	0	0	74
OH3664	OH3114	B	4 ACSR 7/1	7.19Y	119.8	0.16	6.16	48.23	34	346	-27	-100	0.49	0.1	14.433	0.085	0	0	0	48
OH3728	OH3664	B	4 ACSR 7/1	7.19Y	119.8	0.00	6.16	0.77	1	5	2	93	0.00	0.0	14.471	0.038	0	0	0	1
000052410101...	OH3728	B	Consumer	7.19Y	119.8	0.00	6.16	0.77	0	5	2	93	0.00	0.0	14.471	0.038	5	2	1	1
000052410101...	OH3728	B	Consumer	7.19Y	119.8	0.00	6.16	0.00	0	0	0	100	0.00	0.0	14.471	0.038	0	0	0	0
OH3115	OH3664	B	4 ACSR 7/1	7.18Y	119.7	0.15	6.32	46.62	33	334	-29	-100	0.45	0.1	14.517	0.084	0	0	0	45
OH3684	OH3115	B	4 ACSR 7/1	7.18Y	119.7	0.02	6.33	3.65	3	26	-2	-100	0.00	0.0	14.624	0.107	0	0	0	5
OH3681	OH3684	B	4 ACSR 7/1	7.18Y	119.7	0.01	6.35	3.60	3	26	-2	-100	0.00	0.0	14.725	0.101	0	0	0	4
OH3682	OH3681	B	4 ACSR 7/1	7.18Y	119.6	0.01	6.35	2.42	2	17	-2	-99	0.00	0.0	14.797	0.072	0	0	0	3
OH3683	OH3682	B	4 ACSR 7/1	7.18Y	119.6	0.00	6.35	0.52	0	4	0	100	0.00	0.0	14.863	0.066	0	0	0	1
000052410101...	OH3683	B	Consumer	7.18Y	119.6	0.00	6.35	0.52	0	4	0	100	0.00	0.0	14.863	0.066	4	0	1	1

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMRs.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts														-----Element-----							
		-Base Voltage:120.0-														mi		Length		Cons		Cons	
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	On	Thru			
000052410101...	OH3682	B	Consumer	7.18Y	119.6	0.00	6.35	1.85	0	13	-1	-100	0.00	0.0	14.797	0.066	13	-1	1	1			
000052410101...	OH3682	B	Consumer	7.18Y	119.6	0.00	6.35	0.05	0	0	0	100	0.00	0.0	14.797	0.066	0	0	1	1			
000052410101...	OH3681	B	Consumer	7.18Y	119.7	0.00	6.35	1.17	0	8	-1	-99	0.00	0.0	14.725	0.066	8	-1	1	1			
000052410101...	OH3681	B	Consumer	7.18Y	119.7	0.00	6.35	0.00	0	0	0	100	0.00	0.0	14.725	0.066	0	0	0	0			
000052410101...	OH3684	B	Consumer	7.18Y	119.7	0.00	6.33	0.05	0	0	0	100	0.00	0.0	14.624	0.066	0	0	1	1			
000052410101...	OH3684	B	Consumer	7.18Y	119.7	0.00	6.33	0.00	0	0	0	100	0.00	0.0	14.624	0.066	0	0	0	0			
OH3665	OH3115	B	4 ACSR 7/1	7.17Y	119.4	0.26	6.57	41.69	30	298	-26	-100	0.68	0.2	14.674	0.157	0	0	0	38			
OH3666	OH3665	B	4 ACSR 7/1	7.15Y	119.2	0.21	6.78	41.68	30	298	-26	-100	0.56	0.2	14.803	0.129	0	0	0	37			
OH3667	OH3666	B	4 ACSR 7/1	7.14Y	119.1	0.16	6.94	39.17	28	279	-25	-100	0.39	0.1	14.905	0.102	0	0	0	36			
OH3685	OH3667	B	4 ACSR 7/1	7.14Y	119.1	0.01	6.95	1.89	1	13	-1	-100	0.00	0.0	15.047	0.141	0	0	0	1			
OH3686	OH3685	B	4 ACSR 7/1	7.14Y	119.0	0.00	6.95	1.89	1	13	-1	-100	0.00	0.0	15.115	0.068	0	0	0	1			
000052410102...	OH3686	B	Consumer	7.14Y	119.0	0.00	6.95	1.89	0	13	-1	-100	0.00	0.0	15.115	0.068	13	-1	1	1			
000052410102...	OH3685	B	Consumer	7.14Y	119.1	0.00	6.95	0.00	0	0	0	100	0.00	0.0	15.047	0.068	0	0	0	0			
000052410102...	OH3685	B	Consumer	7.14Y	119.1	0.00	6.95	0.00	0	0	0	100	0.00	0.0	15.047	0.068	0	0	0	0			
OH3668	OH3667	B	4 ACSR 7/1	7.14Y	119.0	0.09	7.03	33.32	24	237	-21	-100	0.20	0.1	14.977	0.072	0	0	0	32			
OH3669	OH3668	B	4 ACSR 7/1	7.14Y	118.9	0.05	7.08	32.49	23	231	-21	-100	0.10	0.0	15.014	0.037	0	0	0	31			
OH3670	OH3669	B	4 ACSR 7/1	7.13Y	118.8	0.07	7.15	30.75	22	219	-20	-100	0.14	0.1	15.075	0.061	0	0	0	30			
OH3671	OH3670	B	4 ACSR 7/1	7.12Y	118.7	0.13	7.28	27.74	20	197	-18	-100	0.22	0.1	15.193	0.118	0	0	0	28			
OH3687	OH3671	B	4 ACSR 7/1	7.12Y	118.7	0.00	7.28	0.40	0	3	0	100	0.00	0.0	15.389	0.196	0	0	0	2			
OH3688	OH3687	B	4 ACSR 7/1	7.12Y	118.7	0.00	7.28	0.00	0	0	0	100	0.00	0.0	15.467	0.078	0	0	0	1			
000052410102...	OH3688	B	Consumer	7.12Y	118.7	0.00	7.28	0.00	0	0	0	100	0.00	0.0	15.467	0.078	0	0	1	1			
000052410102...	OH3687	B	Consumer	7.12Y	118.7	0.00	7.28	0.40	0	3	0	100	0.00	0.0	15.389	0.078	3	0	1	1			
OH3672	OH3671	B	4 ACSR 7/1	7.12Y	118.6	0.12	7.40	25.46	18	181	-16	-100	0.20	0.1	15.315	0.122	0	0	0	24			
OH3689	OH3672	B	4 ACSR 7/1	7.11Y	118.6	0.02	7.42	3.65	3	26	-2	-100	0.00	0.0	15.425	0.110	0	0	0	2			
OH3709	OH3689	B	4 ACSR 7/1	7.11Y	118.6	0.00	7.42	0.81	1	6	-1	-99	0.00	0.0	15.466	0.041	0	0	0	1			
OH3708	OH3709	B	4 ACSR 7/1	7.11Y	118.6	0.00	7.42	0.81	1	6	-1	-99	0.00	0.0	15.494	0.028	0	0	0	1			
000052410102...	OH3708	B	Consumer	7.11Y	118.6	0.00	7.42	0.81	0	6	-1	-99	0.00	0.0	15.494	0.028	6	-1	1	1			
000052410102...	OH3709	B	Consumer	7.11Y	118.6	0.00	7.42	0.00	0	0	0	100	0.00	0.0	15.466	0.028	0	0	0	0			
000052410102...	OH3689	B	Consumer	7.11Y	118.6	0.00	7.42	2.84	0	20	-2	-100	0.00	0.0	15.425	0.028	20	-2	1	1			
OH3673	OH3672	B	4 ACSR 7/1	7.11Y	118.5	0.08	7.48	19.59	14	139	-13	-100	0.10	0.1	15.417	0.102	0	0	0	19			
OH3690	OH3673	B	4 ACSR 7/1	7.11Y	118.5	0.00	7.48	0.34	0	2	0	100	0.00	0.0	15.545	0.128	0	0	0	1			
OH3691	OH3690	B	4 ACSR 7/1	7.11Y	118.5	0.00	7.48	0.00	0	0	0	100	0.00	0.0	15.614	0.070	0	0	0	0			
000052410102...	OH3691	B	Consumer	7.11Y	118.5	0.00	7.48	0.00	0	0	0	100	0.00	0.0	15.614	0.070	0	0	0	0			
000052410102...	OH3690	B	Consumer	7.11Y	118.5	0.00	7.48	0.00	0	0	0	100	0.00	0.0	15.545	0.070	0	0	0	0			
000052410102...	OH3690	B	Consumer	7.11Y	118.5	0.00	7.48	0.34	0	2	0	100	0.00	0.0	15.545	0.070	2	0	1	1			
OH3674	OH3673	B	4 ACSR 7/1	7.11Y	118.4	0.08	7.55	19.26	14	136	-12	-100	0.09	0.1	15.517	0.100	0	0	0	18			
OH29562	OH3674	B	4 ACSR 7/1	7.10Y	118.4	0.05	7.60	19.26	14	136	-12	-100	0.06	0.0	15.579	0.062	0	0	0	18			

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts														-----Element-----				
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OH3675	OH29562	B	4 ACSR 7/1	7.10Y	118.4	0.02	7.62	17.76	13	126	-12	-100	0.02	0.0	15.604	0.025	0	0	0	17
OH3785	OH3675	B	4 ACSR 7/1	7.10Y	118.4	0.00	7.62	0.85	1	6	-1	-99	0.00	0.0	15.649	0.046	0	0	0	1
OH3692	OH3785	B	4 ACSR 7/1	7.10Y	118.4	0.00	7.62	0.00	0	0	0	100	0.00	0.0	15.742	0.092	0	0	0	0
000052410102...	OH3692	B	Consumer	7.10Y	118.4	0.00	7.62	0.00	0	0	0	100	0.00	0.0	15.742	0.092	0	0	0	0
000052410102...	OH3785	B	Consumer	7.10Y	118.4	0.00	7.62	0.85	0	6	-1	-99	0.00	0.0	15.649	0.092	6	-1	1	1
000052410102...	OH3785	B	Consumer	7.10Y	118.4	0.00	7.62	0.00	0	0	0	100	0.00	0.0	15.649	0.092	0	0	0	0
OH3676	OH3675	B	4 ACSR 7/1	7.10Y	118.3	0.07	7.69	13.00	9	92	-8	-100	0.06	0.1	15.749	0.145	0	0	0	13
OH3677	OH3676	B	4 ACSR 7/1	7.10Y	118.3	0.02	7.72	11.86	8	84	-8	-100	0.02	0.0	15.801	0.052	0	0	0	12
OH3678	OH3677	B	4 ACSR 7/1	7.10Y	118.3	0.01	7.73	8.00	6	57	-5	-100	0.01	0.0	15.848	0.046	0	0	0	10
OH3679	OH3678	B	4 ACSR 7/1	7.10Y	118.3	0.01	7.74	5.64	4	40	-4	-100	0.00	0.0	15.883	0.035	0	0	0	9
OH3798	OH3679	B	4 ACSR 7/1	7.10Y	118.3	0.01	7.75	3.44	2	24	-2	-100	0.00	0.0	15.960	0.077	0	0	0	6
OH3680	OH3798	B	4 ACSR 7/1	7.09Y	118.2	0.00	7.75	3.18	2	22	-2	-100	0.00	0.0	15.983	0.022	0	0	0	5
OH3121	OH3680	B	4 ACSR 7/1	7.09Y	118.2	0.01	7.76	1.71	1	12	-1	-100	0.00	0.0	16.099	0.116	0	0	0	3
OH3804	OH3121	B	4 ACSR 7/1	7.09Y	118.2	0.00	7.76	0.01	0	0	0	100	0.00	0.0	16.198	0.100	0	0	0	1
000052410103...	OH3804	B	Consumer	7.09Y	118.2	0.00	7.76	0.01	0	0	0	100	0.00	0.0	16.198	0.100	0	0	1	1
000052410103...	OH3121	B	Consumer	7.09Y	118.2	0.00	7.76	1.67	0	12	-1	-100	0.00	0.0	16.099	0.100	12	-1	1	1
000052410103...	OH3121	B	Consumer	7.09Y	118.2	0.00	7.76	0.04	0	0	0	100	0.00	0.0	16.099	0.100	0	0	1	1
000052410103...	OH3121	B	Consumer	7.09Y	118.2	0.00	7.76	0.00	0	0	0	100	0.00	0.0	16.099	0.100	0	0	0	0
000052410103...	OH3680	B	Consumer	7.09Y	118.2	0.00	7.75	0.61	0	4	0	100	0.00	0.0	15.983	0.100	4	0	1	1
000052410103...	OH3680	B	Consumer	7.09Y	118.2	0.00	7.75	0.85	0	6	-1	-99	0.00	0.0	15.983	0.100	6	-1	1	1
000052410103...	OH3680	B	Consumer	7.09Y	118.2	0.00	7.75	0.00	0	0	0	100	0.00	0.0	15.983	0.100	0	0	0	0
000052410103...	OH3798	B	Consumer	7.10Y	118.3	0.00	7.75	0.26	0	2	0	100	0.00	0.0	15.960	0.100	2	0	1	1
OH3693	OH3679	B	4 ACSR 7/1	7.10Y	118.3	0.00	7.74	1.50	1	11	-1	-100	0.00	0.0	15.964	0.081	0	0	0	1
000052410103...	OH3693	B	Consumer	7.10Y	118.3	0.00	7.74	0.00	0	0	0	100	0.00	0.0	15.964	0.081	0	0	0	0
000052410103...	OH3693	B	Consumer	7.10Y	118.3	0.00	7.74	1.50	0	11	-1	-100	0.00	0.0	15.964	0.081	11	-1	1	1
000052410103...	OH3679	B	Consumer	7.10Y	118.3	0.00	7.74	0.67	0	5	0	100	0.00	0.0	15.883	0.081	5	0	1	1
000052410103...	OH3679	B	Consumer	7.10Y	118.3	0.00	7.74	0.03	0	0	0	100	0.00	0.0	15.883	0.081	0	0	1	1
000052410103...	OH3678	B	Consumer	7.10Y	118.3	0.00	7.73	2.37	0	17	-2	-99	0.00	0.0	15.848	0.081	17	-2	1	1
000052410103...	OH3677	B	Consumer	7.10Y	118.3	0.00	7.72	2.89	0	20	-2	-100	0.00	0.0	15.801	0.081	20	-2	1	1
000052410102...	OH3677	B	Consumer	7.10Y	118.3	0.00	7.72	0.97	0	7	-1	-99	0.00	0.0	15.801	0.081	7	-1	1	1
000052410102...	OH3676	B	Consumer	7.10Y	118.3	0.00	7.69	1.14	0	8	-1	-99	0.00	0.0	15.749	0.081	8	-1	1	1
000052410102...	OH3675	B	Consumer	7.10Y	118.4	0.00	7.62	0.22	0	2	0	100	0.00	0.0	15.604	0.081	2	0	1	1
000052410102...	OH3675	B	Consumer	7.10Y	118.4	0.00	7.62	2.29	0	16	-1	-100	0.00	0.0	15.604	0.081	16	-1	1	1
000052410102...	OH3675	B	Consumer	7.10Y	118.4	0.00	7.62	1.39	0	10	-1	-100	0.00	0.0	15.604	0.081	10	-1	1	1
000052410102...	OH29562	B	Consumer	7.10Y	118.4	0.00	7.60	1.50	0	11	-1	-100	0.00	0.0	15.579	0.081	11	-1	1	1
000052410102...	OH3674	B	Consumer	7.11Y	118.4	0.00	7.55	0.00	0	0	0	100	0.00	0.0	15.517	0.081	0	0	0	0
000052410102...	OH3672	B	Consumer	7.12Y	118.6	0.00	7.40	0.58	0	4	0	100	0.00	0.0	15.315	0.081	4	0	1	1

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts													-----Element-----					
		-Base Voltage:120.0-													mi		Length		Cons Cons	
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	(mi)	KW	KVAR	On	Thru
000052410102...	OH3672	B	Consumer	7.12Y	118.6	0.00	7.40	0.00	0	0	0	100	0.00	0.0	15.315	0.081	0	0	0	0
000052410102...	OH3672	B	Consumer	7.12Y	118.6	0.00	7.40	1.10	0	8	-1	-99	0.00	0.0	15.315	0.081	8	-1	1	1
000052410102...	OH3672	B	Consumer	7.12Y	118.6	0.00	7.40	0.54	0	4	0	100	0.00	0.0	15.315	0.081	4	0	1	1
000052410102...	OH3671	B	Consumer	7.12Y	118.7	0.00	7.28	0.00	0	0	0	100	0.00	0.0	15.193	0.081	0	0	0	0
000052410102...	OH3671	B	Consumer	7.12Y	118.7	0.00	7.28	0.53	0	4	0	100	0.00	0.0	15.193	0.081	4	0	1	1
000052410102...	OH3671	B	Consumer	7.12Y	118.7	0.00	7.28	1.34	0	9	-1	-99	0.00	0.0	15.193	0.081	9	-1	1	1
000052410102...	OH3670	B	Consumer	7.13Y	118.8	0.00	7.15	0.00	0	0	0	100	0.00	0.0	15.075	0.081	0	0	0	0
000052410102...	OH3670	B	Consumer	7.13Y	118.8	0.00	7.15	1.75	0	12	-1	-100	0.00	0.0	15.075	0.081	12	-1	1	1
000052410102...	OH3670	B	Consumer	7.13Y	118.8	0.00	7.15	0.00	0	0	0	100	0.00	0.0	15.075	0.081	0	0	0	0
000052410102...	OH3670	B	Consumer	7.13Y	118.8	0.00	7.15	1.26	0	9	-1	-99	0.00	0.0	15.075	0.081	9	-1	1	1
000052410102...	OH3670	B	Consumer	7.13Y	118.8	0.00	7.15	0.00	0	0	0	100	0.00	0.0	15.075	0.081	0	0	0	0
000052410102...	OH3669	B	Consumer	7.14Y	118.9	0.00	7.08	1.74	0	12	-1	-100	0.00	0.0	15.014	0.081	12	-1	1	1
000052410102...	OH3668	B	Consumer	7.14Y	119.0	0.00	7.03	0.00	0	0	0	100	0.00	0.0	14.977	0.081	0	0	0	0
000052410102...	OH3668	B	Consumer	7.14Y	119.0	0.00	7.03	0.00	0	0	0	100	0.00	0.0	14.977	0.081	0	0	0	0
000052410102...	OH3668	B	Consumer	7.14Y	119.0	0.00	7.03	0.83	0	6	-1	-99	0.00	0.0	14.977	0.081	6	-1	1	1
000052410102...	OH3667	B	Consumer	7.14Y	119.1	0.00	6.94	0.98	0	7	-1	-99	0.00	0.0	14.905	0.081	7	-1	1	1
000052410102...	OH3667	B	Consumer	7.14Y	119.1	0.00	6.94	1.08	0	8	-1	-99	0.00	0.0	14.905	0.081	8	-1	1	1
000052410102...	OH3667	B	Consumer	7.14Y	119.1	0.00	6.94	1.90	0	13	-1	-100	0.00	0.0	14.905	0.081	13	-1	1	1
000052410102...	OH3666	B	Consumer	7.15Y	119.2	0.00	6.78	0.00	0	0	0	100	0.00	0.0	14.803	0.081	0	0	0	0
000052410102...	OH3666	B	Consumer	7.15Y	119.2	0.00	6.78	2.51	0	18	-2	-99	0.00	0.0	14.803	0.081	18	-2	1	1
000052410101...	OH3665	B	Consumer	7.17Y	119.4	0.00	6.57	0.01	0	0	0	100	0.00	0.0	14.674	0.081	0	0	1	1
000052410101...	OH3665	B	Consumer	7.17Y	119.4	0.00	6.57	0.00	0	0	0	100	0.00	0.0	14.674	0.081	0	0	0	0
000052410101...	OH3115	B	Consumer	7.18Y	119.7	0.00	6.32	0.54	0	4	0	100	0.00	0.0	14.517	0.081	4	0	1	1
000052410101...	OH3115	B	Consumer	7.18Y	119.7	0.00	6.32	0.74	0	5	0	100	0.00	0.0	14.517	0.081	5	0	1	1
000052410101...	OH3664	B	Consumer	7.19Y	119.8	0.00	6.16	0.00	0	0	0	100	0.00	0.0	14.433	0.081	0	0	0	0
000052410101...	OH3664	B	Consumer	7.19Y	119.8	0.00	6.16	0.94	0	7	-1	-99	0.00	0.0	14.433	0.081	7	-1	1	1
000052410101...	OH3664	B	Consumer	7.19Y	119.8	0.00	6.16	0.00	0	0	0	100	0.00	0.0	14.433	0.081	0	0	1	1
000052410101...	OH3664	B	Consumer	7.19Y	119.8	0.00	6.16	0.00	0	0	0	100	0.00	0.0	14.433	0.081	0	0	0	0
OH3113	OH3114	A	4 ACSR 7/1	7.19Y	119.8	0.21	6.21	29.38	21	211	-13	-100	0.38	0.2	14.528	0.180	0	0	0	24
OH3651	OH3113	A	4 ACSR 7/1	7.19Y	119.8	0.01	6.22	4.36	3	31	3	100	0.00	0.0	14.593	0.065	0	0	0	4
OH3616	OH3651	A	4 ACSR 7/1	7.19Y	119.8	0.01	6.23	1.73	1	12	-1	-100	0.00	0.0	14.698	0.105	0	0	0	2
000052410101...	OH3616	A	Consumer	7.19Y	119.8	0.00	6.23	0.08	0	1	0	100	0.00	0.0	14.698	0.105	1	0	1	1
000052410101...	OH3616	A	Consumer	7.19Y	119.8	0.00	6.23	1.65	0	12	-1	-100	0.00	0.0	14.698	0.105	12	-1	1	1
000052410101...	OH3651	A	Consumer	7.19Y	119.8	0.00	6.22	1.53	0	10	5	89	0.00	0.0	14.593	0.105	10	5	1	1
000052410101...	OH3651	A	Consumer	7.19Y	119.8	0.00	6.22	1.25	0	9	-1	-99	0.00	0.0	14.593	0.105	9	-1	1	1
OH3650	OH3113	A	4 ACSR 7/1	7.19Y	119.8	0.00	6.21	0.91	1	7	0	100	0.00	0.0	14.589	0.061	0	0	0	2
OH3615	OH3650	A	4 ACSR 7/1	7.19Y	119.8	0.00	6.22	0.83	1	6	-1	-99	0.00	0.0	14.677	0.088	0	0	0	1

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
000052410101...	OH3615	A	Consumer	7.19Y	119.8	0.00	6.22	0.83	0	6	-1	-99	0.00	0.0	14.677	0.088	6	-1	1	1
000052410101...	OH3650	A	Consumer	7.19Y	119.8	0.00	6.21	0.10	0	1	0	100	0.00	0.0	14.589	0.088	1	0	1	1
OH3117	OH3113	A	4 ACSR 7/1	7.18Y	119.7	0.13	6.34	24.16	17	173	-16	-100	0.20	0.1	14.666	0.138	0	0	0	18
OH3639	OH3117	A	4 ACSR 7/1	7.18Y	119.6	0.01	6.35	3.02	2	22	-2	-100	0.00	0.0	14.766	0.100	0	0	0	3
OH3640	OH3639	A	4 ACSR 7/1	7.18Y	119.6	0.00	6.35	1.53	1	11	-1	-100	0.00	0.0	14.786	0.020	0	0	0	2
OH3641	OH3640	A	4 ACSR 7/1	7.18Y	119.6	0.00	6.36	0.94	1	7	-1	-99	0.00	0.0	14.884	0.098	0	0	0	1
OH29133	OH3641	A	4 ACSR 7/1	7.18Y	119.6	0.00	6.36	0.94	1	7	-1	-99	0.00	0.0	14.946	0.062	0	0	0	1
OH3118	OH29133	A	4 ACSR 7/1	7.18Y	119.6	0.00	6.36	0.00	0	0	0	100	0.00	0.0	15.003	0.056	0	0	0	0
000052410101...	OH3118	A	Consumer	7.18Y	119.6	0.00	6.36	0.00	0	0	0	100	0.00	0.0	15.003	0.056	0	0	0	0
000052410101...	OH29133	A	Consumer	7.18Y	119.6	0.00	6.36	0.94	0	7	-1	-99	0.00	0.0	14.946	0.056	7	-1	1	1
000052410101...	OH3641	A	Consumer	7.18Y	119.6	0.00	6.36	0.00	0	0	0	100	0.00	0.0	14.884	0.056	0	0	0	0
000052410101...	OH3641	A	Consumer	7.18Y	119.6	0.00	6.36	0.00	0	0	0	100	0.00	0.0	14.884	0.056	0	0	0	0
000052410101...	OH3640	A	Consumer	7.18Y	119.6	0.00	6.35	0.59	0	4	0	100	0.00	0.0	14.786	0.056	4	0	1	1
000052410101...	OH3640	A	Consumer	7.18Y	119.6	0.00	6.35	0.00	0	0	0	100	0.00	0.0	14.786	0.056	0	0	0	0
000052410101...	OH3639	A	Consumer	7.18Y	119.6	0.00	6.35	1.50	0	11	-1	-100	0.00	0.0	14.766	0.056	11	-1	1	1
OH3618	OH3117	A	4 ACSR 7/1	7.17Y	119.5	0.11	6.45	19.30	14	138	-13	-100	0.13	0.1	14.810	0.144	0	0	0	14
OH3632	OH3618	A	4 ACSR 7/1	7.17Y	119.5	0.04	6.49	5.19	4	37	-3	-100	0.01	0.0	14.992	0.182	0	0	0	5
OH3631	OH3632	A	4 ACSR 7/1	7.17Y	119.5	0.00	6.49	3.16	2	23	-2	-100	0.00	0.0	15.017	0.025	0	0	0	3
OH3623	OH3631	A	4 ACSR 7/1	7.17Y	119.5	0.00	6.49	2.07	1	15	-1	-100	0.00	0.0	15.060	0.043	0	0	0	2
000052410101...	OH3623	A	Consumer	7.17Y	119.5	0.00	6.49	1.17	0	8	-1	-99	0.00	0.0	15.060	0.043	8	-1	1	1
000052410101...	OH3623	A	Consumer	7.17Y	119.5	0.00	6.49	0.89	0	6	-1	-99	0.00	0.0	15.060	0.043	6	-1	1	1
000052410101...	OH3631	A	Consumer	7.17Y	119.5	0.00	6.49	1.09	0	8	-1	-99	0.00	0.0	15.017	0.043	8	-1	1	1
000052410101...	OH3632	A	Consumer	7.17Y	119.5	0.00	6.49	1.12	0	8	-1	-99	0.00	0.0	14.992	0.043	8	-1	1	1
000052410101...	OH3632	A	Consumer	7.17Y	119.5	0.00	6.49	0.91	0	6	-1	-99	0.00	0.0	14.992	0.043	6	-1	1	1
OH3624	OH3618	A	4 ACSR 7/1	7.17Y	119.5	0.02	6.47	4.44	3	32	-3	-100	0.01	0.0	14.947	0.137	0	0	0	2
OH3625	OH3624	A	4 ACSR 7/1	7.17Y	119.5	0.01	6.48	2.06	1	15	-1	-100	0.00	0.0	15.040	0.093	0	0	0	1
000052410101...	OH3625	A	Consumer	7.17Y	119.5	0.00	6.48	2.06	0	15	-1	-100	0.00	0.0	15.040	0.093	15	-1	1	1
000052410101...	OH3624	A	Consumer	7.17Y	119.5	0.00	6.47	2.38	0	17	-2	-99	0.00	0.0	14.947	0.093	17	-2	1	1
OH3619	OH3618	A	4 ACSR 7/1	7.17Y	119.5	0.04	6.49	9.68	7	69	-6	-100	0.03	0.0	14.918	0.108	0	0	0	7
OH3620	OH3619	A	4 ACSR 7/1	7.17Y	119.5	0.02	6.51	8.28	6	59	-5	-100	0.01	0.0	14.975	0.056	0	0	0	6
OH3621	OH3620	A	4 ACSR 7/1	7.17Y	119.5	0.01	6.52	4.87	3	35	-3	-100	0.00	0.0	15.036	0.062	0	0	0	4
OH3622	OH3621	A	4 ACSR 7/1	7.17Y	119.5	0.00	6.52	0.00	0	0	0	100	0.00	0.0	15.120	0.084	0	0	0	1
000052410101...	OH3622	A	Consumer	7.17Y	119.5	0.00	6.52	0.00	0	0	0	100	0.00	0.0	15.120	0.084	0	0	1	1
000052410101...	OH3621	A	Consumer	7.17Y	119.5	0.00	6.52	1.28	0	9	-1	-99	0.00	0.0	15.036	0.084	9	-1	1	1
000052410101...	OH3621	A	Consumer	7.17Y	119.5	0.00	6.52	0.77	0	6	-1	-99	0.00	0.0	15.036	0.084	6	-1	1	1
000052410101...	OH3621	A	Consumer	7.17Y	119.5	0.00	6.52	2.81	0	20	-2	-100	0.00	0.0	15.036	0.084	20	-2	1	1
000052410101...	OH3621	A	Consumer	7.17Y	119.5	0.00	6.52	0.00	0	0	0	100	0.00	0.0	15.036	0.084	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

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	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
OH3119	OH3620	A	4 ACSR 7/1	7.17Y	119.5	0.01	6.51	3.41	2	24	-2	-100	0.00	0.0	15.016	0.041	0	0	0	2
000052410101...	OH3119	A	Consumer	7.17Y	119.5	0.00	6.51	1.37	0	10	-1	-100	0.00	0.0	15.016	0.041	10	-1	1	1
000052410101...	OH3119	A	Consumer	7.17Y	119.5	0.00	6.51	2.05	0	15	-1	-100	0.00	0.0	15.016	0.041	15	-1	1	1
000052410101...	OH3619	A	Consumer	7.17Y	119.5	0.00	6.49	1.40	0	10	-1	-100	0.00	0.0	14.918	0.041	10	-1	1	1
000052410101...	OH3618	A	Consumer	7.17Y	119.5	0.00	6.45	0.00	0	0	0	100	0.00	0.0	14.810	0.041	0	0	0	0
000052410101...	OH3618	A	Consumer	7.17Y	119.5	0.00	6.45	0.00	0	0	0	100	0.00	0.0	14.810	0.041	0	0	0	0
000052410101...	OH3117	A	Consumer	7.18Y	119.7	0.00	6.34	1.83	0	13	-1	-100	0.00	0.0	14.666	0.041	13	-1	1	1
000052410101...	OH3114	B	Consumer	7.20Y	120.0	0.00	6.00	0.28	0	2	1	89	0.00	0.0	14.348	0.041	2	1	1	1
000052410101...	OH3114	B	Consumer	7.20Y	120.0	0.00	6.00	1.46	0	10	-1	-100	0.00	0.0	14.348	0.041	10	-1	1	1
000052410101...	OH3114	B	Consumer	7.20Y	120.0	0.00	6.00	0.00	0	0	0	100	0.00	0.0	14.348	0.041	0	0	0	0
000052410101...	OH3564	A	Consumer	7.20Y	120.1	0.00	5.93	0.99	0	7	-1	-99	0.00	0.0	14.230	0.041	7	-1	1	1
000052410101...	OH3563	A	Consumer	7.21Y	120.1	0.00	5.91	0.00	0	0	0	100	0.00	0.0	14.189	0.041	0	0	0	0
000052410101...	OH3561	A	Consumer	7.21Y	120.2	0.00	5.81	0.00	0	0	0	100	0.00	0.0	14.020	0.041	0	0	0	0
000052410101...	OH3561	A	Consumer	7.21Y	120.2	0.00	5.81	0.00	0	0	0	100	0.00	0.0	14.020	0.041	0	0	0	0
000052410101...	OH3561	A	Consumer	7.21Y	120.2	0.00	5.81	0.00	0	0	0	100	0.00	0.0	14.020	0.041	0	0	0	0
000052410101...	OH3560	A	Consumer	7.22Y	120.3	0.00	5.74	0.00	0	0	0	100	0.00	0.0	13.905	0.041	0	0	0	0
000052410101...	OH3559	A	Consumer	7.22Y	120.3	0.00	5.69	0.00	0	0	0	100	0.00	0.0	13.824	0.041	0	0	0	0
000052410101...	OH3556	A	Consumer	7.23Y	120.5	0.00	5.54	0.00	0	0	0	100	0.00	0.0	13.580	0.041	0	0	0	0
000052410101...	OH3556	A	Consumer	7.23Y	120.5	0.00	5.54	0.00	0	0	0	100	0.00	0.0	13.580	0.041	0	0	0	0
000052410101...	OH3553	A	Consumer	7.23Y	120.5	0.00	5.49	0.00	0	0	0	100	0.00	0.0	13.501	0.041	0	0	0	0
000052410101...	OH3584	A	Consumer	7.23Y	120.5	0.00	5.47	0.00	0	0	0	100	0.00	0.0	13.471	0.041	0	0	0	0
000052410101...	OH3584	A	Consumer	7.23Y	120.5	0.00	5.47	0.00	0	0	0	100	0.00	0.0	13.471	0.041	0	0	0	0
000052400001...	OH3125	A	Consumer	7.25Y	120.8	0.00	5.21	0.00	0	0	0	100	0.00	0.0	13.067	0.041	0	0	0	0
000052400000...	OH3552	A	Consumer	7.28Y	121.3	0.00	4.71	0.00	0	0	0	100	0.00	0.0	12.476	0.041	0	0	0	0
000052400000...	OH3550	A	Consumer	7.31Y	121.8	0.00	4.25	0.00	0	0	0	100	0.00	0.0	11.930	0.041	0	0	0	0
000052400000...	OH3550	A	Consumer	7.31Y	121.8	0.00	4.25	0.00	0	0	0	100	0.00	0.0	11.930	0.041	0	0	0	0
000052400000...	OH3549	A	Consumer	7.33Y	122.1	0.00	3.87	0.00	0	0	0	100	0.00	0.0	11.500	0.041	0	0	0	0
OH4661	OH3567	C	4 ACSR 7/1	7.34Y	122.3	0.06	3.66	24.68	18	181	-11	-100	0.09	0.1	11.242	0.060	0	0	0	29
OH1405_6	OH4661	C	4 ACSR 7/1	7.34Y	122.3	0.07	3.73	21.59	15	158	-9	-100	0.09	0.1	11.323	0.081	0	0	0	26
OH1590	OH1405_6	C	4 ACSR 7/1	7.34Y	122.3	0.00	3.73	0.10	0	1	0	100	0.00	0.0	11.421	0.098	0	0	0	2
000052400000...	OH1590	C	Consumer	7.34Y	122.3	0.00	3.73	0.05	0	0	0	100	0.00	0.0	11.421	0.098	0	0	1	1
000052400000...	OH1590	C	Consumer	7.34Y	122.3	0.00	3.73	0.05	0	0	0	100	0.00	0.0	11.421	0.098	0	0	1	1
OH1589	OH1405_6	C	4 ACSR 7/1	7.33Y	122.2	0.04	3.77	21.49	15	157	-9	-100	0.06	0.0	11.374	0.051	0	0	0	24
OH1431_6	OH1589	C	4 ACSR 7/1	7.32Y	122.0	0.21	3.98	21.49	15	157	-9	-100	0.28	0.2	11.621	0.246	0	0	0	24
OH1404_6	OH1431_6	C	4 ACSR 7/1	7.31Y	121.9	0.11	4.09	21.49	15	157	-9	-100	0.15	0.1	11.749	0.128	0	0	0	24
OH1432_6	OH1404_6	C	4 ACSR 7/1	7.31Y	121.9	0.00	4.09	0.00	0	0	0	100	0.00	0.0	12.042	0.293	0	0	0	0
OH1433_6	OH1432_6	C	4 ACSR 7/1	7.31Y	121.9	0.00	4.09	0.00	0	0	0	100	0.00	0.0	12.243	0.201	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts											mi		-----Element-----					
		-Base Voltage:120.0-											From	Length	Cons		Cons			
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	Src	(mi)	KW	KVAR	On	Thru
000052400001...	OH1433_6	C	Consumer	7.31Y	121.9	0.00	4.09	0.00	0	0	0	100	0.00	0.0	12.243	0.201	0	0	0	0
OH1403_6	OH1432_6	C	4 ACSR 7/1	7.31Y	121.9	0.00	4.09	0.00	0	0	0	100	0.00	0.0	12.125	0.083	0	0	0	0
000052400001...	OH1403_6	C	Consumer	7.31Y	121.9	0.00	4.09	0.00	0	0	0	100	0.00	0.0	12.125	0.083	0	0	0	0
000052400001...	OH1403_6	C	Consumer	7.31Y	121.9	0.00	4.09	0.00	0	0	0	100	0.00	0.0	12.125	0.083	0	0	0	0
000052400001...	OH1403_6	C	Consumer	7.31Y	121.9	0.00	4.09	0.00	0	0	0	100	0.00	0.0	12.125	0.083	0	0	0	0
OH1402_6	OH1404_6	C	4 ACSR 7/1	7.31Y	121.8	0.15	4.24	21.49	15	157	-9	-100	0.20	0.1	11.922	0.173	0	0	0	23
OH1401_6	OH1402_6	C	4 ACSR 7/1	7.30Y	121.7	0.03	4.27	19.41	14	142	-8	-100	0.04	0.0	11.964	0.042	0	0	0	21
OH1430_6	OH1401_6	C	4 ACSR 7/1	7.30Y	121.7	0.03	4.30	19.41	14	142	-8	-100	0.04	0.0	12.004	0.040	0	0	0	21
OH1429_6	OH1430_6	C	4 ACSR 7/1	7.29Y	121.6	0.12	4.43	18.57	13	135	-7	-100	0.14	0.1	12.171	0.167	0	0	0	19
OH1400_6	OH1429_6	C	4 ACSR 7/1	7.29Y	121.5	0.06	4.48	16.56	12	121	-6	-100	0.06	0.0	12.255	0.083	0	0	0	17
OH1572_6	OH1400_6	C	4 ACSR 7/1	7.29Y	121.5	0.03	4.51	11.44	8	83	-5	-100	0.02	0.0	12.321	0.067	0	0	0	12
OH1445_6	OH1572_6	C	4 ACSR 7/1	7.28Y	121.4	0.07	4.59	7.52	5	55	-2	-100	0.03	0.1	12.560	0.239	0	0	0	9
OH1444_6	OH1445_6	C	4 ACSR 7/1	7.28Y	121.4	0.03	4.62	6.87	5	50	-2	-100	0.01	0.0	12.671	0.111	0	0	0	8
OH1449_6	OH1444_6	C	4 ACSR 7/1	7.28Y	121.4	0.02	4.64	6.87	5	50	-2	-100	0.01	0.0	12.742	0.071	0	0	0	8
OH1435_6	OH1449_6	C	4 ACSR 7/1	7.28Y	121.3	0.06	4.69	6.87	5	50	-2	-100	0.02	0.0	12.947	0.204	0	0	0	8
OH1539_6	OH1435_6	C	4 ACSR 7/1	7.28Y	121.3	0.02	4.72	6.18	4	45	-4	-100	0.01	0.0	13.047	0.100	0	0	0	6
OH1451_6	OH1539_6	C	4 ACSR 7/1	7.27Y	121.2	0.05	4.76	6.18	4	45	-4	-100	0.02	0.0	13.234	0.187	0	0	0	6
OH29112	OH1451_6	C	4 ACSR 7/1	7.27Y	121.2	0.03	4.80	4.03	3	29	-3	-99	0.01	0.0	13.436	0.202	0	0	0	3
OH1452_6	OH29112	C	4 ACSR 7/1	7.27Y	121.2	0.02	4.81	4.03	3	29	-3	-99	0.00	0.0	13.559	0.123	0	0	0	3
000052400002...	OH1452_6	C	Consumer	7.27Y	121.2	0.00	4.81	1.74	0	13	-1	-100	0.00	0.0	13.559	0.123	13	-1	1	1
000052400002...	OH1452_6	C	Consumer	7.27Y	121.2	0.00	4.81	0.97	0	7	-1	-99	0.00	0.0	13.559	0.123	7	-1	1	1
000052400002...	OH1452_6	C	Consumer	7.27Y	121.2	0.00	4.81	1.32	0	10	-1	-100	0.00	0.0	13.559	0.123	10	-1	1	1
000052400002...	OH29112	C	Consumer	7.27Y	121.2	0.00	4.80	0.00	0	0	0	100	0.00	0.0	13.436	0.123	0	0	0	0
000052400002...	OH1451_6	C	Consumer	7.27Y	121.2	0.00	4.76	0.12	0	1	0	100	0.00	0.0	13.234	0.123	1	0	1	1
000052400002...	OH1451_6	C	Consumer	7.27Y	121.2	0.00	4.76	1.59	0	12	-1	-100	0.00	0.0	13.234	0.123	12	-1	1	1
000052400002...	OH1451_6	C	Consumer	7.27Y	121.2	0.00	4.76	0.43	0	3	0	100	0.00	0.0	13.234	0.123	3	0	1	1
000052400002...	OH1539_6	C	Consumer	7.28Y	121.3	0.00	4.72	0.00	0	0	0	100	0.00	0.0	13.047	0.123	0	0	0	0
OH1436_6	OH1435_6	C	4 ACSR 7/1	7.28Y	121.3	0.01	4.70	0.80	1	5	3	86	0.00	0.0	13.106	0.159	0	0	0	2
OH1437_6	OH1436_6	C	4 ACSR 7/1	7.28Y	121.3	0.01	4.71	0.80	1	5	3	86	0.00	0.0	13.405	0.299	0	0	0	2
OH1438_6	OH1437_6	C	4 ACSR 7/1	7.28Y	121.3	0.00	4.71	0.02	0	0	0	100	0.00	0.0	13.491	0.085	0	0	1	1
000052400002...	OH1438_6	C	Consumer	7.28Y	121.3	0.00	4.71	0.02	0	0	0	100	0.00	0.0	13.491	0.085	0	0	1	1
000052400002...	OH1437_6	C	Consumer	7.28Y	121.3	0.00	4.71	0.78	0	5	2	93	0.00	0.0	13.405	0.085	5	2	1	1
000052400002...	OH1436_6	C	Consumer	7.28Y	121.3	0.00	4.70	0.00	0	0	0	100	0.00	0.0	13.106	0.085	0	0	0	0
OH1434_6	OH1435_6	C	4 ACSR 7/1	7.28Y	121.3	0.00	4.69	0.00	0	0	0	100	0.00	0.0	13.239	0.292	0	0	0	0
000052400002...	OH1434_6	C	Consumer	7.28Y	121.3	0.00	4.69	0.00	0	0	0	100	0.00	0.0	13.239	0.292	0	0	0	0
000052400002...	OH1435_6	C	Consumer	7.28Y	121.3	0.00	4.69	0.00	0	0	0	100	0.00	0.0	12.947	0.292	0	0	0	0
000052400002...	OH1435_6	C	Consumer	7.28Y	121.3	0.00	4.69	0.00	0	0	0	100	0.00	0.0	12.947	0.292	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMRs.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts														-----Element-----					
		-Base Voltage:120.0-														mi				Cons Cons	
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	On	Thru	
OH1447_6	OH1444_6	C	4 ACSR 7/1	7.28Y	121.4	0.00	4.62	0.00	0	0	0	100	0.00	0.0	12.838	0.167	0	0	0	0	
000052400002...	OH1447_6	C	Consumer	7.28Y	121.4	0.00	4.62	0.00	0	0	0	100	0.00	0.0	12.838	0.167	0	0	0	0	
000052400002...	OH1445_6	C	Consumer	7.28Y	121.4	0.00	4.59	0.64	0	5	0	100	0.00	0.0	12.560	0.167	5	0	1	1	
000052400001...	OH1572_6	C	Consumer	7.29Y	121.5	0.00	4.51	1.83	0	13	-1	-100	0.00	0.0	12.321	0.167	13	-1	1	1	
000052400001...	OH1572_6	C	Consumer	7.29Y	121.5	0.00	4.51	1.12	0	8	-1	-99	0.00	0.0	12.321	0.167	8	-1	1	1	
000052400001...	OH1572_6	C	Consumer	7.29Y	121.5	0.00	4.51	0.98	0	7	-1	-99	0.00	0.0	12.321	0.167	7	-1	1	1	
OH1428_6	OH1400_6	C	4 ACSR 7/1	7.29Y	121.5	0.03	4.52	5.12	4	37	-2	-100	0.01	0.0	12.410	0.155	0	0	0	5	
OH1426_6	OH1428_6	C	4 ACSR 7/1	7.29Y	121.5	0.02	4.53	3.49	2	25	-2	-100	0.00	0.0	12.531	0.121	0	0	0	1	
000052400002...	OH1426_6	C	Consumer	7.29Y	121.5	0.00	4.53	3.49	0	25	-2	-100	0.00	0.0	12.531	0.121	25	-2	1	1	
000052400002...	OH1426_6	C	Consumer	7.29Y	121.5	0.00	4.53	0.00	0	0	0	100	0.00	0.0	12.531	0.121	0	0	0	0	
OH1399_6	OH1428_6	C	4 ACSR 7/1	7.29Y	121.5	0.01	4.52	1.30	1	9	1	99	0.00	0.0	12.525	0.115	0	0	0	3	
OH1548_	OH1399_6	C	4 ACSR 7/1	7.29Y	121.5	0.00	4.53	0.83	1	6	-1	-99	0.00	0.0	12.654	0.129	0	0	0	1	
OH29551	OH1548	C	4 ACSR 7/1	7.29Y	121.5	0.00	4.53	0.83	1	6	-1	-99	0.00	0.0	12.786	0.131	0	0	0	1	
OH1549_6	OH29551	C	4 ACSR 7/1	7.29Y	121.5	0.00	4.53	0.00	0	0	0	100	0.00	0.0	12.963	0.177	0	0	0	0	
000052400002...	OH1549_6	C	Consumer	7.29Y	121.5	0.00	4.53	0.00	0	0	0	100	0.00	0.0	12.963	0.177	0	0	0	0	
000052400002...	OH29551	C	Consumer	7.29Y	121.5	0.00	4.53	0.83	0	6	-1	-99	0.00	0.0	12.786	0.177	6	-1	1	1	
000052400002...	OH1548	C	Consumer	7.29Y	121.5	0.00	4.53	0.00	0	0	0	100	0.00	0.0	12.654	0.177	0	0	0	0	
OH1547	OH1399_6	C	4 ACSR 7/1	7.29Y	121.5	0.01	4.53	0.47	0	3	2	83	0.00	0.0	12.805	0.279	0	0	0	1	
OH1427_6	OH1547	C	4 ACSR 7/1	7.29Y	121.5	0.00	4.53	0.47	0	3	2	83	0.00	0.0	12.896	0.091	0	0	0	1	
000052400001...	OH1427_6	C	Consumer	7.29Y	121.5	0.00	4.53	0.47	0	3	2	83	0.00	0.0	12.896	0.091	3	2	1	1	
OH1425_6	OH1547	C	4 ACSR 7/1	7.29Y	121.5	0.00	4.53	0.00	0	0	0	100	0.00	0.0	12.866	0.061	0	0	0	0	
OH1395_6	OH1425_6	C	4 ACSR 7/1	7.29Y	121.5	0.00	4.53	0.00	0	0	0	100	0.00	0.0	13.488	0.622	0	0	0	0	
000052400001...	OH1395_6	C	Consumer	7.29Y	121.5	0.00	4.53	0.00	0	0	0	100	0.00	0.0	13.488	0.622	0	0	0	0	
NODE4662	OH1425_6	C	Node	7.29Y	121.5	0.00	4.53	0.00	0	0	0	100	0.00	0.0	12.866	0.622	0	0	0	0	
000052400001...	OH1399_6	C	Consumer	7.29Y	121.5	0.00	4.52	0.00	0	0	0	100	0.00	0.0	12.525	0.622	0	0	0	0	
000052400001...	OH1399_6	C	Consumer	7.29Y	121.5	0.00	4.52	0.05	0	0	0	100	0.00	0.0	12.525	0.622	0	0	1	1	
000052400001...	OH1399_6	C	Consumer	7.29Y	121.5	0.00	4.52	0.35	0	3	0	100	0.00	0.0	12.410	0.622	3	0	1	1	
000052400001...	OH1428_6	C	Consumer	7.29Y	121.5	0.00	4.52	0.00	0	0	0	100	0.00	0.0	12.171	0.622	11	-1	1	1	
999052400001...	OH1429_6	C	Consumer	7.29Y	121.6	0.00	4.43	1.47	0	11	-1	-100	0.00	0.0	12.171	0.622	4	0	1	1	
000052400001...	OH1429_6	C	Consumer	7.29Y	121.6	0.00	4.43	0.54	0	4	0	100	0.00	0.0	12.004	0.622	4	0	1	1	
000052400001...	OH1430_6	C	Consumer	7.30Y	121.7	0.00	4.30	0.59	0	4	0	100	0.00	0.0	12.004	0.622	0	0	0	0	
000052400001...	OH1430_6	C	Consumer	7.30Y	121.7	0.00	4.30	0.00	0	0	0	100	0.00	0.0	12.004	0.622	2	0	1	1	
000052400001...	OH1430_6	C	Consumer	7.30Y	121.7	0.00	4.30	0.26	0	2	0	100	0.00	0.0	12.004	0.622	0	0	0	0	
000052400001...	OH1401_6	C	Consumer	7.30Y	121.7	0.00	4.27	0.00	0	0	0	100	0.00	0.0	11.964	0.622	0	0	0	0	
000052400001...	OH1402_6	C	Consumer	7.31Y	121.8	0.00	4.24	0.52	0	4	0	100	0.00	0.0	11.922	0.622	4	0	1	1	
000052400001...	OH1402_6	C	Consumer	7.31Y	121.8	0.00	4.24	1.56	0	11	-1	-100	0.00	0.0	11.922	0.622	11	-1	1	1	
999052400001...	OH1402_6	C	Consumer	7.31Y	121.8	0.00	4.24	0.00	0	0	0	100	0.00	0.0	11.749	0.622	0	0	0	0	
999052400001...	OH1404_6	C	Consumer	7.31Y	121.9	0.00	4.09	0.00	0	0	0	100	0.00	0.0	11.749	0.622	0	0	1	1	
000052400001...	OH1404_6	C	Consumer	7.31Y	121.9	0.00	4.09	0.00	0	0	0	100	0.00	0.0	11.749	0.622	0	0	1	1	

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts													-----Element-----							
		-Base Voltage:120.0-													mi		Length		Cons		Cons	
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	(mi)	KW	KVAR	On	Thru		
000052400001...	OH1431_6	C	Consumer	7.32Y	122.0	0.00	3.98	0.00	0	0	0	100	0.00	0.0	11.621	0.622	0	0	0	0		
000052400001...	OH1431_6	C	Consumer	7.32Y	122.0	0.00	3.98	0.00	0	0	0	100	0.00	0.0	11.621	0.622	0	0	0	0		
000052400001...	OH1589	C	Consumer	7.33Y	122.2	0.00	3.77	0.00	0	0	0	100	0.00	0.0	11.374	0.622	0	0	0	0		
000052400001...	OH1589	C	Consumer	7.33Y	122.2	0.00	3.77	0.00	0	0	0	100	0.00	0.0	11.374	0.622	0	0	0	0		
000052400000...	OH1589	C	Consumer	7.33Y	122.2	0.00	3.77	0.00	0	0	0	100	0.00	0.0	11.374	0.622	0	0	0	0		
000052400000...	OH4661	C	Consumer	7.34Y	122.3	0.00	3.66	0.12	0	1	0	100	0.00	0.0	11.242	0.622	1	0	1	1		
000052400000...	OH4661	C	Consumer	7.34Y	122.3	0.00	3.66	2.37	0	17	-2	-99	0.00	0.0	11.242	0.622	17	-2	1	1		
000052400000...	OH4661	C	Consumer	7.34Y	122.3	0.00	3.66	0.60	0	4	0	100	0.00	0.0	11.242	0.622	4	0	1	1		
000052400000...	OH3447	A	Consumer	7.35Y	122.5	0.00	3.47	0.00	0	0	0	100	0.00	0.0	10.981	0.622	0	0	0	0		
000052400000...	OH3442	C	Consumer	7.36Y	122.6	0.00	3.41	0.01	0	0	0	100	0.00	0.0	10.881	0.622	0	0	1	1		
000052400000...	OH3442	C	Consumer	7.36Y	122.6	0.00	3.41	0.53	0	3	2	83	0.00	0.0	10.881	0.622	3	2	1	1		
000052400000...	OH3442	C	Consumer	7.36Y	122.6	0.00	3.41	0.85	0	6	-1	-99	0.00	0.0	10.881	0.622	6	-1	1	1		
000052400000...	OH3442	C	Consumer	7.36Y	122.6	0.00	3.41	0.13	0	1	0	100	0.00	0.0	10.657	0.622	1	0	1	1		
000052400000...	OH3441	C	Consumer	7.36Y	122.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	10.657	0.622	0	0	0	0		
000052400000...	OH3441	C	Consumer	7.36Y	122.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	10.657	0.622	0	0	0	0		
000052400000...	OH3441	C	Consumer	7.36Y	122.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	10.657	0.622	0	0	0	0		
000052400000...	OH3448	C	Consumer	7.37Y	122.8	0.00	3.22	0.38	0	3	0	100	0.00	0.0	10.593	0.622	3	0	1	1		
000051810109...	OH3214	A	Consumer	7.37Y	122.8	0.00	3.16	0.00	0	0	0	100	0.00	0.0	10.504	0.622	0	0	0	0		
OH29547	OH3452	C	1/0 ACSR	7.37Y	122.9	0.00	3.12	0.89	0	7	-1	-99	0.00	0.0	10.601	0.172	0	0	0	1		
000052400000...	OH29547	C	Consumer	7.37Y	122.9	0.00	3.12	0.89	0	7	-1	-99	0.00	0.0	10.601	0.172	7	-1	1	1		
000051810109...	OH3197	C	Consumer	7.37Y	122.9	0.00	3.09	0.10	0	1	0	100	0.00	0.0	10.386	0.172	1	0	1	1		
000051810109...	OH3197	C	Consumer	7.37Y	122.9	0.00	3.09	1.06	0	8	-1	-99	0.00	0.0	10.386	0.172	8	-1	1	1		
OH2779	OH2777	ABC	4 ACSR 7/1	7.38Y	122.9	0.05	3.08	12.04	9	267	-5	-100	0.10	0.0	10.408	0.104	0	0	0	34		
OH3156	OH2779	ABC	4 ACSR 7/1	7.37Y	122.9	0.01	3.09	12.04	9	266	-5	-100	0.02	0.0	10.430	0.022	0	0	0	34		
OH2780	OH3156	ABC	4 ACSR 7/1	7.37Y	122.8	0.07	3.16	12.04	9	266	-5	-100	0.15	0.1	10.585	0.156	0	0	0	34		
OH3107	OH2780	A	OH_Digitiz	7.37Y	122.8	0.00	3.16	0.00	0	0	0	100	0.00	0.0	10.663	0.078	0	0	0	0		
000051810109...	OH3107	A	Consumer	7.37Y	122.8	0.00	3.16	0.00	0	0	0	100	0.00	0.0	10.663	0.078	0	0	0	0		
OH2781	OH2780	ABC	4 ACSR 7/1	7.37Y	122.8	0.02	3.18	12.04	9	266	-5	-100	0.05	0.0	10.637	0.051	0	0	0	33		
OH3158	OH2781	ABC	4 ACSR 7/1	7.36Y	122.7	0.07	3.26	12.04	9	266	-5	-100	0.16	0.1	10.804	0.167	0	0	0	32		
OH2782	OH3158	ABC	4 ACSR 7/1	7.36Y	122.7	0.07	3.33	11.87	8	262	-5	-100	0.15	0.1	10.967	0.163	0	0	0	31		
OH3404	OH2782	A	OH_Digitiz	7.36Y	122.7	0.00	3.33	0.00	0	0	0	100	0.00	0.0	11.087	0.120	0	0	0	0		
OH3403	OH3404	A	OH_Digitiz	7.36Y	122.7	0.00	3.33	0.00	0	0	0	100	0.00	0.0	11.165	0.078	0	0	0	0		
000051800008...	OH3403	A	Consumer	7.36Y	122.7	0.00	3.33	0.00	0	0	0	100	0.00	0.0	11.165	0.078	0	0	0	0		
000051800008...	OH3404	A	Consumer	7.36Y	122.7	0.00	3.33	0.00	0	0	0	100	0.00	0.0	11.087	0.078	0	0	0	0		
OH3217	OH2782	ABC	4 ACSR 7/1	7.35Y	122.5	0.16	3.49	11.87	8	262	-5	-100	0.34	0.1	11.330	0.364	0	0	0	31		
OH3222	OH3217	ABC	4 ACSR 7/1	7.35Y	122.4	0.09	3.58	11.87	8	262	-5	-100	0.20	0.1	11.541	0.211	0	0	0	31		
OH3227	OH3222	ABC	4 ACSR 7/1	7.34Y	122.4	0.05	3.63	11.87	8	262	-5	-100	0.11	0.0	11.656	0.115	0	0	0	31		
OH3230	OH3227	A	OH_Digitiz	7.34Y	122.4	0.00	3.63	0.00	0	0	0	100	0.00	0.0	12.059	0.403	0	0	0	1		

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OH3398	OH3230	A	OH_Digitiz	7.34Y	122.4	0.00	3.63	0.00	0	0	100	0.00	0.0	12.186	0.127	0	0	0	1	
000051800008...	OH3398	A	Consumer	7.34Y	122.4	0.00	3.63	0.00	0	0	100	0.00	0.0	12.186	0.127	0	0	0	0	
000051800008...	OH3398	A	Consumer	7.34Y	122.4	0.00	3.63	0.00	0	0	100	0.00	0.0	12.186	0.127	0	0	1	1	
OH3231	OH3230	A	OH_Digitiz	7.34Y	122.4	0.00	3.63	0.00	0	0	100	0.00	0.0	12.385	0.326	0	0	0	0	
OH3232	OH3231	A	OH_Digitiz	7.34Y	122.4	0.00	3.63	0.00	0	0	100	0.00	0.0	12.528	0.143	0	0	0	0	
OH3233	OH3232	A	OH_Digitiz	7.34Y	122.4	0.00	3.63	0.00	0	0	100	0.00	0.0	12.638	0.110	0	0	0	0	
000051800008...	OH3233	A	Consumer	7.34Y	122.4	0.00	3.63	0.00	0	0	100	0.00	0.0	12.638	0.110	0	0	0	0	
000051800008...	OH3231	A	Consumer	7.34Y	122.4	0.00	3.63	0.00	0	0	100	0.00	0.0	12.385	0.110	0	0	0	0	
OH3228	OH3227	ABC	OH_Digitiz	7.34Y	122.4	0.00	3.63	0.75	75	16	3	98	0.00	0.0	11.794	0.137	0	0	0	4
OH3241	OH3228	ABC	OH_Digitiz	7.34Y	122.4	0.00	3.63	0.01	1	0	0	100	0.00	0.0	11.868	0.075	0	0	0	1
OH3229	OH3241	C	OH_Digitiz	7.34Y	122.4	0.00	3.63	0.00	0	0	0	100	0.00	0.0	11.926	0.058	0	0	0	0
000051810108...	OH3229	C	Consumer	7.34Y	122.4	0.00	3.63	0.00	0	0	0	100	0.00	0.0	11.926	0.058	0	0	0	0
000051810108...	OH3241	ABC	Consumer	7.34Y	122.4	0.00	3.63	0.01	0	0	0	100	0.00	0.0	11.868	0.058	0	0	1	1
000051810108...	OH3228	C	Consumer	7.34Y	122.4	0.00	3.63	1.28	0	9	-1	-99	0.00	0.0	11.794	0.058	9	-1	1	1
000051810108...	OH3228	C	Consumer	7.34Y	122.4	0.00	3.63	0.84	0	6	3	89	0.00	0.0	11.794	0.058	6	3	1	1
000051810108...	OH3228	ABC	Consumer	7.34Y	122.4	0.00	3.63	0.06	0	1	1	71	0.00	0.0	11.794	0.058	1	1	1	1
OCR-1015	OH3227	A	35-H OCR	7.34Y	122.4	0.00	3.63	33.39	0	245	-8	-100	0.00	0.0	11.656	0.058	0	0	0	26
OH3226	OCR-1015	A	4 ACSR 7/1	7.32Y	121.9	0.43	4.06	33.39	24	245	-8	-100	0.88	0.4	11.974	0.318	0	0	0	26
OH3413	OH3226	A	4 ACSR 7/1	7.29Y	121.5	0.48	4.54	33.39	24	244	-8	-100	0.99	0.4	12.331	0.356	0	0	0	26
OH3481	OH3413	A	4 ACSR 7/1	7.29Y	121.5	0.00	4.54	0.00	0	0	0	100	0.00	0.0	12.427	0.096	0	0	0	0
000051800008...	OH3481	A	Consumer	7.29Y	121.5	0.00	4.54	0.00	0	0	0	100	0.00	0.0	12.427	0.096	0	0	0	0
OH3416	OH3413	A	4 ACSR 7/1	7.29Y	121.4	0.04	4.58	33.39	24	243	-9	-100	0.08	0.0	12.359	0.029	0	0	0	26
OH3414	OH3416	A	4 ACSR 7/1	7.28Y	121.3	0.09	4.67	33.05	24	241	-9	-100	0.19	0.1	12.429	0.070	0	0	0	25
OH3415	OH3414	A	4 ACSR 7/1	7.28Y	121.3	0.07	4.75	31.75	23	231	-8	-100	0.14	0.1	12.486	0.057	0	0	0	24
OH3491	OH3415	A	4 ACSR 7/1	7.26Y	121.0	0.26	5.00	31.50	22	229	-8	-100	0.49	0.2	12.687	0.201	0	0	0	23
OH3417	OH3491	A	4 ACSR 7/1	7.24Y	120.7	0.27	5.28	30.70	22	223	-8	-100	0.51	0.2	12.905	0.218	0	0	0	22
OH3418	OH3417	A	4 ACSR 7/1	7.24Y	120.7	0.04	5.31	28.69	20	208	-7	-100	0.07	0.0	12.939	0.034	0	0	0	20
OH3424	OH3418	A	4 ACSR 7/1	7.24Y	120.7	0.00	5.32	0.39	0	3	0	100	0.00	0.0	13.047	0.107	0	0	0	1
000051800007...	OH3424	A	Consumer	7.24Y	120.7	0.00	5.32	0.39	0	3	0	100	0.00	0.0	13.047	0.107	3	0	1	1
OH3420	OH3418	A	4 ACSR 7/1	7.24Y	120.6	0.08	5.40	28.29	20	205	-6	-100	0.15	0.1	13.013	0.074	0	0	0	19
OH3425	OH3420	A	4 ACSR 7/1	7.24Y	120.6	0.01	5.41	2.35	2	17	-2	-99	0.00	0.0	13.088	0.075	0	0	0	2
000051800007...	OH3425	A	Consumer	7.24Y	120.6	0.00	5.41	0.99	0	7	-1	-99	0.00	0.0	13.088	0.075	7	-1	1	1
000051800007...	OH3425	A	Consumer	7.24Y	120.6	0.00	5.41	1.36	0	10	-1	-100	0.00	0.0	13.088	0.075	10	-1	1	1
OH3419	OH3420	A	4 ACSR 7/1	7.23Y	120.5	0.10	5.50	25.95	19	188	-5	-100	0.15	0.1	13.105	0.092	0	0	0	17
OH3474	OH3419	A	4 ACSR 7/1	7.23Y	120.5	0.01	5.51	3.62	3	24	9	94	0.00	0.0	13.187	0.081	0	0	0	2
OH3473	OH3474	A	4 ACSR 7/1	7.23Y	120.5	0.02	5.53	3.62	3	24	9	94	0.00	0.0	13.325	0.138	0	0	0	2
OH3421	OH3473	A	4 ACSR 7/1	7.23Y	120.4	0.03	5.56	3.11	2	20	10	89	0.00	0.0	13.503	0.178	0	0	0	1

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts											mi		-----Element-----					
		-Base Voltage:120.0-											From	Length			Cons	Cons		
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	Src	(mi)	KW	KVAR	On	Thru
000051800007...	OH3421	A	Consumer	7.23Y	120.4	0.00	5.56	3.11	0	20	10	89	0.00	0.0	13.503	0.178	20	10	1	1
000051800007...	OH3473	A	Consumer	7.23Y	120.5	0.00	5.53	0.58	0	4	0	100	0.00	0.0	13.325	0.178	4	0	1	1
000051800007...	OH3473	A	Consumer	7.23Y	120.5	0.00	5.53	0.00	0	0	0	100	0.00	0.0	13.325	0.178	0	0	0	0
000051800007...	OH3474	A	Consumer	7.23Y	120.5	0.00	5.51	0.00	0	0	0	100	0.00	0.0	13.187	0.178	0	0	0	0
OH3426	OH3419	A	4 ACSR 7/1	7.22Y	120.3	0.18	5.68	20.33	15	146	-13	-100	0.24	0.2	13.338	0.233	0	0	0	13
OH3466	OH3426	A	4 ACSR 7/1	7.22Y	120.3	0.00	5.68	0.00	0	0	0	100	0.00	0.0	13.458	0.119	0	0	0	0
000051800007...	OH3466	A	Consumer	7.22Y	120.3	0.00	5.68	0.00	0	0	0	100	0.00	0.0	13.458	0.119	0	0	0	0
OH3427	OH3426	A	4 ACSR 7/1	7.20Y	120.1	0.23	5.92	20.33	15	146	-13	-100	0.30	0.2	13.634	0.296	0	0	0	13
OH3519	OH3427	A	4 ACSR 7/1	7.20Y	120.1	0.00	5.92	0.00	0	0	0	100	0.00	0.0	13.738	0.104	0	0	0	0
OH3453	OH3519	A	4 ACSR 7/1	7.20Y	120.1	0.00	5.92	0.00	0	0	0	100	0.00	0.0	13.913	0.175	0	0	0	0
000051800007...	OH3453	A	Consumer	7.20Y	120.1	0.00	5.92	0.00	0	0	0	100	0.00	0.0	13.913	0.175	0	0	0	0
000051800007...	OH3519	A	Consumer	7.20Y	120.1	0.00	5.92	0.00	0	0	0	100	0.00	0.0	13.738	0.175	0	0	0	0
OH3428	OH3427	A	4 ACSR 7/1	7.20Y	120.0	0.04	5.95	18.24	13	131	-12	-100	0.04	0.0	13.685	0.051	0	0	0	11
OH3429	OH3428	A	4 ACSR 7/1	7.20Y	120.0	0.07	6.02	17.53	13	126	-11	-100	0.07	0.1	13.783	0.098	0	0	0	10
OH3454	OH3429	A	4 ACSR 7/1	7.20Y	119.9	0.03	6.05	17.53	13	126	-11	-100	0.04	0.0	13.831	0.048	0	0	0	10
OH3462	OH3454	A	4 ACSR 7/1	7.20Y	119.9	0.01	6.06	2.03	1	15	-1	-100	0.00	0.0	13.934	0.103	0	0	0	1
OH3455	OH3462	A	4 ACSR 7/1	7.20Y	119.9	0.01	6.07	2.03	1	15	-1	-100	0.00	0.0	14.047	0.113	0	0	0	1
000051800006...	OH3455	A	Consumer	7.20Y	119.9	0.00	6.07	2.03	0	15	-1	-100	0.00	0.0	14.047	0.113	15	-1	1	1
000051800006...	OH3462	A	Consumer	7.20Y	119.9	0.00	6.06	0.00	0	0	0	100	0.00	0.0	13.934	0.113	0	0	0	0
OH3430	OH3454	A	4 ACSR 7/1	7.20Y	119.9	0.02	6.08	15.51	11	111	-10	-100	0.02	0.0	13.871	0.041	0	0	0	9
OH3431	OH3430	A	4 ACSR 7/1	7.19Y	119.9	0.04	6.12	13.59	10	97	-9	-100	0.04	0.0	13.948	0.076	0	0	0	7
OH3432	OH3431	A	4 ACSR 7/1	7.19Y	119.8	0.06	6.17	13.59	10	97	-9	-100	0.05	0.1	14.056	0.108	0	0	0	7
OH3433	OH3432	A	4 ACSR 7/1	7.19Y	119.8	0.03	6.20	10.26	7	73	-7	-100	0.02	0.0	14.127	0.071	0	0	0	6
OH3444	OH3433	A	4 ACSR 7/1	7.19Y	119.8	0.01	6.21	2.33	2	17	-2	-99	0.00	0.0	14.253	0.126	0	0	0	1
000051800006...	OH3444	A	Consumer	7.19Y	119.8	0.00	6.21	2.33	0	17	-2	-99	0.00	0.0	14.253	0.126	17	-2	1	1
OH3443	OH3433	A	4 ACSR 7/1	7.19Y	119.8	0.00	6.20	0.00	0	0	0	100	0.00	0.0	14.281	0.154	0	0	0	0
000051800006...	OH3443	A	Consumer	7.19Y	119.8	0.00	6.20	0.00	0	0	0	100	0.00	0.0	14.281	0.154	0	0	0	0
OH3434	OH3433	A	4 ACSR 7/1	7.19Y	119.8	0.04	6.24	7.93	6	57	-5	-100	0.02	0.0	14.251	0.124	0	0	0	5
OH3446	OH3434	A	4 ACSR 7/1	7.19Y	119.8	0.01	6.25	0.77	1	5	-1	-98	0.00	0.0	14.524	0.274	0	0	0	1
000051800006...	OH3446	A	Consumer	7.19Y	119.8	0.00	6.25	0.77	0	5	-1	-98	0.00	0.0	14.524	0.274	5	-1	1	1
OH3435	OH3434	A	4 ACSR 7/1	7.18Y	119.7	0.01	6.25	3.97	3	28	-3	-99	0.00	0.0	14.308	0.057	0	0	0	2
OH3449	OH3435	A	4 ACSR 7/1	7.18Y	119.7	0.00	6.25	0.00	0	0	0	100	0.00	0.0	14.409	0.101	0	0	0	0
000051800006...	OH3449	A	Consumer	7.18Y	119.7	0.00	6.25	0.00	0	0	0	100	0.00	0.0	14.409	0.101	0	0	0	0
OH3445	OH3435	A	4 ACSR 7/1	7.18Y	119.7	0.00	6.25	0.00	0	0	0	100	0.00	0.0	14.435	0.127	0	0	0	0
000051800006...	OH3445	A	Consumer	7.18Y	119.7	0.00	6.25	0.00	0	0	0	100	0.00	0.0	14.435	0.127	0	0	0	0
OH3436	OH3435	A	4 ACSR 7/1	7.18Y	119.7	0.02	6.27	3.97	3	28	-3	-99	0.01	0.0	14.465	0.156	0	0	0	2
OH3437	OH3436	A	4 ACSR 7/1	7.18Y	119.7	0.00	6.27	0.00	0	0	0	100	0.00	0.0	14.679	0.214	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts														-----Element-----				
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OH2382	OH3437	A	4 ACSR 7/1	7.18Y	119.7	0.00	6.27	0.00	0	0	0	100	0.00	0.0	14.740	0.061	0	0	0	0
000051800006...	OH3437	A	Consumer	7.18Y	119.7	0.00	6.27	0.00	0	0	0	100	0.00	0.0	14.679	0.061	0	0	0	0
000051800006...	OH3436	A	Consumer	7.18Y	119.7	0.00	6.27	2.08	0	15	-1	-100	0.00	0.0	14.465	0.061	15	-1	1	1
000051800006...	OH3436	A	Consumer	7.18Y	119.7	0.00	6.27	0.00	0	0	0	100	0.00	0.0	14.465	0.061	0	0	0	0
000051800006...	OH3436	A	Consumer	7.18Y	119.7	0.00	6.27	0.00	0	0	0	100	0.00	0.0	14.465	0.061	0	0	0	0
000051800006...	OH3436	A	Consumer	7.18Y	119.7	0.00	6.27	1.89	0	14	-1	-100	0.00	0.0	14.465	0.061	14	-1	1	1
000051800006...	OH3435	A	Consumer	7.18Y	119.7	0.00	6.25	0.00	0	0	0	100	0.00	0.0	14.308	0.061	0	0	0	0
000051800006...	OH3434	A	Consumer	7.19Y	119.8	0.00	6.24	1.91	0	14	-1	-100	0.00	0.0	14.251	0.061	14	-1	1	1
000051800006...	OH3434	A	Consumer	7.19Y	119.8	0.00	6.24	1.28	0	9	-1	-99	0.00	0.0	14.251	0.061	9	-1	1	1
000051800006...	OH3434	A	Consumer	7.19Y	119.8	0.00	6.24	0.00	0	0	0	100	0.00	0.0	14.251	0.061	0	0	0	0
000051800006...	OH3432	A	Consumer	7.19Y	119.8	0.00	6.17	3.34	0	24	-2	-100	0.00	0.0	14.056	0.061	24	-2	1	1
000051800006...	OH3431	A	Consumer	7.19Y	119.9	0.00	6.12	0.00	0	0	0	100	0.00	0.0	13.948	0.061	0	0	0	0
000051800006...	OH3430	A	Consumer	7.20Y	119.9	0.00	6.08	1.90	0	14	-1	-100	0.00	0.0	13.871	0.061	14	-1	1	1
000051800006...	OH3430	A	Consumer	7.20Y	119.9	0.00	6.08	0.01	0	0	0	100	0.00	0.0	13.871	0.061	0	0	1	1
000051800006...	OH3429	A	Consumer	7.20Y	120.0	0.00	6.02	0.00	0	0	0	100	0.00	0.0	13.783	0.061	0	0	0	0
000051800006...	OH3428	A	Consumer	7.20Y	120.0	0.00	5.95	0.71	0	5	0	100	0.00	0.0	13.685	0.061	5	0	1	1
000051800007...	OH3427	A	Consumer	7.20Y	120.1	0.00	5.92	1.42	0	10	-1	-100	0.00	0.0	13.634	0.061	10	-1	1	1
000051800007...	OH3427	A	Consumer	7.20Y	120.1	0.00	5.92	0.67	0	5	0	100	0.00	0.0	13.634	0.061	5	0	1	1
000051800007...	OH3426	A	Consumer	7.22Y	120.3	0.00	5.68	0.00	0	0	0	100	0.00	0.0	13.338	0.061	0	0	0	0
OH3422	OH3419	A	4 ACSR 7/1	7.23Y	120.5	0.01	5.51	2.31	2	17	-2	-99	0.00	0.0	13.197	0.091	0	0	0	2
OH3423	OH3422	A	4 ACSR 7/1	7.23Y	120.5	0.00	5.51	0.36	0	3	0	100	0.00	0.0	13.335	0.139	0	0	0	1
000051800007...	OH3423	A	Consumer	7.23Y	120.5	0.00	5.51	0.36	0	3	0	100	0.00	0.0	13.335	0.139	3	0	1	1
000051800007...	OH3422	A	Consumer	7.23Y	120.5	0.00	5.51	1.95	0	14	-1	-100	0.00	0.0	13.197	0.139	14	-1	1	1
000051800007...	OH3417	A	Consumer	7.24Y	120.7	0.00	5.28	0.00	0	0	0	100	0.00	0.0	12.905	0.139	0	0	0	0
000051800007...	OH3417	A	Consumer	7.24Y	120.7	0.00	5.28	1.50	0	11	-1	-100	0.00	0.0	12.905	0.139	11	-1	1	1
000051800007...	OH3417	A	Consumer	7.24Y	120.7	0.00	5.28	0.00	0	0	0	100	0.00	0.0	12.905	0.139	0	0	0	0
000051800007...	OH3417	A	Consumer	7.24Y	120.7	0.00	5.28	0.52	0	4	0	100	0.00	0.0	12.905	0.139	4	0	1	1
000051800007...	OH3491	A	Consumer	7.26Y	121.0	0.00	5.00	0.79	0	6	-1	-99	0.00	0.0	12.687	0.139	6	-1	1	1
000051800007...	OH3491	A	Consumer	7.26Y	121.0	0.00	5.00	0.00	0	0	0	100	0.00	0.0	12.687	0.139	0	0	0	0
000051800008...	OH3415	A	Consumer	7.28Y	121.3	0.00	4.75	0.25	0	2	0	100	0.00	0.0	12.486	0.139	2	0	1	1
000051800008...	OH3414	A	Consumer	7.28Y	121.3	0.00	4.67	1.31	0	9	-1	-99	0.00	0.0	12.429	0.139	9	-1	1	1
000051800008...	OH3416	A	Consumer	7.29Y	121.4	0.00	4.58	0.34	0	2	0	100	0.00	0.0	12.359	0.139	2	0	1	1
000051800008...	OH3416	A	Consumer	7.29Y	121.4	0.00	4.58	0.00	0	0	0	100	0.00	0.0	12.359	0.139	0	0	0	0
000051800008...	OH3226	A	Consumer	7.32Y	121.9	0.00	4.06	0.00	0	0	0	100	0.00	0.0	11.974	0.139	0	0	0	0
000051810108...	OH3227	A	Consumer	7.34Y	122.4	0.00	3.63	0.00	0	0	0	100	0.00	0.0	11.656	0.139	0	0	0	0
OH3223	OH3222	A	OH_Digitiz	7.35Y	122.4	0.00	3.58	0.00	0	0	0	100	0.00	0.0	11.656	0.115	0	0	0	0
000051810108...	OH3223	A	Consumer	7.35Y	122.4	0.00	3.58	0.00	0	0	0	100	0.00	0.0	11.656	0.115	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts														-----Element-----				
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OH3219	OH3217	A	OH_Digitiz	7.35Y	122.5	0.00	3.49	0.00	0	0	0	100	0.00	0.0	11.447	0.116	0	0	0	0
000051810108...	OH3217	A	Consumer	7.35Y	122.5	0.00	3.49	0.00	0	0	0	100	0.00	0.0	11.330	0.116	0	0	0	0
000051810109...	OH3158	C	Consumer	7.36Y	122.7	0.00	3.26	0.50	0	4	0	100	0.00	0.0	10.804	0.116	4	0	1	1
000051810109...	OH2781	C	Consumer	7.37Y	122.8	0.00	3.18	0.00	0	0	0	100	0.00	0.0	10.637	0.116	0	0	1	1
000051810109...	OH2781	C	Consumer	7.37Y	122.8	0.00	3.18	0.00	0	0	0	100	0.00	0.0	10.637	0.116	0	0	0	0
000051810109...	OH2781	C	Consumer	7.37Y	122.8	0.00	3.18	0.00	0	0	0	100	0.00	0.0	10.637	0.116	0	0	0	0
000051810109...	OH2781	C	Consumer	7.37Y	122.8	0.00	3.18	0.00	0	0	0	100	0.00	0.0	10.637	0.116	0	0	0	0
000051810109...	OH2780	B	Consumer	7.37Y	122.8	0.00	3.16	0.02	0	0	0	100	0.00	0.0	10.585	0.116	0	0	1	1
000051810109...	OH3156	A	Consumer	7.37Y	122.9	0.00	3.09	0.00	0	0	0	100	0.00	0.0	10.430	0.116	0	0	0	0
OH3106	OH2779	A	OH_Digitiz	7.38Y	122.9	0.00	3.08	0.00	0	0	0	100	0.00	0.0	10.547	0.139	0	0	0	0
000051810109...	OH3106	A	Consumer	7.38Y	122.9	0.00	3.08	0.00	0	0	0	100	0.00	0.0	10.547	0.139	0	0	0	0
000051810109...	OH3106	A	Consumer	7.38Y	122.9	0.00	3.08	0.00	0	0	0	100	0.00	0.0	10.547	0.139	0	0	0	0
000051810109...	OH2779	A	Consumer	7.38Y	122.9	0.00	3.08	0.00	0	0	0	100	0.00	0.0	10.408	0.139	0	0	0	0
000051810109...	OH2779	A	Consumer	7.38Y	122.9	0.00	3.08	0.00	0	0	0	100	0.00	0.0	10.408	0.139	0	0	0	0
000052400000...	OH2777	C	Consumer	7.38Y	123.0	0.00	3.03	0.00	0	0	0	100	0.00	0.0	10.304	0.139	0	0	0	0
000051810109...	OH2777	C	Consumer	7.38Y	123.0	0.00	3.03	0.98	0	7	-1	-99	0.00	0.0	10.304	0.139	7	-1	1	1
000052400000...	OH2778	C	Consumer	7.38Y	123.0	0.00	3.01	0.78	0	6	-1	-99	0.00	0.0	10.274	0.139	6	-1	1	1
000051810109...	OH2778	C	Consumer	7.38Y	123.0	0.00	3.01	0.00	0	0	0	100	0.00	0.0	10.274	0.139	0	0	0	0
000051810109...	OH2778	C	Consumer	7.38Y	123.0	0.00	3.01	0.69	0	5	0	100	0.00	0.0	10.274	0.139	5	0	1	1
000051810109...	OH2778	C	Consumer	7.38Y	123.0	0.00	3.01	0.00	0	0	0	100	0.00	0.0	10.274	0.139	5	0	1	1
000051810109...	OH2776	C	Consumer	7.39Y	123.1	0.00	2.88	0.00	0	0	0	100	0.00	0.0	10.128	0.139	0	0	0	0
000051810109...	OH2776	C	Consumer	7.39Y	123.1	0.00	2.88	0.00	0	0	0	100	0.00	0.0	10.128	0.139	0	0	1	1
000051810109...	OH2775	A	Consumer	7.39Y	123.2	0.00	2.79	0.00	0	0	0	100	0.00	0.0	10.024	0.139	0	0	0	0
000051810109...	OH2775	A	Consumer	7.39Y	123.2	0.00	2.79	0.00	0	0	0	100	0.00	0.0	10.024	0.139	0	0	0	0
000051810109...	OH2774	C	Consumer	7.40Y	123.3	0.00	2.72	2.71	0	20	-2	-100	0.00	0.0	9.942	0.139	20	-2	1	1
000051810109...	OH2774	C	Consumer	7.40Y	123.3	0.00	2.72	0.00	0	0	0	100	0.00	0.0	9.942	0.139	0	0	0	0
000051810109...	OH2773	A	Consumer	7.40Y	123.3	0.00	2.68	0.00	0	0	0	100	0.00	0.0	9.895	0.139	0	0	0	0
C OH3101	OH2772	B	OH_Digitiz	7.41Y	123.5	0.01	2.51	2.99	299	22	-2	-100	0.00	0.0	9.787	0.079	0	0	0	2 C
OH29101	OH3101	B	OH_Digitiz	7.41Y	123.5	0.00	2.51	0.15	15	1	0	100	0.00	0.0	9.882	0.095	0	0	0	1
000052400000...	OH29101	B	Consumer	7.41Y	123.5	0.00	2.51	0.15	0	1	0	100	0.00	0.0	9.882	0.095	1	0	1	1
000051810109...	OH3101	B	Consumer	7.41Y	123.5	0.00	2.51	2.85	0	21	-2	-100	0.00	0.0	9.787	0.095	21	-2	1	1
OH3100	OH2772	A	OH_Digitiz	7.41Y	123.5	0.00	2.51	0.71	71	5	0	100	0.00	0.0	9.802	0.094	0	0	0	1
000051810109...	OH3100	A	Consumer	7.41Y	123.5	0.00	2.51	0.71	0	5	0	100	0.00	0.0	9.802	0.094	5	0	1	1
000051810109...	OH2772	C	Consumer	7.41Y	123.5	0.00	2.50	0.00	0	0	0	100	0.00	0.0	9.708	0.094	0	0	0	0
000051810109...	OH2772	C	Consumer	7.41Y	123.5	0.00	2.50	0.00	0	0	0	100	0.00	0.0	9.708	0.094	0	0	0	0
000051810109...	OH2772	C	Consumer	7.41Y	123.5	0.00	2.50	1.02	0	8	-1	-99	0.00	0.0	9.708	0.094	8	-1	1	1
000051810109...	OH2771	A	Consumer	7.42Y	123.6	0.00	2.36	0.00	0	0	0	100	0.00	0.0	9.548	0.094	0	0	0	0
000051810109...	OH2768	C	Consumer	7.43Y	123.8	0.00	2.21	0.04	0	0	0	100	0.00	0.0	9.383	0.094	0	0	1	1

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts														-----Element-----				
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
000051810109...	OH2767	C	Consumer	7.43Y	123.8	0.00	2.16	0.94	0	7	-1	-99	0.00	0.0	9.329	0.094	7	-1	1	1
000051810109...	OH2764	C	Consumer	7.44Y	123.9	0.00	2.06	0.12	0	1	0	100	0.00	0.0	9.221	0.094	1	0	1	1
000051810109...	OH2761	C	Consumer	7.46Y	124.4	0.00	1.60	0.00	0	0	0	100	0.00	0.0	8.738	0.094	0	0	0	0
000051810109...	OH2761	C	Consumer	7.46Y	124.4	0.00	1.60	2.62	0	19	-2	-99	0.00	0.0	8.738	0.094	19	-2	1	1
000051810109...	OH2761	C	Consumer	7.46Y	124.4	0.00	1.60	0.00	0	0	0	100	0.00	0.0	8.738	0.094	0	0	0	0
000051810109...	OH2761	C	Consumer	7.46Y	124.4	0.00	1.60	0.00	0	0	0	100	0.00	0.0	8.738	0.094	0	0	0	0
000051810109...	OH2762	A	Consumer	7.47Y	124.5	0.00	1.55	0.00	0	0	0	100	0.00	0.0	8.679	0.094	0	0	0	0
000051810109...	OH2757	B	Consumer	7.47Y	124.5	0.00	1.46	1.97	0	15	-1	-100	0.00	0.0	8.596	0.094	15	-1	1	1
000051810109...	OH2756	B	Consumer	7.48Y	124.6	0.00	1.37	0.00	0	0	0	100	0.00	0.0	8.499	0.094	0	0	0	0
000051810109...	OH2756	B	Consumer	7.48Y	124.6	0.00	1.37	0.33	0	2	0	100	0.00	0.0	8.499	0.094	2	0	1	1
000051810109...	OH2756	B	Consumer	7.48Y	124.6	0.00	1.37	0.00	0	0	0	100	0.00	0.0	8.499	0.094	0	0	0	0
000051810108...	OH2755	C	Consumer	7.49Y	124.8	0.00	1.18	1.99	0	15	-1	-100	0.00	0.0	8.302	0.094	15	-1	1	1
000051810108...	OH2755	C	Consumer	7.49Y	124.8	0.00	1.18	1.45	0	11	-1	-100	0.00	0.0	8.302	0.094	11	-1	1	1
000051810108...	OH2753	A	Consumer	7.51Y	125.1	0.00	0.88	0.00	0	0	0	100	0.00	0.0	8.012	0.094	0	0	0	0
000051810108...	OH3021	C	Consumer	7.51Y	125.2	0.00	0.84	4.44	0	33	-3	-100	0.00	0.0	7.971	0.094	33	-3	1	1
000051810108...	OH3021	C	Consumer	7.51Y	125.2	0.00	0.84	1.45	0	11	-1	-100	0.00	0.0	7.971	0.094	11	-1	1	1
000051810108...	OH3021	C	Consumer	7.51Y	125.2	0.00	0.84	0.18	0	1	0	100	0.00	0.0	7.971	0.094	1	0	1	1
OH2806	OH2750	A	OH_Digitiz	7.51Y	125.2	0.00	0.81	0.00	0	0	0	100	0.00	0.0	8.191	0.249	0	0	0	0
000051810109...	OH2806	A	Consumer	7.51Y	125.2	0.00	0.81	0.00	0	0	0	100	0.00	0.0	8.191	0.249	0	0	0	0
000051810109...	OH2806	A	Consumer	7.51Y	125.2	0.00	0.81	0.00	0	0	0	100	0.00	0.0	8.191	0.249	0	0	0	0
000051810108...	OH2751	C	Consumer	7.52Y	125.4	0.00	0.62	0.87	0	7	-1	-99	0.00	0.0	7.769	0.249	7	-1	1	1
000051810108...	OH2748	A	Consumer	7.54Y	125.6	0.00	0.38	0.00	0	0	0	100	0.00	0.0	7.539	0.249	0	0	0	0
000061330508...	OH2785	A	Consumer	7.54Y	125.7	0.00	0.34	0.00	0	0	0	100	0.00	0.0	7.505	0.249	0	0	0	0
000061330508...	OH2795	A	Consumer	7.54Y	125.7	0.00	0.27	0.00	0	0	0	100	0.00	0.0	7.439	0.249	0	0	0	0
OH2783	OH2747	A	OH_Digitiz	7.55Y	125.8	0.00	0.17	0.48	48	4	0	100	0.00	0.0	7.465	0.121	0	0	0	1
000061330508...	OH2783	A	Consumer	7.55Y	125.8	0.00	0.17	0.48	0	4	0	100	0.00	0.0	7.465	0.121	4	0	1	1
000061330508...	OH2747	A	Consumer	7.55Y	125.8	0.00	0.17	0.00	0	0	0	100	0.00	0.0	7.344	0.121	0	0	0	0
000061330508...	OH2747	A	Consumer	7.55Y	125.8	0.00	0.17	0.00	0	0	0	100	0.00	0.0	7.344	0.121	0	0	0	0
OH1828	REG3701	A	4 ACSR 7/1	7.56Y	126.0	0.00	0.02	0.00	0	0	0	100	0.00	0.0	7.334	0.132	0	0	0	0
OH2810	OH1828	A	1/0 ACSR	7.56Y	126.0	0.00	0.02	0.00	0	0	0	100	0.00	0.0	7.439	0.105	0	0	0	0
000061330508...	OH2810	A	Consumer	7.56Y	126.0	0.00	0.02	0.00	0	0	0	100	0.00	0.0	7.439	0.105	0	0	0	0
OH2809	OH1828	A	1/0 ACSR	7.56Y	126.0	0.00	0.02	0.00	0	0	0	100	0.00	0.0	7.565	0.230	0	0	0	0
000061330508...	REG3701	A	Consumer	7.56Y	126.0	0.00	0.02	0.00	0	0	0	100	0.00	0.0	7.203	0.230	0	0	0	0
000061330508...	REG3701	A	Consumer	7.56Y	126.0	0.00	0.02	0.00	0	0	0	100	0.00	0.0	7.203	0.230	0	0	1	1
C OH2739	OH2738	B	OH_Digitiz	7.12Y	118.7	0.01	7.25	1.47	147	10	-1	-100	0.00	0.0	6.759	0.117	0	0	0	2
000061330508...	OH2739	B	Consumer	7.12Y	118.7	0.00	7.25	0.56	0	4	0	100	0.00	0.0	6.759	0.117	4	0	1	1
000061330508...	OH2739	B	Consumer	7.12Y	118.7	0.00	7.25	0.90	0	6	-1	-99	0.00	0.0	6.759	0.117	6	-1	1	1
OH2731	OH2564	C	OH_Digitiz	7.14Y	119.0	0.00	7.03	0.58	58	4	2	89	0.00	0.0	6.565	0.111	0	0	0	2

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts											mi		-----Element-----					
		-Base Voltage:120.0-											From	Length			Cons	Cons		
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	Src	(mi)	KW	KVAR	On	Thru
OH2732	OH2731	C	OH_Digitiz	7.14Y	119.0	0.00	7.03	0.05	5	0	0	100	0.00	0.0	6.629	0.064	0	0	0	1
000061330508...	OH2732	C	Consumer	7.14Y	119.0	0.00	7.03	0.05	0	0	0	100	0.00	0.0	6.629	0.064	0	0	1	1
000061330508...	OH2732	C	Consumer	7.14Y	119.0	0.00	7.03	0.00	0	0	0	100	0.00	0.0	6.629	0.064	0	0	0	0
000061330508...	OH2731	C	Consumer	7.14Y	119.0	0.00	7.03	0.53	0	3	2	83	0.00	0.0	6.565	0.064	3	2	1	1
C OH2653	OH2564	C	OH_Digitiz	7.13Y	118.9	0.07	7.10	7.36	736	52	-5	-100	0.03	0.1	6.711	0.258	0	0	0	9 C
C OH2648	OH2653	C	OH_Digitiz	7.13Y	118.9	0.01	7.11	7.36	736	52	-5	-100	0.00	0.0	6.736	0.024	0	0	0	9 C
OH2654	OH2648	C	OH_Digitiz	7.13Y	118.9	0.00	7.11	0.00	0	0	0	100	0.00	0.0	6.784	0.049	0	0	0	1
000061330509...	OH2654	C	Consumer	7.13Y	118.9	0.00	7.11	0.00	0	0	0	100	0.00	0.0	6.784	0.049	0	0	1	1
C OH2652	OH2648	C	OH_Digitiz	7.13Y	118.9	0.01	7.12	6.50	650	46	-4	-100	0.01	0.0	6.789	0.054	0	0	0	7 C
C OH2651	OH2652	C	OH_Digitiz	7.13Y	118.9	0.01	7.14	6.50	650	46	-4	-100	0.01	0.0	6.838	0.049	0	0	0	7 C
OH2656	OH2651	C	OH_Digitiz	7.13Y	118.9	0.00	7.14	0.00	0	0	0	100	0.00	0.0	6.931	0.093	0	0	0	1
000061330509...	OH2656	C	Consumer	7.13Y	118.9	0.00	7.14	0.00	0	0	0	100	0.00	0.0	6.931	0.093	0	0	1	1
C OH2655	OH2651	C	OH_Digitiz	7.13Y	118.9	0.01	7.14	2.38	238	17	-2	-99	0.00	0.0	6.913	0.075	0	0	0	2 C
C OH2713	OH2655	C	OH_Digitiz	7.13Y	118.9	0.00	7.15	2.38	238	17	-2	-99	0.00	0.0	6.954	0.042	0	0	0	1 C
000061330509...	OH2713	C	Consumer	7.13Y	118.9	0.00	7.15	2.38	0	17	-2	-99	0.00	0.0	6.954	0.042	17	-2	1	1
000061330509...	OH2655	C	Consumer	7.13Y	118.9	0.00	7.14	0.00	0	0	0	100	0.00	0.0	6.913	0.042	0	0	1	1
C OH2650	OH2651	C	OH_Digitiz	7.13Y	118.8	0.02	7.15	4.12	412	29	-3	-99	0.01	0.0	6.959	0.121	0	0	0	4 C
C OH2657	OH2650	C	OH_Digitiz	7.13Y	118.8	0.01	7.16	2.18	218	15	-1	-100	0.00	0.0	7.070	0.111	0	0	0	3 C
OH2658	OH2657	C	OH_Digitiz	7.13Y	118.8	0.01	7.17	0.78	78	6	-1	-99	0.00	0.0	7.316	0.246	0	0	0	2
OH30247	OH2658	C	OH_Digitiz	7.13Y	118.8	0.00	7.17	0.00	0	0	0	100	0.00	0.0	7.358	0.042	0	0	0	1
000061330509...	OH30247	C	Consumer	7.13Y	118.8	0.00	7.17	0.00	0	0	0	100	0.00	0.0	7.358	0.042	0	0	1	1
000061330509...	OH2658	C	Consumer	7.13Y	118.8	0.00	7.17	0.78	0	6	-1	-99	0.00	0.0	7.316	0.042	6	-1	1	1
000061330509...	OH2657	C	Consumer	7.13Y	118.8	0.00	7.16	1.41	0	10	-1	-100	0.00	0.0	7.070	0.042	10	-1	1	1
C OH2649	OH2650	C	OH_Digitiz	7.13Y	118.8	0.00	7.16	1.93	193	14	-1	-100	0.00	0.0	7.006	0.047	0	0	0	1 C
000061330509...	OH2649	C	Consumer	7.13Y	118.8	0.00	7.16	1.93	0	14	-1	-100	0.00	0.0	7.006	0.047	14	-1	1	1
000061330509...	OH2651	C	Consumer	7.13Y	118.9	0.00	7.14	0.00	0	0	0	100	0.00	0.0	6.838	0.047	0	0	0	0
000061330509...	OH2652	C	Consumer	7.13Y	118.9	0.00	7.12	0.00	0	0	0	100	0.00	0.0	6.789	0.047	0	0	0	0
000061330509...	OH2648	C	Consumer	7.13Y	118.9	0.00	7.11	0.86	0	6	-1	-99	0.00	0.0	6.736	0.047	6	-1	1	1
000061330509...	OH2648	C	Consumer	7.13Y	118.9	0.00	7.11	0.00	0	0	0	100	0.00	0.0	6.736	0.047	0	0	0	0
000061330508...	OH2564	A	Consumer	7.14Y	119.0	0.00	7.03	0.00	0	0	0	100	0.00	0.0	6.453	0.047	0	0	0	0
000061330509...	OH2560	A	Consumer	7.15Y	119.2	0.00	6.84	0.00	0	0	0	100	0.00	0.0	6.293	0.047	0	0	0	0
000061330509...	OH2585	A	Consumer	7.15Y	119.2	0.00	6.77	0.00	0	0	0	100	0.00	0.0	6.146	0.047	0	0	0	0
000061330509...	OH2567	C	Consumer	7.16Y	119.4	0.00	6.62	0.51	0	4	0	100	0.00	0.0	5.818	0.047	4	0	1	1
C OH2396	OH2391	A	OH_Digitiz	7.16Y	119.4	0.01	6.59	2.15	215	15	-1	-100	0.00	0.0	5.896	0.157	0	0	0	1 C
000061900000...	OH2396	A	Consumer	7.16Y	119.4	0.00	6.59	2.15	0	15	-1	-100	0.00	0.0	5.896	0.157	15	-1	1	1
000061900000...	OH2396	A	Consumer	7.16Y	119.4	0.00	6.59	0.00	0	0	0	100	0.00	0.0	5.896	0.157	0	0	0	0
C OH2392	OH2391	A	OH_Digitiz	7.16Y	119.4	0.00	6.58	1.07	107	8	-1	-99	0.00	0.0	5.860	0.121	0	0	0	1 C

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts													-----Element-----					
		-Base Voltage:120.0-													mi				Cons Cons	
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	On	Thru
000061900000...	OH2392	A	Consumer	7.16Y	119.4	0.00	6.58	0.00	0	0	0	100	0.00	0.0	5.860	0.121	0	0	0	0
000061900000...	OH2392	A	Consumer	7.16Y	119.4	0.00	6.58	1.07	0	8	-1	-99	0.00	0.0	5.860	0.121	8	-1	1	1
000061900000...	OH2390	A	Consumer	7.18Y	119.6	0.00	6.41	0.00	0	0	0	100	0.00	0.0	5.376	0.121	0	0	0	0
000061900000...	OH2389	A	Consumer	7.18Y	119.7	0.00	6.34	0.00	0	0	0	100	0.00	0.0	5.242	0.121	0	0	0	0
000061900000...	OH2389	A	Consumer	7.18Y	119.7	0.00	6.34	0.00	0	0	0	100	0.00	0.0	5.242	0.121	0	0	0	0
OH2380	OH2308	C	6A CWC 3 S	7.17Y	119.6	0.15	6.43	19.46	14	139	-13	-100	0.18	0.1	5.319	0.195	0	0	0	19
OH2428	OH2380	C	6A CWC 3 S	7.17Y	119.5	0.09	6.53	16.36	12	117	-11	-100	0.10	0.1	5.469	0.151	0	0	0	17
OH2445	OH2428	C	6A CWC 3 S	7.16Y	119.4	0.12	6.64	12.02	9	86	-8	-100	0.09	0.1	5.726	0.257	0	0	0	14
OH2458	OH2445	C	6A CWC 3 S	7.16Y	119.3	0.02	6.66	4.95	4	35	-3	-100	0.01	0.0	5.826	0.100	0	0	0	9
OH2543	OH2458	C	6A CWC 3 S	7.16Y	119.3	0.01	6.67	2.87	2	20	-2	-100	0.00	0.0	5.879	0.053	0	0	0	6
OH2544	OH2543	C	6A CWC 3 S	7.16Y	119.3	0.03	6.70	2.81	2	20	-2	-100	0.01	0.0	6.143	0.264	0	0	0	3
OH2545	OH2544	C	6A CWC 3 S	7.16Y	119.3	0.02	6.72	1.88	1	13	-1	-100	0.00	0.0	6.422	0.279	0	0	0	2
000052400001...	OH2545	C	Consumer	7.16Y	119.3	0.00	6.72	0.00	0	0	0	100	0.00	0.0	6.422	0.279	0	0	1	1
000052400001...	OH2545	C	Consumer	7.16Y	119.3	0.00	6.72	1.88	0	13	-1	-100	0.00	0.0	6.422	0.279	13	-1	1	1
000052400001...	OH2545	C	Consumer	7.16Y	119.3	0.00	6.72	0.00	0	0	0	100	0.00	0.0	6.422	0.279	0	0	0	0
000052400001...	OH2545	C	Consumer	7.16Y	119.3	0.00	6.72	0.00	0	0	0	100	0.00	0.0	6.422	0.279	0	0	0	0
000052400001...	OH2544	C	Consumer	7.16Y	119.3	0.00	6.70	0.93	0	7	-1	-99	0.00	0.0	6.143	0.279	7	-1	1	1
OH2539	OH2543	C	6A CWC 3 S	7.16Y	119.3	0.00	6.67	0.06	0	0	0	100	0.00	0.0	5.880	0.001	0	0	0	3
OH2540	OH2539	C	6A CWC 3 S	7.16Y	119.3	0.00	6.67	0.06	0	0	0	100	0.00	0.0	5.989	0.109	0	0	0	3
OH2541	OH2540	C	6A CWC 3 S	7.16Y	119.3	0.00	6.67	0.06	0	0	0	100	0.00	0.0	6.036	0.046	0	0	0	2
OH1918	OH2541	C	6A CWC 3 S	7.16Y	119.3	0.00	6.67	0.00	0	0	0	100	0.00	0.0	6.298	0.263	0	0	0	1
000052400000...	OH1918	C	Consumer	7.16Y	119.3	0.00	6.67	0.00	0	0	0	100	0.00	0.0	6.298	0.263	0	0	1	1
000052400000...	OH2541	C	Consumer	7.16Y	119.3	0.00	6.67	0.06	0	0	0	100	0.00	0.0	6.036	0.263	0	0	1	1
000052400000...	OH2540	C	Consumer	7.16Y	119.3	0.00	6.67	0.00	0	0	0	100	0.00	0.0	5.989	0.263	0	0	1	1
000052400000...	OH2543	C	Consumer	7.16Y	119.3	0.00	6.67	0.00	0	0	0	100	0.00	0.0	5.879	0.263	0	0	0	0
000052400000...	OH2543	C	Consumer	7.16Y	119.3	0.00	6.67	0.00	0	0	0	100	0.00	0.0	5.879	0.263	0	0	0	0
000061900001...	OH2458	C	Consumer	7.16Y	119.3	0.00	6.66	0.00	0	0	0	100	0.00	0.0	5.826	0.263	0	0	1	1
000061900001...	OH2458	C	Consumer	7.16Y	119.3	0.00	6.66	0.72	0	5	0	100	0.00	0.0	5.826	0.263	5	0	1	1
000061900000...	OH2458	C	Consumer	7.16Y	119.3	0.00	6.66	0.00	0	0	0	100	0.00	0.0	5.826	0.263	0	0	0	0
000061900000...	OH2458	C	Consumer	7.16Y	119.3	0.00	6.66	1.36	0	10	-1	-100	0.00	0.0	5.826	0.263	10	-1	1	1
000052400000...	OH2458	C	Consumer	7.16Y	119.3	0.00	6.66	0.00	0	0	0	100	0.00	0.0	5.826	0.263	0	0	0	0
OH2447	OH2445	C	6A CWC 3 S	7.16Y	119.3	0.01	6.66	1.85	1	13	-1	-100	0.00	0.0	5.920	0.193	0	0	0	2
OH2449	OH2447	C	6A CWC 3 S	7.16Y	119.3	0.01	6.67	0.77	1	5	-1	-98	0.00	0.0	6.322	0.402	0	0	0	1
000061900001...	OH2449	C	Consumer	7.16Y	119.3	0.00	6.67	0.77	0	5	-1	-98	0.00	0.0	6.322	0.402	5	-1	1	1
OH2448	OH2447	C	6A CWC 3 S	7.16Y	119.3	0.01	6.67	1.08	1	8	-1	-99	0.00	0.0	6.141	0.221	0	0	0	1
000061900001...	OH2448	C	Consumer	7.16Y	119.3	0.00	6.67	1.08	0	8	-1	-99	0.00	0.0	6.141	0.221	8	-1	1	1
000061900001...	OH2447	C	Consumer	7.16Y	119.3	0.00	6.66	0.00	0	0	0	100	0.00	0.0	5.920	0.221	0	0	0	0
000061900001...	OH2447	C	Consumer	7.16Y	119.3	0.00	6.66	0.00	0	0	0	100	0.00	0.0	5.920	0.221	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OH2446	OH2445	C	6A CWC 3 S	7.16Y	119.4	0.00	6.65	0.64	0	5	0	100	0.00	0.0	5.867	0.140	0	0	0	1
000061900000...	OH2446	C	Consumer	7.16Y	119.4	0.00	6.65	0.64	0	5	0	100	0.00	0.0	5.867	0.140	5	0	1	1
000061900000...	OH2445	C	Consumer	7.16Y	119.4	0.00	6.64	2.59	0	18	-2	-99	0.00	0.0	5.726	0.140	18	-2	1	1
000061900000...	OH2445	C	Consumer	7.16Y	119.4	0.00	6.64	0.00	0	0	0	100	0.00	0.0	5.726	0.140	0	0	0	0
000061900000...	OH2445	C	Consumer	7.16Y	119.4	0.00	6.64	1.99	0	14	-1	-100	0.00	0.0	5.726	0.140	14	-1	1	1
000061900000...	OH2445	C	Consumer	7.16Y	119.4	0.00	6.64	0.00	0	0	0	100	0.00	0.0	5.726	0.140	0	0	0	0
000061900000...	OH2445	C	Consumer	7.16Y	119.4	0.00	6.64	0.00	0	0	0	100	0.00	0.0	5.726	0.140	0	0	0	0
000061900001...	OH2428	C	Consumer	7.17Y	119.5	0.00	6.53	1.28	0	9	-1	-99	0.00	0.0	5.469	0.140	9	-1	1	1
000061900000...	OH2428	C	Consumer	7.17Y	119.5	0.00	6.53	2.50	0	18	-2	-99	0.00	0.0	5.469	0.140	18	-2	1	1
000061900000...	OH2428	C	Consumer	7.17Y	119.5	0.00	6.53	0.56	0	4	0	100	0.00	0.0	5.469	0.140	4	0	1	1
000061900000...	OH2428	C	Consumer	7.17Y	119.5	0.00	6.53	0.00	0	0	0	100	0.00	0.0	5.469	0.140	0	0	0	0
000061900000...	OH2428	C	Consumer	7.17Y	119.5	0.00	6.53	0.00	0	0	0	100	0.00	0.0	5.469	0.140	0	0	0	0
000061900000...	OH2428	C	Consumer	7.17Y	119.5	0.00	6.53	0.00	0	0	0	100	0.00	0.0	5.469	0.140	0	0	0	0
OH2381	OH2380	C	6A CWC 3 S	7.17Y	119.6	0.01	6.44	2.28	2	16	-2	-99	0.00	0.0	5.432	0.113	0	0	0	1
OH29408	OH2381	C	6A CWC 3 S	7.17Y	119.6	0.00	6.44	0.00	0	0	0	100	0.00	0.0	5.575	0.143	0	0	0	0
000061900000...	OH29408	C	Consumer	7.17Y	119.6	0.00	6.44	0.00	0	0	0	100	0.00	0.0	5.575	0.143	0	0	0	0
000061900000...	OH2381	C	Consumer	7.17Y	119.6	0.00	6.44	2.28	0	16	-2	-99	0.00	0.0	5.432	0.143	16	-2	1	1
000061900000...	OH2381	C	Consumer	7.17Y	119.6	0.00	6.44	0.00	0	0	0	100	0.00	0.0	5.432	0.143	0	0	0	0
000061900001...	OH2380	C	Consumer	7.17Y	119.6	0.00	6.43	0.83	0	6	-1	-99	0.00	0.0	5.319	0.143	6	-1	1	1
000061900001...	OH2380	C	Consumer	7.17Y	119.6	0.00	6.43	0.00	0	0	0	100	0.00	0.0	5.319	0.143	0	0	0	0
000061900001...	OH2379	C	Consumer	7.18Y	119.7	0.00	6.25	1.75	0	13	-1	-100	0.00	0.0	5.055	0.143	13	-1	1	1
000061900001...	OH2378	A	Consumer	7.19Y	119.8	0.00	6.20	1.70	0	12	-1	-100	0.00	0.0	4.960	0.143	12	-1	1	1
000061900001...	OH2378	A	Consumer	7.19Y	119.8	0.00	6.20	1.71	0	12	-1	-100	0.00	0.0	4.960	0.143	12	-1	1	1
000061900001...	OH2378	A	Consumer	7.19Y	119.8	0.00	6.20	1.70	0	12	-1	-100	0.00	0.0	4.960	0.143	12	-1	1	1
000061900001...	OH2378	A	Consumer	7.19Y	119.8	0.00	6.20	0.41	0	3	0	100	0.00	0.0	4.960	0.143	3	0	1	1
000061900001...	OH2377	C	Consumer	7.19Y	119.8	0.00	6.16	3.88	0	28	-3	-99	0.00	0.0	4.876	0.143	28	-3	1	1
000061900001...	OH2377	C	Consumer	7.19Y	119.8	0.00	6.16	1.44	0	10	-1	-100	0.00	0.0	4.876	0.143	10	-1	1	1
000061900001...	OH2377	C	Consumer	7.19Y	119.8	0.00	6.16	0.00	0	0	0	100	0.00	0.0	4.876	0.143	0	0	0	0
OH2376	OH2314	A	OH_Digitiz	7.19Y	119.9	0.00	6.10	0.00	0	0	0	100	0.00	0.0	4.875	0.107	0	0	0	0
000061900001...	OH2376	A	Consumer	7.19Y	119.9	0.00	6.10	0.00	0	0	0	100	0.00	0.0	4.875	0.107	0	0	0	0
000061900001...	OH2376	A	Consumer	7.19Y	119.9	0.00	6.10	0.00	0	0	0	100	0.00	0.0	4.875	0.107	0	0	0	0
000061900001...	OH2314	B	Consumer	7.19Y	119.9	0.00	6.10	2.05	0	15	-1	-100	0.00	0.0	4.769	0.107	15	-1	1	1
000061900001...	OH2314	B	Consumer	7.19Y	119.9	0.00	6.10	2.17	0	16	-1	-100	0.00	0.0	4.769	0.107	16	-1	1	1
000061900001...	OH2314	B	Consumer	7.19Y	119.9	0.00	6.10	1.41	0	10	-1	-100	0.00	0.0	4.769	0.107	10	-1	1	1
000061900001...	OH2314	B	Consumer	7.19Y	119.9	0.00	6.10	0.00	0	0	0	100	0.00	0.0	4.769	0.107	0	0	0	0
000061900001...	OH2314	B	Consumer	7.19Y	119.9	0.00	6.10	0.00	0	0	0	100	0.00	0.0	4.769	0.107	0	0	0	0
000061900001...	OH30281	C	Consumer	7.20Y	120.0	0.00	6.00	0.77	0	6	-1	-99	0.00	0.0	4.579	0.107	6	-1	1	1
C OH2312	OH2306	A	OH_Digitiz	7.20Y	120.0	0.02	5.96	4.45	445	32	-3	-100	0.00	0.0	4.560	0.091	0	0	0	3 C
OH2313	OH2312	A	OH_Digitiz	7.20Y	120.0	0.00	5.96	0.00	0	0	0	100	0.00	0.0	4.687	0.127	0	0	0	1

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts													mi		-----Element-----			
		-Base Voltage:120.0-													From	Length			Cons	Cons
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	Src	(mi)	KW	KVAR	On	Thru
000061900001...	OH2313	A	Consumer	7.20Y	120.0	0.00	5.96	0.00	0	0	0	100	0.00	0.0	4.687	0.127	0	0	0	0
000061900001...	OH2313	A	Consumer	7.20Y	120.0	0.00	5.96	0.00	0	0	0	100	0.00	0.0	4.687	0.127	0	0	0	0
000061900001...	OH2313	A	Consumer	7.20Y	120.0	0.00	5.96	0.00	0	0	0	100	0.00	0.0	4.687	0.127	0	0	1	1
000061900001...	OH2312	A	Consumer	7.20Y	120.0	0.00	5.96	2.97	0	21	-2	-100	0.00	0.0	4.560	0.127	21	-2	1	1
000061900001...	OH2312	A	Consumer	7.20Y	120.0	0.00	5.96	0.00	0	0	0	100	0.00	0.0	4.560	0.127	0	0	0	0
000061900001...	OH2312	A	Consumer	7.20Y	120.0	0.00	5.96	1.49	0	11	-1	-100	0.00	0.0	4.560	0.127	11	-1	1	1
000061900001...	OH2306	C	Consumer	7.20Y	120.1	0.00	5.94	1.18	0	8	-1	-99	0.00	0.0	4.469	0.127	8	-1	1	1
000061900001...	OH2351	B	Consumer	7.21Y	120.1	0.00	5.91	1.38	0	10	-1	-100	0.00	0.0	4.410	0.127	10	-1	1	1
000061900001...	OH2351	B	Consumer	7.21Y	120.1	0.00	5.91	0.89	0	6	-1	-99	0.00	0.0	4.410	0.127	6	-1	1	1
000061900001...	OH2351	B	Consumer	7.21Y	120.1	0.00	5.91	0.00	0	0	0	100	0.00	0.0	4.410	0.127	0	0	0	0
000061900001...	OH2351	B	Consumer	7.21Y	120.1	0.00	5.91	1.21	0	9	-1	-99	0.00	0.0	4.410	0.127	9	-1	1	1
C OH2310	OH2305	B	OH_Digitiz	7.21Y	120.1	0.01	5.88	1.23	123	9	-1	-99	0.00	0.0	4.546	0.191	0	0	0	2 C
000061900001...	OH2310	B	Consumer	7.21Y	120.1	0.00	5.88	0.68	0	5	0	100	0.00	0.0	4.546	0.191	5	0	1	1
000061900001...	OH2310	B	Consumer	7.21Y	120.1	0.00	5.88	0.55	0	4	0	100	0.00	0.0	4.546	0.191	4	0	1	1
000061900001...	OH2304	B	Consumer	7.21Y	120.2	0.00	5.83	1.81	0	13	-1	-100	0.00	0.0	4.274	0.191	13	-1	1	1
000061900001...	OH2304	B	Consumer	7.21Y	120.2	0.00	5.83	0.00	0	0	0	100	0.00	0.0	4.274	0.191	0	0	1	1
000061900001...	OH2304	B	Consumer	7.21Y	120.2	0.00	5.83	1.17	0	8	-1	-99	0.00	0.0	4.274	0.191	8	-1	1	1
000061900001...	OH2323	A	Consumer	7.21Y	120.2	0.00	5.81	0.00	0	0	0	100	0.00	0.0	4.231	0.191	0	0	0	0
000061900001...	OH2322	A	Consumer	7.21Y	120.2	0.00	5.76	0.00	0	0	0	100	0.00	0.0	4.150	0.191	0	0	0	0
OH2107	OH2102	C	OH_Digitiz	7.22Y	120.3	0.00	5.70	0.30	30	2	0	100	0.00	0.0	4.099	0.052	0	0	0	1
OH2105	OH2107	C	OH_Digitiz	7.22Y	120.3	0.00	5.70	0.30	30	2	0	100	0.00	0.0	4.279	0.181	0	0	0	1
000061940400...	OH2105	C	Consumer	7.22Y	120.3	0.00	5.70	0.30	0	2	0	100	0.00	0.0	4.279	0.181	2	0	1	1
000061940401...	OH2107	C	Consumer	7.22Y	120.3	0.00	5.70	0.00	0	0	0	100	0.00	0.0	4.099	0.181	0	0	0	0
000061940401...	OH2107	C	Consumer	7.22Y	120.3	0.00	5.70	0.00	0	0	0	100	0.00	0.0	4.099	0.181	0	0	0	0
000061940401...	OH2101	A	Consumer	7.22Y	120.4	0.00	5.64	0.00	0	0	0	100	0.00	0.0	3.950	0.181	0	0	0	0
000061940401...	OH2111	A	Consumer	7.23Y	120.4	0.00	5.57	0.00	0	0	0	100	0.00	0.0	3.824	0.181	0	0	0	0
000061940401...	OH2113	B	Consumer	7.23Y	120.5	0.00	5.54	1.49	0	11	-1	-100	0.00	0.0	3.765	0.181	11	-1	1	1
OH2104	OH2099	A	OH_Digitiz	7.23Y	120.5	0.00	5.51	0.00	0	0	0	100	0.00	0.0	3.985	0.262	0	0	0	0
000061940401...	OH2104	A	Consumer	7.23Y	120.5	0.00	5.51	0.00	0	0	0	100	0.00	0.0	3.985	0.262	0	0	0	0
000061940401...	OH2115	A	Consumer	7.23Y	120.5	0.00	5.45	0.00	0	0	0	100	0.00	0.0	3.621	0.262	0	0	0	0
OH2103	OH2100	B	OH_Digitiz	7.23Y	120.6	0.00	5.43	0.42	42	3	0	100	0.00	0.0	3.666	0.079	0	0	0	1
000061940401...	OH2103	B	Consumer	7.23Y	120.6	0.00	5.43	0.42	0	3	0	100	0.00	0.0	3.666	0.079	3	0	1	1
C OH2097	OH2087	C	OH_Digitiz	7.24Y	120.7	0.01	5.31	3.78	378	27	-3	-99	0.00	0.0	3.434	0.064	0	0	0	2 C
000061940401...	OH2097	C	Consumer	7.24Y	120.7	0.00	5.31	1.87	0	14	-1	-100	0.00	0.0	3.434	0.064	14	-1	1	1
000061940400...	OH2097	C	Consumer	7.24Y	120.7	0.00	5.31	1.91	0	14	-1	-100	0.00	0.0	3.434	0.064	14	-1	1	1
000061940400...	OH2087	A	Consumer	7.24Y	120.7	0.00	5.30	0.00	0	0	0	100	0.00	0.0	3.370	0.064	0	0	0	0
000061940400...	OH2087	A	Consumer	7.24Y	120.7	0.00	5.30	0.00	0	0	0	100	0.00	0.0	3.370	0.064	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts														-----Element-----				
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
000061940400...	OH2087	A	Consumer	7.24Y	120.7	0.00	5.30	0.00	0	0	0	100	0.00	0.0	3.370	0.064	0	0	0	0
000061940400...	OH2086	A	Consumer	7.25Y	120.8	0.00	5.22	0.00	0	0	0	100	0.00	0.0	3.229	0.064	0	0	0	0
000061940400...	OH2085	B	Consumer	7.25Y	120.8	0.00	5.16	2.10	0	15	-1	-100	0.00	0.0	3.135	0.064	15	-1	1	1
000061940400...	OH2085	B	Consumer	7.25Y	120.8	0.00	5.16	0.81	0	6	-1	-99	0.00	0.0	3.135	0.064	6	-1	1	1
000061940400...	OH2084	B	Consumer	7.25Y	120.9	0.00	5.13	1.98	0	14	-1	-100	0.00	0.0	3.085	0.064	14	-1	1	1
000061940400...	OH2084	B	Consumer	7.25Y	120.9	0.00	5.13	0.00	0	0	0	100	0.00	0.0	3.085	0.064	0	0	0	0
000061940400...	OH2084	B	Consumer	7.25Y	120.9	0.00	5.13	0.47	0	3	0	100	0.00	0.0	3.085	0.064	3	0	1	1
C OH2092	OH2083	A	OH_Digitiz	7.25Y	120.9	0.02	5.10	3.25	325	24	-2	-100	0.00	0.0	3.145	0.145	0	0	0	1 C
000061940400...	OH2092	A	Consumer	7.25Y	120.9	0.00	5.10	3.25	0	23	-2	-100	0.00	0.0	3.145	0.145	23	-2	1	1
C OH2091	OH2083	A	OH_Digitiz	7.25Y	120.9	0.01	5.09	2.62	262	19	-2	-99	0.00	0.0	3.061	0.062	0	0	0	3 C
000061940400...	OH2091	A	Consumer	7.25Y	120.9	0.00	5.09	0.84	0	6	-1	-99	0.00	0.0	3.061	0.062	6	-1	1	1
000061940400...	OH2091	A	Consumer	7.25Y	120.9	0.00	5.09	1.62	0	12	-1	-100	0.00	0.0	3.061	0.062	12	-1	1	1
000061940400...	OH2091	A	Consumer	7.25Y	120.9	0.00	5.09	0.15	0	1	0	100	0.00	0.0	3.061	0.062	1	0	1	1
000061940400...	OH2091	A	Consumer	7.25Y	120.9	0.00	5.09	0.00	0	0	0	100	0.00	0.0	3.000	0.062	0	0	0	0
000061940400...	OH2083	A	Consumer	7.26Y	120.9	0.00	5.08	0.00	0	0	0	100	0.00	0.0	2.931	0.062	0	0	0	0
000061940400...	OH2082	A	Consumer	7.26Y	121.0	0.00	5.04	0.00	0	0	0	100	0.00	0.0	2.931	0.062	0	0	0	0
000061940400...	OH2082	A	Consumer	7.26Y	121.0	0.00	5.04	0.00	0	0	0	100	0.00	0.0	2.931	0.062	0	0	0	0
000061940400...	OH2082	A	Consumer	7.26Y	121.0	0.00	5.04	0.33	0	2	0	100	0.00	0.0	2.931	0.062	2	0	1	1
000061940400...	OH2082	A	Consumer	7.26Y	121.0	0.00	5.04	0.00	0	0	0	100	0.00	0.0	2.931	0.062	0	0	0	0
000061940400...	OH2082	A	Consumer	7.26Y	121.0	0.00	5.04	0.00	0	0	0	100	0.00	0.0	2.931	0.062	0	0	0	0
C OH2076	OH2074	C	OH_Digitiz	7.26Y	121.0	0.01	5.00	2.45	245	18	-2	-99	0.00	0.0	2.969	0.121	0	0	0	2 C
C OH2075	OH2076	C	OH_Digitiz	7.26Y	121.0	0.01	5.01	2.45	245	18	-2	-99	0.00	0.0	3.079	0.110	0	0	0	2 C
000061330409...	OH2075	C	Consumer	7.26Y	121.0	0.00	5.01	0.76	0	5	-1	-98	0.00	0.0	3.079	0.110	5	-1	1	1
000061330409...	OH2075	C	Consumer	7.26Y	121.0	0.00	5.01	1.70	0	12	-1	-100	0.00	0.0	3.079	0.110	12	-1	1	1
000061330409...	OH2076	C	Consumer	7.26Y	121.0	0.00	5.00	0.00	0	0	0	100	0.00	0.0	2.969	0.110	0	0	0	0
000061330409...	OH2060	B	Consumer	7.27Y	121.1	0.00	4.89	0.02	0	0	0	100	0.00	0.0	2.690	0.110	0	0	1	1
000061330409...	OH2060	B	Consumer	7.27Y	121.1	0.00	4.89	3.06	0	22	-2	-100	0.00	0.0	2.690	0.110	22	-2	1	1
000061330409...	OH2060	B	Consumer	7.27Y	121.1	0.00	4.89	0.00	0	0	0	100	0.00	0.0	2.690	0.110	0	0	0	0
000061330409...	OH2069	C	Consumer	7.27Y	121.1	0.00	4.87	0.11	0	1	0	100	0.00	0.0	2.659	0.110	1	0	1	1
000061330409...	OH2069	C	Consumer	7.27Y	121.1	0.00	4.87	0.02	0	0	0	100	0.00	0.0	2.659	0.110	0	0	1	1
000061330409...	OH2069	C	Consumer	7.27Y	121.1	0.00	4.87	0.00	0	0	0	100	0.00	0.0	2.659	0.110	0	0	0	0
C OH2033	OH2032	C	OH_Digitiz	7.27Y	121.2	0.01	4.76	2.01	201	15	-1	-100	0.00	0.0	2.717	0.079	0	0	0	1 C
000061330409...	OH2033	C	Consumer	7.27Y	121.2	0.00	4.76	0.00	0	0	0	100	0.00	0.0	2.717	0.079	0	0	0	0
000061330409...	OH2033	C	Consumer	7.27Y	121.2	0.00	4.76	0.00	0	0	0	100	0.00	0.0	2.717	0.079	0	0	0	0
000061330409...	OH2033	C	Consumer	7.27Y	121.2	0.00	4.76	2.01	0	15	-1	-100	0.00	0.0	2.717	0.079	15	-1	1	1
000061330409...	OH2033	C	Consumer	7.27Y	121.2	0.00	4.76	0.00	0	0	0	100	0.00	0.0	2.638	0.079	0	0	0	0
000061330409...	OH2032	A	Consumer	7.27Y	121.2	0.00	4.76	0.00	0	0	0	100	0.00	0.0	2.638	0.079	0	0	0	0
000061330409...	OH2032	A	Consumer	7.27Y	121.2	0.00	4.76	0.00	0	0	0	100	0.00	0.0	2.638	0.079	0	0	0	0
000061330409...	OH2032	A	Consumer	7.27Y	121.2	0.00	4.76	0.00	0	0	0	100	0.00	0.0	2.638	0.079	0	0	0	0
000061330409...	OH2031	A	Consumer	7.28Y	121.3	0.00	4.73	0.66	0	5	0	100	0.00	0.0	2.603	0.079	5	0	1	1

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OH2043	OH2042	A	OH_Digitiz	7.28Y	121.4	0.00	4.61	0.60	60	4	0	100	0.00	0.0	2.610	0.067	0	0	0	1
000061330409...	OH2043	A	Consumer	7.28Y	121.4	0.00	4.61	0.60	0	4	0	100	0.00	0.0	2.610	0.067	4	0	1	1
OH1927	OH1925	A	OH_Digitiz	7.29Y	121.5	0.00	4.55	0.00	0	0	0	100	0.00	0.0	2.569	0.128	0	0	0	0
000061330409...	OH1927	A	Consumer	7.29Y	121.5	0.00	4.55	0.00	0	0	0	100	0.00	0.0	2.569	0.128	0	0	0	0
000061330409...	OH1927	A	Consumer	7.29Y	121.5	0.00	4.55	0.00	0	0	0	100	0.00	0.0	2.569	0.128	0	0	0	0
C OH1932	OH1920	A	OH_Digitiz	7.31Y	121.9	0.00	4.13	1.32	132	10	-1	-100	0.00	0.0	1.847	0.041	0	0	0	1 C
000061940400...	OH1932	A	Consumer	7.31Y	121.9	0.00	4.13	1.32	0	10	-1	-100	0.00	0.0	1.847	0.041	10	-1	1	1
C OH1934	OH1933	A	OH_Digitiz	7.32Y	122.0	0.01	3.97	1.37	137	10	-1	-100	0.00	0.0	1.728	0.170	0	0	0	1 C
000061940401...	OH1934	A	Consumer	7.32Y	122.0	0.00	3.97	1.37	0	10	-1	-100	0.00	0.0	1.728	0.170	10	-1	1	1
000061940401...	OH1915	B	Consumer	7.37Y	122.9	0.00	3.10	0.07	0	1	0	100	0.00	0.0	1.045	0.170	1	0	1	1
000061940401...	OH1915	B	Consumer	7.37Y	122.9	0.00	3.10	1.91	0	14	-1	-100	0.00	0.0	1.045	0.170	14	-1	1	1
000061940401...	OH1915	B	Consumer	7.37Y	122.9	0.00	3.10	2.09	0	15	-1	-100	0.00	0.0	1.045	0.170	15	-1	1	1
000061940401...	OH1855	C	Consumer	7.38Y	123.1	0.00	2.93	1.80	0	13	-1	-100	0.00	0.0	0.984	0.170	13	-1	1	1
OCR-2225	OH1854	B	25-4H OCR	7.40Y	123.3	0.00	2.70	10.85	0	80	-7	-100	0.00	0.0	0.906	0.170	0	0	0	12
OH1940	OCR-2225	B	4 ACSR 7/1	7.39Y	123.2	0.10	2.80	10.85	8	80	-7	-100	0.07	0.1	1.133	0.227	0	0	0	12
OH1967	OH1940	B	4 ACSR 7/1	7.39Y	123.1	0.10	2.90	8.20	6	60	-6	-100	0.05	0.1	1.441	0.308	0	0	0	9
OH1969	OH1967	B	4 ACSR 7/1	7.39Y	123.1	0.02	2.92	7.63	5	56	-5	-100	0.01	0.0	1.506	0.064	0	0	0	8
OH1973	OH1969	B	4 ACSR 7/1	7.38Y	123.1	0.03	2.94	3.71	3	27	-3	-99	0.01	0.0	1.685	0.180	0	0	0	4
OH1975	OH1973	B	4 ACSR 7/1	7.38Y	123.0	0.02	2.96	3.10	2	23	-2	-100	0.00	0.0	1.830	0.145	0	0	0	3
OH1981	OH1975	B	4 ACSR 7/1	7.38Y	123.0	0.02	2.98	2.14	2	16	-1	-100	0.00	0.0	2.109	0.279	0	0	0	2
OH1970	OH1981	B	4 ACSR 7/1	7.38Y	123.0	0.00	2.98	0.73	1	5	0	100	0.00	0.0	2.158	0.049	0	0	0	1
000061900001...	OH1970	B	Consumer	7.38Y	123.0	0.00	2.98	0.73	0	5	0	100	0.00	0.0	2.158	0.049	5	0	1	1
000061940401...	OH1981	B	Consumer	7.38Y	123.0	0.00	2.98	1.41	0	10	-1	-100	0.00	0.0	2.109	0.049	10	-1	1	1
000061940401...	OH1975	B	Consumer	7.38Y	123.0	0.00	2.96	0.96	0	7	-1	-99	0.00	0.0	1.830	0.049	7	-1	1	1
000061940401...	OH1973	B	Consumer	7.38Y	123.1	0.00	2.94	0.60	0	4	0	100	0.00	0.0	1.685	0.049	4	0	1	1
OH1968	OH1969	B	4 ACSR 7/1	7.38Y	123.0	0.04	2.96	3.92	3	29	-3	-99	0.01	0.0	1.785	0.280	0	0	0	4
OH1966	OH1968	B	4 ACSR 7/1	7.38Y	123.0	0.00	2.96	0.00	0	0	0	100	0.00	0.0	1.892	0.107	0	0	0	0
000061940401...	OH1966	B	Consumer	7.38Y	123.0	0.00	2.96	0.00	0	0	0	100	0.00	0.0	1.892	0.107	0	0	0	0
000061940401...	OH1968	B	Consumer	7.38Y	123.0	0.00	2.96	2.64	0	19	-2	-99	0.00	0.0	1.785	0.107	19	-2	1	1
000061940401...	OH1968	B	Consumer	7.38Y	123.0	0.00	2.96	0.22	0	2	0	100	0.00	0.0	1.785	0.107	2	0	1	1
000061940401...	OH1968	B	Consumer	7.38Y	123.0	0.00	2.96	0.00	0	0	0	100	0.00	0.0	1.785	0.107	0	0	0	0
000061940401...	OH1968	B	Consumer	7.38Y	123.0	0.00	2.96	1.00	0	7	-1	-99	0.00	0.0	1.785	0.107	7	-1	1	1
000061940401...	OH1968	B	Consumer	7.38Y	123.0	0.00	2.96	0.07	0	0	0	100	0.00	0.0	1.785	0.107	0	0	1	1
000061940401...	OH1967	B	Consumer	7.39Y	123.1	0.00	2.90	0.57	0	4	0	100	0.00	0.0	1.441	0.107	4	0	1	1
OH1962	OH1940	B	4 ACSR 7/1	7.39Y	123.2	0.00	2.80	2.65	2	19	-2	-99	0.00	0.0	1.168	0.035	0	0	0	3
OH1945	OH1962	B	4 ACSR 7/1	7.39Y	123.1	0.05	2.85	2.65	2	19	-2	-99	0.01	0.0	1.655	0.487	0	0	0	3
OH1947	OH1945	B	4 ACSR 7/1	7.39Y	123.1	0.00	2.85	0.00	0	0	0	100	0.00	0.0	1.830	0.175	0	0	0	1

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2- LL20 Before Improvements

Table with columns: Element Name, Parent Name, Cnf, Type/Conductor, Pri, 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. Contains detailed data for various elements and conductors.

----- Feeder No. 0 (Argentum 1) Beginning with Device Arg_D1 -----

Summary row for Arg_D1: Argentum-#1, ABC, 240-140WVE, 7.56Y 126.0, 0.00, 0.00, 237.66, 0, 5389, -134, -100, 0.00, 0.0, 0.000, 0.059, 0, 0, 0, 608

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Summary table with columns: KW, KVAR, Load, Adjustment, Capacitance, Charging, Gen&Motors, Loops&Metas, Losses, No Load Losses, Total. Values include 4377, 0, 0, 0, 0, 5389, 347, 0.00, 10112, -46.

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
 Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\07-11 BASE MODEL_NO XFMR5.WM\
 Title: GRECC - Sample Load Flows
 Case: Argentum Feeder 2- LL20 Before Improvements

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	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru

Max Elem VoltD = 1.26 on Element OH1854

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

Table with columns: Element Name, Parent Name, Cnf, Type/Conductor, Pri, 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. Includes data for Argentum-#1 and Feeder No. 0 (Argentum 2).

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OH1915	OH1855	ABC	336 ACSR18	7.48Y	124.6	0.08	1.37	264.73	51	5942	90	100	3.54	0.1	1.045	0.061	0	0	0	750
OH1916	OH1915	ABC	336 ACSR18	7.46Y	124.3	0.29	1.66	263.40	51	5909	84	100	13.37	0.2	1.279	0.234	0	0	0	747
OH1856	OH1916	ABC	1/0 ACSR	7.45Y	124.1	0.20	1.86	101.53	44	2272	3	100	3.73	0.2	1.420	0.140	0	0	0	288
OH2012	OH1856	A	4 ACSR 7/1	7.45Y	124.1	0.02	1.88	3.41	2	25	-2	-100	0.00	0.0	1.558	0.139	0	0	0	3
OH2013	OH2012	A	4 ACSR 7/1	7.45Y	124.1	0.01	1.89	1.95	1	14	-1	-100	0.00	0.0	1.669	0.110	0	0	0	1
000061940401...	OH2013	A	Consumer	7.45Y	124.1	0.00	1.89	1.95	0	14	-1	-100	0.00	0.0	1.669	0.110	14	-1	1	1
000061940401...	OH2012	A	Consumer	7.45Y	124.1	0.00	1.88	0.03	0	0	0	100	0.00	0.0	1.558	0.110	0	0	1	1
000061940401...	OH2012	A	Consumer	7.45Y	124.1	0.00	1.88	1.43	0	11	-1	-100	0.00	0.0	1.558	0.110	11	-1	1	1
OH1992	OH1856	ABC	1/0 ACSR	7.44Y	124.0	0.15	2.01	100.40	44	2243	2	100	2.71	0.1	1.524	0.104	0	0	0	285
OH2011	OH1992	ABC	1/0 ACSR	7.43Y	123.8	0.23	2.24	98.23	43	2192	4	100	4.03	0.2	1.686	0.162	0	0	0	280
OH2176	OH2011	ABC	1/0 ACSR	7.41Y	123.6	0.18	2.42	97.64	42	2175	2	100	3.20	0.1	1.816	0.130	0	0	0	279
OH2177	OH2176	A	4 ACSR 7/1	7.41Y	123.6	0.02	2.44	1.89	1	14	-1	-100	0.00	0.0	2.115	0.298	0	0	0	2
000061940401...	OH2177	A	Consumer	7.41Y	123.6	0.00	2.44	0.13	0	1	0	100	0.00	0.0	2.115	0.298	1	0	1	1
000061940401...	OH2177	A	Consumer	7.41Y	123.6	0.00	2.44	1.76	0	13	-1	-100	0.00	0.0	2.115	0.298	13	-1	1	1
OH1857	OH2176	ABC	1/0 ACSR	7.40Y	123.4	0.18	2.60	97.01	42	2158	0	100	3.16	0.1	1.947	0.130	0	0	0	277
OH2185	OH1857	ABC	1/0 ACSR	7.39Y	123.1	0.27	2.87	97.01	42	2155	-2	-100	4.64	0.2	2.138	0.192	0	0	0	277
OH2191	OH2185	C	4 ACSR 7/1	7.39Y	123.1	0.02	2.88	2.99	2	22	-2	-100	0.00	0.0	2.268	0.129	0	0	0	2
000061940401...	OH2191	C	Consumer	7.39Y	123.1	0.00	2.88	0.65	0	5	0	100	0.00	0.0	2.268	0.129	5	0	1	1
000061940401...	OH2191	C	Consumer	7.39Y	123.1	0.00	2.88	2.34	0	17	-2	-99	0.00	0.0	2.268	0.129	17	-2	1	1
OH2186	OH2185	ABC	1/0 ACSR	7.39Y	123.1	0.05	2.92	96.02	42	2128	-4	-100	0.86	0.0	2.174	0.036	0	0	0	275
OH2195	OH2186	B	4 ACSR 7/1	7.38Y	123.0	0.04	2.96	3.46	2	25	-2	-100	0.01	0.0	2.466	0.292	0	0	0	3
000061940402...	OH2195	B	Consumer	7.38Y	123.0	0.00	2.96	0.00	0	0	0	100	0.00	0.0	2.466	0.292	0	0	0	0
OH2197	OH2195	B	4 ACSR 7/1	7.38Y	123.0	0.00	2.96	1.73	1	13	-1	-100	0.00	0.0	2.533	0.067	0	0	0	1
000061940402...	OH2197	B	Consumer	7.38Y	123.0	0.00	2.96	1.73	0	13	-1	-100	0.00	0.0	2.533	0.067	13	-1	1	1
OH2196	OH2195	B	4 ACSR 7/1	7.38Y	123.0	0.01	2.97	1.51	1	11	-1	-100	0.00	0.0	2.655	0.189	0	0	0	1
000061940402...	OH2196	B	Consumer	7.38Y	123.0	0.00	2.97	1.51	0	11	-1	-100	0.00	0.0	2.655	0.189	11	-1	1	1
000061940402...	OH2195	B	Consumer	7.38Y	123.0	0.00	2.96	0.22	0	2	0	100	0.00	0.0	2.466	0.189	2	0	1	1
000061940402...	OH2195	B	Consumer	7.38Y	123.0	0.00	2.96	0.00	0	0	0	100	0.00	0.0	2.466	0.189	0	0	0	0
OH2187	OH2186	ABC	1/0 ACSR	7.38Y	122.9	0.15	3.07	94.87	41	2102	-3	-100	2.57	0.1	2.285	0.111	0	0	0	272
OH2202	OH2187	A	4 ACSR 7/1	7.38Y	122.9	0.00	3.07	0.37	0	3	0	100	0.00	0.0	2.442	0.157	0	0	0	1
000061940401...	OH2202	A	Consumer	7.38Y	122.9	0.00	3.07	0.37	0	3	0	100	0.00	0.0	2.442	0.157	3	0	1	1
OH2188	OH2187	ABC	1/0 ACSR	7.37Y	122.9	0.06	3.13	94.75	41	2097	-5	-100	1.11	0.1	2.333	0.048	0	0	0	271
OH2189	OH2188	ABC	1/0 ACSR	7.36Y	122.7	0.18	3.31	94.51	41	2090	-5	-100	3.08	0.1	2.467	0.134	0	0	0	269
OH2203	OH2189	A	4 ACSR 7/1	7.36Y	122.7	0.00	3.31	0.00	0	0	0	100	0.00	0.0	2.595	0.128	0	0	0	0
000061940402...	OH2203	A	Consumer	7.36Y	122.7	0.00	3.31	0.00	0	0	0	100	0.00	0.0	2.595	0.128	0	0	0	0
OH2190	OH2189	ABC	1/0 ACSR	7.36Y	122.6	0.09	3.40	94.51	41	2087	-8	-100	1.51	0.1	2.533	0.066	0	0	0	269
OH29627	OH2190	A	1/0 ACSR	7.36Y	122.6	0.00	3.40	0.00	0	0	0	100	0.00	0.0	2.768	0.235	0	0	0	0

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts											mi		-----Element-----					
		-Base Voltage:120.0-											From	Length			Cons	Cons		
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	Src	(mi)	KW	KVAR	On	Thru
000061940402...	OH29627	A	Consumer	7.36Y	122.6	0.00	3.40	0.00	0	0	0	100	0.00	0.0	2.768	0.235	0	0	0	0
OH1898	OH2190	ABC	1/0 ACSR	7.34Y	122.3	0.30	3.70	93.72	41	2068	-8	-100	5.14	0.2	2.760	0.227	0	0	0	268
OH1899	OH1898	A	4 ACSR 7/1	7.34Y	122.3	0.00	3.70	0.00	0	0	0	100	0.00	0.0	2.838	0.078	0	0	0	0
000061910402...	OH1899	A	Consumer	7.34Y	122.3	0.00	3.70	0.00	0	0	0	100	0.00	0.0	2.838	0.078	0	0	0	0
OH1884	OH1898	ABC	1/0 ACSR	7.32Y	122.0	0.33	4.03	71.03	31	1564	14	100	4.18	0.3	3.081	0.322	0	0	0	192
OH1886	OH1884	B	4 ACSR 7/1	7.32Y	122.0	0.01	4.05	2.71	2	20	-1	-100	0.00	0.0	3.214	0.132	0	0	0	3
OH1894	OH1886	B	4 ACSR 7/1	7.32Y	121.9	0.00	4.05	2.56	2	19	-1	-100	0.00	0.0	3.252	0.038	0	0	0	2
OH1887	OH1894	B	4 ACSR 7/1	7.32Y	121.9	0.01	4.06	2.56	2	19	-1	-100	0.00	0.0	3.306	0.055	0	0	0	2
OH1888	OH1887	B	4 ACSR 7/1	7.32Y	121.9	0.00	4.06	0.32	0	2	1	89	0.00	0.0	3.372	0.065	0	0	0	1
000061910402...	OH1888	B	Consumer	7.32Y	121.9	0.00	4.06	0.32	0	2	1	89	0.00	0.0	3.372	0.065	2	1	1	1
000061910402...	OH1887	B	Consumer	7.32Y	121.9	0.00	4.06	2.28	0	17	-2	-99	0.00	0.0	3.306	0.065	17	-2	1	1
000061910402...	OH1894	B	Consumer	7.32Y	121.9	0.00	4.05	0.00	0	0	0	100	0.00	0.0	3.252	0.065	0	0	0	0
000061910402...	OH1886	B	Consumer	7.32Y	122.0	0.00	4.05	0.16	0	1	0	100	0.00	0.0	3.214	0.065	1	0	1	1
OH1885	OH1884	ABC	1/0 ACSR	7.31Y	121.9	0.11	4.14	70.13	30	1540	11	100	1.35	0.1	3.188	0.107	0	0	0	189
OH1883	OH1885	ABC	1/0 ACSR	7.31Y	121.8	0.07	4.21	70.13	30	1538	10	100	0.84	0.1	3.255	0.067	0	0	0	189
OH2184	OH1883	ABC	1/0 ACSR	7.30Y	121.6	0.18	4.39	70.11	30	1537	10	100	2.32	0.2	3.438	0.183	0	0	0	188
OH1882	OH2184	ABC	1/0 ACSR	7.28Y	121.3	0.29	4.68	59.93	26	1312	21	100	3.06	0.2	3.768	0.330	0	0	0	160
OH2036	OH1882	ABC	1/0 ACSR	7.27Y	121.2	0.10	4.78	59.60	26	1301	19	100	1.10	0.1	3.888	0.120	0	0	0	159
OH2044	OH2036	B	4 ACSR 7/1	7.27Y	121.2	0.01	4.79	1.73	1	13	-1	-100	0.00	0.0	4.017	0.129	0	0	0	1
000061910403...	OH2044	B	Consumer	7.27Y	121.2	0.00	4.79	1.73	0	13	-1	-100	0.00	0.0	4.017	0.129	13	-1	1	1
OH1860	OH2036	ABC	1/0 ACSR	7.27Y	121.1	0.09	4.88	58.89	26	1285	20	100	0.99	0.1	4.000	0.111	0	0	0	156
OH2046	OH1860	A	4 ACSR 7/1	7.27Y	121.1	0.00	4.88	1.23	1	9	-1	-99	0.00	0.0	4.040	0.040	0	0	0	2
000061910403...	OH2046	A	Consumer	7.27Y	121.1	0.00	4.88	0.00	0	0	0	100	0.00	0.0	4.040	0.040	0	0	1	1
000061910403...	OH2046	A	Consumer	7.27Y	121.1	0.00	4.88	1.23	0	9	-1	-99	0.00	0.0	4.040	0.040	9	-1	1	1
OH2045	OH1860	A	4 ACSR 7/1	7.27Y	121.1	0.00	4.88	0.00	0	0	0	100	0.00	0.0	4.130	0.131	0	0	0	0
000061910403...	OH2045	A	Consumer	7.27Y	121.1	0.00	4.88	0.00	0	0	0	100	0.00	0.0	4.130	0.131	0	0	0	0
OH2037	OH1860	ABC	1/0 ACSR	7.26Y	121.0	0.10	4.97	58.49	25	1275	20	100	1.00	0.1	4.113	0.113	0	0	0	154
OH2047	OH2037	B	4 ACSR 7/1	7.26Y	121.0	0.00	4.98	1.37	1	10	-1	-100	0.00	0.0	4.164	0.052	0	0	0	3
OH2048	OH2047	B	4 ACSR 7/1	7.26Y	121.0	0.00	4.98	0.84	1	6	-1	-99	0.00	0.0	4.216	0.051	0	0	0	1
000061910403...	OH2048	B	Consumer	7.26Y	121.0	0.00	4.98	0.84	0	6	-1	-99	0.00	0.0	4.216	0.051	6	-1	1	1
000061910403...	OH2048	B	Consumer	7.26Y	121.0	0.00	4.98	0.00	0	0	0	100	0.00	0.0	4.216	0.051	0	0	0	0
000061910403...	OH2047	B	Consumer	7.26Y	121.0	0.00	4.98	0.24	0	2	0	100	0.00	0.0	4.164	0.051	2	0	1	1
000061910403...	OH2047	B	Consumer	7.26Y	121.0	0.00	4.98	0.29	0	2	0	100	0.00	0.0	4.164	0.051	2	0	1	1
OH2039	OH2037	ABC	1/0 ACSR	7.26Y	121.0	0.04	5.01	58.03	25	1264	20	100	0.37	0.0	4.156	0.043	0	0	0	151
OH1861	OH2039	ABC	1/0 ACSR	7.26Y	121.0	0.01	5.03	57.82	25	1259	20	100	0.15	0.0	4.173	0.017	0	0	0	150
OH2063	OH1861	ABC	4 ACSR 7/1	7.26Y	121.0	0.00	5.03	1.59	1	34	8	97	0.00	0.0	4.233	0.059	0	0	0	2
000061910403...	OH2063	A	Consumer	7.26Y	121.0	0.00	5.03	0.00	0	0	0	100	0.00	0.0	4.233	0.059	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts											mi		-----Element-----					
		-Base Voltage:120.0-											From	Length			Cons	Cons		
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	Src	(mi)	KW	KVAR	On	Thru
000061910403...	OH2063	A	Consumer	7.26Y	121.0	0.00	5.03	1.92	0	14	-1	-100	0.00	0.0	4.233	0.059	14	-1	1	1
000061910403...	OH2063	ABC	Consumer	7.26Y	121.0	0.00	5.03	1.01	0	20	10	89	0.00	0.0	4.233	0.059	20	10	1	1
000061910403...	OH2063	A	Consumer	7.26Y	121.0	0.00	5.03	0.00	0	0	0	100	0.00	0.0	4.233	0.059	0	0	0	0
000061910403...	OH2063	A	Consumer	7.26Y	121.0	0.00	5.03	0.00	0	0	0	100	0.00	0.0	4.233	0.059	0	0	0	0
OH2051	OH1861	B	4 ACSR 7/1	7.26Y	120.9	0.03	5.06	4.05	3	29	-3	-99	0.01	0.0	4.363	0.190	0	0	0	1
000061910403...	OH2051	B	Consumer	7.26Y	120.9	0.00	5.06	4.05	0	29	-3	-99	0.00	0.0	4.363	0.190	29	-3	1	1
OH2038	OH1861	ABC	1/0 ACSR	7.25Y	120.9	0.12	5.14	54.93	24	1196	14	100	1.14	0.1	4.321	0.147	0	0	0	147
OH2066	OH2038	ABC	1/0 ACSR	7.24Y	120.7	0.18	5.32	53.76	23	1169	15	100	1.72	0.1	4.552	0.231	0	0	0	143
OH2072	OH2066	ABC	1/0 ACSR	7.23Y	120.4	0.23	5.55	52.72	23	1145	16	100	2.17	0.2	4.855	0.303	0	0	0	141
OH3591	OH2072	ABC	1/0 ACSR	7.22Y	120.3	0.12	5.67	50.48	22	1094	19	100	1.07	0.1	5.018	0.163	0	0	0	136
OH28861	OH3591	ABC	1/0 ACSR	7.22Y	120.3	0.00	5.67	50.48	22	1093	18	100	0.01	0.0	5.019	0.001	0	0	0	136
SW78-B	OH28861	ABC	Closed	7.22Y	120.3	0.00	5.67	50.48	0	1093	18	100	0.00	0.0	5.019	0.001	0	0	0	136
SW78-A	SW78-B	ABC	Closed	7.22Y	120.3	0.00	5.67	50.48	0	1093	18	100	0.00	0.0	5.019	0.001	0	0	0	136
OH28862	SW78-A	ABC	1/0 HD CU	7.22Y	120.3	0.00	5.67	50.48	16	1093	18	100	0.00	0.0	5.020	0.001	0	0	0	136
OH621	OH28862	A	4 ACSR 7/1	7.22Y	120.3	0.02	5.69	6.83	5	49	2	100	0.01	0.0	5.085	0.065	0	0	0	7
OH620	OH621	A	4 ACSR 7/1	7.22Y	120.3	0.02	5.71	4.91	4	35	2	100	0.01	0.0	5.169	0.085	0	0	0	5
OH625_6	OH620	A	4 ACSR 7/1	7.22Y	120.3	0.01	5.72	2.56	2	18	1	100	0.00	0.0	5.232	0.063	0	0	0	1
000061910404...	OH625_6	A	Consumer	7.22Y	120.3	0.00	5.72	2.56	0	18	1	100	0.00	0.0	5.232	0.063	18	1	1	1
OH619_6	OH620	A	4 ACSR 7/1	7.22Y	120.3	0.01	5.72	2.35	2	17	1	100	0.00	0.0	5.234	0.065	0	0	0	4
OH618_6	OH619_6	A	4 ACSR 7/1	7.22Y	120.3	0.01	5.73	2.35	2	17	1	100	0.00	0.0	5.368	0.134	0	0	0	4
OH627_6	OH618_6	A	4 ACSR 7/1	7.22Y	120.3	0.00	5.74	2.35	2	17	1	100	0.00	0.0	5.412	0.044	0	0	0	4
OH29680	OH627_6	A	4 ACSR 7/1	7.22Y	120.3	0.00	5.74	0.72	1	5	0	100	0.00	0.0	5.473	0.060	0	0	0	3
OH466_6	OH29680	A	4 ACSR 7/1	7.22Y	120.3	0.01	5.74	0.72	1	5	0	100	0.00	0.0	5.638	0.165	0	0	0	2
OH626_6	OH466_6	A	4 ACSR 7/1	7.22Y	120.3	0.00	5.74	0.72	1	5	0	100	0.00	0.0	5.679	0.040	0	0	0	2
000061910404...	OH626_6	A	Consumer	7.22Y	120.3	0.00	5.74	0.01	0	0	0	100	0.00	0.0	5.679	0.040	0	0	1	1
000061910404...	OH626_6	A	Consumer	7.22Y	120.3	0.00	5.74	0.71	0	5	0	100	0.00	0.0	5.679	0.040	5	0	1	1
000061910404...	OH626_6	A	Consumer	7.22Y	120.3	0.00	5.74	0.00	0	0	0	100	0.00	0.0	5.638	0.040	0	0	0	0
000061910404...	OH466_6	A	Consumer	7.22Y	120.3	0.00	5.74	0.00	0	0	0	100	0.00	0.0	5.473	0.040	0	0	1	1
000061910404...	OH29680	A	Consumer	7.22Y	120.3	0.00	5.74	0.00	0	0	0	100	0.00	0.0	5.412	0.040	12	1	1	1
000061910404...	OH627_6	A	Consumer	7.22Y	120.3	0.00	5.74	1.63	0	12	1	100	0.00	0.0	5.412	0.040	12	1	1	1
OH608_6	OH618_6	A	4 ACSR 7/1	7.22Y	120.3	0.00	5.73	0.00	0	0	0	100	0.00	0.0	5.523	0.155	0	0	0	0
OH611_6	OH608_6	A	4 ACSR 7/1	7.22Y	120.3	0.00	5.73	0.00	0	0	0	100	0.00	0.0	5.574	0.051	0	0	0	0
OH13_6	OH611_6	A	4 ACSR 7/1	7.22Y	120.3	0.00	5.73	0.00	0	0	0	100	0.00	0.0	5.724	0.150	0	0	0	0
000061930205...	OH13_6	A	Consumer	7.22Y	120.3	0.00	5.73	0.00	0	0	0	100	0.00	0.0	5.724	0.150	0	0	0	0
000061930205...	OH611_6	A	Consumer	7.22Y	120.3	0.00	5.73	0.00	0	0	0	100	0.00	0.0	5.574	0.150	0	0	0	0
OH609_6	OH608_6	A	4 ACSR 7/1	7.22Y	120.3	0.00	5.73	0.00	0	0	0	100	0.00	0.0	5.717	0.193	0	0	0	0
000061930205...	OH609_6	A	Consumer	7.22Y	120.3	0.00	5.73	0.00	0	0	0	100	0.00	0.0	5.717	0.193	0	0	0	0
000061910404...	OH618_6	A	Consumer	7.22Y	120.3	0.00	5.73	0.00	0	0	0	100	0.00	0.0	5.368	0.193	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
000061910404...	OH619_6	A	Consumer	7.22Y	120.3	0.00	5.72	0.00	0	0	0	100	0.00	0.0	5.234	0.193	0	0	0	0
000061910404...	OH621	A	Consumer	7.22Y	120.3	0.00	5.69	0.00	0	0	0	100	0.00	0.0	5.085	0.193	0	0	0	0
000061910404...	OH621	A	Consumer	7.22Y	120.3	0.00	5.69	0.68	0	5	0	100	0.00	0.0	5.085	0.193	5	0	1	1
000061910404...	OH621	A	Consumer	7.22Y	120.3	0.00	5.69	1.25	0	9	0	100	0.00	0.0	5.085	0.193	9	0	1	1
OH610	OH28862	ABC	1/0 HD CU	7.22Y	120.3	0.05	5.73	48.20	16	1044	15	100	0.45	0.0	5.137	0.117	0	0	0	129
OH629_6	OH610	ABC	1/0 HD CU	7.22Y	120.3	0.00	5.73	0.00	0	0	0	100	0.00	0.0	5.184	0.047	0	0	0	0
OH474_6	OH610	ABC	1/0 ACSR	7.21Y	120.1	0.16	5.89	48.06	21	1040	15	100	1.38	0.1	5.369	0.231	0	0	0	128
OH475_6	OH474_6	ABC	1/0 ACSR	7.21Y	120.1	0.02	5.91	48.05	21	1039	14	100	0.21	0.0	5.403	0.035	0	0	0	127
OH631_6	OH475_6	ABC	1/0 ACSR	7.20Y	119.9	0.14	6.06	47.45	21	1026	12	100	1.21	0.1	5.612	0.208	0	0	0	125
OH630_6	OH631_6	C	6A CWC 3 S	7.20Y	119.9	0.00	6.06	1.52	1	11	1	100	0.00	0.0	5.668	0.057	0	0	0	3
000061910404...	OH630_6	C	Consumer	7.20Y	119.9	0.00	6.06	1.50	0	11	1	100	0.00	0.0	5.668	0.057	11	1	1	1
000061910404...	OH630_6	C	Consumer	7.20Y	119.9	0.00	6.06	0.02	0	0	0	100	0.00	0.0	5.668	0.057	0	0	1	1
000061910404...	OH630_6	C	Consumer	7.20Y	119.9	0.00	6.06	0.00	0	0	0	100	0.00	0.0	5.668	0.057	0	0	1	1
OH4848	OH630_6	C	6A CWC 3 S	7.20Y	119.9	0.00	6.06	0.00	0	0	0	100	0.00	0.0	5.732	0.064	0	0	0	0
OH4852	OH4848	C	6A CWC 3 S	7.20Y	119.9	0.00	6.06	0.00	0	0	0	100	0.00	0.0	5.765	0.033	0	0	0	0
000061910404...	OH4852	C	Consumer	7.20Y	119.9	0.00	6.06	0.00	0	0	0	100	0.00	0.0	5.765	0.033	0	0	0	0
OH622_6	OH631_6	ABC	1/0 ACSR	7.19Y	119.9	0.05	6.10	42.80	19	924	7	100	0.36	0.0	5.688	0.076	0	0	0	110
OH623_6	OH622_6	ABC	1/0 ACSR	7.19Y	119.8	0.06	6.16	42.61	19	919	6	100	0.43	0.0	5.781	0.093	0	0	0	109
OH641_6	OH623_6	ABC	1/0 ACSR	7.19Y	119.8	0.03	6.19	42.37	18	914	6	100	0.26	0.0	5.836	0.055	0	0	0	108
OH655_6	OH641_6	ABC	1/0 ACSR	7.18Y	119.7	0.09	6.28	42.35	18	913	5	100	0.68	0.1	5.984	0.148	0	0	0	107
OH668_6	OH655_6	ABC	1/0 ACSR	7.17Y	119.6	0.16	6.44	42.35	18	913	5	100	1.22	0.1	6.248	0.264	0	0	0	106
OH669_6	OH668_6	C	6A CWC 3 S	7.17Y	119.6	0.00	6.45	0.38	0	3	0	100	0.00	0.0	6.437	0.188	0	0	0	1
000061900004...	OH669_6	C	Consumer	7.17Y	119.6	0.00	6.45	0.38	0	3	0	100	0.00	0.0	6.437	0.188	3	0	1	1
OH667_6	OH668_6	ABC	1/0 ACSR	7.17Y	119.5	0.06	6.51	41.06	18	884	2	100	0.45	0.1	6.353	0.104	0	0	0	102
OH684_6	OH667_6	C	6A CWC 3 S	7.17Y	119.5	0.01	6.52	2.17	2	16	1	100	0.00	0.0	6.473	0.120	0	0	0	1
OH671_6	OH684_6	C	6A CWC 3 S	7.17Y	119.5	0.01	6.52	2.17	2	16	1	100	0.00	0.0	6.542	0.069	0	0	0	1
000061900004...	OH671_6	C	Consumer	7.17Y	119.5	0.00	6.52	2.17	0	16	1	100	0.00	0.0	6.542	0.069	16	1	1	1
OH672_6	OH667_6	C	6A CWC 3 S	7.17Y	119.5	0.02	6.52	2.72	2	19	1	100	0.00	0.0	6.493	0.140	0	0	0	3
OH690_6	OH672_6	C	6A CWC 3 S	7.17Y	119.5	0.01	6.54	1.91	1	14	1	100	0.00	0.0	6.660	0.168	0	0	0	2
000061900004...	OH690_6	C	Consumer	7.17Y	119.5	0.00	6.54	0.00	0	0	0	100	0.00	0.0	6.660	0.168	0	0	1	1
000061900004...	OH690_6	C	Consumer	7.17Y	119.5	0.00	6.54	1.91	0	14	1	100	0.00	0.0	6.660	0.168	14	1	1	1
000061900004...	OH690_6	C	Consumer	7.17Y	119.5	0.00	6.54	1.91	0	14	1	100	0.00	0.0	6.660	0.168	14	1	1	1
000061900004...	OH672_6	C	Consumer	7.17Y	119.5	0.00	6.52	0.80	0	6	0	100	0.00	0.0	6.493	0.168	6	0	1	1
OH670_6	OH667_6	C	6A CWC 3 S	7.17Y	119.5	0.01	6.51	1.93	1	14	1	100	0.00	0.0	6.432	0.079	0	0	0	1
000061900004...	OH670_6	C	Consumer	7.17Y	119.5	0.00	6.51	0.00	0	0	0	100	0.00	0.0	6.432	0.079	0	0	0	0
000061900004...	OH670_6	C	Consumer	7.17Y	119.5	0.00	6.51	1.93	0	14	1	100	0.00	0.0	6.432	0.079	14	1	1	1
OH665_6	OH667_6	ABC	1/0 ACSR	7.16Y	119.4	0.09	6.59	38.79	17	834	0	100	0.61	0.1	6.510	0.158	0	0	0	97
OH29418	OH665_6	ABC	1/0 ACSR	7.16Y	119.4	0.03	6.62	38.79	17	834	-1	-100	0.20	0.0	6.561	0.051	0	0	0	96

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts														-----Element-----				
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OH666_6	OH29418	ABC	1/0 ACSR	7.16Y	119.3	0.03	6.65	38.02	17	817	-2	-100	0.22	0.0	6.621	0.060	0	0	0	95
OH673_6	OH666_6	C	6A CWC 3 S	7.16Y	119.3	0.01	6.67	2.65	2	19	1	100	0.00	0.0	6.717	0.097	0	0	0	1
000061900004...	OH673_6	C	Consumer	7.16Y	119.3	0.00	6.67	2.65	0	19	1	100	0.00	0.0	6.717	0.097	19	1	1	1
OH663_6	OH666_6	ABC	1/0 ACSR	7.16Y	119.3	0.05	6.71	37.14	16	798	-3	-100	0.35	0.0	6.719	0.098	0	0	0	94
OH664_6	OH663_6	ABC	1/0 ACSR	7.15Y	119.2	0.05	6.75	36.24	16	778	-4	-100	0.30	0.0	6.808	0.089	0	0	0	93
OH532_6	OH664_6	ABC	1/0 ACSR	7.15Y	119.2	0.03	6.78	36.24	16	778	-4	-100	0.17	0.0	6.859	0.051	0	0	0	93
OH703_6	OH532_6	ABC	1/0 ACSR	7.15Y	119.2	0.04	6.82	36.24	16	778	-4	-100	0.27	0.0	6.940	0.081	0	0	0	93
OH707_6	OH703_6	ABC	1/0 ACSR	7.14Y	119.0	0.23	7.05	36.24	16	777	-5	-100	1.49	0.2	7.381	0.442	0	0	0	93
OH727_6	OH707_6	C	6A CWC 3 S	7.14Y	118.9	0.02	7.07	3.90	3	28	1	100	0.00	0.0	7.510	0.129	0	0	0	3
000061900004...	OH727_6	C	Consumer	7.14Y	118.9	0.00	7.07	2.27	0	16	1	100	0.00	0.0	7.510	0.129	16	1	1	1
000061900004...	OH727_6	C	Consumer	7.14Y	118.9	0.00	7.07	0.00	0	0	0	100	0.00	0.0	7.510	0.129	0	0	0	0
000061900004...	OH727_6	C	Consumer	7.14Y	118.9	0.00	7.07	1.63	0	12	1	100	0.00	0.0	7.510	0.129	12	1	1	1
000061900004...	OH727_6	C	Consumer	7.14Y	118.9	0.00	7.07	0.00	0	0	0	100	0.00	0.0	7.510	0.129	0	0	1	1
000061900004...	OH727_6	C	Consumer	7.14Y	118.9	0.00	7.07	0.00	0	0	0	100	0.00	0.0	7.510	0.129	0	0	0	0
OH708_6	OH707_6	ABC	1/0 ACSR	7.13Y	118.9	0.07	7.12	34.94	15	748	-7	-100	0.46	0.1	7.527	0.146	0	0	0	90
OH724_6	OH708_6	C	6A CWC 3 S	7.13Y	118.8	0.06	7.18	9.56	7	68	3	100	0.03	0.0	7.668	0.141	0	0	0	6
OH725_6	OH724_6	C	6A CWC 3 S	7.13Y	118.8	0.05	7.22	6.13	4	44	2	100	0.02	0.0	7.853	0.185	0	0	0	3
OH744_6	OH725_6	C	6A CWC 3 S	7.12Y	118.7	0.11	7.33	6.13	4	44	2	100	0.04	0.1	8.274	0.421	0	0	0	3
OH743_6	OH744_6	C	6A CWC 3 S	7.12Y	118.6	0.02	7.35	6.13	4	44	2	100	0.01	0.0	8.349	0.075	0	0	0	3
OH745_6	OH743_6	C	6A CWC 3 S	7.12Y	118.6	0.00	7.35	0.00	0	0	0	100	0.00	0.0	8.461	0.112	0	0	0	0
000061900004...	OH745_6	C	Consumer	7.12Y	118.6	0.00	7.35	0.00	0	0	0	100	0.00	0.0	8.461	0.112	0	0	0	0
OH726_6	OH743_6	C	6A CWC 3 S	7.12Y	118.6	0.01	7.36	6.13	4	44	2	100	0.00	0.0	8.370	0.021	0	0	0	3
OH1482_6	OH726_6	C	6A CWC 3 S	7.12Y	118.6	0.01	7.37	3.20	2	23	1	100	0.00	0.0	8.452	0.082	0	0	0	2
OH1483_6	OH1482_6	C	6A CWC 3 S	7.12Y	118.6	0.01	7.38	3.20	2	23	1	100	0.00	0.0	8.545	0.093	0	0	0	2
OH1485	OH1483_6	C	6A CWC 3 S	7.12Y	118.6	0.01	7.39	2.24	2	16	1	100	0.00	0.0	8.621	0.075	0	0	0	1
000052400004...	OH1485	C	Consumer	7.12Y	118.6	0.00	7.39	2.24	0	16	1	100	0.00	0.0	8.621	0.075	16	1	1	1
OH1484_6	OH1483_6	C	6A CWC 3 S	7.12Y	118.6	0.00	7.38	0.96	1	7	0	100	0.00	0.0	8.636	0.091	0	0	0	1
OH1481_6	OH1484_6	C	6A CWC 3 S	7.12Y	118.6	0.00	7.38	0.00	0	0	0	100	0.00	0.0	8.716	0.080	0	0	0	0
000052410204...	OH1481_6	C	Consumer	7.12Y	118.6	0.00	7.38	0.00	0	0	0	100	0.00	0.0	8.716	0.080	0	0	0	0
000052400004...	OH1484_6	C	Consumer	7.12Y	118.6	0.00	7.38	0.96	0	7	0	100	0.00	0.0	8.636	0.080	7	0	1	1
000052410204...	OH1482_6	C	Consumer	7.12Y	118.6	0.00	7.37	0.00	0	0	0	100	0.00	0.0	8.452	0.080	0	0	0	0
000061900004...	OH726_6	C	Consumer	7.12Y	118.6	0.00	7.36	2.93	0	21	1	100	0.00	0.0	8.370	0.080	21	1	1	1
000061900004...	OH744_6	C	Consumer	7.12Y	118.7	0.00	7.33	0.00	0	0	0	100	0.00	0.0	8.274	0.080	0	0	0	0
000061900004...	OH725_6	C	Consumer	7.13Y	118.8	0.00	7.22	0.00	0	0	0	100	0.00	0.0	7.853	0.080	0	0	0	0
000061900004...	OH724_6	C	Consumer	7.13Y	118.8	0.00	7.18	1.53	0	11	1	100	0.00	0.0	7.668	0.080	11	1	1	1
000061900004...	OH724	C	Consumer	7.13Y	118.8	0.00	7.18	1.13	0	8	0	100	0.00	0.0	7.668	0.080	8	0	1	1
000061900004...	OH724	C	Consumer	7.13Y	118.8	0.00	7.18	0.77	0	5	0	100	0.00	0.0	7.668	0.080	5	0	1	1

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts										-----Element-----									
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru	
OH709_6	OH708_6	ABC	1/0 ACSR	7.13Y	118.9	0.02	7.14	31.76	14	680	-11	-100	0.12	0.0	7.572	0.045	0	0	0	84	
OH738_6	OH709_6	C	6A CWC 3 S	7.13Y	118.8	0.02	7.16	6.82	5	49	2	100	0.01	0.0	7.633	0.061	0	0	0	5	
OH720_6	OH738_6	C	6A CWC 3 S	7.13Y	118.8	0.02	7.18	5.71	4	41	2	100	0.01	0.0	7.717	0.084	0	0	0	4	
OH722_6	OH720_6	C	6A CWC 3 S	7.13Y	118.8	0.06	7.23	3.66	3	26	1	100	0.01	0.0	8.078	0.361	0	0	0	2	
OH723_6	OH722_6	C	6A CWC 3 S	7.13Y	118.8	0.02	7.25	2.10	1	15	1	100	0.00	0.0	8.255	0.177	0	0	0	1	
000061900004...	OH723_6	C	Consumer	7.13Y	118.8	0.00	7.25	2.10	0	15	1	100	0.00	0.0	8.255	0.177	15	1	1	1	
OH29423	OH722_6	C	6A CWC 3 S	7.13Y	118.8	0.02	7.25	1.56	1	11	1	100	0.00	0.0	8.323	0.245	0	0	0	1	
000061900004...	OH29423	C	Consumer	7.13Y	118.8	0.00	7.25	1.56	0	11	1	100	0.00	0.0	8.323	0.245	11	1	1	1	
000061900004...	OH722_6	C	Consumer	7.13Y	118.8	0.00	7.23	0.00	0	0	0	100	0.00	0.0	8.078	0.245	0	0	0	0	
OH721_6	OH720_6	C	6A CWC 3 S	7.13Y	118.8	0.01	7.19	2.05	1	15	1	100	0.00	0.0	7.841	0.124	0	0	0	2	
000061900004...	OH721_6	C	Consumer	7.13Y	118.8	0.00	7.19	0.00	0	0	0	100	0.00	0.0	7.841	0.124	0	0	0	0	
000061900004...	OH721_6	C	Consumer	7.13Y	118.8	0.00	7.19	1.39	0	10	0	100	0.00	0.0	7.841	0.124	10	0	1	1	
000061900004...	OH721_6	C	Consumer	7.13Y	118.8	0.00	7.19	0.66	0	5	0	100	0.00	0.0	7.841	0.124	5	0	1	1	
000061900004...	OH721_6	C	Consumer	7.13Y	118.8	0.00	7.19	0.00	0	0	0	100	0.00	0.0	7.841	0.124	0	0	0	0	
000061900004...	OH720_6	C	Consumer	7.13Y	118.8	0.00	7.18	0.00	0	0	0	100	0.00	0.0	7.717	0.124	0	0	0	0	
000061900004...	OH738_6	C	Consumer	7.13Y	118.8	0.00	7.16	1.11	0	8	0	100	0.00	0.0	7.633	0.124	8	0	1	1	
OH710_6	OH709_6	ABC	1/0 ACSR	7.13Y	118.8	0.08	7.22	29.50	13	631	-13	-100	0.42	0.1	7.760	0.188	0	0	0	79	
OH711_6	OH710_6	ABC	1/0 ACSR	7.12Y	118.7	0.11	7.33	29.27	13	626	-14	-100	0.58	0.1	8.022	0.262	0	0	0	78	
OH715_6	OH711_6	C	6A CWC 3 S	7.12Y	118.7	0.01	7.34	3.23	2	23	1	100	0.00	0.0	8.092	0.070	0	0	0	1	
000061930105...	OH715_6	C	Consumer	7.12Y	118.7	0.00	7.34	0.00	0	0	0	100	0.00	0.0	8.092	0.070	0	0	0	0	
000061930105...	OH715_6	C	Consumer	7.12Y	118.7	0.00	7.34	3.23	0	23	1	100	0.00	0.0	8.092	0.070	23	1	1	1	
OH712_6	OH711_6	ABC	1/0 ACSR	7.12Y	118.7	0.01	7.34	28.19	12	602	-16	-100	0.08	0.0	8.059	0.037	0	0	0	77	
OH714_6	OH712_6	C	6A CWC 3 S	7.12Y	118.7	0.00	7.34	0.00	0	0	0	100	0.00	0.0	8.128	0.070	0	0	0	0	
000061930105...	OH714_6	C	Consumer	7.12Y	118.7	0.00	7.34	0.00	0	0	0	100	0.00	0.0	8.128	0.070	0	0	0	0	
000061930105...	OH714_6	C	Consumer	7.12Y	118.7	0.00	7.34	0.00	0	0	0	100	0.00	0.0	8.128	0.070	0	0	0	0	
OH4232	OH712_6	ABC	1/0 ACSR	7.12Y	118.7	0.01	7.35	28.19	12	602	-16	-100	0.04	0.0	8.080	0.022	0	0	0	77	
OH728_6	OH4232	ABC	1/0 ACSR	7.12Y	118.6	0.02	7.37	27.80	12	594	-16	-100	0.12	0.0	8.141	0.061	0	0	0	75	
OH729_6	OH728_6	C	6A CWC 3 S	7.12Y	118.6	0.04	7.41	5.42	4	39	2	100	0.01	0.0	8.322	0.181	0	0	0	5	
OH764_6	OH729_6	C	6A CWC 3 S	7.11Y	118.6	0.01	7.42	4.21	3	30	1	100	0.00	0.0	8.384	0.062	0	0	0	3	
OH730_6	OH764_6	C	6A CWC 3 S	7.11Y	118.6	0.03	7.45	3.30	2	23	1	100	0.00	0.0	8.565	0.180	0	0	0	2	
OH731_6	OH730_6	C	6A CWC 3 S	7.11Y	118.5	0.01	7.46	1.45	1	10	0	100	0.00	0.0	8.664	0.099	0	0	0	1	
000061900004...	OH731_6	C	Consumer	7.11Y	118.5	0.00	7.46	1.45	0	10	0	100	0.00	0.0	8.664	0.099	10	0	1	1	
000061900004...	OH731_6	C	Consumer	7.11Y	118.5	0.00	7.46	0.00	0	0	0	100	0.00	0.0	8.664	0.099	0	0	0	0	
000061900004...	OH730_6	C	Consumer	7.11Y	118.6	0.00	7.45	1.86	0	13	1	100	0.00	0.0	8.565	0.099	13	1	1	1	
000061900004...	OH730_6	C	Consumer	7.11Y	118.6	0.00	7.45	0.00	0	0	0	100	0.00	0.0	8.565	0.099	0	0	0	0	
000061900004...	OH764_6	C	Consumer	7.11Y	118.6	0.00	7.42	0.90	0	6	0	100	0.00	0.0	8.384	0.099	6	0	1	1	
OH29124	OH729_6	C	6A CWC 3 S	7.11Y	118.6	0.00	7.42	0.56	0	4	0	100	0.00	0.0	8.481	0.159	0	0	0	1	

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
000052400004...	OH29124	C	Consumer	7.11Y	118.6	0.00	7.42	0.56	0	4	0	100	0.00	0.0	8.481	0.159	4	0	1	1
000061900004...	OH729_6	C	Consumer	7.12Y	118.6	0.00	7.41	0.65	0	5	0	100	0.00	0.0	8.322	0.159	5	0	1	1
OH4233	OH728_6	ABC	1/0 ACSR	7.12Y	118.6	0.02	7.40	26.00	11	555	-18	-100	0.12	0.0	8.210	0.069	0	0	0	70
OH716_6	OH4233	ABC	1/0 ACSR	7.11Y	118.6	0.05	7.45	26.00	11	555	-18	-100	0.23	0.0	8.342	0.132	0	0	0	70
OH1134_6	OH716_6	ABC	1/0 ACSR	7.10Y	118.4	0.14	7.59	26.00	11	554	-18	-100	0.69	0.1	8.738	0.396	0	0	0	70
OH1146_6	OH1134_6	C	6A CWC 3 S	7.10Y	118.4	0.00	7.59	0.00	0	0	0	100	0.00	0.0	8.775	0.037	0	0	0	0
000052410205...	OH1146_6	C	Consumer	7.10Y	118.4	0.00	7.59	0.00	0	0	0	100	0.00	0.0	8.775	0.037	0	0	0	0
OH1135_6	OH1134_6	ABC	1/0 ACSR	7.10Y	118.4	0.00	7.59	26.00	11	554	-19	-100	0.02	0.0	8.751	0.012	0	0	0	70
OH1141_6	OH1135_6	ABC	1/0 ACSR	7.10Y	118.4	0.00	7.60	26.00	11	554	-19	-100	0.01	0.0	8.758	0.008	0	0	0	70
OH1147_6	OH1141_6	C	6A CWC 3 S	7.10Y	118.4	0.00	7.60	0.00	0	0	0	100	0.00	0.0	8.833	0.075	0	0	0	0
OH1148_6	OH1147_6	C	6A CWC 3 S	7.10Y	118.4	0.00	7.60	0.00	0	0	0	100	0.00	0.0	8.873	0.040	0	0	0	0
000052410205...	OH1148_6	C	Consumer	7.10Y	118.4	0.00	7.60	0.00	0	0	0	100	0.00	0.0	8.873	0.040	0	0	0	0
000052410205...	OH1148_6	C	Consumer	7.10Y	118.4	0.00	7.60	0.00	0	0	0	100	0.00	0.0	8.873	0.040	0	0	0	0
000052410205...	OH1147_6	C	Consumer	7.10Y	118.4	0.00	7.60	0.00	0	0	0	100	0.00	0.0	8.833	0.040	0	0	0	0
OH1136_6	OH1141_6	ABC	1/0 ACSR	7.10Y	118.4	0.00	7.60	26.00	11	554	-19	-100	0.02	0.0	8.772	0.014	0	0	0	70
OH1137_6	OH1136_6	ABC	1/0 ACSR	7.10Y	118.4	0.00	7.60	26.00	11	554	-19	-100	0.01	0.0	8.778	0.006	0	0	0	70
OH1167_6	OH1137_6	C	6A CWC 3 S	7.10Y	118.4	0.00	7.60	0.00	0	0	0	100	0.00	0.0	8.807	0.029	0	0	0	0
OH1149_6	OH1167_6	C	6A CWC 3 S	7.10Y	118.4	0.00	7.60	0.00	0	0	0	100	0.00	0.0	8.865	0.058	0	0	0	0
OH1168_6	OH1149_6	C	6A CWC 3 S	7.10Y	118.4	0.00	7.60	0.00	0	0	0	100	0.00	0.0	8.897	0.032	0	0	0	0
000052410205...	OH1168_6	C	Consumer	7.10Y	118.4	0.00	7.60	0.00	0	0	0	100	0.00	0.0	8.897	0.032	0	0	0	0
OH1150_6	OH1149_6	C	6A CWC 3 S	7.10Y	118.4	0.00	7.60	0.00	0	0	0	100	0.00	0.0	8.916	0.051	0	0	0	0
000052410205...	OH1150_6	C	Consumer	7.10Y	118.4	0.00	7.60	0.00	0	0	0	100	0.00	0.0	8.916	0.051	0	0	0	0
000052410205...	OH1149_6	C	Consumer	7.10Y	118.4	0.00	7.60	0.00	0	0	0	100	0.00	0.0	8.865	0.051	0	0	0	0
000052410205...	OH1149_6	C	Consumer	7.10Y	118.4	0.00	7.60	0.00	0	0	0	100	0.00	0.0	8.865	0.051	0	0	0	0
000052410205...	OH1167_6	C	Consumer	7.10Y	118.4	0.00	7.60	0.00	0	0	0	100	0.00	0.0	8.807	0.051	0	0	0	0
OH1138_6	OH1137_6	ABC	1/0 ACSR	7.10Y	118.4	0.00	7.61	26.00	11	554	-19	-100	0.02	0.0	8.788	0.009	0	0	0	70
OH1139_6	OH1138_6	ABC	1/0 ACSR	7.10Y	118.4	0.00	7.61	26.00	11	554	-19	-100	0.02	0.0	8.799	0.011	0	0	0	70
OH1151_6	OH1139_6	C	6A CWC 3 S	7.10Y	118.4	0.00	7.61	0.00	0	0	0	100	0.00	0.0	8.843	0.044	0	0	0	0
OH1152_6	OH1151_6	C	6A CWC 3 S	7.10Y	118.4	0.00	7.61	0.00	0	0	0	100	0.00	0.0	8.908	0.065	0	0	0	0
000052410205...	OH1152_6	C	Consumer	7.10Y	118.4	0.00	7.61	0.00	0	0	0	100	0.00	0.0	8.908	0.065	0	0	0	0
OH1140_6	OH1139_6	ABC	1/0 ACSR	7.10Y	118.4	0.00	7.61	26.00	11	554	-19	-100	0.02	0.0	8.808	0.009	0	0	0	70
OH1153_6	OH1140_6	C	6A CWC 3 S	7.10Y	118.4	0.00	7.61	0.00	0	0	0	100	0.00	0.0	8.836	0.029	0	0	0	0
000052410205...	OH1153_6	C	Consumer	7.10Y	118.4	0.00	7.61	0.00	0	0	0	100	0.00	0.0	8.836	0.029	0	0	0	0
000052410205...	OH1153_6	C	Consumer	7.10Y	118.4	0.00	7.61	0.00	0	0	0	100	0.00	0.0	8.836	0.029	0	0	0	0
OH1142_6	OH1140_6	ABC	1/0 ACSR	7.10Y	118.4	0.01	7.62	26.00	11	554	-19	-100	0.04	0.0	8.828	0.020	0	0	0	70
OH1154_6	OH1142_6	C	6A CWC 3 S	7.10Y	118.4	0.00	7.62	0.00	0	0	0	100	0.00	0.0	8.922	0.094	0	0	0	0
OH1155_6	OH1154_6	C	6A CWC 3 S	7.10Y	118.4	0.00	7.62	0.00	0	0	0	100	0.00	0.0	9.005	0.083	0	0	0	0

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts														-----Element-----				
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OH1163_6	OH1155_6	C	6A CWC 3 S	7.10Y	118.4	0.00	7.62	0.00	0	0	0	100	0.00	0.0	9.030	0.025	0	0	0	0
OH1164_6	OH1163_6	C	6A CWC 3 S	7.10Y	118.4	0.00	7.62	0.00	0	0	0	100	0.00	0.0	9.063	0.033	0	0	0	0
OH1165_6	OH1164_6	C	6A CWC 3 S	7.10Y	118.4	0.00	7.62	0.00	0	0	0	100	0.00	0.0	9.079	0.016	0	0	0	0
OH1166_6	OH1165_6	C	6A CWC 3 S	7.10Y	118.4	0.00	7.62	0.00	0	0	0	100	0.00	0.0	9.101	0.022	0	0	0	0
000052410205...	OH1166_6	C	Consumer	7.10Y	118.4	0.00	7.62	0.00	0	0	0	100	0.00	0.0	9.101	0.022	0	0	0	0
000052410205...	OH1165_6	C	Consumer	7.10Y	118.4	0.00	7.62	0.00	0	0	0	100	0.00	0.0	9.079	0.022	0	0	0	0
000052410205...	OH1164_6	C	Consumer	7.10Y	118.4	0.00	7.62	0.00	0	0	0	100	0.00	0.0	9.063	0.022	0	0	0	0
000052410205...	OH1163_6	C	Consumer	7.10Y	118.4	0.00	7.62	0.00	0	0	0	100	0.00	0.0	9.030	0.022	0	0	0	0
000052410205...	OH1163_6	C	Consumer	7.10Y	118.4	0.00	7.62	0.00	0	0	0	100	0.00	0.0	9.030	0.022	0	0	0	0
OH1156_6	OH1155_6	C	6A CWC 3 S	7.10Y	118.4	0.00	7.62	0.00	0	0	0	100	0.00	0.0	9.023	0.018	0	0	0	0
OH1157_6	OH1156_6	C	6A CWC 3 S	7.10Y	118.4	0.00	7.62	0.00	0	0	0	100	0.00	0.0	9.080	0.057	0	0	0	0
OH1158_6	OH1157_6	C	6A CWC 3 S	7.10Y	118.4	0.00	7.62	0.00	0	0	0	100	0.00	0.0	9.148	0.068	0	0	0	0
000052410205...	OH1158_6	C	Consumer	7.10Y	118.4	0.00	7.62	0.00	0	0	0	100	0.00	0.0	9.148	0.068	0	0	0	0
000052410205...	OH1157_6	C	Consumer	7.10Y	118.4	0.00	7.62	0.00	0	0	0	100	0.00	0.0	9.080	0.068	0	0	0	0
000052410205...	OH1157_6	C	Consumer	7.10Y	118.4	0.00	7.62	0.00	0	0	0	100	0.00	0.0	9.080	0.068	0	0	0	0
000052410205...	OH1156_6	C	Consumer	7.10Y	118.4	0.00	7.62	0.00	0	0	0	100	0.00	0.0	9.023	0.068	0	0	0	0
000052410205...	OH1155_6	C	Consumer	7.10Y	118.4	0.00	7.62	0.00	0	0	0	100	0.00	0.0	9.005	0.068	0	0	0	0
OH1143_6	OH1142_6	ABC	1/0 ACSR	7.10Y	118.4	0.01	7.63	26.00	11	554	-19	-100	0.03	0.0	8.843	0.015	0	0	0	70
OH1144_6	OH1143_6	ABC	1/0 ACSR	7.10Y	118.4	0.00	7.63	26.00	11	554	-19	-100	0.02	0.0	8.857	0.013	0	0	0	70
OH1145_6	OH1144_6	ABC	1/0 ACSR	7.10Y	118.4	0.01	7.64	26.00	11	554	-19	-100	0.03	0.0	8.876	0.019	0	0	0	70
OH1160_6	OH1145_6	ABC	1/0 ACSR	7.10Y	118.4	0.00	7.64	26.00	11	554	-19	-100	0.02	0.0	8.888	0.012	0	0	0	69
OH1161_6	OH1160_6	C	6A CWC 3 S	7.10Y	118.4	0.00	7.64	0.00	0	0	0	100	0.00	0.0	8.944	0.056	0	0	0	0
000052410205...	OH1161_6	C	Consumer	7.10Y	118.4	0.00	7.64	0.00	0	0	0	100	0.00	0.0	8.944	0.056	0	0	0	0
OH3088	OH1160_6	ABC	1/0 ACSR	7.10Y	118.4	0.00	7.65	26.00	11	554	-19	-100	0.01	0.0	8.895	0.007	0	0	0	69
OH1232_6	OH3088	ABC	1/0 ACSR	7.10Y	118.3	0.07	7.72	26.00	11	554	-19	-100	0.35	0.1	9.099	0.204	0	0	0	69
OH29566	OH1232_6	ABC	1/0 ACSR	7.09Y	118.2	0.04	7.76	26.00	11	553	-19	-100	0.21	0.0	9.220	0.121	0	0	0	69
OH1129_6	OH29566	ABC	1/0 ACSR	7.09Y	118.2	0.02	7.78	25.18	11	535	-20	-100	0.09	0.0	9.276	0.055	0	0	0	68
OH29523	OH1129_6	C	6A CWC 3 S	7.09Y	118.2	0.06	7.84	7.57	5	54	3	100	0.03	0.1	9.467	0.191	0	0	0	5
OH29529	OH29523	C	6A CWC 3 S	7.09Y	118.1	0.04	7.88	2.80	2	20	1	100	0.01	0.0	9.773	0.307	0	0	0	1
OH29526	OH29529	C	6A CWC 3 S	7.09Y	118.1	0.00	7.88	0.00	0	0	0	100	0.00	0.0	10.245	0.472	0	0	0	0
000052400004...	OH29526	C	Consumer	7.09Y	118.1	0.00	7.88	0.00	0	0	0	100	0.00	0.0	10.245	0.472	0	0	0	0
000052410204...	OH29529	C	Consumer	7.09Y	118.1	0.00	7.88	2.80	0	20	1	100	0.00	0.0	9.773	0.472	20	1	1	1
OH1130_6	OH29523	C	6A CWC 3 S	7.09Y	118.1	0.01	7.85	4.77	3	34	2	100	0.00	0.0	9.514	0.047	0	0	0	4
OH1264_6	OH1130_6	C	6A CWC 3 S	7.09Y	118.1	0.02	7.88	4.77	3	34	2	100	0.01	0.0	9.637	0.123	0	0	0	4
OH1265_6	OH1264_6	C	6A CWC 3 S	7.09Y	118.1	0.02	7.90	3.07	2	22	1	100	0.00	0.0	9.798	0.161	0	0	0	3
OH29127	OH1265_6	C	6A CWC 3 S	7.08Y	118.1	0.03	7.93	1.68	1	12	1	100	0.00	0.0	10.218	0.420	0	0	0	1
OH1133_6	OH29127	C	6A CWC 3 S	7.08Y	118.1	0.00	7.93	0.00	0	0	0	100	0.00	0.0	10.430	0.213	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts												mi		-----Element-----				
		-Base Voltage:120.0-												Length		Cons		Cons		
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	On	Thru
000052410204...	OH1133_6	C	Consumer	7.08Y	118.1	0.00	7.93	0.00	0	0	0	100	0.00	0.0	10.430	0.213	0	0	0	0
000052400004...	OH29127	C	Consumer	7.08Y	118.1	0.00	7.93	1.68	0	12	1	100	0.00	0.0	10.218	0.213	12	1	1	1
000052410204...	OH1265_6	C	Consumer	7.09Y	118.1	0.00	7.90	1.39	0	10	0	100	0.00	0.0	9.798	0.213	10	0	1	1
000052400004...	OH1265_6	C	Consumer	7.09Y	118.1	0.00	7.90	0.00	0	0	0	100	0.00	0.0	9.798	0.213	0	0	1	1
000052400004...	OH1264_6	C	Consumer	7.09Y	118.1	0.00	7.88	1.70	0	12	1	100	0.00	0.0	9.637	0.213	12	1	1	1
OH1132_6	OH1130_6	C	6A CWC 3 S	7.09Y	118.1	0.00	7.85	0.00	0	0	0	100	0.00	0.0	9.563	0.049	0	0	0	0
000052400004...	OH1132_6	C	Consumer	7.09Y	118.1	0.00	7.85	0.00	0	0	0	100	0.00	0.0	9.563	0.049	0	0	0	0
OH1131_6	OH1130_6	C	6A CWC 3 S	7.09Y	118.1	0.00	7.85	0.00	0	0	0	100	0.00	0.0	9.593	0.079	0	0	0	0
000052410205...	OH1131_6	C	Consumer	7.09Y	118.1	0.00	7.85	0.00	0	0	0	100	0.00	0.0	9.593	0.079	0	0	0	0
000052410204...	OH1130_6	C	Consumer	7.09Y	118.1	0.00	7.85	0.00	0	0	0	100	0.00	0.0	9.514	0.079	0	0	0	0
OH1128_6	OH1129_6	ABC	1/0 ACSR	7.09Y	118.2	0.02	7.81	21.79	9	463	-24	-100	0.10	0.0	9.356	0.081	0	0	0	60
OH1121_6	OH1128_6	ABC	1/0 ACSR	7.09Y	118.1	0.05	7.85	21.79	9	463	-24	-100	0.20	0.0	9.519	0.163	0	0	0	60
OH1126_6	OH1121_6	ABC	1/0 ACSR	7.09Y	118.1	0.00	7.86	21.53	9	457	-24	-100	0.01	0.0	9.531	0.012	0	0	0	59
OH1127_6	OH1126_6	C	6A CWC 3 S	7.09Y	118.1	0.01	7.86	2.32	2	16	1	100	0.00	0.0	9.606	0.075	0	0	0	2
000052410205...	OH1127_6	C	Consumer	7.09Y	118.1	0.00	7.86	0.81	0	6	0	100	0.00	0.0	9.606	0.075	6	0	1	1
000052410205...	OH1127_6	C	Consumer	7.09Y	118.1	0.00	7.86	0.00	0	0	0	100	0.00	0.0	9.606	0.075	0	0	0	0
000052400005...	OH1127_6	C	Consumer	7.09Y	118.1	0.00	7.86	1.51	0	11	1	100	0.00	0.0	9.606	0.075	11	1	1	1
OH1110_6	OH1126_6	ABC	1/0 ACSR	7.09Y	118.1	0.04	7.90	20.76	9	441	-25	-100	0.16	0.0	9.679	0.148	0	0	0	57
OH1117_6	OH1110_6	C	6A CWC 3 S	7.09Y	118.1	0.00	7.90	0.00	0	0	0	100	0.00	0.0	9.695	0.016	0	0	0	0
OH1118_6	OH1117_6	C	6A CWC 3 S	7.09Y	118.1	0.00	7.90	0.00	0	0	0	100	0.00	0.0	9.731	0.036	0	0	0	0
000052410205...	OH1118_6	C	Consumer	7.09Y	118.1	0.00	7.90	0.00	0	0	0	100	0.00	0.0	9.731	0.036	0	0	0	0
OH1111_6	OH1118_6	C	6A CWC 3 S	7.09Y	118.1	0.00	7.90	0.00	0	0	0	100	0.00	0.0	9.765	0.034	0	0	0	0
000052410205...	OH1111_6	C	Consumer	7.09Y	118.1	0.00	7.90	0.00	0	0	0	100	0.00	0.0	9.765	0.034	0	0	0	0
OH1109_6	OH1110_6	ABC	1/0 ACSR	7.09Y	118.1	0.01	7.91	20.76	9	441	-25	-100	0.06	0.0	9.730	0.051	0	0	0	57
OH1108_6	OH1109_6	ABC	1/0 ACSR	7.08Y	118.1	0.02	7.93	19.11	8	405	-27	-100	0.07	0.0	9.806	0.075	0	0	0	55
OH1112_6	OH1108_6	C	6A CWC 3 S	7.08Y	118.1	0.00	7.93	0.00	0	0	0	100	0.00	0.0	9.833	0.027	0	0	0	0
000052400005...	OH1112_6	C	Consumer	7.08Y	118.1	0.00	7.93	0.00	0	0	0	100	0.00	0.0	9.833	0.027	0	0	0	0
OH1107_6	OH1108_6	ABC	1/0 ACSR	7.08Y	118.0	0.02	7.96	19.11	8	405	-27	-100	0.09	0.0	9.897	0.091	0	0	0	55
OH1106_6	OH1107_6	ABC	1/0 ACSR	7.08Y	118.0	0.02	7.98	18.09	8	383	-28	-100	0.07	0.0	9.982	0.085	0	0	0	53
OH29552	OH1106_6	ABC	1/0 ACSR	7.08Y	118.0	0.02	8.00	15.75	7	333	-31	-100	0.06	0.0	10.071	0.089	0	0	0	47
OH1283_6	OH29552	ABC	1/0 ACSR	7.08Y	118.0	0.02	8.02	15.22	7	322	-31	-100	0.07	0.0	10.184	0.113	0	0	0	46
OH29543	OH1283_6	ABC	1/0 ACSR	7.08Y	118.0	0.00	8.02	15.17	7	322	17	100	0.01	0.0	10.199	0.015	0	0	0	46
OH1284_6	OH29543	ABC	1/0 ACSR	7.08Y	118.0	0.00	8.03	13.94	6	296	16	100	0.01	0.0	10.215	0.016	0	0	0	45
REG5157	OH1284_6	C	Regulator	7.55Y	125.8	-7.86	0.16	36.83	74	260	14	100	percent Boost=	0.00	Tap= 0.0					39
OH1285_6	REG5157	C	6A CWC 3 S	7.55Y	125.8	0.07	0.23	34.53	25	260	14	100	0.14	0.1	10.262	0.047	0	0	0	39
OH1286_6	OH1285_6	C	6A CWC 3 S	7.54Y	125.6	0.14	0.37	34.53	25	260	14	100	0.29	0.1	10.362	0.100	0	0	0	39
OH1306_6	OH1286_6	C	6A CWC 3 S	7.50Y	125.1	0.56	0.93	33.69	24	254	13	100	1.10	0.4	10.757	0.395	0	0	0	38

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts															-----Element-----			
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OH1309_6	OH1306_6	C	6A CWC 3 S	7.50Y	125.1	0.00	0.94	0.89	1	7	0	100	0.00	0.0	10.854	0.098	0	0	0	1
000052410205...	OH1309_6	C	Consumer	7.50Y	125.1	0.00	0.94	0.89	0	7	0	100	0.00	0.0	10.854	0.098	7	0	1	1
OH1307_6	OH1306_6	C	6A CWC 3 S	7.50Y	125.0	0.10	1.03	32.80	23	246	12	100	0.19	0.1	10.830	0.074	0	0	0	37
OH29548	OH1307_6	C	6A CWC 3 S	7.50Y	124.9	0.02	1.06	7.40	5	55	3	100	0.01	0.0	10.898	0.068	0	0	0	7
OH1308_6	OH29548	C	6A CWC 3 S	7.49Y	124.9	0.03	1.09	6.83	5	51	2	100	0.01	0.0	11.005	0.107	0	0	0	6
OH1313_6	OH1308_6	C	6A CWC 3 S	7.49Y	124.9	0.02	1.11	5.05	4	38	2	100	0.01	0.0	11.104	0.098	0	0	0	5
OH29513	OH1313_6	C	6A CWC 3 S	7.49Y	124.9	0.01	1.12	4.27	3	32	2	100	0.00	0.0	11.177	0.074	0	0	0	4
OH29519	OH29513	C	6A CWC 3 S	7.49Y	124.9	0.02	1.14	3.47	2	26	1	100	0.00	0.0	11.344	0.167	0	0	0	2
OH1312_6	OH29519	C	6A CWC 3 S	7.49Y	124.8	0.01	1.16	3.47	2	26	1	100	0.00	0.0	11.436	0.092	0	0	0	2
OH1311_6	OH1312_6	C	6A CWC 3 S	7.49Y	124.8	0.01	1.17	2.81	2	21	1	100	0.00	0.0	11.508	0.072	0	0	0	1
OH1310_6	OH1311_6	C	6A CWC 3 S	7.49Y	124.8	0.02	1.18	2.81	2	21	1	100	0.00	0.0	11.637	0.128	0	0	0	1
000052410204...	OH1310_6	C	Consumer	7.49Y	124.8	0.00	1.18	2.81	0	21	1	100	0.00	0.0	11.637	0.128	21	1	1	1
000052410204...	OH1311_6	C	Consumer	7.49Y	124.8	0.00	1.17	0.00	0	0	0	100	0.00	0.0	11.508	0.128	0	0	0	0
000052400004...	OH1312_6	C	Consumer	7.49Y	124.8	0.00	1.16	0.65	0	5	0	100	0.00	0.0	11.436	0.128	5	0	1	1
000052400004...	OH29519	C	Consumer	7.49Y	124.9	0.00	1.14	0.00	0	0	0	100	0.00	0.0	11.344	0.128	0	0	0	0
000052400004...	OH29519	C	Consumer	7.49Y	124.9	0.00	1.14	0.00	0	0	0	100	0.00	0.0	11.344	0.128	0	0	0	0
000052410204...	OH29513	C	Consumer	7.49Y	124.9	0.00	1.12	0.81	0	6	0	100	0.00	0.0	11.177	0.128	6	0	1	1
000052400004...	OH29513	C	Consumer	7.49Y	124.9	0.00	1.12	0.00	0	0	0	100	0.00	0.0	11.177	0.128	0	0	1	1
000052410204...	OH1313_6	C	Consumer	7.49Y	124.9	0.00	1.11	0.78	0	6	0	100	0.00	0.0	11.104	0.128	6	0	1	1
000052410204...	OH1308_6	C	Consumer	7.49Y	124.9	0.00	1.09	0.00	0	0	0	100	0.00	0.0	11.005	0.128	0	0	0	0
000052400004...	OH1308_6	C	Consumer	7.49Y	124.9	0.00	1.09	1.78	0	13	1	100	0.00	0.0	11.005	0.128	13	1	1	1
000052410205...	OH29548	C	Consumer	7.50Y	124.9	0.00	1.06	0.57	0	4	0	100	0.00	0.0	10.898	0.128	4	0	1	1
OH1326_6	OH1307_6	C	6A CWC 3 S	7.49Y	124.9	0.11	1.14	25.39	18	190	10	100	0.16	0.1	10.932	0.102	0	0	0	30
OH1389_6	OH1326_6	C	6A CWC 3 S	7.49Y	124.8	0.09	1.23	23.05	16	172	9	100	0.12	0.1	11.022	0.089	0	0	0	29
OH1495_6	OH1389_6	C	6A CWC 3 S	7.49Y	124.8	0.00	1.23	0.00	0	0	0	100	0.00	0.0	11.191	0.170	0	0	0	0
000052401025...	OH1495_6	C	Consumer	7.49Y	124.8	0.00	1.23	0.00	0	0	0	100	0.00	0.0	11.191	0.170	0	0	0	0
OH1390_6	OH1389_6	C	6A CWC 3 S	7.47Y	124.4	0.34	1.57	23.05	16	172	9	100	0.45	0.3	11.369	0.347	0	0	0	29
OH1406_6	OH1390_6	C	6A CWC 3 S	7.47Y	124.4	0.00	1.57	0.76	1	6	0	100	0.00	0.0	11.463	0.094	0	0	0	1
000052400004...	OH1406_6	C	Consumer	7.47Y	124.4	0.00	1.57	0.76	0	6	0	100	0.00	0.0	11.463	0.094	6	0	1	1
000052400004...	OH1406_6	C	Consumer	7.47Y	124.4	0.00	1.57	0.00	0	0	0	100	0.00	0.0	11.463	0.094	0	0	0	0
OH1388_6	OH1390_6	C	6A CWC 3 S	7.46Y	124.4	0.04	1.61	22.29	16	166	8	100	0.05	0.0	11.411	0.042	0	0	0	28
OH1407_6	OH1388_6	C	6A CWC 3 S	7.46Y	124.3	0.05	1.66	7.59	5	57	3	100	0.02	0.0	11.570	0.159	0	0	0	12
OH1408_6	OH1407_6	C	6A CWC 3 S	7.45Y	124.2	0.13	1.79	6.05	4	45	2	100	0.05	0.1	12.097	0.527	0	0	0	11
OH1392_6	OH1408_6	C	6A CWC 3 S	7.45Y	124.2	0.04	1.83	5.97	4	44	2	100	0.01	0.0	12.254	0.157	0	0	0	10
OH1409_6	OH1392_6	C	6A CWC 3 S	7.45Y	124.2	0.01	1.84	0.88	1	7	0	100	0.00	0.0	12.613	0.359	0	0	0	3
OH1391_6	OH1409_6	C	6A CWC 3 S	7.45Y	124.1	0.01	1.85	0.69	0	5	0	100	0.00	0.0	12.909	0.296	0	0	0	2
000052400003...	OH1391_6	C	Consumer	7.45Y	124.1	0.00	1.85	0.09	0	1	0	100	0.00	0.0	12.909	0.296	1	0	1	1

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts															-----Element-----			
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
000052400003...	OH1391_6	C	Consumer	7.45Y	124.1	0.00	1.85	0.60	0	4	0	100	0.00	0.0	12.909	0.296	4	0	1	1
000052400003...	OH1409_6	C	Consumer	7.45Y	124.2	0.00	1.84	0.19	0	1	0	100	0.00	0.0	12.613	0.296	1	0	1	1
OH1393_6	OH1392_6	C	6A CWC 3 S	7.45Y	124.1	0.05	1.88	5.09	4	38	2	100	0.01	0.0	12.488	0.234	0	0	0	7
OH1411_6	OH1393_6	C	6A CWC 3 S	7.45Y	124.1	0.01	1.89	3.56	3	27	1	100	0.00	0.0	12.577	0.088	0	0	0	3
OH1413_6	OH1411_6	C	6A CWC 3 S	7.45Y	124.1	0.02	1.91	2.99	2	22	1	100	0.00	0.0	12.702	0.126	0	0	0	2
OH1521_6	OH1413_6	C	6A CWC 3 S	7.44Y	124.1	0.02	1.93	2.99	2	22	1	100	0.00	0.0	12.888	0.186	0	0	0	2
OH1412_6	OH1521_6	C	6A CWC 3 S	7.44Y	124.1	0.00	1.93	0.00	0	0	0	100	0.00	0.0	12.955	0.067	0	0	0	0
000052400003...	OH1412_6	C	Consumer	7.44Y	124.1	0.00	1.93	0.00	0	0	0	100	0.00	0.0	12.955	0.067	0	0	0	0
000052400003...	OH1521_6	C	Consumer	7.44Y	124.1	0.00	1.93	0.61	0	5	0	100	0.00	0.0	12.888	0.067	5	0	1	1
000052400003...	OH1521_6	C	Consumer	7.44Y	124.1	0.00	1.93	2.38	0	18	1	100	0.00	0.0	12.888	0.067	18	1	1	1
000052400003...	OH1413_6	C	Consumer	7.45Y	124.1	0.00	1.91	0.00	0	0	0	100	0.00	0.0	12.702	0.067	0	0	0	0
000052400003...	OH1411_6	C	Consumer	7.45Y	124.1	0.00	1.89	0.57	0	4	0	100	0.00	0.0	12.577	0.067	4	0	1	1
OH1410	OH1393_6	C	6A CWC 3 S	7.45Y	124.1	0.00	1.88	0.00	0	0	0	100	0.00	0.0	12.681	0.192	0	0	0	0
000052400003...	OH1410	C	Consumer	7.45Y	124.1	0.00	1.88	0.00	0	0	0	100	0.00	0.0	12.681	0.192	0	0	0	0
OH1394_6	OH1393_6	C	6A CWC 3 S	7.45Y	124.1	0.02	1.90	1.36	1	10	0	100	0.00	0.0	12.905	0.417	0	0	0	2
OH1527_6	OH1394_6	C	6A CWC 3 S	7.44Y	124.1	0.01	1.92	1.36	1	10	0	100	0.00	0.0	13.160	0.255	0	0	0	2
OH1528_6	OH1527_6	C	6A CWC 3 S	7.44Y	124.1	0.00	1.92	0.00	0	0	0	100	0.00	0.0	13.615	0.454	0	0	0	0
000052400003...	OH1528_6	C	Consumer	7.44Y	124.1	0.00	1.92	0.00	0	0	0	100	0.00	0.0	13.615	0.454	0	0	0	0
OH1422_6	OH1527_6	C	6A CWC 3 S	7.44Y	124.1	0.03	1.95	1.36	1	10	0	100	0.00	0.0	13.663	0.502	0	0	0	2
OH1566_6	OH1422_6	C	6A CWC 3 S	7.44Y	124.0	0.03	1.98	1.36	1	10	0	100	0.00	0.0	14.264	0.601	0	0	0	2
OH1398_6	OH1566_6	C	6A CWC 3 S	7.44Y	124.0	0.00	1.98	0.00	0	0	0	100	0.00	0.0	14.324	0.061	0	0	0	0
000052400002...	OH1566_6	C	Consumer	7.44Y	124.0	0.00	1.98	1.36	0	10	0	100	0.00	0.0	14.264	0.061	10	0	1	1
000052400002...	OH1566_6	C	Consumer	7.44Y	124.0	0.00	1.98	0.00	0	0	0	100	0.00	0.0	14.264	0.061	0	0	1	1
000052400002...	OH1422_6	C	Consumer	7.44Y	124.1	0.00	1.95	0.00	0	0	0	100	0.00	0.0	13.663	0.061	0	0	0	0
000052400003...	OH1394_6	C	Consumer	7.45Y	124.1	0.00	1.90	0.00	0	0	0	100	0.00	0.0	12.905	0.061	0	0	0	0
000052400003...	OH1394_6	C	Consumer	7.45Y	124.1	0.00	1.90	0.00	0	0	0	100	0.00	0.0	12.905	0.061	0	0	0	0
000052400003...	OH1393_6	C	Consumer	7.45Y	124.1	0.00	1.88	0.12	0	1	0	100	0.00	0.0	12.488	0.061	1	0	1	1
000052400003...	OH1393_6	C	Consumer	7.45Y	124.1	0.00	1.88	0.04	0	0	0	100	0.00	0.0	12.488	0.061	0	0	1	1
000052400004...	OH1408_6	C	Consumer	7.45Y	124.2	0.00	1.79	0.08	0	1	0	100	0.00	0.0	12.097	0.061	1	0	1	1
000052400004...	OH1407_6	C	Consumer	7.46Y	124.3	0.00	1.66	0.00	0	0	0	100	0.00	0.0	11.570	0.061	0	0	0	0
000052400004...	OH1407_6	C	Consumer	7.46Y	124.3	0.00	1.66	1.54	0	11	1	100	0.00	0.0	11.570	0.061	11	1	1	1
000052400004...	OH1407_6	C	Consumer	7.46Y	124.3	0.00	1.66	0.00	0	0	0	100	0.00	0.0	11.570	0.061	0	0	0	0
000052400004...	OH1407_6	C	Consumer	7.46Y	124.3	0.00	1.66	0.00	0	0	0	100	0.00	0.0	11.570	0.061	0	0	0	0
000052400004...	OH1407_6	C	Consumer	7.46Y	124.3	0.00	1.66	0.00	0	0	0	100	0.00	0.0	11.570	0.061	0	0	0	0
OH1287_6	OH1388_6	C	6A CWC 3 S	7.45Y	124.2	0.15	1.75	14.70	11	110	5	100	0.13	0.1	11.650	0.239	0	0	0	16
OH1469_6	OH1287_6	C	6A CWC 3 S	7.45Y	124.2	0.00	1.75	0.85	1	6	0	100	0.00	0.0	11.681	0.031	0	0	0	3
OH1458_6	OH1469_6	C	6A CWC 3 S	7.45Y	124.2	0.01	1.76	0.40	0	3	0	100	0.00	0.0	12.071	0.390	0	0	0	1

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts														-----Element-----				
		-Base Voltage:120.0-														mi				
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
OH1459_6	OH1458_6	C	6A CWC 3 S	7.45Y	124.2	0.00	1.76	0.40	0	3	0	100	0.00	0.0	12.158	0.087	0	0	0	1
OH1460_6	OH1459_6	C	6A CWC 3 S	7.45Y	124.2	0.01	1.77	0.40	0	3	0	100	0.00	0.0	12.508	0.350	0	0	0	1
OH1461_6	OH1460_6	C	6A CWC 3 S	7.45Y	124.2	0.00	1.77	0.00	0	0	0	100	0.00	0.0	12.588	0.080	0	0	0	0
OH1462_6	OH1461_6	C	6A CWC 3 S	7.45Y	124.2	0.00	1.77	0.00	0	0	0	100	0.00	0.0	12.675	0.087	0	0	0	0
OH1456_6	OH1462_6	C	6A CWC 3 S	7.45Y	124.2	0.00	1.77	0.00	0	0	0	100	0.00	0.0	12.927	0.252	0	0	0	0
000052400004...	OH1456_6	C	Consumer	7.45Y	124.2	0.00	1.77	0.00	0	0	0	100	0.00	0.0	12.927	0.252	0	0	0	0
000052400004...	OH1462_6	C	Consumer	7.45Y	124.2	0.00	1.77	0.00	0	0	0	100	0.00	0.0	12.675	0.252	0	0	0	0
000052400004...	OH1461_6	C	Consumer	7.45Y	124.2	0.00	1.77	0.00	0	0	0	100	0.00	0.0	12.588	0.252	0	0	0	0
000052400004...	OH1460_6	C	Consumer	7.45Y	124.2	0.00	1.77	0.40	0	3	0	100	0.00	0.0	12.508	0.252	3	0	1	1
000052400004...	OH1459_6	C	Consumer	7.45Y	124.2	0.00	1.76	0.00	0	0	0	100	0.00	0.0	12.158	0.252	0	0	0	0
000052400004...	OH1458_6	C	Consumer	7.45Y	124.2	0.00	1.76	0.00	0	0	0	100	0.00	0.0	12.071	0.252	0	0	0	0
000052400004...	OH1469_6	C	Consumer	7.45Y	124.2	0.00	1.75	0.06	0	0	0	100	0.00	0.0	11.681	0.252	0	0	1	1
000052400004...	OH1469_6	C	Consumer	7.45Y	124.2	0.00	1.75	0.40	0	3	0	100	0.00	0.0	11.681	0.252	3	0	1	1
OH1457_6	OH1287_6	C	6A CWC 3 S	7.43Y	123.9	0.36	2.11	13.85	10	103	5	100	0.29	0.3	12.262	0.611	0	0	0	13
OH1621_6	OH1457_6	C	4 ACSR 7/1	7.43Y	123.9	0.02	2.12	4.54	3	34	2	100	0.00	0.0	12.340	0.078	0	0	0	5
OH29130	OH1621_6	C	4 ACSR 7/1	7.43Y	123.9	0.01	2.13	1.97	1	15	1	100	0.00	0.0	12.418	0.079	0	0	0	1
000052400005...	OH29130	C	Consumer	7.43Y	123.9	0.00	2.13	1.97	0	15	1	100	0.00	0.0	12.418	0.079	15	1	1	1
OH1622_6	OH1621_6	C	4 ACSR 7/1	7.43Y	123.9	0.02	2.14	2.10	2	16	1	100	0.00	0.0	12.549	0.210	0	0	0	3
OH1651_6	OH1622_6	C	4 ACSR 7/1	7.43Y	123.8	0.04	2.19	2.10	2	16	1	100	0.01	0.0	13.049	0.500	0	0	0	3
OH1650_6	OH1651_6	C	4 ACSR 7/1	7.43Y	123.8	0.01	2.20	2.10	2	16	1	100	0.00	0.0	13.172	0.123	0	0	0	3
OH1659_6	OH1650_6	C	4 ACSR 7/1	7.42Y	123.7	0.07	2.27	2.10	2	16	1	100	0.01	0.0	13.953	0.781	0	0	0	3
OH1475_6	OH1659_6	C	4 ACSR 7/1	7.42Y	123.7	0.01	2.28	2.10	2	16	1	100	0.00	0.0	14.073	0.120	0	0	0	3
OH1657_6	OH1475_6	C	4 ACSR 7/1	7.42Y	123.7	0.01	2.29	1.39	1	10	0	100	0.00	0.0	14.219	0.145	0	0	0	2
OH1658_6	OH1657_6	C	4 ACSR 7/1	7.42Y	123.7	0.02	2.30	1.00	1	7	0	100	0.00	0.0	14.615	0.396	0	0	0	1
000052400006...	OH1658_6	C	Consumer	7.42Y	123.7	0.00	2.30	1.00	0	7	0	100	0.00	0.0	14.615	0.396	7	0	1	1
000052400006...	OH1657_6	C	Consumer	7.42Y	123.7	0.00	2.29	0.40	0	3	0	100	0.00	0.0	14.219	0.396	3	0	1	1
OH1474_6	OH1475_6	C	4 ACSR 7/1	7.42Y	123.7	0.00	2.28	0.00	0	0	0	100	0.00	0.0	14.173	0.100	0	0	0	0
SW96-A	OH1474_6	C	Open	7.42Y	123.7	0.00	2.28	0.00	0	0	0	100	0.00	0.0	14.173	0.100	0	0	0	0
000052400006...	OH1475_6	C	Consumer	7.42Y	123.7	0.00	2.28	0.71	0	5	0	100	0.00	0.0	14.073	0.100	5	0	1	1
000052400006...	OH1659_6	C	Consumer	7.42Y	123.7	0.00	2.27	0.00	0	0	0	100	0.00	0.0	13.953	0.100	0	0	0	0
000052400006...	OH1650_6	C	Consumer	7.43Y	123.8	0.00	2.20	0.00	0	0	0	100	0.00	0.0	13.172	0.100	0	0	0	0
000052400006...	OH1651_6	C	Consumer	7.43Y	123.8	0.00	2.19	0.00	0	0	0	100	0.00	0.0	13.049	0.100	0	0	0	0
OH1623_6	OH1622_6	C	4 ACSR 7/1	7.43Y	123.9	0.00	2.14	0.00	0	0	0	100	0.00	0.0	12.776	0.226	0	0	0	0
000052400005...	OH1623_6	C	Consumer	7.43Y	123.9	0.00	2.14	0.00	0	0	0	100	0.00	0.0	12.776	0.226	0	0	0	0
000052400005...	OH1621_6	C	Consumer	7.43Y	123.9	0.00	2.12	0.46	0	3	0	100	0.00	0.0	12.340	0.226	3	0	1	1
OH1473_6	OH1457_6	C	6A CWC 3 S	7.43Y	123.8	0.14	2.24	9.32	7	69	3	100	0.07	0.1	12.608	0.346	0	0	0	8
OH1630_6	OH1473_6	C	6A CWC 3 S	7.42Y	123.6	0.12	2.36	4.12	3	31	1	100	0.03	0.1	13.277	0.670	0	0	0	6

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OH1631_6	OH1630_6	C	6A CWC 3 S	7.41Y	123.5	0.09	2.45	4.12	3	31	1	100	0.02	0.1	13.821	0.544	0	0	0	6
OH1632_6	OH1631_6	C	6A CWC 3 S	7.41Y	123.5	0.02	2.47	3.27	2	24	1	100	0.00	0.0	13.946	0.125	0	0	0	4
OH1479_6	OH1632_6	C	6A CWC 3 S	7.41Y	123.5	0.00	2.48	3.17	2	23	1	100	0.00	0.0	13.977	0.030	0	0	0	3
OH1480_6	OH1479_6	C	6A CWC 3 S	7.41Y	123.5	0.02	2.49	1.30	1	10	0	100	0.00	0.0	14.269	0.293	0	0	0	1
000052400004...	OH1480_6	C	Consumer	7.41Y	123.5	0.00	2.49	1.30	0	10	0	100	0.00	0.0	14.269	0.293	10	0	1	1
OH1478_6	OH1479_6	C	6A CWC 3 S	7.41Y	123.5	0.02	2.49	1.88	1	14	1	100	0.00	0.0	14.219	0.242	0	0	0	1
000052400004...	OH1478_6	C	Consumer	7.41Y	123.5	0.00	2.49	1.88	0	14	1	100	0.00	0.0	14.219	0.242	14	1	1	1
000052400004...	OH1479_6	C	Consumer	7.41Y	123.5	0.00	2.48	0.00	0	0	0	100	0.00	0.0	13.977	0.242	0	0	1	1
000052400004...	OH1632_6	C	Consumer	7.41Y	123.5	0.00	2.47	0.10	0	1	0	100	0.00	0.0	13.946	0.242	1	0	1	1
000052400004...	OH1631_6	C	Consumer	7.41Y	123.5	0.00	2.45	0.00	0	0	0	100	0.00	0.0	13.821	0.242	0	0	0	0
000052400004...	OH1631_6	C	Consumer	7.41Y	123.5	0.00	2.45	0.47	0	3	0	100	0.00	0.0	13.821	0.242	3	0	1	1
000052400004...	OH1631_6	C	Consumer	7.41Y	123.5	0.00	2.45	0.39	0	3	0	100	0.00	0.0	13.821	0.242	3	0	1	1
000052400005...	OH1630_6	C	Consumer	7.42Y	123.6	0.00	2.36	0.00	0	0	0	100	0.00	0.0	13.277	0.242	0	0	0	0
OH1477_6	OH1473_6	C	6A CWC 3 S	7.42Y	123.6	0.13	2.37	2.61	2	19	1	100	0.02	0.1	13.797	1.190	0	0	0	1
000052400005...	OH1477_6	C	Consumer	7.42Y	123.6	0.00	2.37	2.61	0	19	1	100	0.00	0.0	13.797	1.190	19	1	1	1
000052400005...	OH1473_6	C	Consumer	7.43Y	123.8	0.00	2.24	2.58	0	19	1	100	0.00	0.0	12.608	1.190	19	1	1	1
000052400004...	OH1389_6	C	Consumer	7.49Y	124.8	0.00	1.23	0.00	0	0	0	100	0.00	0.0	11.022	1.190	0	0	0	0
OH1327_6	OH1326_6	C	6A CWC 3 S	7.49Y	124.8	0.01	1.15	2.34	2	18	1	100	0.00	0.0	11.044	0.112	0	0	0	1
000052410205...	OH1327_6	C	Consumer	7.49Y	124.8	0.00	1.15	2.34	0	18	1	100	0.00	0.0	11.044	0.112	18	1	1	1
000052410205...	OH1286_6	C	Consumer	7.54Y	125.6	0.00	0.37	0.84	0	6	0	100	0.00	0.0	10.362	0.112	6	0	1	1
OH29555	OH1284_6	C	6A CWC 3 S	7.08Y	117.9	0.04	8.06	4.99	4	35	2	100	0.01	0.0	10.399	0.183	0	0	0	6
OH29538	OH29555	C	6A CWC 3 S	7.08Y	117.9	0.01	8.08	2.53	2	18	1	100	0.00	0.0	10.540	0.141	0	0	0	4
OH29559	OH29538	C	6A CWC 3 S	7.07Y	117.9	0.01	8.08	0.49	0	3	0	100	0.00	0.0	10.812	0.272	0	0	0	1
000052400005...	OH29559	C	Consumer	7.07Y	117.9	0.00	8.08	0.49	0	3	0	100	0.00	0.0	10.812	0.272	3	0	1	1
OH29535	OH29538	C	6A CWC 3 S	7.08Y	117.9	0.00	8.08	0.87	1	6	0	100	0.00	0.0	10.626	0.086	0	0	0	1
000052410205...	OH29535	C	Consumer	7.08Y	117.9	0.00	8.08	0.87	0	6	0	100	0.00	0.0	10.626	0.086	6	0	1	1
000052410205...	OH29538	C	Consumer	7.08Y	117.9	0.00	8.08	0.54	0	4	0	100	0.00	0.0	10.540	0.086	4	0	1	1
000052410205...	OH29538	C	Consumer	7.08Y	117.9	0.00	8.08	0.63	0	4	0	100	0.00	0.0	10.540	0.086	4	0	1	1
000052400005...	OH29555	C	Consumer	7.08Y	117.9	0.00	8.06	1.25	0	9	0	100	0.00	0.0	10.399	0.086	9	0	1	1
000052400005...	OH29555	C	Consumer	7.08Y	117.9	0.00	8.06	1.20	0	9	0	100	0.00	0.0	10.399	0.086	9	0	1	1
OH1293_6	OH1284_6	C	6A CWC 3 S	7.08Y	118.0	0.00	8.03	0.00	0	0	0	100	0.00	0.0	10.271	0.055	0	0	0	0
000052400005...	OH1293_6	C	Consumer	7.08Y	118.0	0.00	8.03	0.00	0	0	0	100	0.00	0.0	10.271	0.055	0	0	0	0
000052410205...	OH29543	C	Consumer	7.08Y	118.0	0.00	8.02	3.68	0	26	1	100	0.00	0.0	10.199	0.055	26	1	1	1
000052410205...	OH1283_6	C	Consumer	7.08Y	118.0	0.00	8.02	0.00	0	0	0	100	0.00	0.0	10.184	0.055	0	0	0	0
CAP-Big Whit...	OH1283_6	C	Cap (50)	7.08Y	118.0	0.00	8.02	-6.83	0	0	-48	0	0.00	0.0	10.184	0.055	0	0	0	0
000052400005...	OH29552	C	Consumer	7.08Y	118.0	0.00	8.00	1.62	0	11	1	100	0.00	0.0	10.071	0.055	11	1	1	1
OH1105	OH1106	C	6A CWC 3 S	7.08Y	118.0	0.01	7.99	5.68	4	40	2	100	0.00	0.0	10.041	0.059	0	0	0	5

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts														-----Element-----							
		-Base Voltage:120.0-														mi		Length		Cons		Cons	
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	(mi)	KW	KVAR	On	Thru			
000052410205...	OH1105	C	Consumer	7.08Y	118.0	0.00	7.99	0.00	0	0	0	100	0.00	0.0	10.041	0.059	0	0	0	0			
OH1298_6	OH1105	C	6A CWC 3 S	7.08Y	118.0	0.01	8.00	4.09	3	29	1	100	0.00	0.0	10.082	0.041	0	0	0	3			
000052410205...	OH1298_6	C	Consumer	7.08Y	118.0	0.00	8.00	0.00	0	0	0	100	0.00	0.0	10.082	0.041	0	0	0	0			
000052410205...	OH1298_6	C	Consumer	7.08Y	118.0	0.00	8.00	0.00	0	0	0	100	0.00	0.0	10.082	0.041	0	0	0	0			
OH1341_6	OH1298_6	C	6A CWC 3 S	7.08Y	118.0	0.01	8.01	4.09	3	29	1	100	0.00	0.0	10.125	0.043	0	0	0	3			
OH1340_6	OH1341_6	C	6A CWC 3 S	7.08Y	118.0	0.01	8.01	4.09	3	29	1	100	0.00	0.0	10.165	0.040	0	0	0	3			
OH1349_6	OH1340_6	C	6A CWC 3 S	7.08Y	117.9	0.04	8.05	4.09	3	29	1	100	0.01	0.0	10.397	0.232	0	0	0	3			
OH1353_6	OH1349_6	C	6A CWC 3 S	7.08Y	117.9	0.01	8.06	4.09	3	29	1	100	0.00	0.0	10.451	0.054	0	0	0	3			
OH1351_6	OH1353_6	C	6A CWC 3 S	7.07Y	117.9	0.04	8.10	4.09	3	29	1	100	0.01	0.0	10.656	0.205	0	0	0	3			
OH1336_6	OH1351_6	C	6A CWC 3 S	7.07Y	117.9	0.00	8.10	1.36	1	10	0	100	0.00	0.0	10.684	0.027	0	0	0	1			
OH1330_6	OH1336_6	C	6A CWC 3 S	7.07Y	117.9	0.00	8.10	0.00	0	0	0	100	0.00	0.0	10.862	0.178	0	0	0	0			
000052400005...	OH1330_6	C	Consumer	7.07Y	117.9	0.00	8.10	0.00	0	0	0	100	0.00	0.0	10.862	0.178	0	0	0	0			
000052400005...	OH1336_6	C	Consumer	7.07Y	117.9	0.00	8.10	1.36	0	10	0	100	0.00	0.0	10.684	0.178	10	0	1	1			
OH1332_6	OH1332_6	C	6A CWC 3 S	7.07Y	117.9	0.01	8.10	2.73	2	19	1	100	0.00	0.0	10.704	0.048	0	0	0	2			
OH1333_6	OH1332_6	C	6A CWC 3 S	7.07Y	117.9	0.01	8.11	2.73	2	19	1	100	0.00	0.0	10.775	0.071	0	0	0	2			
OH1335_6	OH1333_6	C	6A CWC 3 S	7.07Y	117.9	0.01	8.12	2.67	2	19	1	100	0.00	0.0	10.901	0.126	0	0	0	1			
OH1334_6	OH1335_6	C	6A CWC 3 S	7.07Y	117.9	0.01	8.13	2.67	2	19	1	100	0.00	0.0	10.980	0.079	0	0	0	1			
000052400005...	OH1334_6	C	Consumer	7.07Y	117.9	0.00	8.13	0.00	0	0	0	100	0.00	0.0	10.980	0.079	0	0	0	0			
000052400005...	OH1334_6	C	Consumer	7.07Y	117.9	0.00	8.13	2.67	0	19	1	100	0.00	0.0	10.980	0.079	19	1	1	1			
000052400005...	OH1335_6	C	Consumer	7.07Y	117.9	0.00	8.12	0.00	0	0	0	100	0.00	0.0	10.901	0.079	0	0	0	0			
000052410205...	OH1333_6	C	Consumer	7.07Y	117.9	0.00	8.11	0.00	0	0	0	100	0.00	0.0	10.775	0.079	0	0	0	0			
000052400005...	OH1333_6	C	Consumer	7.07Y	117.9	0.00	8.11	0.06	0	0	0	100	0.00	0.0	10.775	0.079	0	0	1	1			
000052410205...	OH1332_6	C	Consumer	7.07Y	117.9	0.00	8.10	0.00	0	0	0	100	0.00	0.0	10.704	0.079	0	0	0	0			
000052410205...	OH1353_6	C	Consumer	7.08Y	117.9	0.00	8.06	0.00	0	0	0	100	0.00	0.0	10.451	0.079	0	0	0	0			
000052410205...	OH1353_6	C	Consumer	7.08Y	117.9	0.00	8.06	0.00	0	0	0	100	0.00	0.0	10.451	0.079	0	0	0	0			
000052410205...	OH1349_6	C	Consumer	7.08Y	117.9	0.00	8.05	0.00	0	0	0	100	0.00	0.0	10.397	0.079	0	0	0	0			
000052410205...	OH1340_6	C	Consumer	7.08Y	118.0	0.00	8.01	0.00	0	0	0	100	0.00	0.0	10.165	0.079	0	0	0	0			
000052410205...	OH1341_6	C	Consumer	7.08Y	118.0	0.00	8.01	0.00	0	0	0	100	0.00	0.0	10.125	0.079	0	0	0	0			
OH1104_6	OH1105	C	6A CWC 3 S	7.08Y	118.0	0.00	8.00	1.59	1	11	1	100	0.00	0.0	10.106	0.065	0	0	0	2			
OH1377_6	OH1104_6	C	6A CWC 3 S	7.08Y	118.0	0.01	8.01	1.59	1	11	1	100	0.00	0.0	10.302	0.196	0	0	0	2			
OH1379_6	OH1377_6	C	6A CWC 3 S	7.08Y	118.0	0.01	8.02	1.54	1	11	1	100	0.00	0.0	10.410	0.108	0	0	0	1			
OH533_6	OH1379_6	C	6A CWC 3 S	7.08Y	118.0	0.00	8.02	0.00	0	0	0	100	0.00	0.0	10.650	0.240	0	0	0	0			
000052410205...	OH533_6	C	Consumer	7.08Y	118.0	0.00	8.02	0.00	0	0	0	100	0.00	0.0	10.650	0.240	0	0	0	0			
000052400005...	OH1379_6	C	Consumer	7.08Y	118.0	0.00	8.02	1.54	0	11	1	100	0.00	0.0	10.410	0.240	11	1	1	1			
000052410205...	OH1377_6	C	Consumer	7.08Y	118.0	0.00	8.01	0.06	0	0	0	100	0.00	0.0	10.302	0.240	0	0	1	1			
OH1299_6	OH1104_6	C	6A CWC 3 S	7.08Y	118.0	0.00	8.00	0.00	0	0	0	100	0.00	0.0	10.159	0.053	0	0	0	0			
000052410205...	OH1299_6	C	Consumer	7.08Y	118.0	0.00	8.00	0.00	0	0	0	100	0.00	0.0	10.159	0.053	0	0	0	0			

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts											mi		-----Element-----					
		-Base Voltage:120.0-											From	Length			Cons	Cons		
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	Src	(mi)	KW	KVAR	On	Thru
000052410205...	OH1299_6	C	Consumer	7.08Y	118.0	0.00	8.00	0.00	0	0	0	100	0.00	0.0	10.159	0.053	0	0	0	0
000052400005...	OH1104_6	C	Consumer	7.08Y	118.0	0.00	8.00	0.00	0	0	0	100	0.00	0.0	10.106	0.053	0	0	0	0
000052400005...	OH1106_6	C	Consumer	7.08Y	118.0	0.00	7.98	1.39	0	10	0	100	0.00	0.0	9.982	0.053	10	0	1	1
000052410205...	OH1107_6	C	Consumer	7.08Y	118.0	0.00	7.96	0.00	0	0	0	100	0.00	0.0	9.897	0.053	0	0	0	0
000052410205...	OH1107_6	C	Consumer	7.08Y	118.0	0.00	7.96	0.63	0	4	0	100	0.00	0.0	9.897	0.053	4	0	1	1
000052400005...	OH1107_6	C	Consumer	7.08Y	118.0	0.00	7.96	2.45	0	17	1	100	0.00	0.0	9.897	0.053	17	1	1	1
000052410205...	OH1108_6	C	Consumer	7.08Y	118.1	0.00	7.93	0.00	0	0	0	100	0.00	0.0	9.806	0.053	0	0	0	0
000052410205...	OH1109_6	C	Consumer	7.09Y	118.1	0.00	7.91	0.66	0	5	0	100	0.00	0.0	9.730	0.053	5	0	1	1
000052400005...	OH1109_6	C	Consumer	7.09Y	118.1	0.00	7.91	4.32	0	31	1	100	0.00	0.0	9.730	0.053	31	1	1	1
000052400005...	OH1109_6	C	Consumer	7.09Y	118.1	0.00	7.91	0.00	0	0	0	100	0.00	0.0	9.730	0.053	0	0	0	0
000052410205...	OH1126_6	C	Consumer	7.09Y	118.1	0.00	7.86	0.00	0	0	0	100	0.00	0.0	9.531	0.053	0	0	0	0
000052410205...	OH1126_6	C	Consumer	7.09Y	118.1	0.00	7.86	0.00	0	0	0	100	0.00	0.0	9.531	0.053	0	0	0	0
000052410205...	OH1126_6	C	Consumer	7.09Y	118.1	0.00	7.86	0.00	0	0	0	100	0.00	0.0	9.531	0.053	0	0	0	0
000052410205...	OH1126_6	C	Consumer	7.09Y	118.1	0.00	7.86	0.00	0	0	0	100	0.00	0.0	9.531	0.053	0	0	0	0
OH1122	OH1121_6	C	6A CWC 3 S	7.09Y	118.1	0.00	7.86	0.78	1	5	0	100	0.00	0.0	9.644	0.125	0	0	0	1
OH1124	OH1122_6	C	6A CWC 3 S	7.09Y	118.1	0.00	7.86	0.78	1	5	0	100	0.00	0.0	9.720	0.075	0	0	0	1
OH1125_6	OH1124	C	6A CWC 3 S	7.09Y	118.1	0.00	7.86	0.78	1	5	0	100	0.00	0.0	9.773	0.053	0	0	0	1
OH1123_6	OH1125_6	C	6A CWC 3 S	7.09Y	118.1	0.00	7.87	0.78	1	5	0	100	0.00	0.0	9.869	0.097	0	0	0	1
OH29563	OH1123_6	C	6A CWC 3 S	7.09Y	118.1	0.00	7.87	0.78	1	5	0	100	0.00	0.0	10.015	0.146	0	0	0	1
000052400005...	OH29563	C	Consumer	7.09Y	118.1	0.00	7.87	0.78	0	5	0	100	0.00	0.0	10.015	0.146	5	0	1	1
000052410205...	OH1123_6	C	Consumer	7.09Y	118.1	0.00	7.87	0.00	0	0	0	100	0.00	0.0	9.869	0.146	0	0	0	0
000052410205...	OH1125_6	C	Consumer	7.09Y	118.1	0.00	7.86	0.00	0	0	0	100	0.00	0.0	9.773	0.146	0	0	0	0
000052410205...	OH1124_6	C	Consumer	7.09Y	118.1	0.00	7.86	0.00	0	0	0	100	0.00	0.0	9.720	0.146	0	0	0	0
000052410205...	OH1122	C	Consumer	7.09Y	118.1	0.00	7.86	0.00	0	0	0	100	0.00	0.0	9.644	0.146	0	0	0	0
000052410205...	OH1128_6	C	Consumer	7.09Y	118.2	0.00	7.81	0.00	0	0	0	100	0.00	0.0	9.356	0.146	0	0	0	0
000052410205...	OH1129_6	C	Consumer	7.09Y	118.2	0.00	7.78	1.33	0	9	0	100	0.00	0.0	9.276	0.146	9	0	1	1
000052410205...	OH1129_6	C	Consumer	7.09Y	118.2	0.00	7.78	1.31	0	9	0	100	0.00	0.0	9.276	0.146	9	0	1	1
000052400005...	OH1129_6	C	Consumer	7.09Y	118.2	0.00	7.78	0.00	0	0	0	100	0.00	0.0	9.276	0.146	0	0	1	1
000052400005...	OH29566	C	Consumer	7.09Y	118.2	0.00	7.76	2.48	0	18	1	100	0.00	0.0	9.220	0.146	18	1	1	1
OH1234	OH1232_6	C	6A CWC 3 S	7.10Y	118.3	0.00	7.72	0.00	0	0	0	100	0.00	0.0	9.141	0.042	0	0	0	0
OH1233_6	OH1234	C	6A CWC 3 S	7.10Y	118.3	0.00	7.72	0.00	0	0	0	100	0.00	0.0	9.219	0.078	0	0	0	0
000052410205...	OH1233_6	C	Consumer	7.10Y	118.3	0.00	7.72	0.00	0	0	0	100	0.00	0.0	9.219	0.078	0	0	0	0
000052410205...	OH1234	C	Consumer	7.10Y	118.3	0.00	7.72	0.00	0	0	0	100	0.00	0.0	9.141	0.078	0	0	0	0
OH3089	OH3088	C	6A CWC 3 S	7.10Y	118.4	0.00	7.65	0.00	0	0	0	100	0.00	0.0	8.917	0.022	0	0	0	0
OH3151	OH3089	C	6A CWC 3 S	7.10Y	118.4	0.00	7.65	0.00	0	0	0	100	0.00	0.0	8.927	0.010	0	0	0	0
000052410205...	OH3151	C	Consumer	7.10Y	118.4	0.00	7.65	0.00	0	0	0	100	0.00	0.0	8.927	0.010	0	0	0	0
OH1159	OH1145_6	C	6A CWC 3 S	7.10Y	118.4	0.00	7.64	0.00	0	0	0	100	0.00	0.0	8.943	0.067	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													mi		-----Element-----		Cons Cons	
		-Base Voltage:120.0-													From	Length	KW	KVAR	On	Thru
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	Src	(mi)				
000052410205...	OH1159	C	Consumer	7.10Y	118.4	0.00	7.64	0.00	0	0	0	100	0.00	0.0	8.943	0.067	0	0	0	0
000052410205...	OH1145_6	C	Consumer	7.10Y	118.4	0.00	7.64	0.00	0	0	0	100	0.00	0.0	8.876	0.067	0	0	0	0
000052410205...	OH1145_6	C	Consumer	7.10Y	118.4	0.00	7.64	0.00	0	0	0	100	0.00	0.0	8.876	0.067	0	0	1	1
000052410205...	OH1144_6	C	Consumer	7.10Y	118.4	0.00	7.63	0.00	0	0	0	100	0.00	0.0	8.857	0.067	0	0	0	0
000052410205...	OH1144_6	C	Consumer	7.10Y	118.4	0.00	7.63	0.00	0	0	0	100	0.00	0.0	8.857	0.067	0	0	0	0
000052410205...	OH1143_6	C	Consumer	7.10Y	118.4	0.00	7.63	0.00	0	0	0	100	0.00	0.0	8.843	0.067	0	0	0	0
000052410205...	OH1140_6	C	Consumer	7.10Y	118.4	0.00	7.61	0.00	0	0	0	100	0.00	0.0	8.808	0.067	0	0	0	0
000052410205...	OH1138_6	C	Consumer	7.10Y	118.4	0.00	7.61	0.00	0	0	0	100	0.00	0.0	8.788	0.067	0	0	0	0
000052410205...	OH1136_6	C	Consumer	7.10Y	118.4	0.00	7.60	0.00	0	0	0	100	0.00	0.0	8.772	0.067	0	0	0	0
000052410205...	OH1135_6	C	Consumer	7.10Y	118.4	0.00	7.59	0.00	0	0	0	100	0.00	0.0	8.751	0.067	0	0	0	0
000052410205...	OH1134_6	C	Consumer	7.10Y	118.4	0.00	7.59	0.00	0	0	0	100	0.00	0.0	8.738	0.067	0	0	0	0
000061930105...	OH716_6	C	Consumer	7.11Y	118.6	0.00	7.45	0.00	0	0	0	100	0.00	0.0	8.342	0.067	0	0	0	0
000061930105...	OH4233	C	Consumer	7.12Y	118.6	0.00	7.40	0.00	0	0	0	100	0.00	0.0	8.210	0.067	0	0	0	0
000061930105...	OH4232	C	Consumer	7.12Y	118.7	0.00	7.35	0.00	0	0	0	100	0.00	0.0	8.080	0.067	0	0	0	0
000061930105...	OH4232	C	Consumer	7.12Y	118.7	0.00	7.35	0.62	0	4	0	100	0.00	0.0	8.080	0.067	4	0	1	1
000061930105...	OH4232	C	Consumer	7.12Y	118.7	0.00	7.35	0.56	0	4	0	100	0.00	0.0	8.080	0.067	4	0	1	1
000061900004...	OH710_6	C	Consumer	7.13Y	118.8	0.00	7.22	0.69	0	5	0	100	0.00	0.0	7.760	0.067	5	0	1	1
000061900004...	OH710_6	C	Consumer	7.13Y	118.8	0.00	7.22	0.00	0	0	0	100	0.00	0.0	7.760	0.067	0	0	0	0
OH704_6	OH703_6	C	6A CWC 3 S	7.15Y	119.2	0.00	6.82	0.00	0	0	0	100	0.00	0.0	7.033	0.094	0	0	0	0
000061900004...	OH704_6	C	Consumer	7.15Y	119.2	0.00	6.82	0.00	0	0	0	100	0.00	0.0	7.033	0.094	0	0	0	0
OH531_6	OH532_6	C	6A CWC 3 S	7.15Y	119.2	0.00	6.78	0.00	0	0	0	100	0.00	0.0	6.958	0.099	0	0	0	0
000061900003...	OH531_6	C	Consumer	7.15Y	119.2	0.00	6.78	0.00	0	0	0	100	0.00	0.0	6.958	0.099	0	0	0	0
000061900004...	OH664_6	C	Consumer	7.15Y	119.2	0.00	6.75	0.00	0	0	0	100	0.00	0.0	6.808	0.099	0	0	0	0
000061900004...	OH663_6	C	Consumer	7.16Y	119.3	0.00	6.71	2.70	0	19	1	100	0.00	0.0	6.719	0.099	19	1	1	1
OH29420	OH29418	C	6A CWC 3 S	7.16Y	119.4	0.01	6.63	2.29	2	16	1	100	0.00	0.0	6.687	0.126	0	0	0	1
000061900004...	OH29420	C	Consumer	7.16Y	119.4	0.00	6.63	2.29	0	16	1	100	0.00	0.0	6.687	0.126	16	1	1	1
000061900004...	OH665_6	C	Consumer	7.16Y	119.4	0.00	6.59	0.00	0	0	0	100	0.00	0.0	6.510	0.126	0	0	0	0
000061900004...	OH665_6	C	Consumer	7.16Y	119.4	0.00	6.59	0.00	0	0	0	100	0.00	0.0	6.510	0.126	0	0	1	1
000061900004...	OH668_6	C	Consumer	7.17Y	119.6	0.00	6.44	0.42	0	3	0	100	0.00	0.0	6.248	0.126	3	0	1	1
000061900004...	OH668_6	C	Consumer	7.17Y	119.6	0.00	6.44	0.75	0	5	0	100	0.00	0.0	6.248	0.126	5	0	1	1
000061900004...	OH668_6	C	Consumer	7.17Y	119.6	0.00	6.44	2.32	0	17	1	100	0.00	0.0	6.248	0.126	17	1	1	1
OH656_6	OH655_6	C	6A CWC 3 S	7.18Y	119.7	0.00	6.28	0.00	0	0	0	100	0.00	0.0	6.079	0.095	0	0	0	1
OH657_6	OH656_6	C	6A CWC 3 S	7.18Y	119.7	0.00	6.28	0.00	0	0	0	100	0.00	0.0	6.222	0.143	0	0	0	0
000061910404...	OH657_6	C	Consumer	7.18Y	119.7	0.00	6.28	0.00	0	0	0	100	0.00	0.0	6.222	0.143	0	0	0	0
000061910404...	OH656_6	C	Consumer	7.18Y	119.7	0.00	6.28	0.00	0	0	0	100	0.00	0.0	6.079	0.143	0	0	1	1
000061910404...	OH641_6	C	Consumer	7.19Y	119.8	0.00	6.19	0.08	0	1	0	100	0.00	0.0	5.836	0.143	1	0	1	1
000061910404...	OH641_6	C	Consumer	7.19Y	119.8	0.00	6.19	0.00	0	0	0	100	0.00	0.0	5.836	0.143	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts														-----Element-----				
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OH637_6	OH623	C	6A CWC 3 S	7.19Y	119.8	0.00	6.16	0.70	0	5	0	100	0.00	0.0	5.821	0.040	0	0	0	1
OH638	OH637_6	C	6A CWC 3 S	7.19Y	119.8	0.00	6.16	0.70	0	5	0	100	0.00	0.0	5.896	0.075	0	0	0	1
000061910404...	OH638	C	Consumer	7.19Y	119.8	0.00	6.16	0.70	0	5	0	100	0.00	0.0	5.896	0.075	5	0	1	1
OH628_6	OH637_6	C	6A CWC 3 S	7.19Y	119.8	0.00	6.16	0.00	0	0	0	100	0.00	0.0	5.873	0.051	0	0	0	0
000061910404...	OH622_6	C	Consumer	7.19Y	119.9	0.00	6.10	0.58	0	4	0	100	0.00	0.0	5.688	0.051	4	0	1	1
000061910404...	OH622_6	C	Consumer	7.19Y	119.9	0.00	6.10	0.00	0	0	0	100	0.00	0.0	5.688	0.051	0	0	0	0
000061910404...	OH622_6	C	Consumer	7.19Y	119.9	0.00	6.10	0.00	0	0	0	100	0.00	0.0	5.688	0.051	0	0	0	0
OH550_6	OH631_6	C	6A CWC 3 S	7.20Y	119.9	0.01	6.06	1.78	1	13	1	100	0.00	0.0	5.682	0.070	0	0	0	1
000061910404...	OH550_6	C	Consumer	7.20Y	119.9	0.00	6.06	1.78	0	13	1	100	0.00	0.0	5.682	0.070	13	1	1	1
OH548_6	OH631_6	C	6A CWC 3 S	7.19Y	119.9	0.03	6.08	10.67	8	77	4	100	0.02	0.0	5.675	0.064	0	0	0	11
OH547_6	OH548_6	C	6A CWC 3 S	7.19Y	119.9	0.02	6.10	8.05	6	58	3	100	0.01	0.0	5.730	0.054	0	0	0	9
OH546_6	OH547_6	C	6A CWC 3 S	7.19Y	119.9	0.02	6.12	7.66	5	55	3	100	0.01	0.0	5.778	0.049	0	0	0	8
OH545_6	OH546_6	C	6A CWC 3 S	7.19Y	119.9	0.01	6.13	7.66	5	55	3	100	0.00	0.0	5.802	0.024	0	0	0	8
OH544_6	OH545_6	C	6A CWC 3 S	7.19Y	119.8	0.03	6.16	6.89	5	50	2	100	0.01	0.0	5.907	0.105	0	0	0	7
OH543_6	OH544_6	C	6A CWC 3 S	7.19Y	119.8	0.01	6.16	5.49	4	39	2	100	0.00	0.0	5.930	0.023	0	0	0	6
OH542_6	OH543_6	C	6A CWC 3 S	7.19Y	119.8	0.01	6.17	5.49	4	39	2	100	0.00	0.0	5.964	0.034	0	0	0	6
OH541_6	OH542_6	C	6A CWC 3 S	7.19Y	119.8	0.01	6.18	3.78	3	27	1	100	0.00	0.0	6.021	0.057	0	0	0	4
OH561_6	OH541_6	C	6A CWC 3 S	7.19Y	119.8	0.01	6.19	2.56	2	18	1	100	0.00	0.0	6.125	0.104	0	0	0	3
OH565_6	OH561_6	C	6A CWC 3 S	7.19Y	119.8	0.00	6.19	2.07	1	15	1	100	0.00	0.0	6.181	0.056	0	0	0	2
OH566_6	OH565_6	C	6A CWC 3 S	7.19Y	119.8	0.00	6.20	1.32	1	9	0	100	0.00	0.0	6.201	0.019	0	0	0	1
OH567_6	OH566_6	C	6A CWC 3 S	7.19Y	119.8	0.00	6.20	1.32	1	9	0	100	0.00	0.0	6.228	0.027	0	0	0	1
000061910404...	OH567_6	C	Consumer	7.19Y	119.8	0.00	6.20	1.32	0	9	0	100	0.00	0.0	6.228	0.027	9	0	1	1
OH563_6	OH565_6	C	6A CWC 3 S	7.19Y	119.8	0.00	6.20	0.75	1	5	0	100	0.00	0.0	6.271	0.090	0	0	0	1
000061910404...	OH563_6	C	Consumer	7.19Y	119.8	0.00	6.20	0.75	0	5	0	100	0.00	0.0	6.271	0.090	5	0	1	1
000061910404...	OH563_6	C	Consumer	7.19Y	119.8	0.00	6.20	0.00	0	0	0	100	0.00	0.0	6.271	0.090	0	0	0	0
000061910404...	OH561_6	C	Consumer	7.19Y	119.8	0.00	6.19	0.49	0	4	0	100	0.00	0.0	6.125	0.090	4	0	1	1
OH540_6	OH541_6	C	6A CWC 3 S	7.19Y	119.8	0.00	6.18	1.22	1	9	0	100	0.00	0.0	6.082	0.061	0	0	0	1
OH569_6	OH540_6	C	6A CWC 3 S	7.19Y	119.8	0.00	6.18	1.22	1	9	0	100	0.00	0.0	6.132	0.050	0	0	0	1
000061910404...	OH569_6	C	Consumer	7.19Y	119.8	0.00	6.18	1.22	0	9	0	100	0.00	0.0	6.132	0.050	9	0	1	1
000061910404...	OH569_6	C	Consumer	7.19Y	119.8	0.00	6.18	0.00	0	0	0	100	0.00	0.0	6.132	0.050	0	0	0	0
OH534_6	OH540_6	C	6A CWC 3 S	7.19Y	119.8	0.00	6.18	0.00	0	0	0	100	0.00	0.0	6.269	0.187	0	0	0	0
000061900004...	OH534_6	C	Consumer	7.19Y	119.8	0.00	6.18	0.00	0	0	0	100	0.00	0.0	6.269	0.187	0	0	0	0
000061910404...	OH542_6	C	Consumer	7.19Y	119.8	0.00	6.17	0.00	0	0	0	100	0.00	0.0	5.964	0.187	0	0	1	1
000061910404...	OH542_6	C	Consumer	7.19Y	119.8	0.00	6.17	1.71	0	12	1	100	0.00	0.0	5.964	0.187	12	1	1	1
000061910404...	OH543_6	C	Consumer	7.19Y	119.8	0.00	6.16	0.00	0	0	0	100	0.00	0.0	5.930	0.187	0	0	0	0
000061910404...	OH543_6	C	Consumer	7.19Y	119.8	0.00	6.16	0.00	0	0	0	100	0.00	0.0	5.930	0.187	0	0	0	0
000061910404...	OH544_6	C	Consumer	7.19Y	119.8	0.00	6.16	1.40	0	10	0	100	0.00	0.0	5.907	0.187	10	0	1	1

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
000061910404...	OH544_6	C	Consumer	7.19Y	119.8	0.00	6.16	0.00	0	0	0	100	0.00	0.0	5.907	0.187	0	0	0	0
000061910404...	OH545_6	C	Consumer	7.19Y	119.9	0.00	6.13	0.76	0	5	0	100	0.00	0.0	5.802	0.187	5	0	1	1
000061910404...	OH545_6	C	Consumer	7.19Y	119.9	0.00	6.13	0.00	0	0	0	100	0.00	0.0	5.802	0.187	0	0	0	0
000061910404...	OH546_6	C	Consumer	7.19Y	119.9	0.00	6.12	0.00	0	0	0	100	0.00	0.0	5.778	0.187	0	0	0	0
000061910404...	OH547_6	C	Consumer	7.19Y	119.9	0.00	6.10	0.39	0	3	0	100	0.00	0.0	5.730	0.187	3	0	1	1
000061910404...	OH548_6	C	Consumer	7.19Y	119.9	0.00	6.08	0.00	0	0	0	100	0.00	0.0	5.675	0.187	0	0	0	0
000061910404...	OH548_6	C	Consumer	7.19Y	119.9	0.00	6.08	0.00	0	0	0	100	0.00	0.0	5.675	0.187	0	0	0	0
000061910404...	OH548_6	C	Consumer	7.19Y	119.9	0.00	6.08	1.28	0	9	0	100	0.00	0.0	5.675	0.187	9	0	1	1
000061910404...	OH548_6	C	Consumer	7.19Y	119.9	0.00	6.08	1.35	0	10	0	100	0.00	0.0	5.675	0.187	10	0	1	1
OH477_6	OH475_6	C	6A CWC 3 S	7.21Y	120.1	0.00	5.92	1.78	1	13	1	100	0.00	0.0	5.445	0.042	0	0	0	2
OH478_6	OH477_6	C	6A CWC 3 S	7.20Y	120.1	0.00	5.92	0.11	0	1	0	100	0.00	0.0	5.706	0.260	0	0	0	1
000061910404...	OH478_6	C	Consumer	7.20Y	120.1	0.00	5.92	0.11	0	1	0	100	0.00	0.0	5.706	0.260	1	0	1	1
000061910404...	OH477_6	C	Consumer	7.21Y	120.1	0.00	5.92	0.00	0	0	0	100	0.00	0.0	5.445	0.260	0	0	0	0
000061910404...	OH477_6	C	Consumer	7.21Y	120.1	0.00	5.92	1.68	0	12	1	100	0.00	0.0	5.445	0.260	12	1	1	1
000061910404...	OH474_6	C	Consumer	7.21Y	120.1	0.00	5.89	0.02	0	0	0	100	0.00	0.0	5.369	0.260	0	0	1	1
000061910404...	OH610	B	Consumer	7.22Y	120.3	0.00	5.73	0.44	0	3	0	100	0.00	0.0	5.137	0.260	3	0	1	1
OH2108	OH2072	A	4 ACSR 7/1	7.23Y	120.4	0.01	5.56	1.80	1	13	-1	-100	0.00	0.0	4.960	0.104	0	0	0	1
OH2073	OH2108	A	4 ACSR 7/1	7.23Y	120.4	0.01	5.57	1.80	1	13	-1	-100	0.00	0.0	5.073	0.113	0	0	0	1
000061910404...	OH2073	A	Consumer	7.23Y	120.4	0.00	5.57	1.80	0	13	-1	-100	0.00	0.0	5.073	0.113	13	-1	1	1
000061910404...	OH2108	A	Consumer	7.23Y	120.4	0.00	5.56	0.00	0	0	0	100	0.00	0.0	4.960	0.113	0	0	0	0
000061910404...	OH2108	A	Consumer	7.23Y	120.4	0.00	5.56	0.00	0	0	0	100	0.00	0.0	4.960	0.113	0	0	0	0
OH2077	OH2072	B	4 ACSR 7/1	7.22Y	120.4	0.04	5.59	4.97	4	36	-3	-100	0.01	0.0	5.060	0.205	0	0	0	4
OH29676	OH2077	B	4 ACSR 7/1	7.22Y	120.4	0.01	5.60	1.22	1	9	-1	-99	0.00	0.0	5.204	0.144	0	0	0	1
000061910404...	OH29676	B	Consumer	7.22Y	120.4	0.00	5.60	1.22	0	9	-1	-99	0.00	0.0	5.204	0.144	9	-1	1	1
OH2118	OH2077	B	4 ACSR 7/1	7.22Y	120.4	0.03	5.62	3.03	2	22	-2	-100	0.01	0.0	5.290	0.229	0	0	0	2
OH2078	OH2118	B	4 ACSR 7/1	7.22Y	120.4	0.01	5.63	0.58	0	4	0	100	0.00	0.0	5.605	0.315	0	0	0	1
000061910403...	OH2078	B	Consumer	7.22Y	120.4	0.00	5.63	0.00	0	0	0	100	0.00	0.0	5.605	0.315	4	0	1	1
000061910403...	OH2078	B	Consumer	7.22Y	120.4	0.00	5.63	0.00	0	0	0	100	0.00	0.0	5.605	0.315	0	0	0	0
000061910403...	OH2078	B	Consumer	7.22Y	120.4	0.00	5.63	0.00	0	0	0	100	0.00	0.0	5.605	0.315	0	0	0	0
000061910404...	OH2118	B	Consumer	7.22Y	120.4	0.00	5.62	2.45	0	18	-2	-99	0.00	0.0	5.290	0.315	18	-2	1	1
000061910404...	OH2118	B	Consumer	7.22Y	120.4	0.00	5.62	0.00	0	0	0	100	0.00	0.0	5.290	0.315	0	0	0	0
000061910404...	OH2077	B	Consumer	7.22Y	120.4	0.00	5.59	0.73	0	5	0	100	0.00	0.0	5.060	0.315	5	0	1	1
000061910404...	OH2077	B	Consumer	7.22Y	120.4	0.00	5.59	0.00	0	0	0	100	0.00	0.0	5.060	0.315	0	0	0	0
000061910404...	OH2077	B	Consumer	7.22Y	120.4	0.00	5.59	0.00	0	0	0	100	0.00	0.0	5.060	0.315	0	0	0	0
OH2067	OH2066	A	4 ACSR 7/1	7.24Y	120.7	0.01	5.33	3.12	2	23	-2	-100	0.00	0.0	4.614	0.062	0	0	0	2
OH2068	OH2067	A	4 ACSR 7/1	7.24Y	120.7	0.00	5.33	0.02	0	0	0	100	0.00	0.0	4.680	0.066	0	0	0	1
000061910404...	OH2068	A	Consumer	7.24Y	120.7	0.00	5.33	0.00	0	0	0	100	0.00	0.0	4.680	0.066	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
000061910404...	OH2068	A	Consumer	7.24Y	120.7	0.00	5.33	0.02	0	0	0	100	0.00	0.0	4.680	0.066	0	0	1	1
000061910404...	OH2067	A	Consumer	7.24Y	120.7	0.00	5.33	3.10	0	22	-2	-100	0.00	0.0	4.614	0.066	22	-2	1	1
000061910404...	OH2038	A	Consumer	7.25Y	120.9	0.00	5.14	0.67	0	5	0	100	0.00	0.0	4.321	0.066	5	0	1	1
000061910404...	OH2038	A	Consumer	7.25Y	120.9	0.00	5.14	1.07	0	8	-1	-99	0.00	0.0	4.321	0.066	8	-1	1	1
000061910404...	OH2038	A	Consumer	7.25Y	120.9	0.00	5.14	0.00	0	0	0	100	0.00	0.0	4.321	0.066	0	0	0	0
000061910404...	OH2038	A	Consumer	7.25Y	120.9	0.00	5.14	0.00	0	0	0	100	0.00	0.0	4.321	0.066	0	0	0	0
000061910404...	OH2038	A	Consumer	7.25Y	120.9	0.00	5.14	1.54	0	11	-1	-100	0.00	0.0	4.321	0.066	11	-1	1	1
000061910404...	OH2038	A	Consumer	7.25Y	120.9	0.00	5.14	0.25	0	2	0	100	0.00	0.0	4.321	0.066	2	0	1	1
000061910404...	OH2038	A	Consumer	7.25Y	120.9	0.00	5.14	0.00	0	0	0	100	0.00	0.0	4.321	0.066	0	0	0	0
000061910403...	OH2039	B	Consumer	7.26Y	121.0	0.00	5.01	0.65	0	5	0	100	0.00	0.0	4.156	0.066	5	0	1	1
000061910403...	OH2036	C	Consumer	7.27Y	121.2	0.00	4.78	0.17	0	1	0	100	0.00	0.0	3.888	0.066	1	0	1	1
000061910403...	OH2036	C	Consumer	7.27Y	121.2	0.00	4.78	0.23	0	2	0	100	0.00	0.0	3.888	0.066	2	0	1	1
000061910403...	OH1882	C	Consumer	7.28Y	121.3	0.00	4.68	0.99	0	7	-1	-99	0.00	0.0	3.768	0.066	7	-1	1	1
OH1881	OH2184	A	4 ACSR 7/1	7.28Y	121.4	0.26	4.65	30.61	22	223	-14	-100	0.49	0.2	3.648	0.210	0	0	0	28
OH2175	OH1881	A	4 ACSR 7/1	7.27Y	121.2	0.15	4.80	30.61	22	222	-14	-100	0.29	0.1	3.771	0.123	0	0	0	28
OH2213	OH2175	A	4 ACSR 7/1	7.27Y	121.2	0.00	4.80	0.71	1	5	0	100	0.00	0.0	3.846	0.074	0	0	0	2
OH2204	OH2213	A	4 ACSR 7/1	7.27Y	121.2	0.00	4.80	0.00	0	0	0	100	0.00	0.0	3.902	0.057	0	0	0	1
OH2205	OH2204	A	4 ACSR 7/1	7.27Y	121.2	0.00	4.80	0.00	0	0	0	100	0.00	0.0	3.992	0.089	0	0	0	0
OH2206	OH2205	A	4 ACSR 7/1	7.27Y	121.2	0.00	4.80	0.00	0	0	0	100	0.00	0.0	4.072	0.080	0	0	0	0
000061910403...	OH2206	A	Consumer	7.27Y	121.2	0.00	4.80	0.00	0	0	0	100	0.00	0.0	4.072	0.080	0	0	0	0
000061910403...	OH2205	A	Consumer	7.27Y	121.2	0.00	4.80	0.00	0	0	0	100	0.00	0.0	3.992	0.080	0	0	0	0
000061910403...	OH2205	A	Consumer	7.27Y	121.2	0.00	4.80	0.00	0	0	0	100	0.00	0.0	3.992	0.080	0	0	0	0
000061910403...	OH2204	A	Consumer	7.27Y	121.2	0.00	4.80	0.00	0	0	0	100	0.00	0.0	3.902	0.080	0	0	1	1
000061910403...	OH2204	A	Consumer	7.27Y	121.2	0.00	4.80	0.00	0	0	0	100	0.00	0.0	3.902	0.080	0	0	0	0
000061910403...	OH2204	A	Consumer	7.27Y	121.2	0.00	4.80	0.00	0	0	0	100	0.00	0.0	3.902	0.080	0	0	0	0
000061910403...	OH2204	A	Consumer	7.27Y	121.2	0.00	4.80	0.00	0	0	0	100	0.00	0.0	3.902	0.080	0	0	0	0
000061910403...	OH2204	A	Consumer	7.27Y	121.2	0.00	4.80	0.00	0	0	0	100	0.00	0.0	3.902	0.080	0	0	0	0
000061910403...	OH2213	A	Consumer	7.27Y	121.2	0.00	4.80	0.71	0	5	0	100	0.00	0.0	3.846	0.080	5	0	1	1
000061910403...	OH2213	A	Consumer	7.27Y	121.2	0.00	4.80	0.00	0	0	0	100	0.00	0.0	3.846	0.080	0	0	0	0
OH2178	OH2175	A	4 ACSR 7/1	7.27Y	121.1	0.06	4.86	29.40	21	213	-13	-100	0.11	0.1	3.822	0.051	0	0	0	25
OH2244	OH2178	A	4 ACSR 7/1	7.26Y	121.1	0.09	4.95	28.11	20	204	-12	-100	0.15	0.1	3.900	0.078	0	0	0	23
OH2248	OH2244	A	4 ACSR 7/1	7.26Y	121.1	0.00	4.95	2.53	2	18	-2	-99	0.00	0.0	3.925	0.025	0	0	0	1
000061910403...	OH2248	A	Consumer	7.26Y	121.1	0.00	4.95	2.53	0	18	-2	-99	0.00	0.0	3.925	0.025	18	-2	1	1
OH2179	OH2244	A	4 ACSR 7/1	7.26Y	121.0	0.03	4.97	25.57	18	185	-11	-100	0.04	0.0	3.926	0.026	0	0	0	22
OH2245	OH2179	A	4 ACSR 7/1	7.26Y	121.0	0.01	4.99	12.31	9	89	-8	-100	0.01	0.0	3.957	0.031	0	0	0	9
OH2249	OH2245	A	4 ACSR 7/1	7.26Y	121.0	0.00	4.99	2.22	2	16	-1	-100	0.00	0.0	3.995	0.038	0	0	0	2
000061910403...	OH2249	A	Consumer	7.26Y	121.0	0.00	4.99	1.69	0	12	-1	-100	0.00	0.0	3.995	0.038	12	-1	1	1
000061910403...	OH2249	A	Consumer	7.26Y	121.0	0.00	4.99	0.53	0	4	0	100	0.00	0.0	3.995	0.038	4	0	1	1

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts											mi		-----Element-----					
		-Base Voltage:120.0-											From	Length			Cons	Cons		
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	Src	(mi)	KW	KVAR	On	Thru
OH2246	OH2245	A	4 ACSR 7/1	7.26Y	121.0	0.01	5.00	10.10	7	73	-7	-100	0.01	0.0	3.984	0.027	0	0	0	7
OH2250	OH2246	A	4 ACSR 7/1	7.26Y	121.0	0.01	5.01	6.69	5	48	-4	-100	0.00	0.0	4.019	0.035	0	0	0	4
000061910403...	OH2250	A	Consumer	7.26Y	121.0	0.00	5.01	0.05	0	0	0	100	0.00	0.0	4.019	0.035	0	0	1	1
000061910403...	OH2250	A	Consumer	7.26Y	121.0	0.00	5.01	0.00	0	0	0	100	0.00	0.0	4.019	0.035	0	0	0	0
000061910403...	OH2250	A	Consumer	7.26Y	121.0	0.00	5.01	1.57	0	11	-1	-100	0.00	0.0	4.019	0.035	11	-1	1	1
000061910403...	OH2250	A	Consumer	7.26Y	121.0	0.00	5.01	3.03	0	22	-2	-100	0.00	0.0	4.019	0.035	22	-2	1	1
000061910403...	OH2250	A	Consumer	7.26Y	121.0	0.00	5.01	0.00	0	0	0	100	0.00	0.0	4.019	0.035	0	0	0	0
000061910403...	OH2250	A	Consumer	7.26Y	121.0	0.00	5.01	2.05	0	15	-1	-100	0.00	0.0	4.019	0.035	15	-1	1	1
OH2247	OH2246	A	4 ACSR 7/1	7.26Y	121.0	0.01	5.00	3.40	2	25	-2	-100	0.00	0.0	4.027	0.043	0	0	0	3
OH2207	OH2247	A	4 ACSR 7/1	7.26Y	121.0	0.01	5.01	2.65	2	19	-2	-99	0.00	0.0	4.096	0.069	0	0	0	2
000061910403...	OH2207	A	Consumer	7.26Y	121.0	0.00	5.01	0.00	0	0	0	100	0.00	0.0	4.096	0.069	0	0	0	0
000061910403...	OH2207	A	Consumer	7.26Y	121.0	0.00	5.01	0.00	0	0	0	100	0.00	0.0	4.096	0.069	0	0	0	0
000061910403...	OH2207	A	Consumer	7.26Y	121.0	0.00	5.01	0.00	0	0	0	100	0.00	0.0	4.096	0.069	0	0	1	1
000061910403...	OH2207	A	Consumer	7.26Y	121.0	0.00	5.01	0.00	0	0	0	100	0.00	0.0	4.096	0.069	0	0	0	0
000061910403...	OH2207	A	Consumer	7.26Y	121.0	0.00	5.01	0.00	0	0	0	100	0.00	0.0	4.096	0.069	0	0	0	0
000061910403...	OH2207	A	Consumer	7.26Y	121.0	0.00	5.01	2.65	0	19	-2	-99	0.00	0.0	4.096	0.069	19	-2	1	1
000061910403...	OH2247	A	Consumer	7.26Y	121.0	0.00	5.00	0.76	0	5	-1	-98	0.00	0.0	4.027	0.069	5	-1	1	1
000061910403...	OH2247	A	Consumer	7.26Y	121.0	0.00	5.00	0.00	0	0	0	100	0.00	0.0	4.027	0.069	0	0	0	0
OH2180	OH2179	A	4 ACSR 7/1	7.26Y	121.0	0.04	5.01	13.27	9	96	-3	-100	0.03	0.0	4.003	0.077	0	0	0	13
OH2199	OH2180	A	4 ACSR 7/1	7.26Y	121.0	0.00	5.01	0.00	0	0	0	100	0.00	0.0	4.104	0.101	0	0	0	0
000061910403...	OH2199	A	Consumer	7.26Y	121.0	0.00	5.01	0.00	0	0	0	100	0.00	0.0	4.104	0.101	0	0	0	0
OH2181	OH2180	A	4 ACSR 7/1	7.26Y	120.9	0.04	5.06	12.36	9	90	-2	-100	0.03	0.0	4.090	0.087	0	0	0	11
OH2220	OH2181	A	4 ACSR 7/1	7.25Y	120.9	0.04	5.09	10.79	8	78	-7	-100	0.02	0.0	4.176	0.085	0	0	0	9
OH2221	OH2220	A	4 ACSR 7/1	7.25Y	120.9	0.01	5.11	9.24	7	67	-6	-100	0.01	0.0	4.212	0.036	0	0	0	8
OH2182	OH2221	A	4 ACSR 7/1	7.25Y	120.9	0.00	5.11	3.04	2	22	-2	-100	0.00	0.0	4.253	0.041	0	0	0	5
OH2299	OH2182	A	4 ACSR 7/1	7.25Y	120.9	0.00	5.11	0.15	0	1	0	100	0.00	0.0	4.285	0.032	0	0	0	1
OH1871	OH2299	A	4 ACSR 7/1	7.25Y	120.9	0.00	5.11	0.00	0	0	0	100	0.00	0.0	4.375	0.090	0	0	0	0
000061910403...	OH1871	A	Consumer	7.25Y	120.9	0.00	5.11	0.00	0	0	0	100	0.00	0.0	4.375	0.090	0	0	0	0
000061910403...	OH2299	A	Consumer	7.25Y	120.9	0.00	5.11	0.15	0	1	0	100	0.00	0.0	4.285	0.090	1	0	1	1
OH2183	OH2182	A	4 ACSR 7/1	7.25Y	120.9	0.01	5.12	2.89	2	21	-2	-100	0.00	0.0	4.314	0.061	0	0	0	4
OH2289	OH2183	A	4 ACSR 7/1	7.25Y	120.9	0.00	5.12	0.00	0	0	0	100	0.00	0.0	4.355	0.041	0	0	0	0
000061910403...	OH2289	A	Consumer	7.25Y	120.9	0.00	5.12	0.00	0	0	0	100	0.00	0.0	4.355	0.041	0	0	0	0
OH2193	OH2183	A	4 ACSR 7/1	7.25Y	120.9	0.00	5.12	1.94	1	14	-1	-100	0.00	0.0	4.377	0.063	0	0	0	2
OH2194	OH2193	A	4 ACSR 7/1	7.25Y	120.9	0.00	5.12	0.00	0	0	0	100	0.00	0.0	4.446	0.069	0	0	0	0
000061910403...	OH2194	A	Consumer	7.25Y	120.9	0.00	5.12	0.00	0	0	0	100	0.00	0.0	4.446	0.069	0	0	0	0
000061910403...	OH2193	A	Consumer	7.25Y	120.9	0.00	5.12	0.62	0	4	0	100	0.00	0.0	4.377	0.069	4	0	1	1
000061910403...	OH2193	A	Consumer	7.25Y	120.9	0.00	5.12	1.32	0	10	-1	-100	0.00	0.0	4.377	0.069	10	-1	1	1

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts											mi		-----Element-----					
		-Base Voltage:120.0-											From	Length			Cons	Cons		
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	Src	(mi)	KW	KVAR	On	Thru
000061910403...	OH2193	A	Consumer	7.25Y	120.9	0.00	5.12	0.00	0	0	0	100	0.00	0.0	4.377	0.069	0	0	0	0
OH2192	OH2183	A	4 ACSR 7/1	7.25Y	120.9	0.00	5.12	0.95	1	7	-1	-99	0.00	0.0	4.395	0.081	0	0	0	2
000061910403...	OH2192	A	Consumer	7.25Y	120.9	0.00	5.12	0.05	0	0	0	100	0.00	0.0	4.395	0.081	0	0	1	1
000061910403...	OH2192	A	Consumer	7.25Y	120.9	0.00	5.12	0.90	0	7	-1	-99	0.00	0.0	4.395	0.081	7	-1	1	1
000061910403...	OH2183	A	Consumer	7.25Y	120.9	0.00	5.12	0.00	0	0	0	100	0.00	0.0	4.314	0.081	0	0	0	0
000061910403...	OH2221	A	Consumer	7.25Y	120.9	0.00	5.11	1.66	0	12	-1	-100	0.00	0.0	4.212	0.081	12	-1	1	1
000061910403...	OH2221	A	Consumer	7.25Y	120.9	0.00	5.11	2.65	0	19	-2	-99	0.00	0.0	4.212	0.081	19	-2	1	1
000061910403...	OH2221	A	Consumer	7.25Y	120.9	0.00	5.11	1.88	0	14	-1	-100	0.00	0.0	4.212	0.081	14	-1	1	1
000061910403...	OH2221	A	Consumer	7.25Y	120.9	0.00	5.11	0.00	0	0	0	100	0.00	0.0	4.212	0.081	0	0	0	0
000061910403...	OH2220	A	Consumer	7.25Y	120.9	0.00	5.09	1.55	0	11	-1	-100	0.00	0.0	4.176	0.081	11	-1	1	1
OH2198	OH2181	A	4 ACSR 7/1	7.26Y	120.9	0.01	5.06	1.74	1	12	5	92	0.00	0.0	4.161	0.071	0	0	0	2
000061910403...	OH2198	A	Consumer	7.26Y	120.9	0.00	5.06	0.50	0	4	0	100	0.00	0.0	4.161	0.071	4	0	1	1
000061910403...	OH2198	A	Consumer	7.26Y	120.9	0.00	5.06	0.00	0	0	0	100	0.00	0.0	4.161	0.071	0	0	0	0
000061910403...	OH2198	A	Consumer	7.26Y	120.9	0.00	5.06	0.00	0	0	0	100	0.00	0.0	4.161	0.071	0	0	0	0
000061910403...	OH2198	A	Consumer	7.26Y	120.9	0.00	5.06	1.31	0	8	5	85	0.00	0.0	4.161	0.071	8	5	1	1
000061910403...	OH2180	A	Consumer	7.26Y	121.0	0.00	5.01	0.81	0	6	-1	-99	0.00	0.0	4.003	0.071	6	-1	1	1
000061910403...	OH2180	A	Consumer	7.26Y	121.0	0.00	5.01	0.12	0	1	0	100	0.00	0.0	4.003	0.071	1	0	1	1
OH2200	OH2178	A	4 ACSR 7/1	7.27Y	121.1	0.00	4.86	1.30	1	9	-1	-99	0.00	0.0	3.840	0.018	0	0	0	2
OH2201	OH2200	A	4 ACSR 7/1	7.27Y	121.1	0.00	4.86	0.56	0	4	0	100	0.00	0.0	3.887	0.047	0	0	0	1
000061910403...	OH2201	A	Consumer	7.27Y	121.1	0.00	4.86	0.56	0	4	0	100	0.00	0.0	3.887	0.047	4	0	1	1
000061910403...	OH2200	A	Consumer	7.27Y	121.1	0.00	4.86	0.74	0	5	0	100	0.00	0.0	3.840	0.047	5	0	1	1
000061910403...	OH2175	A	Consumer	7.27Y	121.2	0.00	4.80	0.00	0	0	0	100	0.00	0.0	3.771	0.047	0	0	0	0
000061910403...	OH2175	A	Consumer	7.27Y	121.2	0.00	4.80	0.50	0	4	0	100	0.00	0.0	3.771	0.047	4	0	1	1
OH2174	OH1881	A	4 ACSR 7/1	7.28Y	121.4	0.00	4.65	0.00	0	0	0	100	0.00	0.0	3.717	0.068	0	0	0	0
000061910403...	OH2174	A	Consumer	7.28Y	121.4	0.00	4.65	0.00	0	0	0	100	0.00	0.0	3.717	0.068	0	0	0	0
000061910403...	OH1883	C	Consumer	7.31Y	121.8	0.00	4.21	0.07	0	1	0	100	0.00	0.0	3.255	0.068	1	0	1	1
000061910403...	OH1883	C	Consumer	7.31Y	121.8	0.00	4.21	0.00	0	0	0	100	0.00	0.0	3.255	0.068	0	0	0	0
000061910403...	OH1883	C	Consumer	7.31Y	121.8	0.00	4.21	0.00	0	0	0	100	0.00	0.0	3.255	0.068	0	0	0	0
000061910402...	OH1885	A	Consumer	7.31Y	121.9	0.00	4.14	0.00	0	0	0	100	0.00	0.0	3.188	0.068	0	0	0	0
OCR-1023	OH1898	ABC	50-4H OCR	7.34Y	122.3	0.00	3.70	22.72	0	499	-26	-100	0.00	0.0	2.760	0.068	0	0	0	76
OH1904	OCR-1023	ABC	1/0 ACSR	7.33Y	122.2	0.07	3.78	22.72	10	499	-26	-100	0.31	0.1	2.990	0.230	0	0	0	76
OH1910	OH1904	ABC	1/0 ACSR	7.33Y	122.2	0.04	3.81	22.44	10	493	-26	-100	0.15	0.0	3.107	0.117	0	0	0	75
OH2014	OH1910	ABC	1/0 ACSR	7.33Y	122.1	0.06	3.87	20.22	9	444	-22	-100	0.24	0.1	3.337	0.230	0	0	0	69
OH1903	OH2014	ABC	1/0 ACSR	7.33Y	122.1	0.01	3.89	19.80	9	435	-21	-100	0.05	0.0	3.386	0.049	0	0	0	68
OH1971	OH1903	ABC	1/0 ACSR	7.32Y	122.1	0.05	3.94	19.60	9	430	-21	-100	0.20	0.0	3.589	0.202	0	0	0	67
OH1972	OH1971	C	6A CWC 3 S	7.32Y	122.1	0.00	3.94	0.00	0	0	0	100	0.00	0.0	3.738	0.149	0	0	0	0
000061910402...	OH1972	C	Consumer	7.32Y	122.1	0.00	3.94	0.00	0	0	0	100	0.00	0.0	3.738	0.149	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OH1965	OH1971	ABC	1/0 ACSR	7.32Y	122.0	0.06	4.00	19.60	9	430	-21	-100	0.22	0.1	3.808	0.220	0	0	0	67
OH1964	OH1965	ABC	1/0 ACSR	7.32Y	122.0	0.01	4.01	19.55	9	429	-21	-100	0.04	0.0	3.847	0.039	0	0	0	66
OH1976	OH1964	C	6A CWC 3 S	7.32Y	122.0	0.00	4.02	0.72	1	5	0	100	0.00	0.0	3.977	0.130	0	0	0	1
000061910402...	OH1976	C	Consumer	7.32Y	122.0	0.00	4.02	0.72	0	5	0	100	0.00	0.0	3.977	0.130	5	0	1	1
OH1963	OH1964	ABC	1/0 ACSR	7.32Y	122.0	0.01	4.02	19.31	8	424	-20	-100	0.03	0.0	3.878	0.030	0	0	0	65
OH2471	OH1963	ABC	1/0 ACSR	7.32Y	121.9	0.04	4.06	18.44	8	404	-19	-100	0.15	0.0	4.053	0.175	0	0	0	62
OH2498	OH2471	C	6A CWC 3 S	7.32Y	121.9	0.01	4.08	2.23	2	16	-1	-100	0.00	0.0	4.187	0.134	0	0	0	2
000061900002...	OH2498	C	Consumer	7.32Y	121.9	0.00	4.08	1.57	0	11	-1	-100	0.00	0.0	4.187	0.134	11	-1	1	1
000061900002...	OH2498	C	Consumer	7.32Y	121.9	0.00	4.08	0.66	0	5	0	100	0.00	0.0	4.187	0.134	5	0	1	1
OH2472	OH2471	ABC	1/0 ACSR	7.31Y	121.9	0.03	4.10	17.70	8	388	-17	-100	0.11	0.0	4.192	0.139	0	0	0	60
OH2473	OH2472	ABC	1/0 ACSR	7.31Y	121.9	0.04	4.13	16.50	7	362	-15	-100	0.11	0.0	4.347	0.155	0	0	0	59
OH2474	OH2473	ABC	1/0 ACSR	7.31Y	121.8	0.02	4.15	16.39	7	359	-16	-100	0.06	0.0	4.433	0.086	0	0	0	58
OH2492	OH2474	C	6A CWC 3 S	7.31Y	121.8	0.01	4.16	2.36	2	17	-2	-99	0.00	0.0	4.522	0.089	0	0	0	1
000061900002...	OH2492	C	Consumer	7.31Y	121.8	0.00	4.16	2.36	0	17	-2	-99	0.00	0.0	4.522	0.089	17	-2	1	1
000061900002...	OH2492	C	Consumer	7.31Y	121.8	0.00	4.16	0.00	0	0	0	100	0.00	0.0	4.522	0.089	0	0	0	0
000061900002...	OH2492	C	Consumer	7.31Y	121.8	0.00	4.16	0.00	0	0	0	100	0.00	0.0	4.522	0.089	0	0	0	0
OH2486	OH2474	C	6A CWC 3 S	7.31Y	121.8	0.01	4.16	3.17	2	23	-2	-100	0.00	0.0	4.531	0.098	0	0	0	7
OH2512	OH2486	C	6A CWC 3 S	7.31Y	121.8	0.01	4.18	3.17	2	23	-2	-100	0.00	0.0	4.634	0.104	0	0	0	7
OH2491	OH2512	C	6A CWC 3 S	7.31Y	121.8	0.02	4.20	3.16	2	23	-2	-100	0.00	0.0	4.780	0.146	0	0	0	6
OH2493	OH2491	C	6A CWC 3 S	7.31Y	121.8	0.01	4.21	2.58	2	19	-2	-99	0.00	0.0	4.905	0.125	0	0	0	1
000061900002...	OH2493	C	Consumer	7.31Y	121.8	0.00	4.21	2.58	0	19	-2	-99	0.00	0.0	4.905	0.125	19	-2	1	1
OH2487	OH2491	C	6A CWC 3 S	7.31Y	121.8	0.01	4.20	0.58	0	4	0	100	0.00	0.0	5.078	0.298	0	0	0	4
OH2488	OH2487	C	6A CWC 3 S	7.31Y	121.8	0.00	4.20	0.02	0	0	0	100	0.00	0.0	5.358	0.280	0	0	0	3
OH2489	OH2488	C	6A CWC 3 S	7.31Y	121.8	0.00	4.20	0.02	0	0	0	100	0.00	0.0	5.434	0.075	0	0	0	3
OH29415	OH2489	C	6A CWC 3 S	7.31Y	121.8	0.00	4.20	0.02	0	0	0	100	0.00	0.0	5.515	0.082	0	0	0	2
OH2490	OH29415	C	6A CWC 3 S	7.31Y	121.8	0.00	4.20	0.01	0	0	0	100	0.00	0.0	5.745	0.230	0	0	0	1
000061900001...	OH2490	C	Consumer	7.31Y	121.8	0.00	4.20	0.01	0	0	0	100	0.00	0.0	5.745	0.230	0	0	1	1
000061900001...	OH2490	C	Consumer	7.31Y	121.8	0.00	4.20	0.00	0	0	0	100	0.00	0.0	5.745	0.230	0	0	0	0
000061900001...	OH29415	C	Consumer	7.31Y	121.8	0.00	4.20	0.00	0	0	0	100	0.00	0.0	5.515	0.230	0	0	1	1
000061900001...	OH2489	C	Consumer	7.31Y	121.8	0.00	4.20	0.01	0	0	0	100	0.00	0.0	5.434	0.230	0	0	1	1
000061900001...	OH2488	C	Consumer	7.31Y	121.8	0.00	4.20	0.00	0	0	0	100	0.00	0.0	5.358	0.230	0	0	0	0
000061900002...	OH2487	C	Consumer	7.31Y	121.8	0.00	4.20	0.56	0	4	0	100	0.00	0.0	5.078	0.230	4	0	1	1
000061900002...	OH2491	C	Consumer	7.31Y	121.8	0.00	4.20	0.00	0	0	0	100	0.00	0.0	4.780	0.230	0	0	1	1
000061900002...	OH2512	C	Consumer	7.31Y	121.8	0.00	4.18	0.00	0	0	0	100	0.00	0.0	4.634	0.230	0	0	0	0
000061900002...	OH2512	C	Consumer	7.31Y	121.8	0.00	4.18	0.01	0	0	0	100	0.00	0.0	4.634	0.230	0	0	1	1
OH2484	OH2486	C	6A CWC 3 S	7.31Y	121.8	0.00	4.16	0.00	0	0	0	100	0.00	0.0	4.636	0.106	0	0	0	0
OH2485	OH2474	C	6A CWC 3 S	7.31Y	121.8	0.00	4.15	0.40	0	3	0	100	0.00	0.0	4.564	0.131	0	0	0	1

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts											mi		-----Element-----					
		-Base Voltage:120.0-											From	Length			Cons	Cons		
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	Src	(mi)	KW	KVAR	On	Thru
000061900002...	OH2485	C	Consumer	7.31Y	121.8	0.00	4.15	0.00	0	0	0	100	0.00	0.0	4.564	0.131	0	0	0	0
000061900002...	OH2485	C	Consumer	7.31Y	121.8	0.00	4.15	0.40	0	3	0	100	0.00	0.0	4.564	0.131	3	0	1	1
OH2475	OH2474	ABC	1/0 ACSR	7.31Y	121.8	0.08	4.23	14.42	6	316	-12	-100	0.22	0.1	4.841	0.408	0	0	0	49
OH2476	OH2475	ABC	1/0 ACSR	7.30Y	121.7	0.06	4.29	14.42	6	316	-13	-100	0.15	0.0	5.125	0.284	0	0	0	49
OH2530	OH2476	ABC	1/0 ACSR	7.30Y	121.7	0.02	4.31	14.23	6	311	-12	-100	0.06	0.0	5.238	0.112	0	0	0	48
OH1958	OH2530	ABC	1/0 ACSR	7.30Y	121.7	0.03	4.34	14.03	6	307	-12	-100	0.08	0.0	5.402	0.165	0	0	0	47
OH2477	OH1958	C	6A CWC 3 S	7.27Y	121.2	0.47	4.81	42.09	30	307	-12	-100	1.21	0.4	5.680	0.278	0	0	0	47
OH2562	OH2477	C	6A CWC 3 S	7.25Y	120.8	0.34	5.15	38.85	28	282	-11	-100	0.81	0.3	5.899	0.219	0	0	0	45
OH2563	OH2562	C	6A CWC 3 S	7.23Y	120.5	0.34	5.49	36.49	26	264	-9	-100	0.77	0.3	6.134	0.235	0	0	0	43
OH2569	OH2563	C	6A CWC 3 S	7.22Y	120.4	0.12	5.61	36.49	26	264	-10	-100	0.26	0.1	6.214	0.080	0	0	0	43
OH2639	OH2569	C	6A CWC 3 S	7.22Y	120.4	0.00	5.61	0.77	1	6	-1	-99	0.00	0.0	6.301	0.088	0	0	0	1
OH2640	OH2639	C	6A CWC 3 S	7.22Y	120.4	0.00	5.61	0.77	1	6	-1	-99	0.00	0.0	6.369	0.068	0	0	0	1
000052400002...	OH2640	C	Consumer	7.22Y	120.4	0.00	5.61	0.77	0	6	-1	-99	0.00	0.0	6.369	0.068	6	-1	1	1
000052400002...	OH2639	C	Consumer	7.22Y	120.4	0.00	5.61	0.00	0	0	0	100	0.00	0.0	6.301	0.068	0	0	0	0
OH2571	OH2569	C	6A CWC 3 S	7.21Y	120.2	0.22	5.83	35.72	26	258	-10	-100	0.49	0.2	6.371	0.157	0	0	0	42
OH2626	OH2571	C	6A CWC 3 S	7.21Y	120.2	0.01	5.84	1.61	1	12	-1	-100	0.00	0.0	6.545	0.174	0	0	0	1
000052400002...	OH2626	C	Consumer	7.21Y	120.2	0.00	5.84	1.61	0	12	-1	-100	0.00	0.0	6.545	0.174	12	-1	1	1
OH2570	OH2571	C	6A CWC 3 S	7.21Y	120.1	0.07	5.90	34.11	24	246	-9	-100	0.15	0.1	6.423	0.052	0	0	0	41
OH2634	OH2570	C	6A CWC 3 S	7.20Y	120.1	0.02	5.92	6.70	5	48	-4	-100	0.01	0.0	6.498	0.076	0	0	0	8
OH2635	OH2634	C	6A CWC 3 S	7.20Y	120.1	0.00	5.92	0.00	0	0	0	100	0.00	0.0	6.580	0.082	0	0	0	0
000052400002...	OH2635	C	Consumer	7.20Y	120.1	0.00	5.92	0.00	0	0	0	100	0.00	0.0	6.580	0.082	0	0	0	0
OH2633	OH2634	C	6A CWC 3 S	7.20Y	120.1	0.01	5.94	4.37	3	31	-3	-100	0.00	0.0	6.577	0.079	0	0	0	6
OH2632	OH2633	C	6A CWC 3 S	7.20Y	120.1	0.00	5.94	0.85	1	6	-1	-99	0.00	0.0	6.697	0.121	0	0	0	4
OH2631	OH2632	C	6A CWC 3 S	7.20Y	120.1	0.00	5.94	0.66	0	5	0	100	0.00	0.0	6.816	0.119	0	0	0	3
OH2630	OH2631	C	6A CWC 3 S	7.20Y	120.1	0.00	5.95	0.66	0	5	0	100	0.00	0.0	6.986	0.170	0	0	0	3
OH2629	OH2630	C	6A CWC 3 S	7.20Y	120.0	0.00	5.95	0.66	0	5	0	100	0.00	0.0	7.147	0.161	0	0	0	2
OH2628	OH2629	C	6A CWC 3 S	7.20Y	120.0	0.01	5.96	0.36	0	3	0	100	0.00	0.0	7.617	0.469	0	0	0	1
OH2627	OH2628	C	6A CWC 3 S	7.20Y	120.0	0.00	5.96	0.36	0	3	0	100	0.00	0.0	7.908	0.291	0	0	0	1
000052400003...	OH2627	C	Consumer	7.20Y	120.0	0.00	5.96	0.36	0	3	0	100	0.00	0.0	7.908	0.291	3	0	1	1
000052400003...	OH2628	C	Consumer	7.20Y	120.0	0.00	5.96	0.00	0	0	0	100	0.00	0.0	7.617	0.291	0	0	0	0
000052400003...	OH2629	C	Consumer	7.20Y	120.0	0.00	5.95	0.00	0	0	0	100	0.00	0.0	7.147	0.291	0	0	0	0
000052400003...	OH2629	C	Consumer	7.20Y	120.0	0.00	5.95	0.30	0	2	0	100	0.00	0.0	7.147	0.291	2	0	1	1
000052400002...	OH2630	C	Consumer	7.20Y	120.1	0.00	5.95	0.01	0	0	0	100	0.00	0.0	6.986	0.291	0	0	1	1
000052400002...	OH2631	C	Consumer	7.20Y	120.1	0.00	5.94	0.00	0	0	0	100	0.00	0.0	6.816	0.291	0	0	0	0
000052400002...	OH2632	C	Consumer	7.20Y	120.1	0.00	5.94	0.18	0	1	0	100	0.00	0.0	6.697	0.291	1	0	1	1
000052400002...	OH2632	C	Consumer	7.20Y	120.1	0.00	5.94	0.00	0	0	0	100	0.00	0.0	6.697	0.291	0	0	0	0
000052400002...	OH2633	C	Consumer	7.20Y	120.1	0.00	5.94	1.28	0	9	-1	-99	0.00	0.0	6.577	0.291	9	-1	1	1

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts											mi		-----Element-----					
		-Base Voltage:120.0-											From	Length			Cons	Cons		
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	Src	(mi)	KW	KVAR	On	Thru
000052400002...	OH2633	C	Consumer	7.20Y	120.1	0.00	5.94	2.23	0	16	-1	-100	0.00	0.0	6.577	0.291	16	-1	1	1
000052400002...	OH2634	C	Consumer	7.20Y	120.1	0.00	5.92	1.35	0	10	-1	-100	0.00	0.0	6.498	0.291	10	-1	1	1
000052400002...	OH2634	C	Consumer	7.20Y	120.1	0.00	5.92	0.99	0	7	-1	-99	0.00	0.0	6.498	0.291	7	-1	1	1
000052400002...	OH2634	C	Consumer	7.20Y	120.1	0.00	5.92	0.00	0	0	0	100	0.00	0.0	6.498	0.291	0	0	0	0
OH2572	OH2570	C	6A CWC 3 S	7.19Y	119.9	0.19	6.10	27.42	20	198	-4	-100	0.32	0.2	6.596	0.173	0	0	0	33
OH2573	OH2572	C	6A CWC 3 S	7.19Y	119.8	0.15	6.24	26.55	19	191	-4	-100	0.24	0.1	6.734	0.139	0	0	0	30
OH2601	OH2573	C	6A CWC 3 S	7.18Y	119.7	0.02	6.26	1.05	1	8	-1	-99	0.00	0.0	7.218	0.484	0	0	0	1
000052400002...	OH2601	C	Consumer	7.18Y	119.7	0.00	6.26	1.05	0	8	-1	-99	0.00	0.0	7.218	0.484	8	-1	1	1
OH2574	OH2573	C	6A CWC 3 S	7.18Y	119.7	0.10	6.35	23.42	17	168	-2	-100	0.14	0.1	6.840	0.106	0	0	0	27
OH2575	OH2574	C	6A CWC 3 S	7.17Y	119.5	0.18	6.52	23.42	17	168	-2	-100	0.25	0.1	7.026	0.185	0	0	0	26
OH1960	OH2575	C	6A CWC 3 S	7.16Y	119.3	0.20	6.72	23.42	17	168	-2	-100	0.28	0.2	7.232	0.206	0	0	0	26
OH29544	OH1960	C	6A CWC 3 S	7.16Y	119.3	0.03	6.74	7.62	5	54	-5	-100	0.01	0.0	7.319	0.087	0	0	0	8
OH2602	OH29544	C	6A CWC 3 S	7.15Y	119.2	0.03	6.77	5.82	4	42	-4	-100	0.01	0.0	7.430	0.112	0	0	0	7
OH29108	OH2602	C	6A CWC 3 S	7.15Y	119.2	0.00	6.77	0.43	0	3	0	100	0.00	0.0	7.520	0.089	0	0	0	1
000052400001...	OH29108	C	Consumer	7.15Y	119.2	0.00	6.77	0.43	0	3	0	100	0.00	0.0	7.520	0.089	3	0	1	1
OH2603	OH2602	C	6A CWC 3 S	7.15Y	119.2	0.03	6.80	4.14	3	30	-3	-100	0.01	0.0	7.619	0.188	0	0	0	5
OH2604	OH2603	C	6A CWC 3 S	7.15Y	119.1	0.09	6.89	4.14	3	30	-3	-100	0.02	0.1	8.205	0.586	0	0	0	5
000052400001...	OH2604	C	Consumer	7.15Y	119.1	0.00	6.89	0.00	0	0	0	100	0.00	0.0	8.205	0.586	0	0	0	0
OH4413	OH2604	C	6A CWC 3 S	7.15Y	119.1	0.01	6.90	4.14	3	29	-3	-99	0.00	0.0	8.292	0.087	0	0	0	5
OH2606	OH4413	C	6A CWC 3 S	7.14Y	119.1	0.03	6.94	4.14	3	29	-3	-99	0.01	0.0	8.508	0.216	0	0	0	5
OH2605	OH2606	C	6A CWC 3 S	7.14Y	119.0	0.02	6.96	4.14	3	29	-3	-99	0.00	0.0	8.625	0.117	0	0	0	5
OH2607	OH2605	C	6A CWC 3 S	7.14Y	119.0	0.05	7.01	3.29	2	23	-2	-100	0.01	0.0	9.036	0.411	0	0	0	4
OH2608	OH2607	C	6A CWC 3 S	7.14Y	119.0	0.01	7.02	3.29	2	23	-2	-100	0.00	0.0	9.146	0.110	0	0	0	3
OH2609	OH2608	C	6A CWC 3 S	7.14Y	119.0	0.02	7.04	3.16	2	22	-2	-100	0.00	0.0	9.311	0.165	0	0	0	2
OH1959	OH2609	C	6A CWC 3 S	7.14Y	118.9	0.02	7.06	1.49	1	11	-1	-100	0.00	0.0	9.662	0.350	0	0	0	1
000052400001...	OH1959	C	Consumer	7.14Y	118.9	0.00	7.06	1.49	0	11	-1	-100	0.00	0.0	9.662	0.350	11	-1	1	1
000052400000...	OH2609	C	Consumer	7.14Y	119.0	0.00	7.04	1.67	0	12	-1	-100	0.00	0.0	9.311	0.350	12	-1	1	1
000052400000...	OH2609	C	Consumer	7.14Y	119.0	0.00	7.04	0.00	0	0	0	100	0.00	0.0	9.311	0.350	0	0	0	0
000052400000...	OH2608	C	Consumer	7.14Y	119.0	0.00	7.02	0.13	0	1	0	100	0.00	0.0	9.146	0.350	1	0	1	1
000052400000...	OH2608	C	Consumer	7.14Y	119.0	0.00	7.02	0.00	0	0	0	100	0.00	0.0	9.146	0.350	0	0	0	0
000052400000...	OH2607	C	Consumer	7.14Y	119.0	0.00	7.01	0.00	0	0	0	100	0.00	0.0	9.036	0.350	0	0	1	1
000052400000...	OH2605	C	Consumer	7.14Y	119.0	0.00	6.96	0.85	0	6	-1	-99	0.00	0.0	8.625	0.350	6	-1	1	1
000052400000...	OH2606	C	Consumer	7.14Y	119.1	0.00	6.94	0.00	0	0	0	100	0.00	0.0	8.508	0.350	0	0	0	0
000052400001...	OH4413	C	Consumer	7.15Y	119.1	0.00	6.90	0.00	0	0	0	100	0.00	0.0	8.292	0.350	0	0	0	0
000052400001...	OH2603	C	Consumer	7.15Y	119.2	0.00	6.80	0.00	0	0	0	100	0.00	0.0	7.619	0.350	0	0	0	0
000052400001...	OH2602	C	Consumer	7.15Y	119.2	0.00	6.77	1.25	0	9	-1	-99	0.00	0.0	7.430	0.350	9	-1	1	1
000052400001...	OH29544	C	Consumer	7.16Y	119.3	0.00	6.74	1.80	0	13	-1	-100	0.00	0.0	7.319	0.350	13	-1	1	1

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts														-----Element-----				
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OH2684	OH1960	C	6A CWC 3 S	7.16Y	119.3	0.00	6.72	0.00	0	0	0	100	0.00	0.0	7.351	0.119	0	0	0	0
000052400002...	OH2684	C	Consumer	7.16Y	119.3	0.00	6.72	0.00	0	0	0	100	0.00	0.0	7.351	0.119	0	0	0	0
OH2576	OH1960	C	6A CWC 3 S	7.15Y	119.1	0.17	6.89	15.48	11	111	3	100	0.16	0.1	7.502	0.270	0	0	0	17
OH2577	OH2576	C	6A CWC 3 S	7.14Y	119.0	0.15	7.04	15.48	11	111	3	100	0.14	0.1	7.736	0.234	0	0	0	17
OH2578	OH2577	C	6A CWC 3 S	7.11Y	118.6	0.40	7.44	15.48	11	110	3	100	0.37	0.3	8.366	0.630	0	0	0	17
OH29119	OH2578	C	6A CWC 3 S	7.11Y	118.5	0.08	7.52	15.48	11	110	2	100	0.07	0.1	8.487	0.121	0	0	0	17
OH29121	OH29119	C	6A CWC 3 S	7.11Y	118.5	0.01	7.53	1.85	1	13	-1	-100	0.00	0.0	8.599	0.112	0	0	0	1
000052400002...	OH29121	C	Consumer	7.11Y	118.5	0.00	7.53	1.85	0	13	-1	-100	0.00	0.0	8.599	0.112	13	-1	1	1
OH2588	OH29119	C	6A CWC 3 S	7.11Y	118.4	0.05	7.57	12.71	9	90	4	100	0.04	0.0	8.581	0.094	0	0	0	14
OH2598	OH2588	C	6A CWC 3 S	7.11Y	118.4	0.00	7.57	0.63	0	4	0	100	0.00	0.0	8.683	0.102	0	0	0	1
OH2597	OH2598	C	6A CWC 3 S	7.11Y	118.4	0.00	7.57	0.00	0	0	0	100	0.00	0.0	8.856	0.173	0	0	0	0
000052400002...	OH2598	C	Consumer	7.11Y	118.4	0.00	7.57	0.63	0	4	0	100	0.00	0.0	8.683	0.173	4	0	1	1
OH2579	OH2588	C	6A CWC 3 S	7.10Y	118.3	0.10	7.67	12.08	9	86	5	100	0.07	0.1	8.772	0.191	0	0	0	13
OH2580	OH2579	C	6A CWC 3 S	7.09Y	118.1	0.21	7.88	12.08	9	86	4	100	0.15	0.2	9.179	0.407	0	0	0	13
OH2581	OH2580	C	6A CWC 3 S	7.08Y	118.0	0.09	7.96	11.32	8	80	5	100	0.06	0.1	9.358	0.179	0	0	0	12
OH29116	OH2581	C	6A CWC 3 S	7.08Y	118.0	0.04	8.01	9.96	7	70	6	100	0.03	0.0	9.463	0.105	0	0	0	10
OH2589	OH29116	C	6A CWC 3 S	7.07Y	117.9	0.14	8.14	9.96	7	70	6	100	0.08	0.1	9.788	0.325	0	0	0	10
OH2590	OH2589	C	6A CWC 3 S	7.07Y	117.8	0.02	8.16	4.77	3	34	-3	-100	0.01	0.0	9.902	0.113	0	0	0	5
OH2591	OH2590	C	6A CWC 3 S	7.07Y	117.8	0.01	8.17	4.33	3	30	-3	-100	0.00	0.0	9.942	0.041	0	0	0	4
OH2592	OH2591	C	6A CWC 3 S	7.07Y	117.8	0.03	8.20	4.33	3	30	-3	-100	0.01	0.0	10.118	0.176	0	0	0	4
OH2593	OH2592	C	6A CWC 3 S	7.07Y	117.8	0.02	8.22	3.16	2	22	-2	-100	0.00	0.0	10.292	0.174	0	0	0	3
OH29105	OH2593	C	6A CWC 3 S	7.07Y	117.8	0.00	8.22	0.85	1	6	-1	-99	0.00	0.0	10.326	0.034	0	0	0	2
OH2582	OH29105	C	6A CWC 3 S	7.07Y	117.8	0.01	8.23	0.49	0	3	0	100	0.00	0.0	10.620	0.294	0	0	0	1
000052400001...	OH2582	C	Consumer	7.07Y	117.8	0.00	8.23	0.49	0	3	0	100	0.00	0.0	10.620	0.294	3	0	1	1
000052400001...	OH29105	C	Consumer	7.07Y	117.8	0.00	8.22	0.36	0	3	0	100	0.00	0.0	10.326	0.294	3	0	1	1
000052400001...	OH2593	C	Consumer	7.07Y	117.8	0.00	8.22	2.31	0	16	-2	-99	0.00	0.0	10.292	0.294	16	-2	1	1
000052400001...	OH2592	C	Consumer	7.07Y	117.8	0.00	8.20	1.17	0	8	-1	-99	0.00	0.0	10.118	0.294	8	-1	1	1
000052400001...	OH2591	C	Consumer	7.07Y	117.8	0.00	8.17	0.00	0	0	0	100	0.00	0.0	9.942	0.294	0	0	0	0
000052400001...	OH2591	C	Consumer	7.07Y	117.8	0.00	8.17	0.00	0	0	0	100	0.00	0.0	9.942	0.294	0	0	0	0
000052400001...	OH2590	C	Consumer	7.07Y	117.8	0.00	8.16	0.44	0	3	0	100	0.00	0.0	9.902	0.294	3	0	1	1
000052400001...	OH2589	C	Consumer	7.07Y	117.9	0.00	8.14	1.28	0	9	-1	-99	0.00	0.0	9.788	0.294	9	-1	1	1
000052400001...	OH2589	C	Consumer	7.07Y	117.9	0.00	8.14	3.20	0	20	10	89	0.00	0.0	9.788	0.294	20	10	1	1
000052400001...	OH2589	C	Consumer	7.07Y	117.9	0.00	8.14	0.12	0	1	0	100	0.00	0.0	9.788	0.294	1	0	1	1
000052400001...	OH2589	C	Consumer	7.07Y	117.9	0.00	8.14	0.87	0	6	-1	-99	0.00	0.0	9.788	0.294	6	-1	1	1
000052400001...	OH2589	C	Consumer	7.07Y	117.9	0.00	8.14	0.00	0	0	0	100	0.00	0.0	9.788	0.294	0	0	0	0
000052400001...	OH2589	C	Consumer	7.07Y	117.9	0.00	8.14	0.05	0	0	0	100	0.00	0.0	9.788	0.294	0	0	1	1
000052400002...	OH29116	C	Consumer	7.08Y	118.0	0.00	8.01	0.00	0	0	0	100	0.00	0.0	9.463	0.294	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
000052400002...	OH2581	C	Consumer	7.08Y	118.0	0.00	7.96	1.03	0	7	-1	-99	0.00	0.0	9.358	0.294	7	-1	1	1
000052400002...	OH2581	C	Consumer	7.08Y	118.0	0.00	7.96	0.35	0	2	0	100	0.00	0.0	9.358	0.294	2	0	1	1
OH1961	OH2580	C	6A CWC 3 S	7.09Y	118.1	0.00	7.88	0.77	1	5	-1	-98	0.00	0.0	9.328	0.149	0	0	0	1
OH2583	OH1961	C	6A CWC 3 S	7.09Y	118.1	0.00	7.88	0.77	1	5	-1	-98	0.00	0.0	9.476	0.148	0	0	0	1
000052400002...	OH2583	C	Consumer	7.09Y	118.1	0.00	7.88	0.77	0	5	-1	-98	0.00	0.0	9.476	0.148	5	-1	1	1
000052400002...	OH1961	C	Consumer	7.09Y	118.1	0.00	7.88	0.00	0	0	0	100	0.00	0.0	9.328	0.148	0	0	0	0
000052400002...	OH1961	C	Consumer	7.09Y	118.1	0.00	7.88	0.00	0	0	0	100	0.00	0.0	9.328	0.148	0	0	0	0
000052400002...	OH2579	C	Consumer	7.10Y	118.3	0.00	7.67	0.00	0	0	0	100	0.00	0.0	8.772	0.148	0	0	0	0
000052400002...	OH29119	C	Consumer	7.11Y	118.5	0.00	7.52	0.43	0	3	0	100	0.00	0.0	8.487	0.148	3	0	1	1
000052400002...	OH29119	C	Consumer	7.11Y	118.5	0.00	7.52	0.51	0	4	0	100	0.00	0.0	8.487	0.148	4	0	1	1
000052400002...	OH2578	C	Consumer	7.11Y	118.6	0.00	7.44	0.00	0	0	0	100	0.00	0.0	8.366	0.148	0	0	0	0
000052400002...	OH2577	C	Consumer	7.14Y	119.0	0.00	7.04	0.00	0	0	0	100	0.00	0.0	7.736	0.148	0	0	0	0
000052400002...	OH2576	C	Consumer	7.15Y	119.1	0.00	6.89	0.00	0	0	0	100	0.00	0.0	7.502	0.148	0	0	0	0
000052400002...	OH1960	C	Consumer	7.16Y	119.3	0.00	6.72	0.00	0	0	0	100	0.00	0.0	7.232	0.148	0	0	0	0
000052400002...	OH1960	C	Consumer	7.16Y	119.3	0.00	6.72	0.36	0	3	0	100	0.00	0.0	7.232	0.148	3	0	1	1
000052400002...	OH2575	C	Consumer	7.17Y	119.5	0.00	6.52	0.00	0	0	0	100	0.00	0.0	7.026	0.148	0	0	0	0
000052400002...	OH2574	C	Consumer	7.18Y	119.7	0.00	6.35	0.00	0	0	0	100	0.00	0.0	6.840	0.148	0	0	0	0
000052400002...	OH2574	C	Consumer	7.18Y	119.7	0.00	6.35	0.00	0	0	0	100	0.00	0.0	6.840	0.148	0	0	0	0
000052400002...	OH2574	C	Consumer	7.18Y	119.7	0.00	6.35	0.00	0	0	0	100	0.00	0.0	6.840	0.148	0	0	0	0
000052400002...	OH2574	C	Consumer	7.18Y	119.7	0.00	6.35	0.00	0	0	0	100	0.00	0.0	6.840	0.148	0	0	1	1
000052400002...	OH2573	C	Consumer	7.19Y	119.8	0.00	6.24	0.01	0	0	0	100	0.00	0.0	6.734	0.148	0	0	1	1
000052400002...	OH2573	C	Consumer	7.19Y	119.8	0.00	6.24	2.07	0	15	-1	-100	0.00	0.0	6.734	0.148	15	-1	1	1
000052400002...	OH2572	C	Consumer	7.19Y	119.9	0.00	6.10	0.84	0	6	-1	-99	0.00	0.0	6.596	0.148	6	-1	1	1
000052400002...	OH2572	C	Consumer	7.19Y	119.9	0.00	6.10	0.00	0	0	0	100	0.00	0.0	6.596	0.148	0	0	0	0
000052400002...	OH2572	C	Consumer	7.19Y	119.9	0.00	6.10	0.00	0	0	0	100	0.00	0.0	6.596	0.148	0	0	0	0
000052400002...	OH2572	C	Consumer	7.19Y	119.9	0.00	6.10	0.00	0	0	0	100	0.00	0.0	6.596	0.148	0	0	1	1
000052400002...	OH2572	C	Consumer	7.19Y	119.9	0.00	6.10	0.03	0	0	0	100	0.00	0.0	6.596	0.148	0	0	1	1
000052400002...	OH2571	C	Consumer	7.21Y	120.2	0.00	5.83	0.00	0	0	0	100	0.00	0.0	6.371	0.148	0	0	0	0
000052400002...	OH2563	C	Consumer	7.23Y	120.5	0.00	5.49	0.00	0	0	0	100	0.00	0.0	6.134	0.148	0	0	0	0
000052400002...	OH2562	C	Consumer	7.25Y	120.8	0.00	5.15	0.10	0	1	0	100	0.00	0.0	5.899	0.148	1	0	1	1
000052400002...	OH2562	C	Consumer	7.25Y	120.8	0.00	5.15	2.27	0	16	-2	-99	0.00	0.0	5.899	0.148	16	-2	1	1
OH2478	OH2477	C	6A CWC 3 S	7.27Y	121.2	0.02	4.83	3.24	2	23	-2	-100	0.00	0.0	5.859	0.179	0	0	0	2
000061900002...	OH2478	C	Consumer	7.27Y	121.2	0.00	4.83	1.41	0	10	-1	-100	0.00	0.0	5.859	0.179	10	-1	1	1
000061900002...	OH2478	C	Consumer	7.27Y	121.2	0.00	4.83	1.83	0	13	-1	-100	0.00	0.0	5.859	0.179	13	-1	1	1
OH1957	OH1958	C	6A CWC 3 S	7.30Y	121.7	0.00	4.34	0.00	0	0	0	100	0.00	0.0	5.797	0.395	0	0	0	0
000061900003...	OH1957	C	Consumer	7.30Y	121.7	0.00	4.34	0.00	0	0	0	100	0.00	0.0	5.797	0.395	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
000061900002...	OH2530	C	Consumer	7.30Y	121.7	0.00	4.31	0.00	0	0	0	100	0.00	0.0	5.238	0.395	0	0	0	0
000061900002...	OH2530	C	Consumer	7.30Y	121.7	0.00	4.31	0.60	0	4	0	100	0.00	0.0	5.238	0.395	4	0	1	1
OH2479	OH2476	C	6A CWC 3 S	7.30Y	121.7	0.00	4.29	0.56	0	4	0	100	0.00	0.0	5.307	0.182	0	0	0	1
000061900002...	OH2479	C	Consumer	7.30Y	121.7	0.00	4.29	0.56	0	4	0	100	0.00	0.0	5.307	0.182	4	0	1	1
000061900002...	OH2476	C	Consumer	7.30Y	121.7	0.00	4.29	0.00	0	0	0	100	0.00	0.0	5.125	0.182	0	0	0	0
000061900002...	OH2475	C	Consumer	7.31Y	121.8	0.00	4.23	0.00	0	0	0	100	0.00	0.0	4.841	0.182	0	0	0	0
000061900002...	OH2473	C	Consumer	7.31Y	121.9	0.00	4.13	0.36	0	2	1	89	0.00	0.0	4.347	0.182	2	1	1	1
000061900002...	OH2472	C	Consumer	7.31Y	121.9	0.00	4.10	3.61	0	26	-2	-100	0.00	0.0	4.192	0.182	26	-2	1	1
OH1977	OH1963	C	6A CWC 3 S	7.32Y	122.0	0.03	4.05	2.63	2	19	-2	-99	0.00	0.0	4.129	0.251	0	0	0	3
OH1978	OH1977	C	6A CWC 3 S	7.32Y	122.0	0.00	4.05	1.51	1	11	-1	-100	0.00	0.0	4.190	0.061	0	0	0	2
OH1979	OH1978	C	6A CWC 3 S	7.32Y	121.9	0.01	4.06	1.46	1	11	-1	-100	0.00	0.0	4.371	0.181	0	0	0	1
000061940402...	OH1979	C	Consumer	7.32Y	121.9	0.00	4.06	1.46	0	11	-1	-100	0.00	0.0	4.371	0.181	11	-1	1	1
000061940402...	OH1978	C	Consumer	7.32Y	122.0	0.00	4.05	0.06	0	0	0	100	0.00	0.0	4.190	0.181	0	0	1	1
000061940402...	OH1978	C	Consumer	7.32Y	122.0	0.00	4.05	0.00	0	0	0	100	0.00	0.0	4.190	0.181	0	0	0	0
000061940402...	OH1977	C	Consumer	7.32Y	122.0	0.00	4.05	0.00	0	0	0	100	0.00	0.0	4.129	0.181	0	0	0	0
000061940402...	OH1977	C	Consumer	7.32Y	122.0	0.00	4.05	1.11	0	8	-1	-99	0.00	0.0	4.129	0.181	8	-1	1	1
000061910402...	OH1965	C	Consumer	7.32Y	122.0	0.00	4.00	0.00	0	0	0	100	0.00	0.0	3.808	0.181	0	0	0	0
000061910402...	OH1965	C	Consumer	7.32Y	122.0	0.00	4.00	0.13	0	1	0	100	0.00	0.0	3.808	0.181	1	0	1	1
OH1906	OH1903	C	6A CWC 3 S	7.33Y	122.1	0.00	3.89	0.60	0	4	0	100	0.00	0.0	3.531	0.145	0	0	0	1
000061910402...	OH1906	C	Consumer	7.33Y	122.1	0.00	3.89	0.00	0	0	0	100	0.00	0.0	3.531	0.145	0	0	0	0
000061910402...	OH1906	C	Consumer	7.33Y	122.1	0.00	3.89	0.60	0	4	0	100	0.00	0.0	3.531	0.145	4	0	1	1
000061910402...	OH2014	C	Consumer	7.33Y	122.1	0.00	3.87	1.29	0	9	-1	-99	0.00	0.0	3.337	0.145	9	-1	1	1
OH1942	OH1910	C	6A CWC 3 S	7.33Y	122.1	0.04	3.86	6.64	5	48	-4	-100	0.02	0.0	3.280	0.174	0	0	0	6
OH1943	OH1942	C	6A CWC 3 S	7.33Y	122.1	0.02	3.87	3.95	3	29	-3	-99	0.00	0.0	3.408	0.127	0	0	0	1
OH1952	OH1943	C	6A CWC 3 S	7.33Y	122.1	0.00	3.88	3.95	3	29	-3	-99	0.00	0.0	3.439	0.032	0	0	0	1
000061940402...	OH1952	C	Consumer	7.33Y	122.1	0.00	3.88	3.95	0	29	-3	-99	0.00	0.0	3.439	0.032	29	-3	1	1
OH1951	OH1943	C	6A CWC 3 S	7.33Y	122.1	0.00	3.87	0.00	0	0	0	100	0.00	0.0	3.478	0.070	0	0	0	0
OH1935	OH1942	C	6A CWC 3 S	7.33Y	122.1	0.02	3.87	2.69	2	20	-2	-100	0.00	0.0	3.441	0.160	0	0	0	5
OH1911	OH1935	C	6A CWC 3 S	7.33Y	122.1	0.01	3.88	2.05	1	15	-1	-100	0.00	0.0	3.531	0.090	0	0	0	4
OH1917	OH1911	C	6A CWC 3 S	7.33Y	122.1	0.00	3.88	1.85	1	14	-1	-100	0.00	0.0	3.596	0.065	0	0	0	3
OH1919	OH1917	C	6A CWC 3 S	7.33Y	122.1	0.02	3.91	1.85	1	14	-1	-100	0.00	0.0	3.896	0.300	0	0	0	1
000061940401...	OH1919	C	Consumer	7.33Y	122.1	0.00	3.91	1.85	0	14	-1	-100	0.00	0.0	3.896	0.300	14	-1	1	1
000061940402...	OH1917	C	Consumer	7.33Y	122.1	0.00	3.88	0.00	0	0	0	100	0.00	0.0	3.596	0.300	0	0	1	1
000061940402...	OH1917	C	Consumer	7.33Y	122.1	0.00	3.88	0.00	0	0	0	100	0.00	0.0	3.596	0.300	0	0	0	0
000061940402...	OH1917	C	Consumer	7.33Y	122.1	0.00	3.88	0.00	0	0	0	100	0.00	0.0	3.596	0.300	0	0	1	1
000061940402...	OH1917	C	Consumer	7.33Y	122.1	0.00	3.88	0.00	0	0	0	100	0.00	0.0	3.596	0.300	0	0	0	0
OH1913	OH1911	C	6A CWC 3 S	7.33Y	122.1	0.00	3.88	0.19	0	1	0	100	0.00	0.0	3.782	0.251	0	0	0	1

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts														-----Element-----							
		-Base Voltage:120.0-														mi				Cons		Cons	
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	On	Thru			
OH1914	OH1913	C	6A CWC 3 S	7.33Y	122.1	0.00	3.88	0.19	0	1	0	100	0.00	0.0	3.879	0.096	0	0	0	1			
000061940401...	OH1914	C	Consumer	7.33Y	122.1	0.00	3.88	0.19	0	1	0	100	0.00	0.0	3.879	0.096	1	0	1	1			
000061940401...	OH1913	C	Consumer	7.33Y	122.1	0.00	3.88	0.00	0	0	0	100	0.00	0.0	3.782	0.096	0	0	0	0			
000061940402...	OH1935	C	Consumer	7.33Y	122.1	0.00	3.87	0.65	0	5	0	100	0.00	0.0	3.441	0.096	5	0	1	1			
OH1905	OH1904	C	6A CWC 3 S	7.33Y	122.2	0.00	3.78	0.85	1	6	-1	-99	0.00	0.0	3.141	0.151	0	0	0	1			
000061910402...	OH1905	C	Consumer	7.33Y	122.2	0.00	3.78	0.85	0	6	-1	-99	0.00	0.0	3.141	0.151	6	-1	1	1			
000061940402...	OH2190	A	Consumer	7.36Y	122.6	0.00	3.40	0.00	0	0	0	100	0.00	0.0	2.533	0.151	0	0	0	0			
000061940402...	OH2190	A	Consumer	7.36Y	122.6	0.00	3.40	2.37	0	17	-2	-99	0.00	0.0	2.533	0.151	17	-2	1	1			
000061940402...	OH2190	A	Consumer	7.36Y	122.6	0.00	3.40	0.00	0	0	0	100	0.00	0.0	2.533	0.151	0	0	0	0			
000061940402...	OH2188	A	Consumer	7.37Y	122.9	0.00	3.13	0.03	0	0	0	100	0.00	0.0	2.333	0.151	0	0	1	1			
000061940402...	OH2188	A	Consumer	7.37Y	122.9	0.00	3.13	0.69	0	5	0	100	0.00	0.0	2.333	0.151	5	0	1	1			
000061940401...	OH2176	A	Consumer	7.41Y	123.6	0.00	2.42	0.00	0	0	0	100	0.00	0.0	1.816	0.151	0	0	0	0			
OH2173	OH2011	A	4 ACSR 7/1	7.43Y	123.8	0.01	2.24	1.80	1	13	-1	-100	0.00	0.0	1.764	0.078	0	0	0	1			
000061940401...	OH2173	A	Consumer	7.43Y	123.8	0.00	2.24	1.80	0	13	-1	-100	0.00	0.0	1.764	0.078	13	-1	1	1			
OCR-2022	OH1992	C	25-4H OCR	7.44Y	124.0	0.00	2.01	4.65	0	34	-3	-100	0.00	0.0	1.524	0.078	0	0	0	4			
OH1993	OCR-2022	C	4 ACSR 7/1	7.43Y	123.9	0.08	2.09	4.65	3	34	-3	-100	0.02	0.1	1.958	0.434	0	0	0	4			
OH1997	OH1993	C	4 ACSR 7/1	7.43Y	123.9	0.01	2.10	4.65	3	34	-3	-100	0.00	0.0	2.001	0.043	0	0	0	4			
OH2001	OH1997	C	4 ACSR 7/1	7.43Y	123.9	0.01	2.11	1.55	1	11	-1	-100	0.00	0.0	2.156	0.155	0	0	0	2			
000061940401...	OH2001	C	Consumer	7.43Y	123.9	0.00	2.11	0.06	0	0	0	100	0.00	0.0	2.156	0.155	0	0	1	1			
000061940401...	OH2001	C	Consumer	7.43Y	123.9	0.00	2.11	1.49	0	11	-1	-100	0.00	0.0	2.156	0.155	11	-1	1	1			
OH1994	OH1997	C	4 ACSR 7/1	7.43Y	123.9	0.01	2.11	3.10	2	23	-2	-100	0.00	0.0	2.093	0.092	0	0	0	2			
OH1995	OH1994	C	4 ACSR 7/1	7.43Y	123.9	0.01	2.11	1.46	1	11	-1	-100	0.00	0.0	2.183	0.091	0	0	0	1			
OH1996	OH1995	C	4 ACSR 7/1	7.43Y	123.9	0.00	2.11	0.00	0	0	0	100	0.00	0.0	2.257	0.074	0	0	0	0			
000061940401...	OH1996	C	Consumer	7.43Y	123.9	0.00	2.11	0.00	0	0	0	100	0.00	0.0	2.257	0.074	0	0	0	0			
000061940401...	OH1995	C	Consumer	7.43Y	123.9	0.00	2.11	1.46	0	11	-1	-100	0.00	0.0	2.183	0.074	11	-1	1	1			
000061940401...	OH1994	C	Consumer	7.43Y	123.9	0.00	2.11	1.63	0	12	-1	-100	0.00	0.0	2.093	0.074	12	-1	1	1			
000061940401...	OH1994	C	Consumer	7.43Y	123.9	0.00	2.11	0.00	0	0	0	100	0.00	0.0	2.093	0.074	0	0	0	0			
000061940401...	OH1992	A	Consumer	7.44Y	124.0	0.00	2.01	1.87	0	14	-1	-100	0.00	0.0	1.524	0.074	14	-1	1	1			
OCR-1021	OH1916	ABC	100L OCR	7.46Y	124.3	0.00	1.66	161.87	0	3623	50	100	0.00	0.0	1.279	0.074	0	0	0	459			
OH1933	OCR-1021	ABC	336 ACSR18	7.45Y	124.1	0.21	1.87	161.87	31	3623	50	100	6.01	0.2	1.558	0.278	0	0	0	459			
OH29631	OH1933	ABC	336 ACSR18	7.44Y	124.0	0.18	2.04	161.43	31	3607	37	100	5.01	0.1	1.791	0.234	0	0	0	458			
OH29632	OH29631	C	336 ACSR18	7.44Y	124.0	0.00	2.04	2.06	0	15	-1	-100	0.00	0.0	1.835	0.044	0	0	0	1			
OH2970	OH29632	C	336 ACSR18	7.44Y	124.0	0.00	2.04	0.00	0	0	0	100	0.00	0.0	1.836	0.001	0	0	0	0			
OH2981	OH2970	C	336 ACSR18	7.44Y	124.0	0.00	2.04	0.00	0	0	0	100	0.00	0.0	1.838	0.002	0	0	0	0			
000061940400...	OH2981	C	Consumer	7.44Y	124.0	0.00	2.04	0.00	0	0	0	100	0.00	0.0	1.838	0.002	0	0	0	0			
000061940400...	OH29632	C	Consumer	7.44Y	124.0	0.00	2.04	2.06	0	15	-1	-100	0.00	0.0	1.835	0.002	15	-1	1	1			
OH1920	OH29631	ABC	336 ACSR18	7.44Y	123.9	0.01	2.05	160.74	31	3586	26	100	0.30	0.0	1.805	0.014	0	0	0	457			

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts											mi		-----Element-----					
		-Base Voltage:120.0-											From	Length			Cons	Cons		
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	Src	(mi)	KW	KVAR	On	Thru
OH29461	OH1920	ABC	336 ACSR18	7.44Y	123.9	0.02	2.08	160.31	31	3577	26	100	0.59	0.0	1.833	0.028	0	0	0	456
OH29635	OH29461	B	336 ACSR18	7.44Y	123.9	0.00	2.08	0.01	0	0	0	100	0.00	0.0	1.860	0.027	0	0	0	1
000061940400...	OH29635	B	Consumer	7.44Y	123.9	0.00	2.08	0.01	0	0	0	100	0.00	0.0	1.860	0.027	0	0	1	1
OH29462	OH29461	A	336 ACSR18	7.44Y	123.9	0.00	2.08	2.59	0	19	-2	-99	0.00	0.0	1.877	0.044	0	0	0	1
000061940400...	OH29462	A	Consumer	7.44Y	123.9	0.00	2.08	2.59	0	19	-2	-99	0.00	0.0	1.877	0.044	19	-2	1	1
OH1921	OH29461	ABC	336 ACSR18	7.43Y	123.9	0.02	2.09	159.45	31	3557	27	100	0.51	0.0	1.858	0.024	0	0	0	454
OH1931	OH1921	A	4 ACSR 7/1	7.43Y	123.9	0.00	2.09	0.00	0	0	0	100	0.00	0.0	1.950	0.092	0	0	0	0
000061940400...	OH1931	A	Consumer	7.43Y	123.9	0.00	2.09	0.00	0	0	0	100	0.00	0.0	1.950	0.092	0	0	0	0
OH1922	OH1921	ABC	336 ACSR18	7.42Y	123.7	0.20	2.29	159.45	31	3556	25	100	5.72	0.2	2.131	0.273	0	0	0	454
OH1930	OH1922	A	4 ACSR 7/1	7.42Y	123.7	0.01	2.30	1.97	1	15	-1	-100	0.00	0.0	2.256	0.125	0	0	0	1
000061940400...	OH1930	A	Consumer	7.42Y	123.7	0.00	2.30	1.97	0	15	-1	-100	0.00	0.0	2.256	0.125	15	-1	1	1
OH1923	OH1922	ABC	336 ACSR18	7.42Y	123.7	0.05	2.34	158.80	31	3536	13	100	1.36	0.0	2.196	0.066	0	0	0	453
OH1929	OH1923	A	4 ACSR 7/1	7.42Y	123.7	0.00	2.34	0.00	0	0	0	100	0.00	0.0	2.294	0.097	0	0	0	0
000061940400...	OH1929	A	Consumer	7.42Y	123.7	0.00	2.34	0.00	0	0	0	100	0.00	0.0	2.294	0.097	0	0	0	0
OH1924	OH1923	ABC	336 ACSR18	7.41Y	123.6	0.10	2.44	158.80	31	3535	10	100	2.90	0.1	2.336	0.140	0	0	0	453
OH1928	OH1924	A	4 ACSR 7/1	7.41Y	123.5	0.01	2.45	1.48	1	11	-1	-100	0.00	0.0	2.468	0.131	0	0	0	1
000061940400...	OH1928	A	Consumer	7.41Y	123.5	0.00	2.45	1.48	0	11	-1	-100	0.00	0.0	2.468	0.131	11	-1	1	1
OH1925	OH1924	ABC	336 ACSR18	7.41Y	123.5	0.08	2.52	158.31	31	3521	4	100	2.15	0.1	2.440	0.104	0	0	0	452
OH2042	OH1925	ABC	336 ACSR18	7.40Y	123.4	0.07	2.59	158.31	31	3519	-1	-100	2.11	0.1	2.543	0.102	0	0	0	452
C OH2049	OH2042	ABC	4 ACSR 7/1	7.40Y	123.3	0.11	2.70	158.11	113	3512	-6	-100	3.05	0.1	2.561	0.018	0	0	0	451
OH30206	OH2049	B	4 ACSR 7/1	7.40Y	123.3	0.00	2.70	4.14	3	31	-3	-100	0.00	0.0	2.574	0.013	0	0	0	4
OH30207	OH30206	B	4 ACSR 7/1	7.40Y	123.3	0.00	2.70	1.40	1	10	-1	-100	0.00	0.0	2.586	0.012	0	0	0	1
000061330409...	OH30207	B	Consumer	7.40Y	123.3	0.00	2.70	1.40	0	10	-1	-100	0.00	0.0	2.586	0.012	10	-1	1	1
OH2052	OH30206	B	4 ACSR 7/1	7.40Y	123.3	0.00	2.71	2.75	2	20	-2	-100	0.00	0.0	2.596	0.022	0	0	0	3
OH30202	OH2052	B	4 ACSR 7/1	7.40Y	123.3	0.00	2.71	0.56	0	4	0	100	0.00	0.0	2.607	0.010	0	0	0	2
OH30203	OH30202	B	4 ACSR 7/1	7.40Y	123.3	0.00	2.71	0.05	0	0	0	100	0.00	0.0	2.629	0.022	0	0	0	1
000061330409...	OH30203	B	Consumer	7.40Y	123.3	0.00	2.71	0.05	0	0	0	100	0.00	0.0	2.629	0.022	0	0	1	1
OH2050	OH30202	B	4 ACSR 7/1	7.40Y	123.3	0.00	2.71	0.51	0	4	0	100	0.00	0.0	2.620	0.013	0	0	0	1
000061330409...	OH2050	B	Consumer	7.40Y	123.3	0.00	2.71	0.51	0	4	0	100	0.00	0.0	2.620	0.013	4	0	1	1
000061330409...	OH2052	B	Consumer	7.40Y	123.3	0.00	2.71	2.19	0	16	-1	-100	0.00	0.0	2.596	0.013	16	-1	1	1
OH2031	OH2049	ABC	336 ACSR18	7.40Y	123.3	0.03	2.73	156.74	30	3479	-4	-100	0.85	0.0	2.603	0.042	0	0	0	447
OH2034	OH2031	A	4 ACSR 7/1	7.40Y	123.3	0.00	2.73	0.15	0	1	0	100	0.00	0.0	2.638	0.035	0	0	0	1
OH2035	OH2034	A	4 ACSR 7/1	7.40Y	123.3	0.00	2.73	0.00	0	0	0	100	0.00	0.0	2.803	0.165	0	0	0	0
000061330409...	OH2035	A	Consumer	7.40Y	123.3	0.00	2.73	0.00	0	0	0	100	0.00	0.0	2.803	0.165	0	0	0	0
000061330409...	OH2034	A	Consumer	7.40Y	123.3	0.00	2.73	0.00	0	0	0	100	0.00	0.0	2.638	0.165	0	0	0	0
000061330409...	OH2034	A	Consumer	7.40Y	123.3	0.00	2.73	0.15	0	1	0	100	0.00	0.0	2.638	0.165	1	0	1	1
OH2032	OH2031	ABC	336 ACSR18	7.39Y	123.2	0.02	2.76	156.47	30	3472	-6	-100	0.70	0.0	2.638	0.035	0	0	0	445

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													-----Element-----						
		-Base Voltage:120.0-											mi								
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	
C OH2069	OH2032	ABC	4 ACSR 7/1	7.39Y	123.1	0.12	2.88	155.81	111	3457	-6	-100	3.46	0.1	2.659	0.021	0	0	0	444	C
OH29395	OH2069	A	4 ACSR 7/1	7.39Y	123.1	0.01	2.89	1.43	1	10	-1	-100	0.00	0.0	2.840	0.181	0	0	0	0	1
OH29397	OH29395	A	4 ACSR 7/1	7.39Y	123.1	0.00	2.89	0.00	0	0	0	100	0.00	0.0	2.861	0.022	0	0	0	0	0
000061330409...	OH29397	A	Consumer	7.39Y	123.1	0.00	2.89	0.00	0	0	0	100	0.00	0.0	2.861	0.022	0	0	0	0	0
OH29396	OH29395	A	4 ACSR 7/1	7.39Y	123.1	0.01	2.90	1.43	1	10	-1	-100	0.00	0.0	2.942	0.102	0	0	0	0	1
000061330409...	OH29396	A	Consumer	7.39Y	123.1	0.00	2.90	1.43	0	10	-1	-100	0.00	0.0	2.942	0.102	10	-1	1	1	1
OH2060	OH2069	ABC	336 ACSR18	7.39Y	123.1	0.02	2.90	155.30	30	3442	-6	-100	0.60	0.0	2.690	0.030	0	0	0	0	441
OH2074	OH2060	ABC	336 ACSR18	7.38Y	123.0	0.11	3.01	154.29	30	3419	-6	-100	3.10	0.1	2.847	0.158	0	0	0	0	439
OH2082	OH2074	ABC	336 ACSR18	7.38Y	122.9	0.06	3.07	153.49	30	3398	-11	-100	1.62	0.0	2.931	0.083	0	0	0	0	437
OH2089	OH2082	C	4 ACSR 7/1	7.38Y	122.9	0.00	3.07	0.00	0	0	0	100	0.00	0.0	2.985	0.054	0	0	0	0	0
OH2131	OH2089	C	4 ACSR 7/1	7.38Y	122.9	0.00	3.07	0.00	0	0	0	100	0.00	0.0	3.030	0.045	0	0	0	0	0
000061940400...	OH2131	C	Consumer	7.38Y	122.9	0.00	3.07	0.00	0	0	0	100	0.00	0.0	3.030	0.045	0	0	0	0	0
OH2088	OH2089	C	4 ACSR 7/1	7.38Y	122.9	0.00	3.07	0.00	0	0	0	100	0.00	0.0	3.056	0.071	0	0	0	0	0
OH2083	OH2082	ABC	336 ACSR18	7.37Y	122.9	0.05	3.12	153.39	30	3394	-15	-100	1.33	0.0	3.000	0.069	0	0	0	0	436
OH2093	OH2083	ABC	336 ACSR18	7.37Y	122.9	0.03	3.14	151.47	29	3350	-14	-100	0.74	0.0	3.039	0.039	0	0	0	0	432
OH2096	OH2093	C	4 ACSR 7/1	7.37Y	122.9	0.00	3.15	0.47	0	3	0	100	0.00	0.0	3.106	0.068	0	0	0	0	1
000061940400...	OH2096	C	Consumer	7.37Y	122.9	0.00	3.15	0.47	0	3	0	100	0.00	0.0	3.106	0.068	3	0	1	1	1
OH2084	OH2093	ABC	336 ACSR18	7.37Y	122.8	0.03	3.18	151.31	29	3346	-16	-100	0.87	0.0	3.085	0.046	0	0	0	0	431
OH2095	OH2084	A	4 ACSR 7/1	7.37Y	122.8	0.01	3.18	1.17	1	9	-1	-99	0.00	0.0	3.210	0.125	0	0	0	0	1
000061940400...	OH2095	A	Consumer	7.37Y	122.8	0.00	3.18	1.17	0	9	-1	-99	0.00	0.0	3.210	0.125	9	-1	1	1	1
OH2094	OH2084	B	4 ACSR 7/1	7.37Y	122.8	0.00	3.18	1.22	1	9	-1	-99	0.00	0.0	3.171	0.086	0	0	0	0	1
OH2126	OH2094	B	4 ACSR 7/1	7.37Y	122.8	0.00	3.18	0.00	0	0	0	100	0.00	0.0	3.212	0.041	0	0	0	0	0
000061940400...	OH2126	B	Consumer	7.37Y	122.8	0.00	3.18	0.00	0	0	0	100	0.00	0.0	3.212	0.041	0	0	0	0	0
000061940400...	OH2094	B	Consumer	7.37Y	122.8	0.00	3.18	1.22	0	9	-1	-99	0.00	0.0	3.171	0.041	9	-1	1	1	1
OH2085	OH2084	ABC	336 ACSR18	7.37Y	122.8	0.03	3.21	149.71	29	3310	-14	-100	0.93	0.0	3.135	0.050	0	0	0	0	427
OH2086	OH2085	ABC	336 ACSR18	7.36Y	122.7	0.06	3.27	148.77	29	3288	-15	-100	1.72	0.1	3.229	0.094	0	0	0	0	425
000061940400...	OH2086	A	Consumer	7.36Y	122.7	0.00	3.27	0.00	0	0	0	100	0.00	0.0	3.229	0.094	0	0	0	0	0
OH2087	OH2086	ABC	336 ACSR18	7.36Y	122.6	0.09	3.37	148.77	29	3286	-19	-100	2.56	0.1	3.370	0.140	0	0	0	0	425
OH2100	OH2087	ABC	336 ACSR18	7.35Y	122.5	0.14	3.51	147.53	28	3256	-22	-100	3.91	0.1	3.587	0.218	0	0	0	0	423
OH2115	OH2100	ABC	336 ACSR18	7.35Y	122.5	0.02	3.53	147.39	28	3250	-31	-100	0.61	0.0	3.621	0.034	0	0	0	0	422
OH2099	OH2115	ABC	336 ACSR18	7.34Y	122.4	0.07	3.60	147.39	28	3249	-33	-100	1.82	0.1	3.723	0.102	0	0	0	0	422
OH2113	OH2099	ABC	336 ACSR18	7.34Y	122.4	0.03	3.63	147.39	28	3247	-37	-100	0.75	0.0	3.765	0.042	0	0	0	0	422
OH2111	OH2113	ABC	336 ACSR18	7.34Y	122.3	0.04	3.67	146.90	28	3236	-38	-100	1.05	0.0	3.824	0.059	0	0	0	0	421
OH2101	OH2111	ABC	336 ACSR18	7.34Y	122.3	0.08	3.75	146.90	28	3235	-40	-100	2.24	0.1	3.950	0.126	0	0	0	0	421
OH2102	OH2101	ABC	336 ACSR18	7.33Y	122.2	0.06	3.81	146.90	28	3232	-46	-100	1.73	0.1	4.047	0.097	0	0	0	0	421
OH2322	OH2102	ABC	336 ACSR18	7.33Y	122.1	0.07	3.88	146.81	28	3228	-50	-100	1.83	0.1	4.150	0.103	0	0	0	0	420
OH2303	OH2322	ABC	336 ACSR18	7.33Y	122.1	0.03	3.90	146.81	28	3227	-54	-100	0.73	0.0	4.191	0.041	0	0	0	0	420

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts											mi		-----Element-----		Cons Cons			
		-Base Voltage:120.0-											From	Length	KW	KVAR	On	Thru		
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	Src	(mi)				
OH2326	OH2303	B	4 ACSR 7/1	7.33Y	122.1	0.01	3.91	1.49	1	11	-1	-100	0.00	0.0	4.320	0.129	0	0	0	2
OH2315	OH2326	B	4 ACSR 7/1	7.33Y	122.1	0.00	3.92	0.61	0	4	0	100	0.00	0.0	4.456	0.136	0	0	0	1
000061900001...	OH2315	B	Consumer	7.33Y	122.1	0.00	3.92	0.61	0	4	0	100	0.00	0.0	4.456	0.136	4	0	1	1
000061900001...	OH2326	B	Consumer	7.33Y	122.1	0.00	3.91	0.88	0	6	-1	-99	0.00	0.0	4.320	0.136	6	-1	1	1
OH2323	OH2303	ABC	336 ACSR18	7.32Y	122.1	0.03	3.93	146.31	28	3215	-55	-100	0.70	0.0	4.231	0.040	0	0	0	418
OH2304	OH2323	ABC	336 ACSR18	7.32Y	122.0	0.03	3.96	146.31	28	3214	-56	-100	0.77	0.0	4.274	0.044	0	0	0	418
OH2318	OH2304	A	4 ACSR 7/1	7.32Y	122.0	0.02	3.98	5.35	4	39	-4	-99	0.01	0.0	4.391	0.117	0	0	0	5
OH2331	OH2318	A	4 ACSR 7/1	7.32Y	122.0	0.02	4.00	3.19	2	23	-2	-100	0.00	0.0	4.547	0.156	0	0	0	3
OH2332	OH2331	A	4 ACSR 7/1	7.32Y	122.0	0.01	4.01	0.52	0	4	0	100	0.00	0.0	4.839	0.292	0	0	0	2
OH2333	OH2332	A	4 ACSR 7/1	7.32Y	122.0	0.00	4.01	0.00	0	0	0	100	0.00	0.0	4.925	0.086	0	0	0	1
OH2334	OH2333	A	4 ACSR 7/1	7.32Y	122.0	0.00	4.01	0.00	0	0	0	100	0.00	0.0	4.994	0.070	0	0	0	1
OH2309	OH2334	A	4 ACSR 7/1	7.32Y	122.0	0.00	4.01	0.00	0	0	0	100	0.00	0.0	5.156	0.162	0	0	0	1
000061900001...	OH2309	A	Consumer	7.32Y	122.0	0.00	4.01	0.00	0	0	0	100	0.00	0.0	5.156	0.162	0	0	1	1
000061900001...	OH2334	A	Consumer	7.32Y	122.0	0.00	4.01	0.00	0	0	0	100	0.00	0.0	4.994	0.162	0	0	0	0
000061900001...	OH2333	A	Consumer	7.32Y	122.0	0.00	4.01	0.00	0	0	0	100	0.00	0.0	4.925	0.162	0	0	0	0
000061900001...	OH2332	A	Consumer	7.32Y	122.0	0.00	4.01	0.52	0	4	0	100	0.00	0.0	4.839	0.162	4	0	1	1
000061900001...	OH2331	A	Consumer	7.32Y	122.0	0.00	4.00	2.67	0	19	-2	-99	0.00	0.0	4.547	0.162	19	-2	1	1
000061900001...	OH2318	A	Consumer	7.32Y	122.0	0.00	3.98	0.27	0	2	0	100	0.00	0.0	4.391	0.162	2	0	1	1
000061900001...	OH2318	A	Consumer	7.32Y	122.0	0.00	3.98	1.89	0	14	-1	-100	0.00	0.0	4.391	0.162	14	-1	1	1
OH2305	OH2304	ABC	336 ACSR18	7.32Y	122.0	0.05	4.01	143.56	28	3153	-53	-100	1.38	0.0	4.355	0.081	0	0	0	410
OH2351	OH2305	ABC	336 ACSR18	7.32Y	122.0	0.03	4.04	143.16	28	3143	-55	-100	0.92	0.0	4.410	0.055	0	0	0	408
OH2306	OH2351	ABC	336 ACSR18	7.32Y	121.9	0.04	4.08	142.02	27	3117	-55	-100	0.99	0.0	4.469	0.060	0	0	0	405
OH30281	OH2306	ABC	336 ACSR18	7.31Y	121.9	0.07	4.15	140.17	27	3076	-54	-100	1.78	0.1	4.579	0.110	0	0	0	401
OH2307	OH30281	ABC	336 ACSR18	7.31Y	121.8	0.05	4.19	139.92	27	3068	-57	-100	1.22	0.0	4.655	0.076	0	0	0	400
OH2365	OH2307	B	4 ACSR 7/1	7.30Y	121.6	0.16	4.36	6.92	5	50	-5	-100	0.07	0.1	5.253	0.599	0	0	0	4
OH2367	OH2365	B	4 ACSR 7/1	7.30Y	121.6	0.00	4.36	0.68	0	5	0	100	0.00	0.0	5.346	0.092	0	0	0	1
000061900001...	OH2367	B	Consumer	7.30Y	121.6	0.00	4.36	0.68	0	5	0	100	0.00	0.0	5.346	0.092	5	0	1	1
OH2311	OH2365	B	4 ACSR 7/1	7.30Y	121.6	0.02	4.37	1.98	1	14	-1	-100	0.00	0.0	5.494	0.240	0	0	0	1
000061900001...	OH2311	B	Consumer	7.30Y	121.6	0.00	4.37	1.98	0	14	-1	-100	0.00	0.0	5.494	0.240	14	-1	1	1
000061900001...	OH2365	B	Consumer	7.30Y	121.6	0.00	4.36	1.56	0	11	-1	-100	0.00	0.0	5.253	0.240	11	-1	1	1
000061900001...	OH2365	B	Consumer	7.30Y	121.6	0.00	4.36	0.00	0	0	0	100	0.00	0.0	5.253	0.240	0	0	0	0
000061900001...	OH2365	B	Consumer	7.30Y	121.6	0.00	4.36	2.70	0	20	-2	-100	0.00	0.0	5.253	0.240	20	-2	1	1
OH2314	OH2307	ABC	336 ACSR18	7.30Y	121.7	0.07	4.26	137.62	27	3017	-56	-100	1.78	0.1	4.769	0.114	0	0	0	396
OH2377	OH2314	ABC	336 ACSR18	7.30Y	121.7	0.06	4.33	135.77	26	2975	-56	-100	1.63	0.1	4.876	0.107	0	0	0	393
OH2378	OH2377	ABC	336 ACSR18	7.30Y	121.6	0.05	4.38	134.03	26	2935	-56	-100	1.25	0.0	4.960	0.084	0	0	0	391
OH2379	OH2378	ABC	336 ACSR18	7.29Y	121.6	0.05	4.43	132.22	25	2894	-56	-100	1.37	0.0	5.055	0.095	0	0	0	387
OH2387	OH2379	C	4 ACSR 7/1	7.29Y	121.6	0.00	4.43	0.00	0	0	0	100	0.00	0.0	5.157	0.102	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													-----Element-----							
		-Base Voltage:120.0-													mi		Length		Cons		Cons	
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	(mi)	KW	KVAR	On	Thru		
000061900001...	OH2387	C	Consumer	7.29Y	121.6	0.00	4.43	0.00	0	0	0	100	0.00	0.0	5.157	0.102	0	0	0	0		
000061900001...	OH2387	C	Consumer	7.29Y	121.6	0.00	4.43	0.00	0	0	0	100	0.00	0.0	5.157	0.102	0	0	0	0		
OH2308	OH2379	ABC	336 ACSR18	7.29Y	121.5	0.04	4.47	131.65	25	2880	-58	-100	0.99	0.0	5.124	0.069	0	0	0	386		
OH2435	OH2308	C	4 ACSR 7/1	7.29Y	121.5	0.00	4.47	1.07	1	8	-1	-99	0.00	0.0	5.183	0.059	0	0	0	3		
OH2415	OH2435	C	4 ACSR 7/1	7.29Y	121.5	0.00	4.47	0.54	0	4	0	100	0.00	0.0	5.324	0.141	0	0	0	1		
000061900001...	OH2415	C	Consumer	7.29Y	121.5	0.00	4.47	0.00	0	0	0	100	0.00	0.0	5.324	0.141	0	0	0	0		
000061900001...	OH2415	C	Consumer	7.29Y	121.5	0.00	4.47	0.54	0	4	0	100	0.00	0.0	5.324	0.141	4	0	1	1		
000061900001...	OH2435	C	Consumer	7.29Y	121.5	0.00	4.47	0.09	0	1	0	100	0.00	0.0	5.183	0.141	1	0	1	1		
000061900001...	OH2435	C	Consumer	7.29Y	121.5	0.00	4.47	0.00	0	0	0	100	0.00	0.0	5.183	0.141	0	0	0	0		
000061900001...	OH2435	C	Consumer	7.29Y	121.5	0.00	4.47	0.44	0	3	0	100	0.00	0.0	5.183	0.141	3	0	1	1		
000061900001...	OH2435	C	Consumer	7.29Y	121.5	0.00	4.47	0.00	0	0	0	100	0.00	0.0	5.183	0.141	0	0	0	0		
000061900001...	OH2435	C	Consumer	7.29Y	121.5	0.00	4.47	0.00	0	0	0	100	0.00	0.0	5.183	0.141	0	0	0	0		
OH2389	OH2308	ABC	336 ACSR18	7.29Y	121.5	0.06	4.53	124.92	24	2732	-47	-100	1.51	0.1	5.242	0.118	0	0	0	364		
OH2390	OH2389	ABC	336 ACSR18	7.28Y	121.4	0.07	4.61	124.92	24	2731	-50	-100	1.72	0.1	5.376	0.134	0	0	0	364		
OH2391	OH2390	ABC	336 ACSR18	7.27Y	121.2	0.20	4.80	124.92	24	2729	-54	-100	4.68	0.2	5.739	0.364	0	0	0	364		
OH2567	OH2391	ABC	336 ACSR18	7.27Y	121.2	0.04	4.85	123.87	24	2701	-63	-100	0.99	0.0	5.818	0.079	0	0	0	362		
OH2568	OH2567	ABC	336 ACSR18	7.27Y	121.1	0.06	4.91	123.70	24	2697	-66	-100	1.48	0.1	5.935	0.117	0	0	0	361		
OH2594	OH2568	B	4 ACSR 7/1	7.27Y	121.1	0.01	4.92	2.72	2	20	-2	-100	0.00	0.0	6.008	0.073	0	0	0	1		
000061330509...	OH2594	B	Consumer	7.27Y	121.1	0.00	4.92	2.72	0	20	-2	-100	0.00	0.0	6.008	0.073	20	-2	1	1		
OH2584	OH2568	ABC	336 ACSR18	7.26Y	121.0	0.09	5.00	122.80	24	2676	-67	-100	2.12	0.1	6.106	0.171	0	0	0	360		
OH2595	OH2584	A	4 ACSR 7/1	7.26Y	121.0	0.00	5.00	0.42	0	3	0	100	0.00	0.0	6.288	0.182	0	0	0	1		
000061330509...	OH2595	A	Consumer	7.26Y	121.0	0.00	5.00	0.42	0	3	0	100	0.00	0.0	6.288	0.182	3	0	1	1		
OH2585	OH2584	ABC	336 ACSR18	7.26Y	121.0	0.02	5.02	122.65	24	2670	-72	-100	0.50	0.0	6.146	0.040	0	0	0	359		
OH2596	OH2585	B	4 ACSR 7/1	7.26Y	121.0	0.01	5.03	0.97	1	6	3	89	0.00	0.0	6.290	0.144	0	0	0	1		
000061330509...	OH2596	B	Consumer	7.26Y	121.0	0.00	5.03	0.97	0	6	3	89	0.00	0.0	6.290	0.144	6	3	1	1		
000061330509...	OH2596	B	Consumer	7.26Y	121.0	0.00	5.03	0.00	0	0	0	100	0.00	0.0	6.290	0.144	0	0	0	0		
OH2560	OH2585	ABC	336 ACSR18	7.25Y	120.9	0.08	5.10	122.37	24	2664	-76	-100	1.81	0.1	6.293	0.147	0	0	0	358		
OH2813	OH2560	ABC	4 ACSR 7/1	7.24Y	120.7	0.22	5.32	19.20	14	418	-6	-100	0.78	0.2	6.608	0.315	0	0	0	61		
OH2814	OH2813	ABC	4 ACSR 7/1	7.23Y	120.5	0.14	5.46	19.18	14	417	-7	-100	0.48	0.1	6.802	0.194	0	0	0	60		
OH2817	OH2814	B	4 ACSR 7/1	7.23Y	120.5	0.01	5.47	2.58	2	17	8	90	0.00	0.0	6.923	0.121	0	0	0	1		
000061330508...	OH2817	B	Consumer	7.23Y	120.5	0.00	5.47	2.58	0	17	8	90	0.00	0.0	6.923	0.121	17	8	1	1		
OH2815	OH2814	ABC	4 ACSR 7/1	7.23Y	120.5	0.04	5.49	18.41	13	399	-15	-100	0.12	0.0	6.854	0.052	0	0	0	59		
OH2820	OH2815	ABC	4 ACSR 7/1	7.23Y	120.5	0.04	5.53	17.99	13	390	-14	-100	0.12	0.0	6.910	0.056	0	0	0	56		
OH2565	OH2820	ABC	4 ACSR 7/1	7.23Y	120.4	0.02	5.56	17.36	12	376	-13	-100	0.08	0.0	6.948	0.038	0	0	0	54		
OH2821	OH2565	ABC	4 ACSR 7/1	7.22Y	120.4	0.06	5.62	17.36	12	376	-13	-100	0.19	0.1	7.044	0.096	0	0	0	54		
OH2839	OH2821	A	4 ACSR 7/1	7.22Y	120.4	0.00	5.62	0.00	0	0	0	100	0.00	0.0	7.150	0.106	0	0	0	0		
000061330508...	OH2839	A	Consumer	7.22Y	120.4	0.00	5.62	0.00	0	0	0	100	0.00	0.0	7.150	0.106	0	0	0	0		

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts														-----Element-----					
		-Base Voltage:120.0-														mi				Cons Cons	
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	
OH2822	OH2821	ABC	4 ACSR 7/1	7.22Y	120.3	0.04	5.65	17.36	12	376	-13	-100	0.12	0.0	7.103	0.059	0	0	0	54	
OH2840	OH2822	A	4 ACSR 7/1	7.22Y	120.3	0.00	5.65	0.00	0	0	0	100	0.00	0.0	7.187	0.084	0	0	0	0	
000061330508...	OH2840	A	Consumer	7.22Y	120.3	0.00	5.65	0.00	0	0	0	100	0.00	0.0	7.187	0.084	0	0	0	0	
OH2823	OH2822	ABC	4 ACSR 7/1	7.22Y	120.3	0.02	5.67	17.36	12	376	-13	-100	0.06	0.0	7.131	0.028	0	0	0	54	
OH2841	OH2823	B	4 ACSR 7/1	7.22Y	120.3	0.00	5.68	1.14	1	8	-1	-99	0.00	0.0	7.223	0.092	0	0	0	1	
OH2842	OH2841	B	4 ACSR 7/1	7.22Y	120.3	0.00	5.68	0.00	0	0	0	100	0.00	0.0	7.256	0.033	0	0	0	0	
000061330508...	OH2842	B	Consumer	7.22Y	120.3	0.00	5.68	0.00	0	0	0	100	0.00	0.0	7.256	0.033	0	0	0	0	
000061330508...	OH2841	B	Consumer	7.22Y	120.3	0.00	5.68	1.14	0	8	-1	-99	0.00	0.0	7.223	0.033	8	-1	1	1	
000061330508...	OH2841	B	Consumer	7.22Y	120.3	0.00	5.68	0.00	0	0	0	100	0.00	0.0	7.223	0.033	0	0	0	0	
OH2824	OH2823	ABC	4 ACSR 7/1	7.22Y	120.3	0.05	5.72	16.98	12	368	-12	-100	0.15	0.0	7.209	0.078	0	0	0	53	
OH30241	OH2824	C	4 ACSR 7/1	7.21Y	120.1	0.14	5.86	18.83	13	136	-10	-100	0.17	0.1	7.398	0.188	0	0	0	15	
OH30244	OH30241	C	4 ACSR 7/1	7.21Y	120.1	0.00	5.86	0.04	0	0	0	100	0.00	0.0	7.452	0.054	0	0	0	1	
000061330508...	OH30244	C	Consumer	7.21Y	120.1	0.00	5.86	0.04	0	0	0	100	0.00	0.0	7.452	0.054	0	0	1	1	
OH2846	OH30241	C	4 ACSR 7/1	7.20Y	120.0	0.14	6.00	18.78	13	135	-10	-100	0.17	0.1	7.590	0.192	0	0	0	14	
OH2875	OH2846	C	4 ACSR 7/1	7.20Y	120.0	0.03	6.03	15.97	11	115	-8	-100	0.03	0.0	7.639	0.049	0	0	0	11	
OH2883	OH2875	C	4 ACSR 7/1	7.20Y	119.9	0.02	6.05	12.83	9	92	-6	-100	0.01	0.0	7.672	0.033	0	0	0	9	
OH2871	OH2883	C	4 ACSR 7/1	7.19Y	119.9	0.03	6.08	12.83	9	92	-6	-100	0.03	0.0	7.735	0.063	0	0	0	9	
OH29388	OH2871	C	4 ACSR 7/1	7.18Y	119.7	0.20	6.28	12.83	9	92	-6	-100	0.16	0.2	8.127	0.392	0	0	0	9	
OH2886	OH29388	C	4 ACSR 7/1	7.18Y	119.7	0.03	6.31	11.10	8	80	-5	-100	0.02	0.0	8.195	0.068	0	0	0	7	
OH2887	OH2886	C	4 ACSR 7/1	7.18Y	119.6	0.05	6.36	11.10	8	80	-5	-100	0.03	0.0	8.307	0.111	0	0	0	7	
OH2903	OH2887	C	4 ACSR 7/1	7.18Y	119.6	0.00	6.36	0.00	0	0	0	100	0.00	0.0	8.390	0.083	0	0	0	0	
000061330408...	OH2903	C	Consumer	7.18Y	119.6	0.00	6.36	0.00	0	0	0	100	0.00	0.0	8.390	0.083	0	0	0	0	
OH2888	OH2887	C	4 ACSR 7/1	7.18Y	119.6	0.04	6.41	11.10	8	80	-5	-100	0.03	0.0	8.408	0.101	0	0	0	7	
OH30216	OH2888	C	4 ACSR 7/1	7.17Y	119.6	0.02	6.43	3.88	3	28	-3	-99	0.01	0.0	8.549	0.141	0	0	0	2	
OH30217	OH30216	C	4 ACSR 7/1	7.17Y	119.6	0.01	6.44	3.88	3	28	-3	-99	0.00	0.0	8.623	0.074	0	0	0	2	
000061330408...	OH30217	C	Consumer	7.17Y	119.6	0.00	6.44	2.47	0	18	-2	-99	0.00	0.0	8.623	0.074	18	-2	1	1	
000061330408...	OH30217	C	Consumer	7.17Y	119.6	0.00	6.44	1.41	0	10	-1	-100	0.00	0.0	8.623	0.074	10	-1	1	1	
OH2904	OH30216	C	4 ACSR 7/1	7.17Y	119.6	0.00	6.43	0.00	0	0	0	100	0.00	0.0	8.772	0.223	0	0	0	0	
OH2906	OH2904	C	4 ACSR 7/1	7.17Y	119.6	0.00	6.43	0.00	0	0	0	100	0.00	0.0	8.919	0.147	0	0	0	0	
000061330408...	OH2906	C	Consumer	7.17Y	119.6	0.00	6.43	0.00	0	0	0	100	0.00	0.0	8.919	0.147	0	0	0	0	
OH2905	OH2904	C	4 ACSR 7/1	7.17Y	119.6	0.00	6.43	0.00	0	0	0	100	0.00	0.0	8.942	0.170	0	0	0	0	
000061330408...	OH2905	C	Consumer	7.17Y	119.6	0.00	6.43	0.00	0	0	0	100	0.00	0.0	8.942	0.170	0	0	0	0	
000061330408...	OH2904	C	Consumer	7.17Y	119.6	0.00	6.43	0.00	0	0	0	100	0.00	0.0	8.772	0.170	0	0	0	0	
OH2889	OH2888	C	4 ACSR 7/1	7.17Y	119.5	0.05	6.45	7.22	5	52	-3	-100	0.02	0.0	8.563	0.156	0	0	0	5	
OH2890	OH2889	C	4 ACSR 7/1	7.17Y	119.5	0.03	6.48	7.22	5	52	-3	-100	0.01	0.0	8.657	0.094	0	0	0	5	
OH2891	OH2890	C	4 ACSR 7/1	7.17Y	119.5	0.03	6.51	7.22	5	52	-3	-100	0.01	0.0	8.752	0.095	0	0	0	5	
OH2892	OH2891	C	4 ACSR 7/1	7.17Y	119.5	0.02	6.52	4.44	3	32	-1	-100	0.00	0.0	8.849	0.097	0	0	0	4	

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts														-----Element-----					
		-Base Voltage:120.0-														mi				Cons Cons	
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	On	Thru	
OH2902	OH2892	C	4 ACSR 7/1	7.17Y	119.5	0.00	6.52	0.00	0	0	0	100	0.00	0.0	8.897	0.047	0	0	0	0	
000061330408...	OH2902	C	Consumer	7.17Y	119.5	0.00	6.52	0.00	0	0	0	100	0.00	0.0	8.897	0.047	0	0	0	0	
OH2893	OH2892	C	4 ACSR 7/1	7.17Y	119.4	0.04	6.56	4.44	3	32	-1	-100	0.01	0.0	9.067	0.218	0	0	0	4	
OH2897	OH2893	C	4 ACSR 7/1	7.17Y	119.4	0.00	6.56	0.57	0	4	2	89	0.00	0.0	9.099	0.032	0	0	0	1	
000061330408...	OH2897	C	Consumer	7.17Y	119.4	0.00	6.56	0.57	0	4	2	89	0.00	0.0	9.099	0.032	4	2	1	1	
OH2847	OH2893	C	4 ACSR 7/1	7.16Y	119.3	0.10	6.66	3.95	3	28	-3	-99	0.03	0.1	9.723	0.656	0	0	0	3	
OH30213	OH2847	C	4 ACSR 7/1	7.16Y	119.3	0.01	6.67	3.02	2	22	-2	-100	0.00	0.0	9.790	0.067	0	0	0	1	
000061330409...	OH30213	C	Consumer	7.16Y	119.3	0.00	6.67	3.02	0	22	-2	-100	0.00	0.0	9.790	0.067	22	-2	1	1	
000061330409...	OH2847	C	Consumer	7.16Y	119.3	0.00	6.66	0.07	0	1	0	100	0.00	0.0	9.723	0.067	1	0	1	1	
000061330409...	OH2847	C	Consumer	7.16Y	119.3	0.00	6.66	0.85	0	6	-1	-99	0.00	0.0	9.723	0.067	6	-1	1	1	
000061330408...	OH2893	C	Consumer	7.17Y	119.4	0.00	6.56	0.00	0	0	0	100	0.00	0.0	9.067	0.067	0	0	0	0	
000061330408...	OH2891	C	Consumer	7.17Y	119.5	0.00	6.51	2.78	0	20	-2	-100	0.00	0.0	8.752	0.067	20	-2	1	1	
000061330408...	OH2890	C	Consumer	7.17Y	119.5	0.00	6.48	0.00	0	0	0	100	0.00	0.0	8.657	0.067	0	0	0	0	
000061330408...	OH2889	C	Consumer	7.17Y	119.5	0.00	6.45	0.00	0	0	0	100	0.00	0.0	8.563	0.067	0	0	0	0	
000061330408...	OH2886	C	Consumer	7.18Y	119.7	0.00	6.31	0.00	0	0	0	100	0.00	0.0	8.195	0.067	0	0	0	0	
000061330408...	OH29388	C	Consumer	7.18Y	119.7	0.00	6.28	0.18	0	1	0	100	0.00	0.0	8.127	0.067	1	0	1	1	
000061330408...	OH29388	C	Consumer	7.18Y	119.7	0.00	6.28	1.55	0	11	-1	-100	0.00	0.0	8.127	0.067	11	-1	1	1	
000061330508...	OH2871	C	Consumer	7.19Y	119.9	0.00	6.08	0.00	0	0	0	100	0.00	0.0	7.735	0.067	0	0	0	0	
000061330508...	OH2883	C	Consumer	7.20Y	119.9	0.00	6.05	0.00	0	0	0	100	0.00	0.0	7.672	0.067	0	0	0	0	
OH2878	OH2875	C	4 ACSR 7/1	7.20Y	120.0	0.00	6.04	3.14	2	23	-2	-100	0.00	0.0	7.678	0.039	0	0	0	2	
000061330508...	OH2878	C	Consumer	7.20Y	120.0	0.00	6.04	1.92	0	14	-1	-100	0.00	0.0	7.678	0.039	14	-1	1	1	
000061330508...	OH2878	C	Consumer	7.20Y	120.0	0.00	6.04	1.22	0	9	-1	-99	0.00	0.0	7.678	0.039	9	-1	1	1	
OH2844	OH2846	C	4 ACSR 7/1	7.20Y	120.0	0.01	6.01	2.53	2	18	-2	-99	0.00	0.0	7.689	0.098	0	0	0	2	
000061330508...	OH2844	C	Consumer	7.20Y	120.0	0.00	6.01	2.46	0	18	-2	-99	0.00	0.0	7.689	0.098	18	-2	1	1	
000061330508...	OH2844	C	Consumer	7.20Y	120.0	0.00	6.01	0.08	0	1	0	100	0.00	0.0	7.689	0.098	1	0	1	1	
000061330508...	OH2844	C	Consumer	7.20Y	120.0	0.00	6.01	0.00	0	0	0	100	0.00	0.0	7.689	0.098	0	0	0	0	
000061330508...	OH2846	C	Consumer	7.20Y	120.0	0.00	6.00	0.28	0	2	0	100	0.00	0.0	7.590	0.098	2	0	1	1	
000061330508...	OH2846	C	Consumer	7.20Y	120.0	0.00	6.00	0.00	0	0	0	100	0.00	0.0	7.590	0.098	0	0	0	0	
OH2957	OH2824	ABC	4 ACSR 7/1	7.21Y	120.2	0.03	5.75	10.71	8	232	-2	-100	0.06	0.0	7.284	0.074	0	0	0	38	
OH2827	OH2957	C	4 ACSR 7/1	7.21Y	120.1	0.13	5.88	28.28	20	203	-16	-100	0.24	0.1	7.404	0.120	0	0	0	37	
OH2829	OH2827	C	4 ACSR 7/1	7.21Y	120.1	0.00	5.88	0.00	0	0	0	100	0.00	0.0	7.557	0.154	0	0	0	0	
000061330508...	OH2829	C	Consumer	7.21Y	120.1	0.00	5.88	0.00	0	0	0	100	0.00	0.0	7.557	0.154	0	0	0	0	
OH2826	OH2827	C	4 ACSR 7/1	7.19Y	119.9	0.25	6.14	28.28	20	203	-16	-100	0.45	0.2	7.631	0.227	0	0	0	37	
OH2830	OH2826	C	4 ACSR 7/1	7.18Y	119.6	0.25	6.39	28.28	20	203	-17	-100	0.46	0.2	7.860	0.229	0	0	0	36	
OH2831	OH2830	C	4 ACSR 7/1	7.16Y	119.3	0.26	6.65	27.12	19	194	-16	-100	0.45	0.2	8.106	0.246	0	0	0	34	
OH2832	OH2831	C	4 ACSR 7/1	7.16Y	119.3	0.05	6.70	27.12	19	194	-16	-100	0.08	0.0	8.151	0.045	0	0	0	34	
OH2746	OH2832	C	4 ACSR 7/1	7.16Y	119.3	0.02	6.72	21.76	16	155	-13	-100	0.03	0.0	8.173	0.022	0	0	0	30	

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts														-----Element-----				
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OH2833	OH2746	C	4 ACSR 7/1	7.16Y	119.3	0.03	6.75	18.02	13	129	-10	-100	0.03	0.0	8.216	0.043	0	0	0	27
OH2901	OH2833	C	4 ACSR 7/1	7.15Y	119.2	0.01	6.76	12.55	9	90	-7	-100	0.01	0.0	8.242	0.025	0	0	0	20
OH2967	OH2901	C	4 ACSR 7/1	7.15Y	119.2	0.00	6.77	12.55	9	90	-7	-100	0.00	0.0	8.251	0.009	0	0	0	20
OH2969	OH2967	C	4 ACSR 7/1	7.15Y	119.2	0.00	6.77	0.00	0	0	0	100	0.00	0.0	8.301	0.050	0	0	0	0
000061330207...	OH2969	C	Consumer	7.15Y	119.2	0.00	6.77	0.00	0	0	0	100	0.00	0.0	8.301	0.050	0	0	0	0
OH2962	OH2967	C	4 ACSR 7/1	7.15Y	119.2	0.00	6.77	12.55	9	90	-7	-100	0.00	0.0	8.260	0.009	0	0	0	20
OH2963	OH2962	C	4 ACSR 7/1	7.15Y	119.2	0.00	6.77	0.37	0	2	1	89	0.00	0.0	8.284	0.024	0	0	0	1
000061330207...	OH2963	C	Consumer	7.15Y	119.2	0.00	6.77	0.37	0	2	1	89	0.00	0.0	8.284	0.024	2	1	1	1
OH2914	OH2962	C	4 ACSR 7/1	7.15Y	119.2	0.03	6.81	12.23	9	87	-8	-100	0.03	0.0	8.333	0.073	0	0	0	19
OH2974	OH2914	C	4 ACSR 7/1	7.15Y	119.2	0.00	6.81	0.00	0	0	0	100	0.00	0.0	8.391	0.058	0	0	0	0
000061330207...	OH2974	C	Consumer	7.15Y	119.2	0.00	6.81	0.00	0	0	0	100	0.00	0.0	8.391	0.058	0	0	0	0
OH2913	OH2914	C	4 ACSR 7/1	7.15Y	119.1	0.05	6.86	12.23	9	87	-8	-100	0.04	0.0	8.445	0.112	0	0	0	19
OH2990	OH2913	C	4 ACSR 7/1	7.15Y	119.1	0.01	6.87	4.26	3	30	-3	-100	0.00	0.0	8.503	0.058	0	0	0	7
OH3000	OH2990	C	4 ACSR 7/1	7.15Y	119.1	0.00	6.87	0.47	0	3	0	100	0.00	0.0	8.556	0.053	0	0	0	1
000061330207...	OH3000	C	Consumer	7.15Y	119.1	0.00	6.87	0.47	0	3	0	100	0.00	0.0	8.556	0.053	3	0	1	1
OH2991	OH2990	C	4 ACSR 7/1	7.15Y	119.1	0.00	6.87	3.79	3	27	-2	-100	0.00	0.0	8.516	0.013	0	0	0	6
OH2992	OH2991	C	4 ACSR 7/1	7.15Y	119.1	0.01	6.88	2.77	2	20	-2	-100	0.00	0.0	8.574	0.058	0	0	0	5
OH2993	OH2992	C	4 ACSR 7/1	7.15Y	119.1	0.01	6.88	1.50	1	11	-1	-100	0.00	0.0	8.661	0.087	0	0	0	3
OH3011	OH2993	C	4 ACSR 7/1	7.15Y	119.1	0.01	6.89	0.31	0	2	0	100	0.00	0.0	9.204	0.544	0	0	0	1
000061330206...	OH3011	C	Consumer	7.15Y	119.1	0.00	6.89	0.31	0	2	0	100	0.00	0.0	9.204	0.544	2	0	1	1
OH2996	OH2993	C	4 ACSR 7/1	7.15Y	119.1	0.00	6.88	0.06	0	0	0	100	0.00	0.0	8.729	0.068	0	0	0	1
000061330207...	OH2996	C	Consumer	7.15Y	119.1	0.00	6.88	0.06	0	0	0	100	0.00	0.0	8.729	0.068	0	0	1	1
OH2557	OH2993	C	4 ACSR 7/1	7.15Y	119.1	0.00	6.89	1.12	1	8	-1	-99	0.00	0.0	8.750	0.090	0	0	0	1
000061330207...	OH2557	C	Consumer	7.15Y	119.1	0.00	6.89	1.12	0	8	-1	-99	0.00	0.0	8.750	0.090	8	-1	1	1
000061330207...	OH2993	C	Consumer	7.15Y	119.1	0.00	6.88	0.00	0	0	0	100	0.00	0.0	8.661	0.090	0	0	0	0
000061330207...	OH2992	C	Consumer	7.15Y	119.1	0.00	6.88	0.75	0	5	0	100	0.00	0.0	8.574	0.090	5	0	1	1
000061330207...	OH2992	C	Consumer	7.15Y	119.1	0.00	6.88	0.00	0	0	0	100	0.00	0.0	8.574	0.090	0	0	0	0
000061330207...	OH2992	C	Consumer	7.15Y	119.1	0.00	6.88	0.52	0	4	0	100	0.00	0.0	8.574	0.090	4	0	1	1
000061330207...	OH2991	C	Consumer	7.15Y	119.1	0.00	6.87	1.02	0	7	-1	-99	0.00	0.0	8.516	0.090	7	-1	1	1
OH2977	OH2913	C	4 ACSR 7/1	7.15Y	119.1	0.02	6.88	7.97	6	57	-5	-100	0.01	0.0	8.512	0.067	0	0	0	12
OH2984	OH2977	C	4 ACSR 7/1	7.15Y	119.1	0.01	6.89	6.81	5	48	-4	-100	0.00	0.0	8.532	0.019	0	0	0	11
OH2915	OH2984	C	4 ACSR 7/1	7.15Y	119.1	0.00	6.89	5.29	4	38	-3	-100	0.00	0.0	8.552	0.020	0	0	0	10
OH2917	OH2915	C	4 ACSR 7/1	7.15Y	119.1	0.02	6.91	5.29	4	38	-3	-100	0.01	0.0	8.628	0.076	0	0	0	10
OH2918	OH2917	C	4 ACSR 7/1	7.14Y	119.1	0.02	6.93	5.29	4	38	-3	-100	0.01	0.0	8.731	0.103	0	0	0	10
OH2925	OH2918	C	4 ACSR 7/1	7.14Y	119.1	0.00	6.93	0.63	0	5	0	100	0.00	0.0	8.814	0.083	0	0	0	3
OH2926	OH2925	C	4 ACSR 7/1	7.14Y	119.1	0.00	6.93	0.36	0	3	0	100	0.00	0.0	8.853	0.039	0	0	0	2
000061330407...	OH2926	C	Consumer	7.14Y	119.1	0.00	6.93	0.00	0	0	0	100	0.00	0.0	8.853	0.039	0	0	1	1

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts											mi		-----Element-----					
		-Base Voltage:120.0-											From	Length			Cons	Cons		
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	Src	(mi)	KW	KVAR	On	Thru
000061330407...	OH2926	C	Consumer	7.14Y	119.1	0.00	6.93	0.36	0	3	0	100	0.00	0.0	8.853	0.039	3	0	1	1
000061330407...	OH2925	C	Consumer	7.14Y	119.1	0.00	6.93	0.27	0	2	0	100	0.00	0.0	8.814	0.039	2	0	1	1
OH2919	OH2918	C	4 ACSR 7/1	7.14Y	119.1	0.02	6.95	4.66	3	33	-3	-100	0.01	0.0	8.840	0.109	0	0	0	7
OH2920	OH2919	C	4 ACSR 7/1	7.14Y	119.0	0.01	6.95	3.29	2	23	-2	-100	0.00	0.0	8.891	0.051	0	0	0	6
OH2921	OH2920	C	4 ACSR 7/1	7.14Y	119.0	0.02	6.98	2.34	2	17	-2	-99	0.00	0.0	9.157	0.266	0	0	0	5
OH2922	OH2921	C	4 ACSR 7/1	7.14Y	119.0	0.00	6.98	1.01	1	7	-1	-99	0.00	0.0	9.176	0.019	0	0	0	3
OH2939	OH2922	C	4 ACSR 7/1	7.14Y	119.0	0.00	6.98	1.01	1	7	-1	-99	0.00	0.0	9.213	0.038	0	0	0	2
OH2940	OH2939	C	4 ACSR 7/1	7.14Y	119.0	0.01	6.99	0.85	1	6	-1	-99	0.00	0.0	9.597	0.384	0	0	0	1
000061330408...	OH2940	C	Consumer	7.14Y	119.0	0.00	6.99	0.85	0	6	-1	-99	0.00	0.0	9.597	0.384	6	-1	1	1
OH2923	OH2939	C	4 ACSR 7/1	7.14Y	119.0	0.00	6.98	0.16	0	1	0	100	0.00	0.0	9.263	0.049	0	0	0	1
OH2916	OH2923	C	4 ACSR 7/1	7.14Y	119.0	0.00	6.98	0.00	0	0	0	100	0.00	0.0	9.351	0.089	0	0	0	0
000061330408...	OH2916	C	Consumer	7.14Y	119.0	0.00	6.98	0.00	0	0	0	100	0.00	0.0	9.351	0.089	0	0	0	0
000061330407...	OH2923	C	Consumer	7.14Y	119.0	0.00	6.98	0.16	0	1	0	100	0.00	0.0	9.263	0.089	1	0	1	1
OH2924	OH2922	C	4 ACSR 7/1	7.14Y	119.0	0.00	6.98	0.00	0	0	0	100	0.00	0.0	9.221	0.045	0	0	0	1
000061330407...	OH2924	C	Consumer	7.14Y	119.0	0.00	6.98	0.00	0	0	0	100	0.00	0.0	9.221	0.045	0	0	0	0
000061330407...	OH2924	C	Consumer	7.14Y	119.0	0.00	6.98	0.00	0	0	0	100	0.00	0.0	9.221	0.045	0	0	1	1
000061330407...	OH2921	C	Consumer	7.14Y	119.0	0.00	6.98	1.04	0	7	-1	-99	0.00	0.0	9.157	0.045	7	-1	1	1
000061330407...	OH2921	C	Consumer	7.14Y	119.0	0.00	6.98	0.29	0	2	0	100	0.00	0.0	9.157	0.045	2	0	1	1
000061330407...	OH2920	C	Consumer	7.14Y	119.0	0.00	6.95	0.95	0	7	-1	-99	0.00	0.0	8.891	0.045	7	-1	1	1
000061330407...	OH2919	C	Consumer	7.14Y	119.1	0.00	6.95	1.37	0	10	-1	-100	0.00	0.0	8.840	0.045	10	-1	1	1
000061330407...	OH2919	C	Consumer	7.14Y	119.1	0.00	6.95	0.00	0	0	0	100	0.00	0.0	8.840	0.045	0	0	0	0
000061330407...	OH2919	C	Consumer	7.14Y	119.1	0.00	6.95	0.00	0	0	0	100	0.00	0.0	8.840	0.045	0	0	0	0
000061330407...	OH2917	C	Consumer	7.15Y	119.1	0.00	6.91	0.00	0	0	0	100	0.00	0.0	8.628	0.045	0	0	0	0
000061330407...	OH2915	C	Consumer	7.15Y	119.1	0.00	6.89	0.00	0	0	0	100	0.00	0.0	8.552	0.045	0	0	0	0
000061330407...	OH2915	C	Consumer	7.15Y	119.1	0.00	6.89	0.00	0	0	0	100	0.00	0.0	8.552	0.045	0	0	0	0
000061330207...	OH2984	C	Consumer	7.15Y	119.1	0.00	6.89	1.52	0	11	-1	-100	0.00	0.0	8.532	0.045	11	-1	1	1
OH2978	OH2977	C	4 ACSR 7/1	7.15Y	119.1	0.00	6.88	0.00	0	0	0	100	0.00	0.0	8.564	0.052	0	0	0	0
000061330207...	OH2978	C	Consumer	7.15Y	119.1	0.00	6.88	0.00	0	0	0	100	0.00	0.0	8.564	0.052	0	0	0	0
000061330207...	OH2977	C	Consumer	7.15Y	119.1	0.00	6.88	0.00	0	0	0	100	0.00	0.0	8.512	0.052	0	0	0	0
000061330207...	OH2977	C	Consumer	7.15Y	119.1	0.00	6.88	1.16	0	8	-1	-99	0.00	0.0	8.512	0.052	8	-1	1	1
000061330207...	OH2977	C	Consumer	7.15Y	119.1	0.00	6.88	0.00	0	0	0	100	0.00	0.0	8.512	0.052	0	0	0	0
000061330207...	OH2977	C	Consumer	7.15Y	119.1	0.00	6.88	0.00	0	0	0	100	0.00	0.0	8.512	0.052	0	0	0	0
000061330207...	OH2977	C	Consumer	7.15Y	119.1	0.00	6.88	0.00	0	0	0	100	0.00	0.0	8.512	0.052	0	0	0	0
000061330207...	OH2914	C	Consumer	7.15Y	119.2	0.00	6.81	0.00	0	0	0	100	0.00	0.0	8.333	0.052	0	0	0	0
000061330207...	OH2967	C	Consumer	7.15Y	119.2	0.00	6.77	0.00	0	0	0	100	0.00	0.0	8.251	0.052	0	0	0	0
OH2907	OH2901	C	4 ACSR 7/1	7.15Y	119.2	0.00	6.76	0.00	0	0	0	100	0.00	0.0	8.530	0.288	0	0	0	0
OH2908	OH2907	C	4 ACSR 7/1	7.15Y	119.2	0.00	6.76	0.00	0	0	0	100	0.00	0.0	8.599	0.070	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts														-----Element-----					
		-Base Voltage:120.0-														mi				Cons Cons	
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	On	Thru	
000061330407...	OH2908	C	Consumer	7.15Y	119.2	0.00	6.76	0.00	0	0	0	100	0.00	0.0	8.599	0.070	0	0	0	0	
000061330407...	OH2907	C	Consumer	7.15Y	119.2	0.00	6.76	0.00	0	0	0	100	0.00	0.0	8.530	0.070	0	0	0	0	
000061330207...	OH2901	C	Consumer	7.15Y	119.2	0.00	6.76	0.00	0	0	0	100	0.00	0.0	8.242	0.070	0	0	0	0	
OH2834	OH2833	C	4 ACSR 7/1	7.15Y	119.2	0.01	6.76	5.46	4	39	-4	-99	0.00	0.0	8.266	0.050	0	0	0	7	
OH2835	OH2834	C	4 ACSR 7/1	7.15Y	119.2	0.01	6.77	4.94	4	35	-3	-100	0.00	0.0	8.302	0.036	0	0	0	6	
OH2836	OH2835	C	4 ACSR 7/1	7.15Y	119.2	0.01	6.78	2.78	2	20	-2	-100	0.00	0.0	8.388	0.086	0	0	0	3	
OH2838	OH2836	C	4 ACSR 7/1	7.15Y	119.2	0.00	6.78	1.33	1	9	-1	-99	0.00	0.0	8.417	0.028	0	0	0	2	
OH2843	OH2838	C	4 ACSR 7/1	7.15Y	119.2	0.00	6.78	0.75	1	5	0	100	0.00	0.0	8.501	0.084	0	0	0	1	
000061330507...	OH2843	C	Consumer	7.15Y	119.2	0.00	6.78	0.75	0	5	0	100	0.00	0.0	8.501	0.084	5	0	1	1	
000061330507...	OH2838	C	Consumer	7.15Y	119.2	0.00	6.78	0.58	0	4	0	100	0.00	0.0	8.417	0.084	4	0	1	1	
OH2837	OH2836	C	4 ACSR 7/1	7.15Y	119.2	0.00	6.78	0.00	0	0	0	100	0.00	0.0	8.453	0.065	0	0	0	0	
000061330507...	OH2837	C	Consumer	7.15Y	119.2	0.00	6.78	0.00	0	0	0	100	0.00	0.0	8.453	0.065	0	0	0	0	
000061330507...	OH2836	C	Consumer	7.15Y	119.2	0.00	6.78	1.46	0	10	-1	-100	0.00	0.0	8.388	0.065	10	-1	1	1	
000061330507...	OH2836	C	Consumer	7.15Y	119.2	0.00	6.78	1.46	0	10	-1	-100	0.00	0.0	8.388	0.065	10	-1	1	1	
000061330507...	OH2835	C	Consumer	7.15Y	119.2	0.00	6.77	0.03	0	0	0	100	0.00	0.0	8.302	0.065	0	0	1	1	
000061330507...	OH2835	C	Consumer	7.15Y	119.2	0.00	6.77	0.58	0	4	0	100	0.00	0.0	8.302	0.065	4	0	1	1	
000061330507...	OH2835	C	Consumer	7.15Y	119.2	0.00	6.77	1.55	0	11	-1	-100	0.00	0.0	8.302	0.065	11	-1	1	1	
OH2825	OH2834	C	4 ACSR 7/1	7.15Y	119.2	0.00	6.76	0.52	0	4	0	100	0.00	0.0	8.343	0.077	0	0	0	1	
OH2845	OH2825	C	4 ACSR 7/1	7.15Y	119.2	0.00	6.76	0.00	0	0	0	100	0.00	0.0	8.410	0.067	0	0	0	0	
000061330507...	OH2845	C	Consumer	7.15Y	119.2	0.00	6.76	0.00	0	0	0	100	0.00	0.0	8.410	0.067	0	0	0	0	
000061330507...	OH2825	C	Consumer	7.15Y	119.2	0.00	6.76	0.52	0	4	0	100	0.00	0.0	8.343	0.067	4	0	1	1	
OH2760	OH2746	C	4 ACSR 7/1	7.16Y	119.3	0.01	6.73	3.74	3	27	-2	-100	0.00	0.0	8.226	0.052	0	0	0	3	
OH2789	OH2760	C	4 ACSR 7/1	7.16Y	119.3	0.00	6.73	3.74	3	27	-2	-100	0.00	0.0	8.254	0.028	0	0	0	3	
OH2811	OH2789	C	4 ACSR 7/1	7.16Y	119.3	0.02	6.75	3.20	2	23	-2	-100	0.00	0.0	8.391	0.137	0	0	0	2	
OH2812	OH2811	C	4 ACSR 7/1	7.15Y	119.2	0.01	6.76	2.60	2	19	-2	-99	0.00	0.0	8.467	0.076	0	0	0	1	
000061330507...	OH2812	C	Consumer	7.15Y	119.2	0.00	6.76	2.60	0	19	-2	-99	0.00	0.0	8.467	0.076	19	-2	1	1	
000061330507...	OH2811	C	Consumer	7.16Y	119.3	0.00	6.75	0.60	0	4	0	100	0.00	0.0	8.391	0.076	4	0	1	1	
000061330507...	OH2789	C	Consumer	7.16Y	119.3	0.00	6.73	0.55	0	4	0	100	0.00	0.0	8.254	0.076	4	0	1	1	
000061330507...	OH2760	C	Consumer	7.16Y	119.3	0.00	6.73	0.00	0	0	0	100	0.00	0.0	8.226	0.076	0	0	0	0	
OH2737	OH2832	C	4 ACSR 7/1	7.16Y	119.3	0.01	6.71	5.37	4	38	-4	-99	0.00	0.0	8.217	0.066	0	0	0	4	
OH2741	OH2737	C	4 ACSR 7/1	7.16Y	119.3	0.00	6.71	0.00	0	0	0	100	0.00	0.0	8.263	0.046	0	0	0	0	
000061330507...	OH2741	C	Consumer	7.16Y	119.3	0.00	6.71	0.00	0	0	0	100	0.00	0.0	8.263	0.046	0	0	0	0	
OH2740	OH2737	C	4 ACSR 7/1	7.16Y	119.3	0.00	6.72	0.84	1	6	-1	-99	0.00	0.0	8.248	0.030	0	0	0	1	
000061330507...	OH2740	C	Consumer	7.16Y	119.3	0.00	6.72	0.84	0	6	-1	-99	0.00	0.0	8.248	0.030	6	-1	1	1	
000061330507...	OH2740	C	Consumer	7.16Y	119.3	0.00	6.72	0.84	0	6	-1	-99	0.00	0.0	8.248	0.030	6	-1	1	1	
000061330507...	OH2737	C	Consumer	7.16Y	119.3	0.00	6.71	0.27	0	2	0	100	0.00	0.0	8.217	0.030	2	0	1	1	
000061330507...	OH2737	C	Consumer	7.16Y	119.3	0.00	6.71	2.25	0	16	-1	-100	0.00	0.0	8.217	0.030	16	-1	1	1	
000061330507...	OH2737	C	Consumer	7.16Y	119.3	0.00	6.71	2.01	0	14	-1	-100	0.00	0.0	8.217	0.030	14	-1	1	1	
000061330507...	OH2832	C	Consumer	7.16Y	119.3	0.00	6.70	0.00	0	0	0	100	0.00	0.0	8.151	0.030	0	0	0	0	

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
000061330507...	OH2831	C	Consumer	7.16Y	119.3	0.00	6.65	0.00	0	0	0	100	0.00	0.0	8.106	0.030	0	0	0	0
000061330507...	OH2830	C	Consumer	7.18Y	119.6	0.00	6.39	0.06	0	0	0	100	0.00	0.0	7.860	0.030	0	0	1	1
000061330507...	OH2830	C	Consumer	7.18Y	119.6	0.00	6.39	1.10	0	8	-1	-99	0.00	0.0	7.860	0.030	8	-1	1	1
OH2828	OH2826	C	4 ACSR 7/1	7.19Y	119.9	0.00	6.14	0.00	0	0	0	100	0.00	0.0	7.733	0.102	0	0	0	0
000061330507...	OH2828	C	Consumer	7.19Y	119.9	0.00	6.14	0.00	0	0	0	100	0.00	0.0	7.733	0.102	0	0	0	0
000061330507...	OH2826	C	Consumer	7.19Y	119.9	0.00	6.14	0.00	0	0	0	100	0.00	0.0	7.631	0.102	0	0	1	1
000061330507...	OH2826	C	Consumer	7.19Y	119.9	0.00	6.14	0.00	0	0	0	100	0.00	0.0	7.631	0.102	0	0	0	0
000061330508...	OH2957	ABC	Consumer	7.21Y	120.2	0.00	5.75	1.46	0	28	14	89	0.00	0.0	7.284	0.102	28	14	1	1
000061330508...	OH2820	C	Consumer	7.23Y	120.5	0.00	5.53	0.00	0	0	0	100	0.00	0.0	6.910	0.102	0	0	0	0
000061330508...	OH2820	C	Consumer	7.23Y	120.5	0.00	5.53	1.49	0	11	-1	-100	0.00	0.0	6.910	0.102	11	-1	1	1
000061330508...	OH2820	C	Consumer	7.23Y	120.5	0.00	5.53	0.41	0	3	0	100	0.00	0.0	6.910	0.102	3	0	1	1
OH2818	OH2815	B	4 ACSR 7/1	7.23Y	120.5	0.01	5.50	1.22	1	9	-1	-99	0.00	0.0	7.002	0.148	0	0	0	2
OH2819	OH2818	B	4 ACSR 7/1	7.23Y	120.5	0.00	5.50	0.51	0	4	0	100	0.00	0.0	7.113	0.110	0	0	0	1
000061330508...	OH2819	B	Consumer	7.23Y	120.5	0.00	5.50	0.00	0	0	0	100	0.00	0.0	7.113	0.110	0	0	0	0
000061330508...	OH2819	B	Consumer	7.23Y	120.5	0.00	5.50	0.00	0	0	0	100	0.00	0.0	7.113	0.110	0	0	0	0
000061330508...	OH2819	B	Consumer	7.23Y	120.5	0.00	5.50	0.51	0	4	0	100	0.00	0.0	7.113	0.110	4	0	1	1
000061330508...	OH2818	B	Consumer	7.23Y	120.5	0.00	5.50	0.71	0	5	0	100	0.00	0.0	7.002	0.110	5	0	1	1
000061330508...	OH2815	C	Consumer	7.23Y	120.5	0.00	5.49	0.00	0	0	0	100	0.00	0.0	6.854	0.110	0	0	0	0
000061330508...	OH2815	C	Consumer	7.23Y	120.5	0.00	5.49	0.05	0	0	0	100	0.00	0.0	6.854	0.110	0	0	1	1
000061330508...	OH2813	C	Consumer	7.24Y	120.7	0.00	5.32	0.08	0	1	0	100	0.00	0.0	6.608	0.110	1	0	1	1
000061330508...	OH2813	C	Consumer	7.24Y	120.7	0.00	5.32	0.00	0	0	0	100	0.00	0.0	6.608	0.110	0	0	0	0
OH2599	OH2560	A	4 ACSR 7/1	7.25Y	120.9	0.01	5.11	4.00	3	29	-3	-99	0.00	0.0	6.387	0.094	0	0	0	3
OH2611	OH2599	A	4 ACSR 7/1	7.25Y	120.9	0.01	5.12	1.63	1	12	-1	-100	0.00	0.0	6.577	0.190	0	0	0	1
000061330509...	OH2611	A	Consumer	7.25Y	120.9	0.00	5.12	1.63	0	12	-1	-100	0.00	0.0	6.577	0.190	12	-1	1	1
OH2610	OH2599	A	4 ACSR 7/1	7.25Y	120.9	0.00	5.11	2.14	2	15	-1	-100	0.00	0.0	6.430	0.044	0	0	0	1
000061330509...	OH2610	A	Consumer	7.25Y	120.9	0.00	5.11	2.14	0	15	-1	-100	0.00	0.0	6.430	0.044	15	-1	1	1
OH2600	OH2599	A	4 ACSR 7/1	7.25Y	120.9	0.00	5.11	0.23	0	2	0	100	0.00	0.0	6.496	0.109	0	0	0	1
000061330509...	OH2600	A	Consumer	7.25Y	120.9	0.00	5.11	0.23	0	2	0	100	0.00	0.0	6.496	0.109	2	0	1	1
OH2564	OH2560	ABC	1/0 ACSR	7.24Y	120.7	0.23	5.32	101.84	44	2215	-72	-100	4.30	0.2	6.453	0.161	0	0	0	294
OH2738	OH2564	ABC	1/0 ACSR	7.23Y	120.4	0.26	5.58	99.25	43	2155	-72	-100	4.78	0.2	6.642	0.188	0	0	0	283
OH2743	OH2738	ABC	1/0 ACSR	7.18Y	119.7	0.77	6.35	98.77	43	2139	-75	-100	14.10	0.7	7.203	0.561	0	0	0	281
REG3701	OH2743	ABC	SystemRegu	7.61Y	126.8	-7.13	-0.78	98.77	66	2125	-87	-100	percent Boost= 5.62 Tap= 9.0							281
OH2747	REG3701	ABC	1/0 ACSR	7.60Y	126.6	0.15	-0.63	76.75	33	1750	-58	-100	2.14	0.1	7.344	0.141	0	0	0	229
OH2795	OH2747	ABC	1/0 ACSR	7.59Y	126.5	0.10	-0.53	76.59	33	1745	-60	-100	1.45	0.1	7.439	0.096	0	0	0	228
OH2784	OH2795	ABC	1/0 ACSR	7.59Y	126.5	0.03	-0.50	76.59	33	1743	-61	-100	0.45	0.0	7.469	0.030	0	0	0	228
OH2786	OH2784	A	4 ACSR 7/1	7.59Y	126.5	0.00	-0.50	0.00	0	0	0	100	0.00	0.0	7.498	0.030	0	0	0	0
000061330508...	OH2786	A	Consumer	7.59Y	126.5	0.00	-0.50	0.00	0	0	0	100	0.00	0.0	7.498	0.030	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OH2785	OH2784	ABC	1/0 ACSR	7.59Y	126.5	0.04	-0.46	76.59	33	1743	-62	-100	0.55	0.0	7.505	0.036	0	0	0	228
OH2748	OH2785	ABC	1/0 ACSR	7.59Y	126.4	0.04	-0.42	76.59	33	1742	-62	-100	0.52	0.0	7.539	0.034	0	0	0	228
OH3015	OH2748	ABC	1/0 ACSR	7.58Y	126.3	0.10	-0.32	76.59	33	1742	-62	-100	1.49	0.1	7.638	0.099	0	0	0	228
OH3016	OH3015	A	4 ACSR 7/1	7.58Y	126.3	0.00	-0.32	0.00	0	0	0	100	0.00	0.0	7.706	0.068	0	0	0	0
000051810108...	OH3016	A	Consumer	7.58Y	126.3	0.00	-0.32	0.00	0	0	0	100	0.00	0.0	7.706	0.068	0	0	0	0
000051810108...	OH3016	A	Consumer	7.58Y	126.3	0.00	-0.32	0.00	0	0	0	100	0.00	0.0	7.706	0.068	0	0	0	0
OH2787	OH3015	ABC	1/0 ACSR	7.58Y	126.3	0.04	-0.28	76.59	33	1740	-64	-100	0.60	0.0	7.678	0.040	0	0	0	228
OH2788	OH2787	A	4 ACSR 7/1	7.58Y	126.3	0.00	-0.28	0.00	0	0	0	100	0.00	0.0	7.823	0.146	0	0	0	0
000061330508...	OH2788	A	Consumer	7.58Y	126.3	0.00	-0.28	0.00	0	0	0	100	0.00	0.0	7.823	0.146	0	0	0	0
OH2751	OH2787	ABC	1/0 ACSR	7.57Y	126.2	0.10	-0.18	76.59	33	1740	-64	-100	1.37	0.1	7.769	0.091	0	0	0	228
OH2752	OH2751	ABC	1/0 ACSR	7.57Y	126.1	0.05	-0.13	76.30	33	1732	-65	-100	0.73	0.0	7.817	0.049	0	0	0	227
OH2804	OH2752	A	4 ACSR 7/1	7.57Y	126.1	0.00	-0.12	2.34	2	18	-2	-99	0.00	0.0	7.872	0.054	0	0	0	1
000051810108...	OH2804	A	Consumer	7.57Y	126.1	0.00	-0.12	2.34	0	18	-2	-99	0.00	0.0	7.872	0.054	18	-2	1	1
OH2749	OH2752	ABC	1/0 ACSR	7.57Y	126.1	0.04	-0.09	75.52	33	1713	-64	-100	0.59	0.0	7.857	0.040	0	0	0	226
OH2805	OH2749	A	4 ACSR 7/1	7.57Y	126.1	0.00	-0.09	0.00	0	0	0	100	0.00	0.0	7.971	0.114	0	0	0	0
000051810108...	OH2805	A	Consumer	7.57Y	126.1	0.00	-0.09	0.00	0	0	0	100	0.00	0.0	7.971	0.114	0	0	0	0
000051810108...	OH2805	A	Consumer	7.57Y	126.1	0.00	-0.09	0.00	0	0	0	100	0.00	0.0	7.971	0.114	0	0	0	0
OH2750	OH2749	ABC	1/0 ACSR	7.56Y	126.0	0.09	0.00	75.52	33	1713	-64	-100	1.25	0.1	7.942	0.085	0	0	0	226
OH3021	OH2750	ABC	1/0 ACSR	7.56Y	126.0	0.03	0.03	75.52	33	1712	-65	-100	0.43	0.0	7.971	0.029	0	0	0	226
OH2753	OH3021	ABC	1/0 ACSR	7.56Y	125.9	0.04	0.07	73.52	32	1666	-62	-100	0.57	0.0	8.012	0.041	0	0	0	223
OH2807	OH2753	B	4 ACSR 7/1	7.56Y	125.9	0.00	0.07	0.22	0	2	1	89	0.00	0.0	8.081	0.069	0	0	0	1
000051810108...	OH2807	B	Consumer	7.56Y	125.9	0.00	0.07	0.22	0	2	1	89	0.00	0.0	8.081	0.069	2	1	1	1
OH2754	OH2753	ABC	1/0 ACSR	7.55Y	125.9	0.06	0.13	73.45	32	1664	-63	-100	0.78	0.0	8.069	0.056	0	0	0	222
OH3026	OH2754	ABC	4 ACSR 7/1	7.55Y	125.9	0.00	0.13	0.00	0	0	0	100	0.00	0.0	8.235	0.166	0	0	0	0
OH3024	OH2754	A	4 ACSR 7/1	7.55Y	125.9	0.00	0.13	0.30	0	2	0	100	0.00	0.0	8.151	0.082	0	0	0	1
000051810108...	OH3024	A	Consumer	7.55Y	125.9	0.00	0.13	0.30	0	2	0	100	0.00	0.0	8.151	0.082	2	0	1	1
OH2808	OH2754	B	4 ACSR 7/1	7.55Y	125.9	0.01	0.14	1.24	1	9	-1	-99	0.00	0.0	8.209	0.141	0	0	0	2
OH29521	OH2808	B	4 ACSR 7/1	7.55Y	125.9	0.00	0.14	0.34	0	3	0	100	0.00	0.0	8.257	0.048	0	0	0	1
000051810108...	OH29521	B	Consumer	7.55Y	125.9	0.00	0.14	0.34	0	3	0	100	0.00	0.0	8.257	0.048	3	0	1	1
000051810108...	OH2808	B	Consumer	7.55Y	125.9	0.00	0.14	0.91	0	7	-1	-99	0.00	0.0	8.209	0.048	7	-1	1	1
OH2755	OH2754	ABC	1/0 ACSR	7.54Y	125.6	0.24	0.37	72.94	32	1651	-62	-100	3.20	0.2	8.302	0.234	0	0	0	219
OH3065	OH2755	A	4 ACSR 7/1	7.54Y	125.6	0.00	0.37	0.58	0	4	0	100	0.00	0.0	8.497	0.195	0	0	0	1
000051810108...	OH3065	A	Consumer	7.54Y	125.6	0.00	0.37	0.00	0	0	0	100	0.00	0.0	8.497	0.195	0	0	0	0
000051810108...	OH3065	A	Consumer	7.54Y	125.6	0.00	0.37	0.58	0	4	0	100	0.00	0.0	8.497	0.195	4	0	1	1
OH3030	OH2755	A	4 ACSR 7/1	7.54Y	125.6	0.02	0.38	2.40	2	18	-2	-99	0.00	0.0	8.475	0.173	0	0	0	2
OH3031	OH3030	A	4 ACSR 7/1	7.54Y	125.6	0.00	0.38	0.88	1	7	-1	-99	0.00	0.0	8.525	0.050	0	0	0	1
000051810108...	OH3031	A	Consumer	7.54Y	125.6	0.00	0.38	0.88	0	7	-1	-99	0.00	0.0	8.525	0.050	7	-1	1	1

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
000051810108...	OH3030	A	Consumer	7.54Y	125.6	0.00	0.38	1.52	0	11	-1	-100	0.00	0.0	8.475	0.050	11	-1	1	1
OH3029	OH2755	B	4 ACSR 7/1	7.54Y	125.6	0.00	0.37	0.00	0	0	0	100	0.00	0.0	8.451	0.149	0	0	0	1
000051810109...	OH3029	B	Consumer	7.54Y	125.6	0.00	0.37	0.00	0	0	0	100	0.00	0.0	8.451	0.149	0	0	1	1
OH3028	OH2755	A	4 ACSR 7/1	7.54Y	125.6	0.00	0.37	0.32	0	2	0	100	0.00	0.0	8.488	0.186	0	0	0	2
000051810108...	OH3028	A	Consumer	7.54Y	125.6	0.00	0.37	0.00	0	0	0	100	0.00	0.0	8.488	0.186	0	0	0	0
000051810108...	OH3028	A	Consumer	7.54Y	125.6	0.00	0.37	0.08	0	1	0	100	0.00	0.0	8.488	0.186	1	0	1	1
000051810108...	OH3028	A	Consumer	7.54Y	125.6	0.00	0.37	0.24	0	2	0	100	0.00	0.0	8.488	0.186	2	0	1	1
OH2756	OH2755	ABC	1/0 ACSR	7.53Y	125.4	0.19	0.56	70.70	31	1598	-60	-100	2.54	0.2	8.499	0.197	0	0	0	211
OH2757	OH2756	ABC	1/0 ACSR	7.52Y	125.3	0.09	0.65	70.59	31	1593	-62	-100	1.24	0.1	8.596	0.096	0	0	0	210
OH3038	OH2757	B	4 ACSR 7/1	7.52Y	125.3	0.01	0.66	1.29	1	10	-1	-100	0.00	0.0	8.759	0.163	0	0	0	2
000051810109...	OH3038	B	Consumer	7.52Y	125.3	0.00	0.66	0.00	0	0	0	100	0.00	0.0	8.759	0.163	0	0	0	0
000051810109...	OH3038	B	Consumer	7.52Y	125.3	0.00	0.66	0.43	0	3	0	100	0.00	0.0	8.759	0.163	3	0	1	1
000051810108...	OH3038	B	Consumer	7.52Y	125.3	0.00	0.66	0.86	0	6	-1	-99	0.00	0.0	8.759	0.163	6	-1	1	1
000051810108...	OH3038	B	Consumer	7.52Y	125.3	0.00	0.66	0.00	0	0	0	100	0.00	0.0	8.759	0.163	0	0	0	0
OH2758	OH2757	ABC	1/0 ACSR	7.52Y	125.3	0.03	0.69	69.51	30	1567	-61	-100	0.44	0.0	8.631	0.035	0	0	0	207
OH3039	OH2758	B	4 ACSR 7/1	7.52Y	125.3	0.01	0.69	0.98	1	7	-1	-99	0.00	0.0	8.762	0.131	0	0	0	1
000051810109...	OH3039	B	Consumer	7.52Y	125.3	0.00	0.69	0.98	0	7	-1	-99	0.00	0.0	8.762	0.131	7	-1	1	1
000051810109...	OH3039	B	Consumer	7.52Y	125.3	0.00	0.69	0.00	0	0	0	100	0.00	0.0	8.762	0.131	0	0	0	0
OH2759	OH2758	ABC	1/0 ACSR	7.52Y	125.3	0.03	0.72	69.18	30	1559	-61	-100	0.43	0.0	8.665	0.034	0	0	0	206
OH3040	OH2759	C	4 ACSR 7/1	7.52Y	125.3	0.00	0.72	0.00	0	0	0	100	0.00	0.0	8.868	0.203	0	0	0	1
000051810109...	OH3040	C	Consumer	7.52Y	125.3	0.00	0.72	0.00	0	0	0	100	0.00	0.0	8.868	0.203	0	0	1	1
OH2762	OH2759	ABC	1/0 ACSR	7.52Y	125.3	0.01	0.73	69.18	30	1559	-61	-100	0.18	0.0	8.679	0.014	0	0	0	205
OH2761	OH2762	ABC	1/0 ACSR	7.51Y	125.2	0.06	0.79	69.18	30	1559	-61	-100	0.72	0.0	8.738	0.058	0	0	0	205
OH3041	OH2761	A	4 ACSR 7/1	7.51Y	125.2	0.00	0.79	0.00	0	0	0	100	0.00	0.0	8.876	0.138	0	0	0	0
OH2763	OH2761	ABC	1/0 ACSR	7.49Y	124.8	0.41	1.20	68.31	30	1538	-60	-100	5.21	0.3	9.171	0.433	0	0	0	204
OH3094	OH2763	A	4 ACSR 7/1	7.49Y	124.8	0.01	1.21	3.38	2	25	-2	-100	0.00	0.0	9.244	0.073	0	0	0	3
OH29518	OH3094	A	4 ACSR 7/1	7.49Y	124.8	0.01	1.22	1.94	1	14	-1	-100	0.00	0.0	9.339	0.094	0	0	0	1
000051810109...	OH29518	A	Consumer	7.49Y	124.8	0.00	1.22	1.94	0	14	-1	-100	0.00	0.0	9.339	0.094	14	-1	1	1
000051810109...	OH3094	A	Consumer	7.49Y	124.8	0.00	1.21	0.40	0	3	0	100	0.00	0.0	9.244	0.094	3	0	1	1
000051810109...	OH3094	A	Consumer	7.49Y	124.8	0.00	1.21	0.00	0	0	0	100	0.00	0.0	9.244	0.094	0	0	0	0
000051810109...	OH3094	A	Consumer	7.49Y	124.8	0.00	1.21	1.04	0	8	-1	-99	0.00	0.0	9.244	0.094	8	-1	1	1
OH2764	OH2763	ABC	1/0 ACSR	7.49Y	124.8	0.05	1.24	67.19	29	1508	-62	-100	0.58	0.0	9.221	0.050	0	0	0	201
OH2765	OH2764	ABC	1/0 ACSR	7.48Y	124.7	0.06	1.30	67.15	29	1507	-63	-100	0.70	0.0	9.282	0.060	0	0	0	200
OH3095	OH2765	A	4 ACSR 7/1	7.48Y	124.7	0.00	1.30	0.67	0	5	0	100	0.00	0.0	9.374	0.092	0	0	0	2
000051810109...	OH3095	A	Consumer	7.48Y	124.7	0.00	1.30	0.00	0	0	0	100	0.00	0.0	9.374	0.092	0	0	0	0
000051810109...	OH3095	A	Consumer	7.48Y	124.7	0.00	1.30	0.33	0	2	0	100	0.00	0.0	9.374	0.092	2	0	1	1
000051810109...	OH3095	A	Consumer	7.48Y	124.7	0.00	1.30	0.34	0	3	0	100	0.00	0.0	9.374	0.092	3	0	1	1

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts											mi		-----Element-----					
		-Base Voltage:120.0-											From	Length			Cons	Cons		
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	Src	(mi)	KW	KVAR	On	Thru
OH2767	OH2765	ABC	1/0 ACSR	7.48Y	124.7	0.04	1.34	66.93	29	1501	-63	-100	0.54	0.0	9.329	0.047	0	0	0	198
OH2766	OH2767	ABC	1/0 ACSR	7.48Y	124.6	0.03	1.37	66.61	29	1493	-63	-100	0.31	0.0	9.356	0.027	0	0	0	197
OH3138	OH2766	A	4 ACSR 7/1	7.48Y	124.6	0.00	1.37	1.16	1	9	-1	-99	0.00	0.0	9.387	0.031	0	0	0	1
000051810109...	OH3138	A	Consumer	7.48Y	124.6	0.00	1.37	1.16	0	9	-1	-99	0.00	0.0	9.387	0.031	9	-1	1	1
OH3096	OH2766	A	4 ACSR 7/1	7.48Y	124.6	0.00	1.37	0.00	0	0	0	100	0.00	0.0	9.415	0.059	0	0	0	0
000051810109...	OH3096	A	Consumer	7.48Y	124.6	0.00	1.37	0.00	0	0	0	100	0.00	0.0	9.415	0.059	0	0	0	0
OH2768	OH2766	ABC	1/0 ACSR	7.48Y	124.6	0.02	1.39	66.23	29	1484	-62	-100	0.30	0.0	9.383	0.026	0	0	0	196
OH2769	OH2768	ABC	1/0 ACSR	7.47Y	124.6	0.04	1.43	66.21	29	1484	-62	-100	0.45	0.0	9.422	0.039	0	0	0	195
OH3097	OH2769	A	4 ACSR 7/1	7.47Y	124.6	0.00	1.43	0.48	0	4	0	100	0.00	0.0	9.508	0.086	0	0	0	2
OH3098	OH3097	A	4 ACSR 7/1	7.47Y	124.6	0.00	1.43	0.45	0	3	0	100	0.00	0.0	9.603	0.095	0	0	0	1
000051810109...	OH3098	A	Consumer	7.47Y	124.6	0.00	1.43	0.45	0	3	0	100	0.00	0.0	9.603	0.095	3	0	1	1
000051810109...	OH3097	A	Consumer	7.47Y	124.6	0.00	1.43	0.03	0	0	0	100	0.00	0.0	9.508	0.095	0	0	1	1
OH2770	OH2769	ABC	1/0 ACSR	7.47Y	124.6	0.02	1.45	66.05	29	1480	-63	-100	0.20	0.0	9.440	0.018	0	0	0	193
OH3135	OH2770	C	4 ACSR 7/1	7.47Y	124.6	0.00	1.45	4.01	3	30	-3	-100	0.00	0.0	9.459	0.019	0	0	0	2
000051810109...	OH3135	C	Consumer	7.47Y	124.6	0.00	1.45	2.39	0	18	-2	-99	0.00	0.0	9.459	0.019	18	-2	1	1
000051810109...	OH3135	C	Consumer	7.47Y	124.6	0.00	1.45	1.63	0	12	-1	-100	0.00	0.0	9.459	0.019	12	-1	1	1
OH2771	OH2770	ABC	1/0 ACSR	7.47Y	124.5	0.10	1.54	64.72	28	1450	-60	-100	1.16	0.1	9.548	0.108	0	0	0	191
OH3099	OH2771	A	4 ACSR 7/1	7.47Y	124.5	0.00	1.54	0.00	0	0	0	100	0.00	0.0	9.636	0.088	0	0	0	0
000051810109...	OH3099	A	Consumer	7.47Y	124.5	0.00	1.54	0.00	0	0	0	100	0.00	0.0	9.636	0.088	0	0	0	0
OH2772	OH2771	ABC	1/0 ACSR	7.46Y	124.3	0.14	1.68	64.72	28	1449	-61	-100	1.73	0.1	9.708	0.160	0	0	0	191
OH3102	OH2772	ABC	4 ACSR 7/1	7.46Y	124.3	0.03	1.71	63.15	45	1412	-59	-100	0.29	0.0	9.719	0.011	0	0	0	187
OH3103	OH3102	A	4 ACSR 7/1	7.46Y	124.3	0.00	1.71	0.00	0	0	0	100	0.00	0.0	9.774	0.055	0	0	0	0
000051810109...	OH3103	A	Consumer	7.46Y	124.3	0.00	1.71	0.00	0	0	0	100	0.00	0.0	9.774	0.055	0	0	0	0
OH2773	OH3102	ABC	1/0 ACSR	7.45Y	124.1	0.15	1.86	63.15	27	1412	-59	-100	1.81	0.1	9.895	0.176	0	0	0	187
OH2774	OH2773	ABC	1/0 ACSR	7.45Y	124.1	0.04	1.90	63.15	27	1410	-61	-100	0.49	0.0	9.942	0.048	0	0	0	187
000051810109...	OH2774	C	Consumer	7.45Y	124.1	0.00	1.90	0.00	0	0	0	100	0.00	0.0	9.942	0.048	0	0	0	0
OH2775	OH2774	ABC	1/0 ACSR	7.44Y	124.0	0.07	1.97	62.26	27	1389	-60	-100	0.81	0.1	10.024	0.082	0	0	0	186
OH3104	OH2775	A	4 ACSR 7/1	7.44Y	124.0	0.01	1.98	2.60	2	19	-2	-99	0.00	0.0	10.126	0.102	0	0	0	1
000051810109...	OH3104	A	Consumer	7.44Y	124.0	0.00	1.98	2.60	0	19	-2	-99	0.00	0.0	10.126	0.102	19	-2	1	1
OH2776	OH2775	ABC	1/0 ACSR	7.44Y	123.9	0.09	2.06	61.39	27	1369	-58	-100	1.01	0.1	10.128	0.104	0	0	0	185
OH3105	OH2776	C	4 ACSR 7/1	7.44Y	123.9	0.00	2.06	0.43	0	3	0	100	0.00	0.0	10.239	0.111	0	0	0	2
000051810109...	OH3105	C	Consumer	7.44Y	123.9	0.00	2.06	0.00	0	0	0	100	0.00	0.0	10.239	0.111	0	0	1	1
000051810109...	OH3105	C	Consumer	7.44Y	123.9	0.00	2.06	0.00	0	0	0	100	0.00	0.0	10.239	0.111	0	0	0	0
000051810109...	OH3105	C	Consumer	7.44Y	123.9	0.00	2.06	0.43	0	3	0	100	0.00	0.0	10.239	0.111	3	0	1	1
OH2778	OH2776	ABC	1/0 ACSR	7.43Y	123.8	0.12	2.19	61.25	27	1365	-59	-100	1.41	0.1	10.274	0.145	0	0	0	182
OH2777	OH2778	ABC	1/0 ACSR	7.43Y	123.8	0.03	2.21	60.76	26	1353	-59	-100	0.29	0.0	10.304	0.031	0	0	0	180
OH3197	OH2777	ABC	1/0 ACSR	7.42Y	123.7	0.05	2.27	48.48	21	1079	-54	-100	0.49	0.0	10.386	0.082	0	0	0	145

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts											mi		-----Element-----					
		-Base Voltage:120.0-											From	Length			Cons	Cons		
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	Src	(mi)	KW	KVAR	On	Thru
OH3452	OH3197	ABC	1/0 ACSR	7.42Y	123.7	0.03	2.29	48.10	21	1070	-54	-100	0.25	0.0	10.429	0.043	0	0	0	143
OH3456	OH3452	C	4 ACSR 7/1	7.42Y	123.7	0.03	2.32	2.96	2	22	-2	-100	0.01	0.0	10.670	0.242	0	0	0	2
000052400000...	OH3456	C	Consumer	7.42Y	123.7	0.00	2.32	0.00	0	0	0	100	0.00	0.0	10.670	0.242	0	0	0	0
000052400000...	OH3456	C	Consumer	7.42Y	123.7	0.00	2.32	0.00	0	0	0	100	0.00	0.0	10.670	0.242	0	0	0	0
000052400000...	OH3456	C	Consumer	7.42Y	123.7	0.00	2.32	0.89	0	7	-1	-99	0.00	0.0	10.670	0.242	7	-1	1	1
000052400000...	OH3456	C	Consumer	7.42Y	123.7	0.00	2.32	2.08	0	15	-1	-100	0.00	0.0	10.670	0.242	15	-1	1	1
000052400000...	OH3456	C	Consumer	7.42Y	123.7	0.00	2.32	0.00	0	0	0	100	0.00	0.0	10.670	0.242	0	0	0	0
OH3214	OH3452	ABC	1/0 ACSR	7.42Y	123.7	0.05	2.34	46.82	20	1041	-51	-100	0.42	0.0	10.504	0.075	0	0	0	140
OH3448	OH3214	ABC	1/0 ACSR	7.42Y	123.6	0.06	2.40	46.82	20	1041	-52	-100	0.50	0.0	10.593	0.089	0	0	0	140
OH3441	OH3448	ABC	1/0 ACSR	7.41Y	123.6	0.04	2.44	46.70	20	1038	-52	-100	0.36	0.0	10.657	0.064	0	0	0	139
OH3442	OH3441	ABC	1/0 ACSR	7.41Y	123.4	0.14	2.58	46.66	20	1036	-52	-100	1.26	0.1	10.881	0.224	0	0	0	138
OH3447	OH3442	ABC	1/0 ACSR	7.40Y	123.4	0.06	2.65	46.22	20	1025	-55	-100	0.55	0.1	10.981	0.100	0	0	0	135
OH3567	OH3447	ABC	1/0 ACSR	7.39Y	123.2	0.13	2.77	46.22	20	1025	-55	-100	1.11	0.1	11.182	0.201	0	0	0	135
OH3549	OH3567	AB	1/0 ACSR	7.38Y	123.0	0.27	3.05	57.08	25	843	-45	-100	1.99	0.2	11.500	0.317	0	0	0	106
OH3550	OH3549	AB	1/0 ACSR	7.36Y	122.6	0.37	3.41	57.08	25	841	-47	-100	2.69	0.3	11.930	0.430	0	0	0	106
OH3555	OH3550	A	4 ACSR 7/1	7.35Y	122.6	0.00	3.42	1.20	1	9	-1	-99	0.00	0.0	12.029	0.100	0	0	0	2
000052400000...	OH3555	A	Consumer	7.35Y	122.6	0.00	3.42	0.05	0	0	0	100	0.00	0.0	12.029	0.100	0	0	1	1
000052400000...	OH3555	A	Consumer	7.35Y	122.6	0.00	3.42	1.15	0	8	-1	-99	0.00	0.0	12.029	0.100	8	-1	1	1
OH3551	OH3550	AB	1/0 ACSR	7.34Y	122.4	0.22	3.64	56.47	25	829	-49	-100	1.62	0.2	12.194	0.264	0	0	0	104
OH3554	OH3551	A	4 ACSR 7/1	7.34Y	122.4	0.00	3.64	0.00	0	0	0	100	0.00	0.0	12.367	0.173	0	0	0	0
000052400000...	OH3554	A	Consumer	7.34Y	122.4	0.00	3.64	0.00	0	0	0	100	0.00	0.0	12.367	0.173	0	0	0	0
OH3552	OH3551	AB	1/0 ACSR	7.33Y	122.1	0.24	3.88	56.47	25	828	-51	-100	1.73	0.2	12.476	0.282	0	0	0	104
OH3125	OH3552	AB	1/0 ACSR	7.30Y	121.6	0.50	4.37	56.47	25	826	-52	-100	3.62	0.4	13.067	0.591	0	0	0	104
OH3122	OH3125	AB	1/0 ACSR	7.29Y	121.6	0.05	4.42	56.47	25	822	-56	-100	0.36	0.0	13.125	0.058	0	0	0	104
OH3126	OH3122	B	4 ACSR 7/1	7.29Y	121.5	0.12	4.54	30.53	22	222	-18	-100	0.23	0.1	13.224	0.099	0	0	0	26
OH3532	OH3126	B	4 ACSR 7/1	7.29Y	121.5	0.00	4.55	1.60	1	12	-1	-100	0.00	0.0	13.289	0.065	0	0	0	1
000052400001...	OH3532	B	Consumer	7.29Y	121.5	0.00	4.55	1.60	0	12	-1	-100	0.00	0.0	13.289	0.065	12	-1	1	1
OH3505	OH3126	B	4 ACSR 7/1	7.25Y	120.8	0.62	5.16	28.93	21	210	-17	-100	1.13	0.5	13.769	0.545	0	0	0	25
OH3506	OH3505	B	4 ACSR 7/1	7.25Y	120.8	0.03	5.18	4.63	3	33	-3	-100	0.01	0.0	13.913	0.143	0	0	0	3
OH3507	OH3506	B	4 ACSR 7/1	7.25Y	120.8	0.01	5.20	2.46	2	18	-2	-99	0.00	0.0	14.066	0.153	0	0	0	2
OH3525	OH3507	B	4 ACSR 7/1	7.25Y	120.8	0.00	5.20	0.02	0	0	0	100	0.00	0.0	14.199	0.133	0	0	0	1
000052400000...	OH3525	B	Consumer	7.25Y	120.8	0.00	5.20	0.02	0	0	0	100	0.00	0.0	14.199	0.133	0	0	1	1
000052400000...	OH3507	B	Consumer	7.25Y	120.8	0.00	5.20	2.44	0	18	-2	-99	0.00	0.0	14.066	0.133	18	-2	1	1
000052400000...	OH3506	B	Consumer	7.25Y	120.8	0.00	5.18	2.17	0	16	-1	-100	0.00	0.0	13.913	0.133	16	-1	1	1
OH3504	OH3505	B	4 ACSR 7/1	7.25Y	120.8	0.05	5.21	24.30	17	176	-15	-100	0.07	0.0	13.819	0.049	0	0	0	22
OH3392	OH3504	B	4 ACSR 7/1	7.23Y	120.4	0.37	5.57	24.30	17	175	-15	-100	0.57	0.3	14.205	0.386	0	0	0	22
OH3393	OH3392	B	4 ACSR 7/1	7.23Y	120.4	0.00	5.57	0.00	0	0	0	100	0.00	0.0	14.406	0.202	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
000051800009...	OH3393	B	Consumer	7.23Y	120.4	0.00	5.57	0.00	0	0	0	100	0.00	0.0	14.406	0.202	0	0	0	0
OH3346	OH3392	B	4 ACSR 7/1	7.22Y	120.4	0.06	5.64	20.09	14	145	-13	-100	0.08	0.1	14.286	0.081	0	0	0	18
OH3365	OH3346	B	4 ACSR 7/1	7.22Y	120.4	0.00	5.64	0.16	0	1	0	100	0.00	0.0	14.677	0.392	0	0	0	1
000051800009...	OH3365	B	Consumer	7.22Y	120.4	0.00	5.64	0.16	0	1	0	100	0.00	0.0	14.677	0.392	1	0	1	1
OH3347	OH3346	B	4 ACSR 7/1	7.22Y	120.3	0.05	5.69	19.93	14	143	-13	-100	0.07	0.0	14.353	0.067	0	0	0	17
888051800009...	OH3347	B	Consumer	7.22Y	120.3	0.00	5.69	0.00	0	0	0	100	0.00	0.0	14.353	0.067	0	0	0	0
OH3348	OH3347	B	4 ACSR 7/1	7.21Y	120.2	0.08	5.77	15.86	11	114	-10	-100	0.08	0.1	14.484	0.131	0	0	0	15
OH3349	OH3348	B	4 ACSR 7/1	7.21Y	120.2	0.04	5.81	14.84	11	107	-9	-100	0.04	0.0	14.549	0.064	0	0	0	14
OH3350	OH3349	B	4 ACSR 7/1	7.21Y	120.1	0.06	5.86	12.61	9	91	-8	-100	0.04	0.0	14.661	0.112	0	0	0	12
OH3351	OH3350	B	4 ACSR 7/1	7.21Y	120.1	0.03	5.90	8.92	6	64	-5	-100	0.02	0.0	14.754	0.093	0	0	0	10
OH3352	OH3351	B	4 ACSR 7/1	7.20Y	120.1	0.03	5.93	7.19	5	52	-4	-100	0.02	0.0	14.872	0.118	0	0	0	7
OH3353	OH3352	B	4 ACSR 7/1	7.20Y	120.1	0.02	5.94	6.72	5	48	-4	-100	0.01	0.0	14.932	0.060	0	0	0	6
OH3354	OH3353	B	4 ACSR 7/1	7.20Y	120.0	0.01	5.96	6.61	5	47	-4	-100	0.01	0.0	14.979	0.047	0	0	0	5
OH3355	OH3354	B	4 ACSR 7/1	7.20Y	120.0	0.01	5.96	1.41	1	10	-1	-100	0.00	0.0	15.130	0.151	0	0	0	1
000051800009...	OH3355	B	Consumer	7.20Y	120.0	0.00	5.96	1.41	0	10	-1	-100	0.00	0.0	15.130	0.151	10	-1	1	1
OH3123	OH3354	B	4 ACSR 7/1	7.20Y	120.0	0.03	5.98	3.33	2	24	-2	-100	0.01	0.0	15.186	0.207	12	-1	1	1
000051800009...	OH3123	B	Consumer	7.20Y	120.0	0.00	5.98	1.66	0	12	-1	-100	0.00	0.0	15.186	0.207	12	-1	1	1
000051800009...	OH3123	B	Consumer	7.20Y	120.0	0.00	5.98	1.67	0	12	-1	-100	0.00	0.0	15.186	0.207	12	-1	1	1
000051800009...	OH3354	B	Consumer	7.20Y	120.0	0.00	5.96	1.18	0	8	-1	-99	0.00	0.0	14.979	0.207	8	-1	1	1
000051800009...	OH3354	B	Consumer	7.20Y	120.0	0.00	5.96	0.68	0	5	0	100	0.00	0.0	14.979	0.207	5	0	1	1
000051800009...	OH3353	B	Consumer	7.20Y	120.1	0.00	5.94	0.13	0	1	0	100	0.00	0.0	14.932	0.207	1	0	1	1
000051800009...	OH3353	B	Consumer	7.20Y	120.1	0.00	5.94	0.00	0	0	0	100	0.00	0.0	14.932	0.207	0	0	0	0
000051800009...	OH3352	B	Consumer	7.20Y	120.1	0.00	5.93	0.47	0	3	0	100	0.00	0.0	14.872	0.207	3	0	1	1
000051800009...	OH3352	B	Consumer	7.20Y	120.1	0.00	5.93	0.00	0	0	0	100	0.00	0.0	14.872	0.207	0	0	0	0
000051800009...	OH3351	B	Consumer	7.21Y	120.1	0.00	5.90	0.00	0	0	0	100	0.00	0.0	14.754	0.207	0	0	1	1
000051800009...	OH3351	B	Consumer	7.21Y	120.1	0.00	5.90	0.00	0	0	0	100	0.00	0.0	14.754	0.207	0	0	0	0
000051800009...	OH3351	B	Consumer	7.21Y	120.1	0.00	5.90	0.58	0	4	0	100	0.00	0.0	14.754	0.207	4	0	1	1
000051800009...	OH3351	B	Consumer	7.21Y	120.1	0.00	5.90	1.14	0	8	-1	-99	0.00	0.0	14.754	0.207	8	-1	1	1
000051800009...	OH3350	B	Consumer	7.21Y	120.1	0.00	5.86	0.84	0	6	-1	-99	0.00	0.0	14.661	0.207	6	-1	1	1
000051800009...	OH3350	B	Consumer	7.21Y	120.1	0.00	5.86	2.85	0	20	-2	-100	0.00	0.0	14.661	0.207	20	-2	1	1
000051800009...	OH3349	B	Consumer	7.21Y	120.2	0.00	5.81	2.18	0	16	-1	-100	0.00	0.0	14.549	0.207	16	-1	1	1
000051800009...	OH3349	B	Consumer	7.21Y	120.2	0.00	5.81	0.04	0	0	0	100	0.00	0.0	14.549	0.207	0	0	1	1
000051800009...	OH3349	B	Consumer	7.21Y	120.2	0.00	5.81	0.00	0	0	0	100	0.00	0.0	14.549	0.207	0	0	0	0
000051800009...	OH3348	B	Consumer	7.21Y	120.2	0.00	5.77	0.00	0	0	0	100	0.00	0.0	14.484	0.207	0	0	0	0
000051800009...	OH3348	B	Consumer	7.21Y	120.2	0.00	5.77	1.03	0	7	-1	-99	0.00	0.0	14.484	0.207	7	-1	1	1
000052400000...	OH3347	B	Consumer	7.22Y	120.3	0.00	5.69	1.93	0	14	-1	-100	0.00	0.0	14.353	0.207	14	-1	1	1
000051800009...	OH3347	B	Consumer	7.22Y	120.3	0.00	5.69	2.13	0	15	-1	-100	0.00	0.0	14.353	0.207	15	-1	1	1

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts														-----Element-----				
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
000052400000...	OH3392	B	Consumer	7.23Y	120.4	0.00	5.57	0.55	0	4	0	100	0.00	0.0	14.205	0.207	4	0	1	1
000052400000...	OH3392	B	Consumer	7.23Y	120.4	0.00	5.57	1.28	0	9	-1	-99	0.00	0.0	14.205	0.207	9	-1	1	1
000052400000...	OH3392	B	Consumer	7.23Y	120.4	0.00	5.57	2.38	0	17	-2	-99	0.00	0.0	14.205	0.207	17	-2	1	1
000052400000...	OH3392	B	Consumer	7.23Y	120.4	0.00	5.57	0.00	0	0	0	100	0.00	0.0	14.205	0.207	0	0	0	0
000051800009...	OH3392	B	Consumer	7.23Y	120.4	0.00	5.57	0.00	0	0	0	100	0.00	0.0	14.205	0.207	0	0	1	1
000052400000...	OH3504	B	Consumer	7.25Y	120.8	0.00	5.21	0.00	0	0	0	100	0.00	0.0	13.819	0.207	0	0	0	0
OH3124	OH3122	AB	1/0 ACSR	7.29Y	121.4	0.14	4.56	41.21	18	600	-38	-100	0.74	0.1	13.351	0.226	0	0	0	78
OH3586	OH3124	B	4 ACSR 7/1	7.29Y	121.4	0.00	4.56	0.75	1	5	-1	-98	0.00	0.0	13.442	0.091	0	0	0	1
000052410101...	OH3586	B	Consumer	7.29Y	121.4	0.00	4.56	0.75	0	5	-1	-98	0.00	0.0	13.442	0.091	5	-1	1	1
OH3584	OH3124	AB	1/0 ACSR	7.28Y	121.4	0.07	4.63	40.84	18	594	-38	-100	0.38	0.1	13.471	0.120	0	0	0	77
OH3553	OH3584	AB	1/0 ACSR	7.28Y	121.3	0.02	4.65	40.84	18	593	-39	-100	0.10	0.0	13.501	0.031	0	0	0	77
OH3556	OH3553	AB	1/0 ACSR	7.28Y	121.3	0.05	4.70	40.84	18	593	-39	-100	0.25	0.0	13.580	0.078	0	0	0	77
OH3557	OH3556	AB	1/0 ACSR	7.28Y	121.3	0.03	4.73	40.84	18	593	-39	-100	0.16	0.0	13.628	0.049	0	0	0	77
OH3581	OH3557	A	4 ACSR 7/1	7.28Y	121.3	0.00	4.73	0.00	0	0	0	100	0.00	0.0	13.689	0.061	0	0	0	0
000052410101...	OH3581	A	Consumer	7.28Y	121.3	0.00	4.73	0.00	0	0	0	100	0.00	0.0	13.689	0.061	0	0	0	0
OH3580	OH3557	A	4 ACSR 7/1	7.28Y	121.3	0.00	4.73	0.86	1	6	-1	-99	0.00	0.0	13.715	0.087	0	0	0	1
OH3599	OH3580	A	4 ACSR 7/1	7.28Y	121.3	0.00	4.73	0.86	1	6	-1	-99	0.00	0.0	13.758	0.043	0	0	0	1
000052410101...	OH3599	A	Consumer	7.28Y	121.3	0.00	4.73	0.86	0	6	-1	-99	0.00	0.0	13.758	0.043	6	-1	1	1
000052410101...	OH3580	A	Consumer	7.28Y	121.3	0.00	4.73	0.00	0	0	0	100	0.00	0.0	13.715	0.043	0	0	0	0
OH3558	OH3557	AB	1/0 ACSR	7.27Y	121.2	0.05	4.78	40.41	18	587	-39	-100	0.25	0.0	13.708	0.080	0	0	0	76
OH3559	OH3558	AB	1/0 ACSR	7.27Y	121.2	0.07	4.85	40.41	18	586	-39	-100	0.36	0.1	13.824	0.116	0	0	0	76
OH3571	OH3559	AB	1/0 ACSR	7.27Y	121.1	0.04	4.89	40.41	18	586	-39	-100	0.21	0.0	13.890	0.066	0	0	0	76
OH3572	OH3571	A	4 ACSR 7/1	7.27Y	121.1	0.01	4.89	1.09	1	8	-1	-99	0.00	0.0	14.054	0.164	0	0	0	1
000052410101...	OH3572	A	Consumer	7.27Y	121.1	0.00	4.89	0.00	0	0	0	100	0.00	0.0	14.054	0.164	0	0	0	0
000052410101...	OH3572	A	Consumer	7.27Y	121.1	0.00	4.89	1.09	0	8	-1	-99	0.00	0.0	14.054	0.164	8	-1	1	1
OH3560	OH3571	AB	1/0 ACSR	7.27Y	121.1	0.01	4.90	39.86	17	578	-39	-100	0.04	0.0	13.905	0.015	0	0	0	75
OH3561	OH3560	AB	1/0 ACSR	7.26Y	121.0	0.07	4.96	39.86	17	578	-39	-100	0.35	0.1	14.020	0.115	0	0	0	75
OH3562	OH3561	AB	1/0 ACSR	7.26Y	121.0	0.01	4.97	39.86	17	578	-39	-100	0.03	0.0	14.029	0.009	0	0	0	75
OH3569	OH3562	A	4 ACSR 7/1	7.26Y	121.0	0.00	4.97	0.00	0	0	0	100	0.00	0.0	14.105	0.076	0	0	0	0
000052410101...	OH3569	A	Consumer	7.26Y	121.0	0.00	4.97	0.00	0	0	0	100	0.00	0.0	14.105	0.076	0	0	0	0
OH3563	OH3562	AB	1/0 ACSR	7.26Y	120.9	0.09	5.06	39.86	17	578	-39	-100	0.49	0.1	14.189	0.160	0	0	0	75
OH3564	OH3563	AB	1/0 ACSR	7.25Y	120.9	0.02	5.09	39.86	17	577	-40	-100	0.13	0.0	14.230	0.041	0	0	0	75
OH3114	OH3564	AB	1/0 ACSR	7.25Y	120.8	0.07	5.16	39.37	17	570	-39	-100	0.35	0.1	14.348	0.118	0	0	0	74
OH3664	OH3114	B	4 ACSR 7/1	7.24Y	120.7	0.16	5.32	47.88	34	346	-27	-100	0.48	0.1	14.433	0.085	0	0	0	48
000052410101...	OH3664	B	Consumer	7.24Y	120.7	0.00	5.32	0.00	0	0	0	100	0.00	0.0	14.433	0.085	0	0	0	0
OH3728	OH3664	B	4 ACSR 7/1	7.24Y	120.7	0.00	5.32	0.77	1	5	2	93	0.00	0.0	14.471	0.038	0	0	0	1
000052410101...	OH3728	B	Consumer	7.24Y	120.7	0.00	5.32	0.77	0	5	2	93	0.00	0.0	14.471	0.038	5	2	1	1

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts												mi		-----Element-----				
		-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	kW Loss	% Loss	From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
000052410101...	OH3728	B	Consumer	7.24Y	120.7	0.00	5.32	0.00	0	0	0	100	0.00	0.0	14.471	0.038	0	0	0	0
OH3115	OH3664	B	4 ACSR 7/1	7.23Y	120.5	0.15	5.47	46.28	33	334	-29	-100	0.45	0.1	14.517	0.084	0	0	0	45
OH3684	OH3115	B	4 ACSR 7/1	7.23Y	120.5	0.02	5.49	3.62	3	26	-2	-100	0.00	0.0	14.624	0.107	0	0	0	5
OH3681	OH3684	B	4 ACSR 7/1	7.23Y	120.5	0.01	5.50	3.57	3	26	-2	-100	0.00	0.0	14.725	0.101	0	0	0	4
OH3682	OH3681	B	4 ACSR 7/1	7.23Y	120.5	0.01	5.51	2.41	2	17	-2	-99	0.00	0.0	14.797	0.072	0	0	0	3
OH3683	OH3682	B	4 ACSR 7/1	7.23Y	120.5	0.00	5.51	0.51	0	4	0	100	0.00	0.0	14.863	0.066	0	0	0	1
000052410101...	OH3683	B	Consumer	7.23Y	120.5	0.00	5.51	0.51	0	4	0	100	0.00	0.0	14.863	0.066	4	0	1	1
000052410101...	OH3682	B	Consumer	7.23Y	120.5	0.00	5.51	1.84	0	13	-1	-100	0.00	0.0	14.797	0.066	13	-1	1	1
000052410101...	OH3682	B	Consumer	7.23Y	120.5	0.00	5.51	0.05	0	0	0	100	0.00	0.0	14.797	0.066	0	0	1	1
000052410101...	OH3681	B	Consumer	7.23Y	120.5	0.00	5.50	1.17	0	8	-1	-99	0.00	0.0	14.725	0.066	8	-1	1	1
000052410101...	OH3681	B	Consumer	7.23Y	120.5	0.00	5.50	0.00	0	0	0	100	0.00	0.0	14.725	0.066	0	0	0	0
000052410101...	OH3684	B	Consumer	7.23Y	120.5	0.00	5.49	0.05	0	0	0	100	0.00	0.0	14.624	0.066	0	0	1	1
000052410101...	OH3684	B	Consumer	7.23Y	120.5	0.00	5.49	0.00	0	0	0	100	0.00	0.0	14.624	0.066	0	0	0	0
OH3665	OH3115	B	4 ACSR 7/1	7.22Y	120.3	0.25	5.72	41.39	30	298	-26	-100	0.67	0.2	14.674	0.157	0	0	0	38
OH3666	OH3665	B	4 ACSR 7/1	7.20Y	120.1	0.21	5.93	41.38	30	297	-26	-100	0.55	0.2	14.803	0.129	0	0	0	37
OH3667	OH3666	B	4 ACSR 7/1	7.19Y	119.9	0.16	6.09	38.89	28	279	-25	-100	0.38	0.1	14.905	0.102	0	0	0	36
OH3685	OH3667	B	4 ACSR 7/1	7.19Y	119.9	0.01	6.10	1.87	1	13	-1	-100	0.00	0.0	15.047	0.141	0	0	0	1
OH3686	OH3685	B	4 ACSR 7/1	7.19Y	119.9	0.00	6.10	1.87	1	13	-1	-100	0.00	0.0	15.115	0.068	0	0	0	1
000052410102...	OH3686	B	Consumer	7.19Y	119.9	0.00	6.10	1.87	0	13	-1	-100	0.00	0.0	15.115	0.068	13	-1	1	1
000052410102...	OH3685	B	Consumer	7.19Y	119.9	0.00	6.10	0.00	0	0	0	100	0.00	0.0	15.047	0.068	0	0	0	0
000052410102...	OH3685	B	Consumer	7.19Y	119.9	0.00	6.10	0.00	0	0	0	100	0.00	0.0	15.047	0.068	0	0	0	0
OH3668	OH3667	B	4 ACSR 7/1	7.19Y	119.8	0.09	6.18	33.08	24	237	-21	-100	0.19	0.1	14.977	0.072	0	0	0	32
OH3669	OH3668	B	4 ACSR 7/1	7.19Y	119.8	0.05	6.23	32.26	23	231	-21	-100	0.10	0.0	15.014	0.037	0	0	0	31
OH3670	OH3669	B	4 ACSR 7/1	7.18Y	119.7	0.07	6.30	30.53	22	218	-20	-100	0.14	0.1	15.075	0.061	0	0	0	30
OH3671	OH3670	B	4 ACSR 7/1	7.17Y	119.6	0.13	6.43	27.54	20	197	-18	-100	0.22	0.1	15.193	0.118	0	0	0	28
OH3687	OH3671	B	4 ACSR 7/1	7.17Y	119.6	0.00	6.43	0.40	0	3	0	100	0.00	0.0	15.389	0.196	0	0	0	2
OH3688	OH3687	B	4 ACSR 7/1	7.17Y	119.6	0.00	6.43	0.00	0	0	0	100	0.00	0.0	15.467	0.078	0	0	0	1
000052410102...	OH3688	B	Consumer	7.17Y	119.6	0.00	6.43	0.00	0	0	0	100	0.00	0.0	15.467	0.078	0	0	1	1
000052410102...	OH3687	B	Consumer	7.17Y	119.6	0.00	6.43	0.40	0	3	0	100	0.00	0.0	15.389	0.078	3	0	1	1
OH3672	OH3671	B	4 ACSR 7/1	7.17Y	119.5	0.12	6.55	25.28	18	181	-16	-100	0.19	0.1	15.315	0.122	0	0	0	24
OH3689	OH3672	B	4 ACSR 7/1	7.17Y	119.4	0.02	6.56	3.62	3	26	-2	-100	0.00	0.0	15.425	0.110	0	0	0	2
OH3709	OH3689	B	4 ACSR 7/1	7.17Y	119.4	0.00	6.56	0.81	1	6	-1	-99	0.00	0.0	15.466	0.041	0	0	0	1
OH3708	OH3709	B	4 ACSR 7/1	7.17Y	119.4	0.00	6.57	0.81	1	6	-1	-99	0.00	0.0	15.494	0.028	0	0	0	1
000052410102...	OH3708	B	Consumer	7.17Y	119.4	0.00	6.57	0.81	0	6	-1	-99	0.00	0.0	15.494	0.028	6	-1	1	1
000052410102...	OH3709	B	Consumer	7.17Y	119.4	0.00	6.56	0.00	0	0	0	100	0.00	0.0	15.466	0.028	0	0	0	0
000052410102...	OH3689	B	Consumer	7.17Y	119.4	0.00	6.56	2.82	0	20	-2	-100	0.00	0.0	15.425	0.028	20	-2	1	1
OH3673	OH3672	B	4 ACSR 7/1	7.16Y	119.4	0.08	6.62	19.45	14	139	-13	-100	0.10	0.1	15.417	0.102	0	0	0	19

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OH3690	OH3673	B	4 ACSR 7/1	7.16Y	119.4	0.00	6.63	0.34	0	2	0	100	0.00	0.0	15.545	0.128	0	0	0	1
OH3691	OH3690	B	4 ACSR 7/1	7.16Y	119.4	0.00	6.63	0.00	0	0	0	100	0.00	0.0	15.614	0.070	0	0	0	0
000052410102...	OH3691	B	Consumer	7.16Y	119.4	0.00	6.63	0.00	0	0	0	100	0.00	0.0	15.614	0.070	0	0	0	0
000052410102...	OH3690	B	Consumer	7.16Y	119.4	0.00	6.63	0.00	0	0	0	100	0.00	0.0	15.545	0.070	0	0	0	0
000052410102...	OH3690	B	Consumer	7.16Y	119.4	0.00	6.63	0.34	0	2	0	100	0.00	0.0	15.545	0.070	2	0	1	1
OH3674	OH3673	B	4 ACSR 7/1	7.16Y	119.3	0.07	6.70	19.12	14	136	-12	-100	0.09	0.1	15.517	0.100	0	0	0	18
OH29562	OH3674	B	4 ACSR 7/1	7.16Y	119.3	0.05	6.75	19.12	14	136	-12	-100	0.06	0.0	15.579	0.062	0	0	0	18
OH3675	OH29562	B	4 ACSR 7/1	7.15Y	119.2	0.02	6.76	17.63	13	126	-12	-100	0.02	0.0	15.604	0.025	0	0	0	17
OH3785	OH3675	B	4 ACSR 7/1	7.15Y	119.2	0.00	6.76	0.85	1	6	-1	-99	0.00	0.0	15.649	0.046	0	0	0	1
OH3692	OH3785	B	4 ACSR 7/1	7.15Y	119.2	0.00	6.76	0.00	0	0	0	100	0.00	0.0	15.742	0.092	0	0	0	0
000052410102...	OH3692	B	Consumer	7.15Y	119.2	0.00	6.76	0.00	0	0	0	100	0.00	0.0	15.742	0.092	0	0	0	0
000052410102...	OH3785	B	Consumer	7.15Y	119.2	0.00	6.76	0.85	0	6	-1	-99	0.00	0.0	15.649	0.092	6	-1	1	1
000052410102...	OH3785	B	Consumer	7.15Y	119.2	0.00	6.76	0.00	0	0	0	100	0.00	0.0	15.649	0.092	0	0	0	0
OH3676	OH3675	B	4 ACSR 7/1	7.15Y	119.2	0.07	6.84	12.91	9	92	-8	-100	0.06	0.1	15.749	0.145	0	0	0	13
OH3677	OH3676	B	4 ACSR 7/1	7.15Y	119.1	0.02	6.86	11.78	8	84	-8	-100	0.02	0.0	15.801	0.052	0	0	0	12
OH3678	OH3677	B	4 ACSR 7/1	7.15Y	119.1	0.01	6.87	7.95	6	57	-5	-100	0.01	0.0	15.848	0.046	0	0	0	10
OH3679	OH3678	B	4 ACSR 7/1	7.15Y	119.1	0.01	6.88	5.60	4	40	-4	-100	0.00	0.0	15.883	0.035	0	0	0	9
OH3798	OH3679	B	4 ACSR 7/1	7.15Y	119.1	0.01	6.89	3.41	2	24	-2	-100	0.00	0.0	15.960	0.077	0	0	0	6
OH3680	OH3798	B	4 ACSR 7/1	7.15Y	119.1	0.00	6.89	3.15	2	22	-2	-100	0.00	0.0	15.983	0.022	0	0	0	5
OH3121	OH3680	B	4 ACSR 7/1	7.15Y	119.1	0.01	6.90	1.70	1	12	-1	-100	0.00	0.0	16.099	0.116	0	0	0	3
OH3804	OH3121	B	4 ACSR 7/1	7.15Y	119.1	0.00	6.90	0.01	0	0	0	100	0.00	0.0	16.198	0.100	0	0	0	1
000052410103...	OH3804	B	Consumer	7.15Y	119.1	0.00	6.90	0.01	0	0	0	100	0.00	0.0	16.198	0.100	0	0	1	1
000052410103...	OH3121	B	Consumer	7.15Y	119.1	0.00	6.90	1.65	0	12	-1	-100	0.00	0.0	16.099	0.100	12	-1	1	1
000052410103...	OH3121	B	Consumer	7.15Y	119.1	0.00	6.90	0.04	0	0	0	100	0.00	0.0	16.099	0.100	0	0	1	1
000052410103...	OH3121	B	Consumer	7.15Y	119.1	0.00	6.90	0.00	0	0	0	100	0.00	0.0	16.099	0.100	0	0	0	0
000052410103...	OH3121	B	Consumer	7.15Y	119.1	0.00	6.90	0.00	0	0	0	100	0.00	0.0	16.099	0.100	0	0	0	0
000052410103...	OH3680	B	Consumer	7.15Y	119.1	0.00	6.89	0.61	0	4	0	100	0.00	0.0	15.983	0.100	4	0	1	1
000052410103...	OH3680	B	Consumer	7.15Y	119.1	0.00	6.89	0.85	0	6	-1	-99	0.00	0.0	15.983	0.100	6	-1	1	1
000052410103...	OH3680	B	Consumer	7.15Y	119.1	0.00	6.89	0.00	0	0	0	100	0.00	0.0	15.983	0.100	0	0	0	0
000052410103...	OH3798	B	Consumer	7.15Y	119.1	0.00	6.89	0.26	0	2	0	100	0.00	0.0	15.960	0.100	2	0	1	1
OH3693	OH3679	B	4 ACSR 7/1	7.15Y	119.1	0.00	6.89	1.49	1	11	-1	-100	0.00	0.0	15.964	0.081	0	0	0	1
000052410103...	OH3693	B	Consumer	7.15Y	119.1	0.00	6.89	0.00	0	0	0	100	0.00	0.0	15.964	0.081	0	0	0	0
000052410103...	OH3693	B	Consumer	7.15Y	119.1	0.00	6.89	1.49	0	11	-1	-100	0.00	0.0	15.964	0.081	11	-1	1	1
000052410103...	OH3679	B	Consumer	7.15Y	119.1	0.00	6.88	0.67	0	5	0	100	0.00	0.0	15.883	0.081	5	0	1	1
000052410103...	OH3679	B	Consumer	7.15Y	119.1	0.00	6.88	0.03	0	0	0	100	0.00	0.0	15.883	0.081	0	0	1	1
000052410103...	OH3678	B	Consumer	7.15Y	119.1	0.00	6.87	2.35	0	17	-2	-99	0.00	0.0	15.848	0.081	17	-2	1	1
000052410103...	OH3677	B	Consumer	7.15Y	119.1	0.00	6.86	2.87	0	20	-2	-100	0.00	0.0	15.801	0.081	20	-2	1	1
000052410102...	OH3677	B	Consumer	7.15Y	119.1	0.00	6.86	0.96	0	7	-1	-99	0.00	0.0	15.801	0.081	7	-1	1	1

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts														-----Element-----				
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
000052410102...	OH3676	B	Consumer	7.15Y	119.2	0.00	6.84	1.13	0	8	-1	-99	0.00	0.0	15.749	0.081	8	-1	1	1
000052410102...	OH3675	B	Consumer	7.15Y	119.2	0.00	6.76	0.22	0	2	0	100	0.00	0.0	15.604	0.081	2	0	1	1
000052410102...	OH3675	B	Consumer	7.15Y	119.2	0.00	6.76	2.28	0	16	-1	-100	0.00	0.0	15.604	0.081	16	-1	1	1
000052410102...	OH3675	B	Consumer	7.15Y	119.2	0.00	6.76	1.38	0	10	-1	-100	0.00	0.0	15.604	0.081	10	-1	1	1
000052410102...	OH29562	B	Consumer	7.16Y	119.3	0.00	6.75	1.49	0	11	-1	-100	0.00	0.0	15.579	0.081	11	-1	1	1
000052410102...	OH3674	B	Consumer	7.16Y	119.3	0.00	6.70	0.00	0	0	0	100	0.00	0.0	15.517	0.081	0	0	0	0
000052410102...	OH3672	B	Consumer	7.17Y	119.5	0.00	6.55	0.58	0	4	0	100	0.00	0.0	15.315	0.081	4	0	1	1
000052410102...	OH3672	B	Consumer	7.17Y	119.5	0.00	6.55	0.00	0	0	0	100	0.00	0.0	15.315	0.081	0	0	0	0
000052410102...	OH3672	B	Consumer	7.17Y	119.5	0.00	6.55	1.09	0	8	-1	-99	0.00	0.0	15.315	0.081	8	-1	1	1
000052410102...	OH3672	B	Consumer	7.17Y	119.5	0.00	6.55	0.54	0	4	0	100	0.00	0.0	15.315	0.081	4	0	1	1
000052410102...	OH3671	B	Consumer	7.17Y	119.6	0.00	6.43	0.00	0	0	0	100	0.00	0.0	15.193	0.081	0	0	0	0
000052410102...	OH3671	B	Consumer	7.17Y	119.6	0.00	6.43	0.53	0	4	0	100	0.00	0.0	15.193	0.081	4	0	1	1
000052410102...	OH3671	B	Consumer	7.17Y	119.6	0.00	6.43	1.33	0	9	-1	-99	0.00	0.0	15.193	0.081	9	-1	1	1
000052410102...	OH3670	B	Consumer	7.18Y	119.7	0.00	6.30	0.00	0	0	0	100	0.00	0.0	15.075	0.081	0	0	0	0
000052410102...	OH3670	B	Consumer	7.18Y	119.7	0.00	6.30	1.74	0	12	-1	-100	0.00	0.0	15.075	0.081	12	-1	1	1
000052410102...	OH3670	B	Consumer	7.18Y	119.7	0.00	6.30	0.00	0	0	0	100	0.00	0.0	15.075	0.081	0	0	0	0
000052410102...	OH3670	B	Consumer	7.18Y	119.7	0.00	6.30	1.25	0	9	-1	-99	0.00	0.0	15.075	0.081	9	-1	1	1
000052410102...	OH3670	B	Consumer	7.18Y	119.7	0.00	6.30	0.00	0	0	0	100	0.00	0.0	15.075	0.081	0	0	0	0
000052410102...	OH3669	B	Consumer	7.19Y	119.8	0.00	6.23	1.73	0	12	-1	-100	0.00	0.0	15.014	0.081	12	-1	1	1
000052410102...	OH3668	B	Consumer	7.19Y	119.8	0.00	6.18	0.00	0	0	0	100	0.00	0.0	14.977	0.081	0	0	0	0
000052410102...	OH3668	B	Consumer	7.19Y	119.8	0.00	6.18	0.00	0	0	0	100	0.00	0.0	14.977	0.081	0	0	0	0
000052410102...	OH3668	B	Consumer	7.19Y	119.8	0.00	6.18	0.82	0	6	-1	-99	0.00	0.0	14.977	0.081	6	-1	1	1
000052410102...	OH3667	B	Consumer	7.19Y	119.9	0.00	6.09	0.98	0	7	-1	-99	0.00	0.0	14.905	0.081	7	-1	1	1
000052410102...	OH3667	B	Consumer	7.19Y	119.9	0.00	6.09	1.07	0	8	-1	-99	0.00	0.0	14.905	0.081	8	-1	1	1
000052410102...	OH3667	B	Consumer	7.19Y	119.9	0.00	6.09	1.88	0	13	-1	-100	0.00	0.0	14.905	0.081	13	-1	1	1
000052410102...	OH3666	B	Consumer	7.20Y	120.1	0.00	5.93	0.00	0	0	0	100	0.00	0.0	14.803	0.081	0	0	0	0
000052410102...	OH3666	B	Consumer	7.20Y	120.1	0.00	5.93	2.49	0	18	-2	-99	0.00	0.0	14.803	0.081	18	-2	1	1
000052410101...	OH3665	B	Consumer	7.22Y	120.3	0.00	5.72	0.01	0	0	0	100	0.00	0.0	14.674	0.081	0	0	1	1
000052410101...	OH3665	B	Consumer	7.22Y	120.3	0.00	5.72	0.00	0	0	0	100	0.00	0.0	14.674	0.081	0	0	0	0
000052410101...	OH3115	B	Consumer	7.23Y	120.5	0.00	5.47	0.54	0	4	0	100	0.00	0.0	14.517	0.081	4	0	1	1
000052410101...	OH3115	B	Consumer	7.23Y	120.5	0.00	5.47	0.73	0	5	0	100	0.00	0.0	14.517	0.081	5	0	1	1
000052410101...	OH3664	B	Consumer	7.24Y	120.7	0.00	5.32	0.00	0	0	0	100	0.00	0.0	14.433	0.081	0	0	0	0
000052410101...	OH3664	B	Consumer	7.24Y	120.7	0.00	5.32	0.94	0	7	-1	-99	0.00	0.0	14.433	0.081	7	-1	1	1
000052410101...	OH3664	B	Consumer	7.24Y	120.7	0.00	5.32	0.00	0	0	0	100	0.00	0.0	14.433	0.081	0	0	1	1
OH3113	OH3114	A	4 ACSR 7/1	7.24Y	120.6	0.21	5.37	29.17	21	211	-13	-100	0.38	0.2	14.528	0.180	0	0	0	24
OH3651	OH3113	A	4 ACSR 7/1	7.24Y	120.6	0.01	5.38	4.33	3	31	3	100	0.00	0.0	14.593	0.065	0	0	0	4
OH3616	OH3651	A	4 ACSR 7/1	7.24Y	120.6	0.01	5.39	1.72	1	12	-1	-100	0.00	0.0	14.698	0.105	0	0	0	2

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													-----Element-----					
		-Base Voltage:120.0-													mi					
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
000052410101...	OH3616	A	Consumer	7.24Y	120.6	0.00	5.39	0.08	0	1	0	100	0.00	0.0	14.698	0.105	1	0	1	1
000052410101...	OH3616	A	Consumer	7.24Y	120.6	0.00	5.39	1.64	0	12	-1	-100	0.00	0.0	14.698	0.105	12	-1	1	1
000052410101...	OH3651	A	Consumer	7.24Y	120.6	0.00	5.38	1.52	0	10	5	89	0.00	0.0	14.593	0.105	10	5	1	1
000052410101...	OH3651	A	Consumer	7.24Y	120.6	0.00	5.38	1.24	0	9	-1	-99	0.00	0.0	14.593	0.105	9	-1	1	1
OH3650	OH3113	A	4 ACSR 7/1	7.24Y	120.6	0.00	5.37	0.91	1	7	0	100	0.00	0.0	14.589	0.061	0	0	0	2
OH3615	OH3650	A	4 ACSR 7/1	7.24Y	120.6	0.00	5.37	0.82	1	6	-1	-99	0.00	0.0	14.677	0.088	0	0	0	1
000052410101...	OH3615	A	Consumer	7.24Y	120.6	0.00	5.37	0.82	0	6	-1	-99	0.00	0.0	14.677	0.088	6	-1	1	1
000052410101...	OH3650	A	Consumer	7.24Y	120.6	0.00	5.37	0.10	0	1	0	100	0.00	0.0	14.589	0.088	1	0	1	1
OH3117	OH3113	A	4 ACSR 7/1	7.23Y	120.5	0.13	5.50	23.99	17	173	-16	-100	0.20	0.1	14.666	0.138	0	0	0	18
OH3639	OH3117	A	4 ACSR 7/1	7.23Y	120.5	0.01	5.51	3.00	2	22	-2	-100	0.00	0.0	14.766	0.100	0	0	0	3
OH3640	OH3639	A	4 ACSR 7/1	7.23Y	120.5	0.00	5.51	1.52	1	11	-1	-100	0.00	0.0	14.786	0.020	0	0	0	2
OH3641	OH3640	A	4 ACSR 7/1	7.23Y	120.5	0.00	5.51	0.93	1	7	-1	-99	0.00	0.0	14.884	0.098	0	0	0	1
OH29133	OH3641	A	4 ACSR 7/1	7.23Y	120.5	0.00	5.51	0.93	1	7	-1	-99	0.00	0.0	14.946	0.062	0	0	0	1
OH3118	OH29133	A	4 ACSR 7/1	7.23Y	120.5	0.00	5.51	0.00	0	0	0	100	0.00	0.0	15.003	0.056	0	0	0	0
000052410101...	OH3118	A	Consumer	7.23Y	120.5	0.00	5.51	0.00	0	0	0	100	0.00	0.0	15.003	0.056	0	0	0	0
000052410101...	OH29133	A	Consumer	7.23Y	120.5	0.00	5.51	0.93	0	7	-1	-99	0.00	0.0	14.946	0.056	7	-1	1	1
000052410101...	OH3641	A	Consumer	7.23Y	120.5	0.00	5.51	0.00	0	0	0	100	0.00	0.0	14.884	0.056	0	0	0	0
000052410101...	OH3641	A	Consumer	7.23Y	120.5	0.00	5.51	0.00	0	0	0	100	0.00	0.0	14.884	0.056	0	0	0	0
000052410101...	OH3640	A	Consumer	7.23Y	120.5	0.00	5.51	0.58	0	4	0	100	0.00	0.0	14.786	0.056	4	0	1	1
000052410101...	OH3640	A	Consumer	7.23Y	120.5	0.00	5.51	0.00	0	0	0	100	0.00	0.0	14.786	0.056	0	0	0	0
000052410101...	OH3639	A	Consumer	7.23Y	120.5	0.00	5.51	1.49	0	11	-1	-100	0.00	0.0	14.766	0.056	11	-1	1	1
OH3618	OH3117	A	4 ACSR 7/1	7.22Y	120.4	0.11	5.60	19.17	14	138	-13	-100	0.13	0.1	14.810	0.144	0	0	0	14
OH3632	OH3618	A	4 ACSR 7/1	7.22Y	120.4	0.04	5.64	5.15	4	37	-3	-100	0.01	0.0	14.992	0.182	0	0	0	5
OH3631	OH3632	A	4 ACSR 7/1	7.22Y	120.4	0.00	5.64	3.14	2	23	-2	-100	0.00	0.0	15.017	0.025	0	0	0	3
OH3623	OH3631	A	4 ACSR 7/1	7.22Y	120.4	0.00	5.65	2.05	1	15	-1	-100	0.00	0.0	15.060	0.043	0	0	0	2
000052410101...	OH3623	A	Consumer	7.22Y	120.4	0.00	5.65	1.17	0	8	-1	-99	0.00	0.0	15.060	0.043	8	-1	1	1
000052410101...	OH3623	A	Consumer	7.22Y	120.4	0.00	5.65	0.89	0	6	-1	-99	0.00	0.0	15.060	0.043	6	-1	1	1
000052410101...	OH3631	A	Consumer	7.22Y	120.4	0.00	5.64	1.08	0	8	-1	-99	0.00	0.0	15.017	0.043	8	-1	1	1
000052410101...	OH3632	A	Consumer	7.22Y	120.4	0.00	5.64	1.12	0	8	-1	-99	0.00	0.0	14.992	0.043	8	-1	1	1
000052410101...	OH3632	A	Consumer	7.22Y	120.4	0.00	5.64	0.90	0	6	-1	-99	0.00	0.0	14.992	0.043	6	-1	1	1
OH3624	OH3618	A	4 ACSR 7/1	7.22Y	120.4	0.02	5.63	4.41	3	32	-3	-100	0.01	0.0	14.947	0.137	0	0	0	2
OH3625	OH3624	A	4 ACSR 7/1	7.22Y	120.4	0.01	5.63	2.04	1	15	-1	-100	0.00	0.0	15.040	0.093	0	0	0	1
000052410101...	OH3625	A	Consumer	7.22Y	120.4	0.00	5.63	2.04	0	15	-1	-100	0.00	0.0	15.040	0.093	15	-1	1	1
000052410101...	OH3624	A	Consumer	7.22Y	120.4	0.00	5.63	2.36	0	17	-2	-99	0.00	0.0	14.947	0.093	17	-2	1	1
OH3619	OH3618	A	4 ACSR 7/1	7.22Y	120.4	0.04	5.64	9.61	7	69	-6	-100	0.02	0.0	14.918	0.108	0	0	0	7
OH3620	OH3619	A	4 ACSR 7/1	7.22Y	120.3	0.02	5.66	8.22	6	59	-5	-100	0.01	0.0	14.975	0.056	0	0	0	6
OH3621	OH3620	A	4 ACSR 7/1	7.22Y	120.3	0.01	5.67	4.83	3	35	-3	-100	0.00	0.0	15.036	0.062	0	0	0	4

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts											mi		-----Element-----					
		-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	kW Loss	% Loss	From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OH3622	OH3621	A	4 ACSR 7/1	7.22Y	120.3	0.00	5.67	0.00	0	0	0	100	0.00	0.0	15.120	0.084	0	0	0	1
000052410101...	OH3622	A	Consumer	7.22Y	120.3	0.00	5.67	0.00	0	0	0	100	0.00	0.0	15.120	0.084	0	0	1	1
000052410101...	OH3621	A	Consumer	7.22Y	120.3	0.00	5.67	1.27	0	9	-1	-99	0.00	0.0	15.036	0.084	9	-1	1	1
000052410101...	OH3621	A	Consumer	7.22Y	120.3	0.00	5.67	0.77	0	6	-1	-99	0.00	0.0	15.036	0.084	6	-1	1	1
000052410101...	OH3621	A	Consumer	7.22Y	120.3	0.00	5.67	2.79	0	20	-2	-100	0.00	0.0	15.036	0.084	20	-2	1	1
000052410101...	OH3621	A	Consumer	7.22Y	120.3	0.00	5.67	0.00	0	0	0	100	0.00	0.0	15.036	0.084	0	0	0	0
OH3119	OH3620	A	4 ACSR 7/1	7.22Y	120.3	0.01	5.67	3.39	2	24	-2	-100	0.00	0.0	15.016	0.041	0	0	0	2
000052410101...	OH3119	A	Consumer	7.22Y	120.3	0.00	5.67	1.36	0	10	-1	-100	0.00	0.0	15.016	0.041	10	-1	1	1
000052410101...	OH3119	A	Consumer	7.22Y	120.3	0.00	5.67	2.03	0	15	-1	-100	0.00	0.0	15.016	0.041	15	-1	1	1
000052410101...	OH3619	A	Consumer	7.22Y	120.4	0.00	5.64	1.39	0	10	-1	-100	0.00	0.0	14.918	0.041	10	-1	1	1
000052410101...	OH3618	A	Consumer	7.22Y	120.4	0.00	5.60	0.00	0	0	0	100	0.00	0.0	14.810	0.041	0	0	0	0
000052410101...	OH3618	A	Consumer	7.22Y	120.4	0.00	5.60	0.00	0	0	0	100	0.00	0.0	14.810	0.041	0	0	0	0
000052410101...	OH3618	A	Consumer	7.22Y	120.4	0.00	5.60	0.00	0	0	0	100	0.00	0.0	14.810	0.041	0	0	0	0
000052410101...	OH3117	A	Consumer	7.23Y	120.5	0.00	5.50	1.82	0	13	-1	-100	0.00	0.0	14.666	0.041	13	-1	1	1
000052410101...	OH3114	B	Consumer	7.25Y	120.8	0.00	5.16	0.28	0	2	1	89	0.00	0.0	14.348	0.041	2	1	1	1
000052410101...	OH3114	B	Consumer	7.25Y	120.8	0.00	5.16	1.45	0	10	-1	-100	0.00	0.0	14.348	0.041	10	-1	1	1
000052410101...	OH3114	B	Consumer	7.25Y	120.8	0.00	5.16	0.00	0	0	0	100	0.00	0.0	14.348	0.041	0	0	0	0
000052410101...	OH3564	A	Consumer	7.25Y	120.9	0.00	5.09	0.98	0	7	-1	-99	0.00	0.0	14.230	0.041	7	-1	1	1
000052410101...	OH3563	A	Consumer	7.26Y	120.9	0.00	5.06	0.00	0	0	0	100	0.00	0.0	14.189	0.041	0	0	0	0
000052410101...	OH3561	A	Consumer	7.26Y	121.0	0.00	4.96	0.00	0	0	0	100	0.00	0.0	14.020	0.041	0	0	0	0
000052410101...	OH3561	A	Consumer	7.26Y	121.0	0.00	4.96	0.00	0	0	0	100	0.00	0.0	14.020	0.041	0	0	0	0
000052410101...	OH3561	A	Consumer	7.26Y	121.0	0.00	4.96	0.00	0	0	0	100	0.00	0.0	14.020	0.041	0	0	0	0
000052410101...	OH3560	A	Consumer	7.27Y	121.1	0.00	4.90	0.00	0	0	0	100	0.00	0.0	13.905	0.041	0	0	0	0
000052410101...	OH3559	A	Consumer	7.27Y	121.2	0.00	4.85	0.00	0	0	0	100	0.00	0.0	13.824	0.041	0	0	0	0
000052410101...	OH3556	A	Consumer	7.28Y	121.3	0.00	4.70	0.00	0	0	0	100	0.00	0.0	13.580	0.041	0	0	0	0
000052410101...	OH3556	A	Consumer	7.28Y	121.3	0.00	4.70	0.00	0	0	0	100	0.00	0.0	13.580	0.041	0	0	0	0
000052410101...	OH3553	A	Consumer	7.28Y	121.3	0.00	4.65	0.00	0	0	0	100	0.00	0.0	13.501	0.041	0	0	0	0
000052410101...	OH3584	A	Consumer	7.28Y	121.4	0.00	4.63	0.00	0	0	0	100	0.00	0.0	13.471	0.041	0	0	0	0
000052410101...	OH3584	A	Consumer	7.28Y	121.4	0.00	4.63	0.00	0	0	0	100	0.00	0.0	13.471	0.041	0	0	0	0
000052400001...	OH3125	A	Consumer	7.30Y	121.6	0.00	4.37	0.00	0	0	0	100	0.00	0.0	13.067	0.041	0	0	0	0
000052400000...	OH3552	A	Consumer	7.33Y	122.1	0.00	3.88	0.00	0	0	0	100	0.00	0.0	12.476	0.041	0	0	0	0
000052400000...	OH3550	A	Consumer	7.36Y	122.6	0.00	3.41	0.00	0	0	0	100	0.00	0.0	11.930	0.041	0	0	0	0
000052400000...	OH3550	A	Consumer	7.36Y	122.6	0.00	3.41	0.00	0	0	0	100	0.00	0.0	11.930	0.041	0	0	0	0
000052400000...	OH3549	A	Consumer	7.38Y	123.0	0.00	3.05	0.00	0	0	0	100	0.00	0.0	11.500	0.041	0	0	0	0
OH4661	OH3567	C	4 ACSR 7/1	7.39Y	123.2	0.06	2.83	24.51	18	181	-11	-100	0.09	0.0	11.242	0.060	0	0	0	29
OH1405_6	OH4661	C	4 ACSR 7/1	7.39Y	123.1	0.07	2.90	21.45	15	158	-9	-100	0.09	0.1	11.323	0.081	0	0	0	26
OH1590	OH1405_6	C	4 ACSR 7/1	7.39Y	123.1	0.00	2.90	0.10	0	1	0	100	0.00	0.0	11.421	0.098	0	0	0	2
000052400000...	OH1590	C	Consumer	7.39Y	123.1	0.00	2.90	0.05	0	0	0	100	0.00	0.0	11.421	0.098	0	0	1	1

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
000052400000...	OH1590	C	Consumer	7.39Y	123.1	0.00	2.90	0.05	0	0	0	100	0.00	0.0	11.421	0.098	0	0	1	1
OH1589	OH1405_6	C	4 ACSR 7/1	7.38Y	123.1	0.04	2.94	21.35	15	157	-9	-100	0.06	0.0	11.374	0.051	0	0	0	24
OH1431_6	OH1589	C	4 ACSR 7/1	7.37Y	122.8	0.21	3.15	21.35	15	157	-9	-100	0.28	0.2	11.621	0.246	0	0	0	24
OH1404_6	OH1431_6	C	4 ACSR 7/1	7.36Y	122.7	0.11	3.26	21.35	15	157	-9	-100	0.15	0.1	11.749	0.128	0	0	0	24
999052400001...	OH1404_6	C	Consumer	7.36Y	122.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	11.749	0.128	0	0	0	0
OH1432_6	OH1404_6	C	4 ACSR 7/1	7.36Y	122.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	12.042	0.293	0	0	0	0
OH1433_6	OH1432_6	C	4 ACSR 7/1	7.36Y	122.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	12.243	0.201	0	0	0	0
000052400001...	OH1433_6	C	Consumer	7.36Y	122.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	12.243	0.201	0	0	0	0
OH1403_6	OH1432_6	C	4 ACSR 7/1	7.36Y	122.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	12.125	0.083	0	0	0	0
000052400001...	OH1403_6	C	Consumer	7.36Y	122.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	12.125	0.083	0	0	0	0
000052400001...	OH1403_6	C	Consumer	7.36Y	122.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	12.125	0.083	0	0	0	0
000052400001...	OH1403_6	C	Consumer	7.36Y	122.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	12.125	0.083	0	0	0	0
OH1402_6	OH1404_6	C	4 ACSR 7/1	7.36Y	122.6	0.15	3.41	21.35	15	157	-9	-100	0.20	0.1	11.922	0.173	0	0	0	23
OH1401_6	OH1402_6	C	4 ACSR 7/1	7.35Y	122.6	0.03	3.44	19.28	14	142	-8	-100	0.04	0.0	11.964	0.042	0	0	0	21
OH1430_6	OH1401_6	C	4 ACSR 7/1	7.35Y	122.5	0.03	3.47	19.28	14	142	-8	-100	0.04	0.0	12.004	0.040	0	0	0	21
OH1429_6	OH1430_6	C	4 ACSR 7/1	7.34Y	122.4	0.12	3.60	18.44	13	135	-7	-100	0.14	0.1	12.171	0.167	0	0	0	19
999052400001...	OH1429_6	C	Consumer	7.34Y	122.4	0.00	3.60	1.46	0	11	-1	-100	0.00	0.0	12.171	0.167	11	-1	1	1
OH1400_6	OH1429_6	C	4 ACSR 7/1	7.34Y	122.3	0.05	3.65	16.45	12	121	-6	-100	0.06	0.0	12.255	0.083	0	0	0	17
OH1572_6	OH1400_6	C	4 ACSR 7/1	7.34Y	122.3	0.03	3.68	11.36	8	83	-5	-100	0.02	0.0	12.321	0.067	0	0	0	12
OH1445_6	OH1572_6	C	4 ACSR 7/1	7.33Y	122.2	0.07	3.75	7.46	5	55	-2	-100	0.03	0.1	12.560	0.239	0	0	0	9
OH1444_6	OH1445_6	C	4 ACSR 7/1	7.33Y	122.2	0.03	3.78	6.83	5	50	-2	-100	0.01	0.0	12.671	0.111	0	0	0	8
OH1449_6	OH1444_6	C	4 ACSR 7/1	7.33Y	122.2	0.02	3.80	6.83	5	50	-2	-100	0.01	0.0	12.742	0.071	0	0	0	8
OH1435_6	OH1449_6	C	4 ACSR 7/1	7.33Y	122.1	0.06	3.86	6.83	5	50	-2	-100	0.02	0.0	12.947	0.204	0	0	0	8
OH1539_6	OH1435_6	C	4 ACSR 7/1	7.33Y	122.1	0.02	3.88	6.13	4	45	-4	-100	0.01	0.0	13.047	0.100	0	0	0	6
OH1451_6	OH1539_6	C	4 ACSR 7/1	7.32Y	122.1	0.04	3.93	6.13	4	45	-4	-100	0.02	0.0	13.234	0.187	0	0	0	6
OH29112	OH1451_6	C	4 ACSR 7/1	7.32Y	122.0	0.03	3.96	4.00	3	29	-3	-99	0.01	0.0	13.436	0.202	0	0	0	3
OH1452_6	OH29112	C	4 ACSR 7/1	7.32Y	122.0	0.02	3.98	4.00	3	29	-3	-99	0.00	0.0	13.559	0.123	0	0	0	3
000052400002...	OH1452_6	C	Consumer	7.32Y	122.0	0.00	3.98	1.73	0	13	-1	-100	0.00	0.0	13.559	0.123	13	-1	1	1
000052400002...	OH1452_6	C	Consumer	7.32Y	122.0	0.00	3.98	0.96	0	7	-1	-99	0.00	0.0	13.559	0.123	7	-1	1	1
000052400002...	OH1452_6	C	Consumer	7.32Y	122.0	0.00	3.98	1.31	0	10	-1	-100	0.00	0.0	13.559	0.123	10	-1	1	1
000052400002...	OH29112	C	Consumer	7.32Y	122.0	0.00	3.96	0.00	0	0	0	100	0.00	0.0	13.436	0.123	0	0	0	0
000052400002...	OH1451_6	C	Consumer	7.32Y	122.1	0.00	3.93	0.12	0	1	0	100	0.00	0.0	13.234	0.123	1	0	1	1
000052400002...	OH1451_6	C	Consumer	7.32Y	122.1	0.00	3.93	1.58	0	12	-1	-100	0.00	0.0	13.234	0.123	12	-1	1	1
000052400002...	OH1451_6	C	Consumer	7.32Y	122.1	0.00	3.93	0.42	0	3	0	100	0.00	0.0	13.234	0.123	3	0	1	1
000052400002...	OH1539_6	C	Consumer	7.33Y	122.1	0.00	3.88	0.00	0	0	0	100	0.00	0.0	13.047	0.123	0	0	0	0
OH1436_6	OH1435_6	C	4 ACSR 7/1	7.33Y	122.1	0.01	3.87	0.80	1	5	3	86	0.00	0.0	13.106	0.159	0	0	0	2
OH1437_6	OH1436_6	C	4 ACSR 7/1	7.33Y	122.1	0.01	3.88	0.80	1	5	3	86	0.00	0.0	13.405	0.299	0	0	0	2

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													-----Element-----					
		-Base Voltage:120.0-													mi				Cons Cons	
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	On	Thru
OH1438_6	OH1437	C	4 ACSR 7/1	7.33Y	122.1	0.00	3.88	0.02	0	0	0	100	0.00	0.0	13.491	0.085	0	0	0	1
000052400002...	OH1438_6	C	Consumer	7.33Y	122.1	0.00	3.88	0.02	0	0	0	100	0.00	0.0	13.491	0.085	0	0	1	1
000052400002...	OH1437_6	C	Consumer	7.33Y	122.1	0.00	3.88	0.78	0	5	2	93	0.00	0.0	13.405	0.085	5	2	1	1
000052400002...	OH1436_6	C	Consumer	7.33Y	122.1	0.00	3.87	0.00	0	0	0	100	0.00	0.0	13.106	0.085	0	0	0	0
OH1434_6	OH1435_6	C	4 ACSR 7/1	7.33Y	122.1	0.00	3.86	0.00	0	0	0	100	0.00	0.0	13.239	0.292	0	0	0	0
000052400002...	OH1434_6	C	Consumer	7.33Y	122.1	0.00	3.86	0.00	0	0	0	100	0.00	0.0	13.239	0.292	0	0	0	0
000052400002...	OH1435_6	C	Consumer	7.33Y	122.1	0.00	3.86	0.00	0	0	0	100	0.00	0.0	12.947	0.292	0	0	0	0
000052400002...	OH1435_6	C	Consumer	7.33Y	122.1	0.00	3.86	0.00	0	0	0	100	0.00	0.0	12.947	0.292	0	0	0	0
OH1447_6	OH1444_6	C	4 ACSR 7/1	7.33Y	122.2	0.00	3.78	0.00	0	0	0	100	0.00	0.0	12.838	0.167	0	0	0	0
000052400002...	OH1447_6	C	Consumer	7.33Y	122.2	0.00	3.78	0.00	0	0	0	100	0.00	0.0	12.838	0.167	0	0	0	0
000052400002...	OH1445_6	C	Consumer	7.33Y	122.2	0.00	3.75	0.64	0	5	0	100	0.00	0.0	12.560	0.167	5	0	1	1
000052400001...	OH1572_6	C	Consumer	7.34Y	122.3	0.00	3.68	1.81	0	13	-1	-100	0.00	0.0	12.321	0.167	13	-1	1	1
000052400001...	OH1572_6	C	Consumer	7.34Y	122.3	0.00	3.68	1.11	0	8	-1	-99	0.00	0.0	12.321	0.167	8	-1	1	1
000052400001...	OH1572_6	C	Consumer	7.34Y	122.3	0.00	3.68	0.98	0	7	-1	-99	0.00	0.0	12.321	0.167	7	-1	1	1
OH1428_6	OH1400_6	C	4 ACSR 7/1	7.34Y	122.3	0.03	3.68	5.09	4	37	-2	-100	0.01	0.0	12.410	0.155	0	0	0	5
OH1426_6	OH1428_6	C	4 ACSR 7/1	7.34Y	122.3	0.02	3.70	3.47	2	25	-2	-100	0.00	0.0	12.531	0.121	0	0	0	1
000052400002...	OH1426_6	C	Consumer	7.34Y	122.3	0.00	3.70	3.47	0	25	-2	-100	0.00	0.0	12.531	0.121	25	-2	1	1
000052400002...	OH1426_6	C	Consumer	7.34Y	122.3	0.00	3.70	0.00	0	0	0	100	0.00	0.0	12.531	0.121	0	0	0	0
000052400002...	OH1426_6	C	Consumer	7.34Y	122.3	0.00	3.70	0.00	0	0	0	100	0.00	0.0	12.531	0.121	0	0	0	0
OH1399_6	OH1428_6	C	4 ACSR 7/1	7.34Y	122.3	0.01	3.69	1.29	1	9	1	99	0.00	0.0	12.525	0.115	0	0	0	3
OH1548	OH1399_6	C	4 ACSR 7/1	7.34Y	122.3	0.00	3.69	0.82	1	6	-1	-99	0.00	0.0	12.654	0.129	0	0	0	1
OH29551	OH1548	C	4 ACSR 7/1	7.34Y	122.3	0.00	3.70	0.82	1	6	-1	-99	0.00	0.0	12.786	0.131	0	0	0	1
OH1549_6	OH29551	C	4 ACSR 7/1	7.34Y	122.3	0.00	3.70	0.00	0	0	0	100	0.00	0.0	12.963	0.177	0	0	0	0
000052400002...	OH1549_6	C	Consumer	7.34Y	122.3	0.00	3.70	0.00	0	0	0	100	0.00	0.0	12.963	0.177	0	0	0	0
000052400002...	OH29551	C	Consumer	7.34Y	122.3	0.00	3.70	0.82	0	6	-1	-99	0.00	0.0	12.786	0.177	6	-1	1	1
000052400002...	OH1548	C	Consumer	7.34Y	122.3	0.00	3.69	0.00	0	0	0	100	0.00	0.0	12.654	0.177	0	0	0	0
000052400002...	OH1548	C	Consumer	7.34Y	122.3	0.00	3.69	0.00	0	0	0	100	0.00	0.0	12.805	0.279	0	0	0	1
OH1547	OH1399_6	C	4 ACSR 7/1	7.34Y	122.3	0.01	3.70	0.47	0	3	2	83	0.00	0.0	12.896	0.091	0	0	0	1
OH1427_6	OH1547	C	4 ACSR 7/1	7.34Y	122.3	0.00	3.70	0.47	0	3	2	83	0.00	0.0	12.896	0.091	0	0	0	1
000052400001...	OH1427_6	C	Consumer	7.34Y	122.3	0.00	3.70	0.47	0	3	2	83	0.00	0.0	12.896	0.091	3	2	1	1
OH1425_6	OH1547	C	4 ACSR 7/1	7.34Y	122.3	0.00	3.70	0.00	0	0	0	100	0.00	0.0	12.866	0.061	0	0	0	0
OH1395_6	OH1425_6	C	4 ACSR 7/1	7.34Y	122.3	0.00	3.70	0.00	0	0	0	100	0.00	0.0	13.488	0.622	0	0	0	0
000052400001...	OH1395_6	C	Consumer	7.34Y	122.3	0.00	3.70	0.00	0	0	0	100	0.00	0.0	13.488	0.622	0	0	0	0
000052400001...	OH1395_6	C	Consumer	7.34Y	122.3	0.00	3.70	0.00	0	0	0	100	0.00	0.0	12.866	0.622	0	0	0	0
NODE4662	OH1425_6	C	Node	7.34Y	122.3	0.00	3.70	0.00	0	0	0	100	0.00	0.0	12.525	0.622	0	0	0	0
000052400001...	OH1399_6	C	Consumer	7.34Y	122.3	0.00	3.69	0.00	0	0	0	100	0.00	0.0	12.525	0.622	0	0	0	0
000052400001...	OH1399_6	C	Consumer	7.34Y	122.3	0.00	3.69	0.05	0	0	0	100	0.00	0.0	12.525	0.622	0	0	1	1
000052400001...	OH1428_6	C	Consumer	7.34Y	122.3	0.00	3.68	0.35	0	3	0	100	0.00	0.0	12.410	0.622	3	0	1	1
000052400001...	OH1429_6	C	Consumer	7.34Y	122.4	0.00	3.60	0.53	0	4	0	100	0.00	0.0	12.171	0.622	4	0	1	1
000052400001...	OH1430_6	C	Consumer	7.35Y	122.5	0.00	3.47	0.58	0	4	0	100	0.00	0.0	12.004	0.622	4	0	1	1

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
000052400001...	OH1430_6	C	Consumer	7.35Y	122.5	0.00	3.47	0.00	0	0	0	100	0.00	0.0	12.004	0.622	0	0	0	0
000052400001...	OH1430_6	C	Consumer	7.35Y	122.5	0.00	3.47	0.25	0	2	0	100	0.00	0.0	12.004	0.622	2	0	1	1
000052400001...	OH1401_6	C	Consumer	7.35Y	122.6	0.00	3.44	0.00	0	0	0	100	0.00	0.0	11.964	0.622	0	0	0	0
000052400001...	OH1402_6	C	Consumer	7.36Y	122.6	0.00	3.41	0.52	0	4	0	100	0.00	0.0	11.922	0.622	4	0	1	1
000052400001...	OH1402_6	C	Consumer	7.36Y	122.6	0.00	3.41	1.55	0	11	-1	-100	0.00	0.0	11.922	0.622	11	-1	1	1
000052400001...	OH1404_6	C	Consumer	7.36Y	122.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	11.749	0.622	0	0	1	1
000052400001...	OH1431_6	C	Consumer	7.37Y	122.8	0.00	3.15	0.00	0	0	0	100	0.00	0.0	11.621	0.622	0	0	0	0
000052400001...	OH1431_6	C	Consumer	7.37Y	122.8	0.00	3.15	0.00	0	0	0	100	0.00	0.0	11.621	0.622	0	0	0	0
000052400001...	OH1589	C	Consumer	7.38Y	123.1	0.00	2.94	0.00	0	0	0	100	0.00	0.0	11.374	0.622	0	0	0	0
000052400001...	OH1589	C	Consumer	7.38Y	123.1	0.00	2.94	0.00	0	0	0	100	0.00	0.0	11.374	0.622	0	0	0	0
000052400000...	OH1589	C	Consumer	7.38Y	123.1	0.00	2.94	0.00	0	0	0	100	0.00	0.0	11.374	0.622	0	0	0	0
000052400000...	OH4661	C	Consumer	7.39Y	123.2	0.00	2.83	0.12	0	1	0	100	0.00	0.0	11.242	0.622	1	0	1	1
000052400000...	OH4661	C	Consumer	7.39Y	123.2	0.00	2.83	2.35	0	17	-2	-99	0.00	0.0	11.242	0.622	17	-2	1	1
000052400000...	OH4661	C	Consumer	7.39Y	123.2	0.00	2.83	0.60	0	4	0	100	0.00	0.0	11.242	0.622	4	0	1	1
000052400000...	OH3447	A	Consumer	7.40Y	123.4	0.00	2.65	0.00	0	0	0	100	0.00	0.0	10.981	0.622	0	0	0	0
000052400000...	OH3442	C	Consumer	7.41Y	123.4	0.00	2.58	0.01	0	0	0	100	0.00	0.0	10.881	0.622	0	0	1	1
000052400000...	OH3442	C	Consumer	7.41Y	123.4	0.00	2.58	0.52	0	3	2	83	0.00	0.0	10.881	0.622	3	2	1	1
000052400000...	OH3442	C	Consumer	7.41Y	123.4	0.00	2.58	0.84	0	6	-1	-99	0.00	0.0	10.881	0.622	6	-1	1	1
000052400000...	OH3441	C	Consumer	7.41Y	123.6	0.00	2.44	0.13	0	1	0	100	0.00	0.0	10.657	0.622	1	0	1	1
000052400000...	OH3441	C	Consumer	7.41Y	123.6	0.00	2.44	0.00	0	0	0	100	0.00	0.0	10.657	0.622	0	0	0	0
000052400000...	OH3441	C	Consumer	7.41Y	123.6	0.00	2.44	0.00	0	0	0	100	0.00	0.0	10.657	0.622	0	0	0	0
000052400000...	OH3448	C	Consumer	7.42Y	123.6	0.00	2.40	0.37	0	3	0	100	0.00	0.0	10.593	0.622	3	0	1	1
000051810109...	OH3214	A	Consumer	7.42Y	123.7	0.00	2.34	0.00	0	0	0	100	0.00	0.0	10.504	0.622	0	0	0	0
OH29547	OH3452	C	1/0 ACSR	7.42Y	123.7	0.00	2.30	0.88	0	7	-1	-99	0.00	0.0	10.601	0.172	0	0	0	1
000052400000...	OH29547	C	Consumer	7.42Y	123.7	0.00	2.30	0.88	0	7	-1	-99	0.00	0.0	10.601	0.172	7	-1	1	1
000051810109...	OH3197	C	Consumer	7.42Y	123.7	0.00	2.27	0.10	0	1	0	100	0.00	0.0	10.386	0.172	1	0	1	1
000051810109...	OH3197	C	Consumer	7.42Y	123.7	0.00	2.27	1.06	0	8	-1	-99	0.00	0.0	10.386	0.172	8	-1	1	1
OH2779	OH2777	ABC	4 ACSR 7/1	7.42Y	123.7	0.05	2.26	11.96	9	266	-5	-100	0.10	0.0	10.408	0.104	0	0	0	34
000051810109...	OH2779	A	Consumer	7.42Y	123.7	0.00	2.26	0.00	0	0	0	100	0.00	0.0	10.408	0.104	0	0	0	0
OH3156	OH2779	ABC	4 ACSR 7/1	7.42Y	123.7	0.01	2.27	11.96	9	266	-5	-100	0.02	0.0	10.430	0.022	0	0	0	34
OH2780	OH3156	ABC	4 ACSR 7/1	7.42Y	123.7	0.07	2.34	11.96	9	266	-5	-100	0.15	0.1	10.585	0.156	0	0	0	34
OH3107	OH2780	A	4 ACSR 7/1	7.42Y	123.7	0.00	2.34	0.00	0	0	0	100	0.00	0.0	10.663	0.078	0	0	0	0
000051810109...	OH3107	A	Consumer	7.42Y	123.7	0.00	2.34	0.00	0	0	0	100	0.00	0.0	10.663	0.078	0	0	0	0
OH2781	OH2780	ABC	4 ACSR 7/1	7.42Y	123.6	0.02	2.36	11.95	9	266	-5	-100	0.05	0.0	10.637	0.051	0	0	0	33
OH3158	OH2781	ABC	4 ACSR 7/1	7.41Y	123.6	0.07	2.43	11.95	9	266	-5	-100	0.16	0.1	10.804	0.167	0	0	0	32
OH2782	OH3158	ABC	4 ACSR 7/1	7.41Y	123.5	0.07	2.50	11.79	8	262	-5	-100	0.15	0.1	10.967	0.163	0	0	0	31
OH3404	OH2782	A	4 ACSR 7/1	7.41Y	123.5	0.00	2.50	0.00	0	0	0	100	0.00	0.0	11.087	0.120	0	0	0	0

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts											mi		-----Element-----					
		-Base Voltage:120.0-											From	Length			Cons	Cons		
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	Src	(mi)	KW	KVAR	On	Thru
OH3403	OH3404	A	4 ACSR 7/1	7.41Y	123.5	0.00	2.50	0.00	0	0	0	100	0.00	0.0	11.165	0.078	0	0	0	0
000051800008...	OH3403	A	Consumer	7.41Y	123.5	0.00	2.50	0.00	0	0	0	100	0.00	0.0	11.165	0.078	0	0	0	0
000051800008...	OH3404	A	Consumer	7.41Y	123.5	0.00	2.50	0.00	0	0	0	100	0.00	0.0	11.087	0.078	0	0	0	0
OH3217	OH2782	ABC	4 ACSR 7/1	7.40Y	123.3	0.16	2.66	11.79	8	262	-5	-100	0.34	0.1	11.330	0.364	0	0	0	31
OH3222	OH3217	ABC	4 ACSR 7/1	7.39Y	123.2	0.09	2.75	11.79	8	262	-5	-100	0.20	0.1	11.541	0.211	0	0	0	31
OH3227	OH3222	ABC	4 ACSR 7/1	7.39Y	123.2	0.05	2.80	11.79	8	261	-5	-100	0.11	0.0	11.656	0.115	0	0	0	31
OH3230	OH3227	A	4 ACSR 7/1	7.39Y	123.2	0.00	2.80	0.00	0	0	0	100	0.00	0.0	12.059	0.403	0	0	0	1
OH3398	OH3230	A	4 ACSR 7/1	7.39Y	123.2	0.00	2.80	0.00	0	0	0	100	0.00	0.0	12.186	0.127	0	0	0	1
000051800008...	OH3398	A	Consumer	7.39Y	123.2	0.00	2.80	0.00	0	0	0	100	0.00	0.0	12.186	0.127	0	0	0	0
000051800008...	OH3398	A	Consumer	7.39Y	123.2	0.00	2.80	0.00	0	0	0	100	0.00	0.0	12.186	0.127	0	0	1	1
OH3231	OH3230	A	4 ACSR 7/1	7.39Y	123.2	0.00	2.80	0.00	0	0	0	100	0.00	0.0	12.385	0.326	0	0	0	0
OH3232	OH3231	A	4 ACSR 7/1	7.39Y	123.2	0.00	2.80	0.00	0	0	0	100	0.00	0.0	12.528	0.143	0	0	0	0
OH3233	OH3232	A	4 ACSR 7/1	7.39Y	123.2	0.00	2.80	0.00	0	0	0	100	0.00	0.0	12.638	0.110	0	0	0	0
000051800008...	OH3233	A	Consumer	7.39Y	123.2	0.00	2.80	0.00	0	0	0	100	0.00	0.0	12.638	0.110	0	0	0	0
000051800008...	OH3231	A	Consumer	7.39Y	123.2	0.00	2.80	0.00	0	0	0	100	0.00	0.0	12.385	0.110	0	0	0	0
OH3228	OH3227	ABC	4 ACSR 7/1	7.39Y	123.2	0.00	2.81	0.75	1	16	3	98	0.00	0.0	11.794	0.137	0	0	0	4
OH3241	OH3228	ABC	4 ACSR 7/1	7.39Y	123.2	0.00	2.81	0.01	0	0	0	100	0.00	0.0	11.868	0.075	0	0	0	1
OH3229	OH3241	C	4 ACSR 7/1	7.39Y	123.2	0.00	2.81	0.00	0	0	0	100	0.00	0.0	11.926	0.058	0	0	0	0
000051810108...	OH3229	C	Consumer	7.39Y	123.2	0.00	2.81	0.00	0	0	0	100	0.00	0.0	11.926	0.058	0	0	0	0
000051810108...	OH3241	ABC	Consumer	7.39Y	123.2	0.00	2.81	0.01	0	0	0	100	0.00	0.0	11.868	0.058	0	0	1	1
000051810108...	OH3228	C	Consumer	7.39Y	123.2	0.00	2.81	1.28	0	9	-1	-99	0.00	0.0	11.794	0.058	9	-1	1	1
000051810108...	OH3228	C	Consumer	7.39Y	123.2	0.00	2.81	0.84	0	6	3	89	0.00	0.0	11.794	0.058	6	3	1	1
000051810108...	OH3228	ABC	Consumer	7.39Y	123.2	0.00	2.81	0.06	0	1	1	71	0.00	0.0	11.794	0.058	1	1	1	1
OCR-1015	OH3227	A	35-H OCR	7.39Y	123.2	0.00	2.80	33.16	0	245	-8	-100	0.00	0.0	11.656	0.058	0	0	0	26
OH3226	OCR-1015	A	4 ACSR 7/1	7.37Y	122.8	0.43	3.23	33.16	24	245	-8	-100	0.87	0.4	11.974	0.318	0	0	0	26
OH3413	OH3226	A	4 ACSR 7/1	7.34Y	122.3	0.48	3.71	33.16	24	244	-8	-100	0.97	0.4	12.331	0.356	0	0	0	26
OH3481	OH3413	A	4 ACSR 7/1	7.34Y	122.3	0.00	3.71	0.00	0	0	0	100	0.00	0.0	12.427	0.096	0	0	0	0
000051800008...	OH3481	A	Consumer	7.34Y	122.3	0.00	3.71	0.00	0	0	0	100	0.00	0.0	12.427	0.096	0	0	0	0
OH3416	OH3413	A	4 ACSR 7/1	7.34Y	122.3	0.04	3.75	33.16	24	243	-9	-100	0.08	0.0	12.359	0.029	0	0	0	26
OH3414	OH3416	A	4 ACSR 7/1	7.33Y	122.2	0.09	3.84	32.82	23	241	-9	-100	0.19	0.1	12.429	0.070	0	0	0	25
OH3415	OH3414	A	4 ACSR 7/1	7.33Y	122.1	0.07	3.91	31.53	23	231	-8	-100	0.14	0.1	12.486	0.057	0	0	0	24
OH3491	OH3415	A	4 ACSR 7/1	7.31Y	121.8	0.25	4.17	31.28	22	229	-8	-100	0.49	0.2	12.687	0.201	0	0	0	23
OH3417	OH3491	A	4 ACSR 7/1	7.29Y	121.6	0.27	4.44	30.49	22	223	-8	-100	0.50	0.2	12.905	0.218	0	0	0	22
OH3418	OH3417	A	4 ACSR 7/1	7.29Y	121.5	0.04	4.48	28.49	20	208	-7	-100	0.07	0.0	12.939	0.034	0	0	0	20
OH3424	OH3418	A	4 ACSR 7/1	7.29Y	121.5	0.00	4.48	0.39	0	3	0	100	0.00	0.0	13.047	0.107	0	0	0	1
000051800007...	OH3424	A	Consumer	7.29Y	121.5	0.00	4.48	0.39	0	3	0	100	0.00	0.0	13.047	0.107	3	0	1	1
OH3420	OH3418	A	4 ACSR 7/1	7.29Y	121.4	0.08	4.56	28.10	20	205	-6	-100	0.14	0.1	13.013	0.074	0	0	0	19

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts														-----Element-----				
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OH3425	OH3420	A	4 ACSR 7/1	7.29Y	121.4	0.01	4.57	2.33	2	17	-2	-99	0.00	0.0	13.088	0.075	0	0	0	2
000051800007...	OH3425	A	Consumer	7.29Y	121.4	0.00	4.57	0.98	0	7	-1	-99	0.00	0.0	13.088	0.075	7	-1	1	1
000051800007...	OH3425	A	Consumer	7.29Y	121.4	0.00	4.57	1.35	0	10	-1	-100	0.00	0.0	13.088	0.075	10	-1	1	1
OH3419	OH3420	A	4 ACSR 7/1	7.28Y	121.3	0.10	4.66	25.77	18	188	-5	-100	0.15	0.1	13.105	0.092	0	0	0	17
OH3474	OH3419	A	4 ACSR 7/1	7.28Y	121.3	0.01	4.67	3.60	3	24	9	94	0.00	0.0	13.187	0.081	0	0	0	2
OH3473	OH3474	A	4 ACSR 7/1	7.28Y	121.3	0.02	4.70	3.60	3	24	9	94	0.00	0.0	13.325	0.138	0	0	0	2
000051800007...	OH3473	A	Consumer	7.28Y	121.3	0.00	4.70	0.00	0	0	0	100	0.00	0.0	13.325	0.138	0	0	0	0
OH3421	OH3473	A	4 ACSR 7/1	7.28Y	121.3	0.03	4.72	3.09	2	20	10	89	0.00	0.0	13.503	0.178	0	0	0	1
000051800007...	OH3421	A	Consumer	7.28Y	121.3	0.00	4.72	3.09	0	20	10	89	0.00	0.0	13.503	0.178	20	10	1	1
000051800007...	OH3473	A	Consumer	7.28Y	121.3	0.00	4.70	0.57	0	4	0	100	0.00	0.0	13.325	0.178	4	0	1	1
000051800007...	OH3474	A	Consumer	7.28Y	121.3	0.00	4.67	0.00	0	0	0	100	0.00	0.0	13.187	0.178	0	0	0	0
OH3426	OH3419	A	4 ACSR 7/1	7.27Y	121.2	0.18	4.84	20.19	14	146	-13	-100	0.24	0.2	13.338	0.233	0	0	0	13
OH3466	OH3426	A	4 ACSR 7/1	7.27Y	121.2	0.00	4.84	0.00	0	0	0	100	0.00	0.0	13.458	0.119	0	0	0	0
000051800007...	OH3466	A	Consumer	7.27Y	121.2	0.00	4.84	0.00	0	0	0	100	0.00	0.0	13.458	0.119	0	0	0	0
OH3427	OH3426	A	4 ACSR 7/1	7.26Y	120.9	0.23	5.07	20.19	14	146	-13	-100	0.30	0.2	13.634	0.296	0	0	0	13
OH3519	OH3427	A	4 ACSR 7/1	7.26Y	120.9	0.00	5.07	0.00	0	0	0	100	0.00	0.0	13.738	0.104	0	0	0	0
OH3453	OH3519	A	4 ACSR 7/1	7.26Y	120.9	0.00	5.07	0.00	0	0	0	100	0.00	0.0	13.913	0.175	0	0	0	0
000051800007...	OH3453	A	Consumer	7.26Y	120.9	0.00	5.07	0.00	0	0	0	100	0.00	0.0	13.913	0.175	0	0	0	0
000051800007...	OH3519	A	Consumer	7.26Y	120.9	0.00	5.07	0.00	0	0	0	100	0.00	0.0	13.738	0.175	0	0	0	0
OH3428	OH3427	A	4 ACSR 7/1	7.25Y	120.9	0.04	5.11	18.11	13	131	-12	-100	0.04	0.0	13.685	0.051	0	0	0	11
OH3429	OH3428	A	4 ACSR 7/1	7.25Y	120.8	0.07	5.18	17.41	12	126	-11	-100	0.07	0.1	13.783	0.098	0	0	0	10
OH3454	OH3429	A	4 ACSR 7/1	7.25Y	120.8	0.03	5.21	17.41	12	126	-11	-100	0.04	0.0	13.831	0.048	0	0	0	10
OH3462	OH3454	A	4 ACSR 7/1	7.25Y	120.8	0.01	5.22	2.01	1	15	-1	-100	0.00	0.0	13.934	0.103	0	0	0	1
OH3455	OH3462	A	4 ACSR 7/1	7.25Y	120.8	0.01	5.23	2.01	1	15	-1	-100	0.00	0.0	14.047	0.113	0	0	0	1
000051800006...	OH3455	A	Consumer	7.25Y	120.8	0.00	5.23	2.01	0	15	-1	-100	0.00	0.0	14.047	0.113	15	-1	1	1
000051800006...	OH3462	A	Consumer	7.25Y	120.8	0.00	5.22	0.00	0	0	0	100	0.00	0.0	13.934	0.113	0	0	0	0
OH3430	OH3454	A	4 ACSR 7/1	7.25Y	120.8	0.02	5.23	15.40	11	111	-10	-100	0.02	0.0	13.871	0.041	0	0	0	9
OH3431	OH3430	A	4 ACSR 7/1	7.24Y	120.7	0.04	5.27	13.50	10	97	-9	-100	0.03	0.0	13.948	0.076	0	0	0	7
OH3432	OH3431	A	4 ACSR 7/1	7.24Y	120.7	0.06	5.33	13.50	10	97	-9	-100	0.05	0.1	14.056	0.108	0	0	0	7
OH3433	OH3432	A	4 ACSR 7/1	7.24Y	120.6	0.03	5.36	10.19	7	73	-7	-100	0.02	0.0	14.127	0.071	0	0	0	6
OH3444	OH3433	A	4 ACSR 7/1	7.24Y	120.6	0.01	5.37	2.31	2	17	-2	-99	0.00	0.0	14.253	0.126	0	0	0	1
000051800006...	OH3444	A	Consumer	7.24Y	120.6	0.00	5.37	2.31	0	17	-2	-99	0.00	0.0	14.253	0.126	17	-2	1	1
OH3443	OH3433	A	4 ACSR 7/1	7.24Y	120.6	0.00	5.36	0.00	0	0	0	100	0.00	0.0	14.281	0.154	0	0	0	0
000051800006...	OH3443	A	Consumer	7.24Y	120.6	0.00	5.36	0.00	0	0	0	100	0.00	0.0	14.281	0.154	0	0	0	0
OH3434	OH3433	A	4 ACSR 7/1	7.24Y	120.6	0.04	5.40	7.87	6	57	-5	-100	0.02	0.0	14.251	0.124	0	0	0	5
OH3446	OH3434	A	4 ACSR 7/1	7.24Y	120.6	0.01	5.41	0.76	1	5	-1	-98	0.00	0.0	14.524	0.274	0	0	0	1
000051800006...	OH3446	A	Consumer	7.24Y	120.6	0.00	5.41	0.76	0	5	-1	-98	0.00	0.0	14.524	0.274	5	-1	1	1

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts											-----Element-----							
		-Base Voltage:120.0-											mi		Length		Cons		Cons	
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	On	Thru
OH3435	OH3434	A	4 ACSR 7/1	7.24Y	120.6	0.01	5.41	3.94	3	28	-3	-99	0.00	0.0	14.308	0.057	0	0	0	2
OH3449	OH3435	A	4 ACSR 7/1	7.24Y	120.6	0.00	5.41	0.00	0	0	0	100	0.00	0.0	14.409	0.101	0	0	0	0
000051800006...	OH3449	A	Consumer	7.24Y	120.6	0.00	5.41	0.00	0	0	0	100	0.00	0.0	14.409	0.101	0	0	0	0
OH3445	OH3435	A	4 ACSR 7/1	7.24Y	120.6	0.00	5.41	0.00	0	0	0	100	0.00	0.0	14.435	0.127	0	0	0	0
000051800006...	OH3445	A	Consumer	7.24Y	120.6	0.00	5.41	0.00	0	0	0	100	0.00	0.0	14.435	0.127	0	0	0	0
OH3436	OH3435	A	4 ACSR 7/1	7.23Y	120.6	0.02	5.43	3.94	3	28	-3	-99	0.01	0.0	14.465	0.156	0	0	0	2
OH3437	OH3436	A	4 ACSR 7/1	7.23Y	120.6	0.00	5.43	0.00	0	0	0	100	0.00	0.0	14.679	0.214	0	0	0	0
OH2382	OH3437	A	4 ACSR 7/1	7.23Y	120.6	0.00	5.43	0.00	0	0	0	100	0.00	0.0	14.740	0.061	0	0	0	0
000051800006...	OH3437	A	Consumer	7.23Y	120.6	0.00	5.43	0.00	0	0	0	100	0.00	0.0	14.679	0.061	0	0	0	0
000051800006...	OH3436	A	Consumer	7.23Y	120.6	0.00	5.43	2.07	0	15	-1	-100	0.00	0.0	14.465	0.061	15	-1	1	1
000051800006...	OH3436	A	Consumer	7.23Y	120.6	0.00	5.43	0.00	0	0	0	100	0.00	0.0	14.465	0.061	0	0	0	0
000051800006...	OH3436	A	Consumer	7.23Y	120.6	0.00	5.43	0.00	0	0	0	100	0.00	0.0	14.465	0.061	0	0	0	0
000051800006...	OH3436	A	Consumer	7.23Y	120.6	0.00	5.43	1.88	0	14	-1	-100	0.00	0.0	14.465	0.061	14	-1	1	1
000051800006...	OH3435	A	Consumer	7.24Y	120.6	0.00	5.41	0.00	0	0	0	100	0.00	0.0	14.308	0.061	0	0	0	0
000051800006...	OH3434	A	Consumer	7.24Y	120.6	0.00	5.40	1.90	0	14	-1	-100	0.00	0.0	14.251	0.061	14	-1	1	1
000051800006...	OH3434	A	Consumer	7.24Y	120.6	0.00	5.40	1.27	0	9	-1	-99	0.00	0.0	14.251	0.061	9	-1	1	1
000051800006...	OH3434	A	Consumer	7.24Y	120.6	0.00	5.40	0.00	0	0	0	100	0.00	0.0	14.251	0.061	0	0	0	0
000051800006...	OH3432	A	Consumer	7.24Y	120.7	0.00	5.33	3.31	0	24	-2	-100	0.00	0.0	14.056	0.061	24	-2	1	1
000051800006...	OH3431	A	Consumer	7.24Y	120.7	0.00	5.27	0.00	0	0	0	100	0.00	0.0	13.948	0.061	0	0	0	0
000051800006...	OH3430	A	Consumer	7.25Y	120.8	0.00	5.23	1.89	0	14	-1	-100	0.00	0.0	13.871	0.061	14	-1	1	1
000051800006...	OH3430	A	Consumer	7.25Y	120.8	0.00	5.23	0.01	0	0	0	100	0.00	0.0	13.871	0.061	0	0	1	1
000051800006...	OH3429	A	Consumer	7.25Y	120.8	0.00	5.18	0.00	0	0	0	100	0.00	0.0	13.783	0.061	0	0	0	0
000051800006...	OH3428	A	Consumer	7.25Y	120.9	0.00	5.11	0.70	0	5	0	100	0.00	0.0	13.685	0.061	5	0	1	1
000051800007...	OH3427	A	Consumer	7.26Y	120.9	0.00	5.07	1.41	0	10	-1	-100	0.00	0.0	13.634	0.061	10	-1	1	1
000051800007...	OH3427	A	Consumer	7.26Y	120.9	0.00	5.07	0.67	0	5	0	100	0.00	0.0	13.634	0.061	5	0	1	1
000051800007...	OH3426	A	Consumer	7.27Y	121.2	0.00	4.84	0.00	0	0	0	100	0.00	0.0	13.338	0.061	0	0	0	0
OH3422	OH3419	A	4 ACSR 7/1	7.28Y	121.3	0.01	4.67	2.30	2	17	-2	-99	0.00	0.0	13.197	0.091	0	0	0	2
OH3423	OH3422	A	4 ACSR 7/1	7.28Y	121.3	0.00	4.67	0.36	0	3	0	100	0.00	0.0	13.335	0.139	0	0	0	1
000051800007...	OH3423	A	Consumer	7.28Y	121.3	0.00	4.67	0.36	0	3	0	100	0.00	0.0	13.335	0.139	3	0	1	1
000051800007...	OH3422	A	Consumer	7.28Y	121.3	0.00	4.67	1.94	0	14	-1	-100	0.00	0.0	13.197	0.139	14	-1	1	1
000051800007...	OH3417	A	Consumer	7.29Y	121.6	0.00	4.44	0.00	0	0	0	100	0.00	0.0	12.905	0.139	0	0	0	0
000051800007...	OH3417	A	Consumer	7.29Y	121.6	0.00	4.44	1.49	0	11	-1	-100	0.00	0.0	12.905	0.139	11	-1	1	1
000051800007...	OH3417	A	Consumer	7.29Y	121.6	0.00	4.44	0.00	0	0	0	100	0.00	0.0	12.905	0.139	0	0	0	0
000051800007...	OH3417	A	Consumer	7.29Y	121.6	0.00	4.44	0.52	0	4	0	100	0.00	0.0	12.905	0.139	4	0	1	1
000051800007...	OH3491	A	Consumer	7.31Y	121.8	0.00	4.17	0.79	0	6	-1	-99	0.00	0.0	12.687	0.139	6	-1	1	1
000051800007...	OH3491	A	Consumer	7.31Y	121.8	0.00	4.17	0.00	0	0	0	100	0.00	0.0	12.687	0.139	0	0	0	0
000051800008...	OH3415	A	Consumer	7.33Y	122.1	0.00	3.91	0.25	0	2	0	100	0.00	0.0	12.486	0.139	2	0	1	1

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Units Displayed In Volts -Base Voltage:120.0-							mi From Src	-----Element-----					
							Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss		% Loss	Length (mi)	KW	KVAR	Cons On	Cons Thru
000051800008...	OH3414	A	Consumer	7.33Y	122.2	0.00	3.84	1.30	0	9	-1	-99	0.00	0.0	12.429	0.139	9	-1	1	1
000051800008...	OH3416	A	Consumer	7.34Y	122.3	0.00	3.75	0.34	0	2	0	100	0.00	0.0	12.359	0.139	2	0	1	1
000051800008...	OH3416	A	Consumer	7.34Y	122.3	0.00	3.75	0.00	0	0	0	100	0.00	0.0	12.359	0.139	0	0	0	0
000051800008...	OH3226	A	Consumer	7.37Y	122.8	0.00	3.23	0.00	0	0	0	100	0.00	0.0	11.974	0.139	0	0	0	0
000051810108...	OH3227	A	Consumer	7.39Y	123.2	0.00	2.80	0.00	0	0	0	100	0.00	0.0	11.656	0.139	0	0	0	0
OH3223	OH3222	A	4 ACSR 7/1	7.39Y	123.2	0.00	2.75	0.00	0	0	0	100	0.00	0.0	11.656	0.115	0	0	0	0
000051810108...	OH3223	A	Consumer	7.39Y	123.2	0.00	2.75	0.00	0	0	0	100	0.00	0.0	11.656	0.115	0	0	0	0
OH3219	OH3217	A	4 ACSR 7/1	7.40Y	123.3	0.00	2.66	0.00	0	0	0	100	0.00	0.0	11.447	0.116	0	0	0	0
000051810108...	OH3217	A	Consumer	7.40Y	123.3	0.00	2.66	0.00	0	0	0	100	0.00	0.0	11.330	0.116	0	0	0	0
000051810109...	OH3158	C	Consumer	7.41Y	123.6	0.00	2.43	0.50	0	4	0	100	0.00	0.0	10.804	0.116	4	0	1	1
000051810109...	OH2781	C	Consumer	7.42Y	123.6	0.00	2.36	0.00	0	0	0	100	0.00	0.0	10.637	0.116	0	0	1	1
000051810109...	OH2781	C	Consumer	7.42Y	123.6	0.00	2.36	0.00	0	0	0	100	0.00	0.0	10.637	0.116	0	0	0	0
000051810109...	OH2781	C	Consumer	7.42Y	123.6	0.00	2.36	0.00	0	0	0	100	0.00	0.0	10.637	0.116	0	0	0	0
000051810109...	OH2781	C	Consumer	7.42Y	123.6	0.00	2.36	0.00	0	0	0	100	0.00	0.0	10.637	0.116	0	0	0	0
000051810109...	OH2780	B	Consumer	7.42Y	123.7	0.00	2.34	0.02	0	0	0	100	0.00	0.0	10.585	0.116	0	0	1	1
000051810109...	OH3156	A	Consumer	7.42Y	123.7	0.00	2.27	0.00	0	0	0	100	0.00	0.0	10.430	0.116	0	0	0	0
OH3106	OH2779	A	4 ACSR 7/1	7.42Y	123.7	0.00	2.26	0.00	0	0	0	100	0.00	0.0	10.547	0.139	0	0	0	0
000051810109...	OH3106	A	Consumer	7.42Y	123.7	0.00	2.26	0.00	0	0	0	100	0.00	0.0	10.547	0.139	0	0	0	0
000051810109...	OH3106	A	Consumer	7.42Y	123.7	0.00	2.26	0.00	0	0	0	100	0.00	0.0	10.547	0.139	0	0	0	0
000051810109...	OH2779	A	Consumer	7.42Y	123.7	0.00	2.26	0.00	0	0	0	100	0.00	0.0	10.408	0.139	0	0	0	0
000052400000...	OH2777	C	Consumer	7.43Y	123.8	0.00	2.21	0.00	0	0	0	100	0.00	0.0	10.304	0.139	0	0	0	0
000051810109...	OH2777	C	Consumer	7.43Y	123.8	0.00	2.21	0.97	0	7	-1	-99	0.00	0.0	10.304	0.139	7	-1	1	1
000052400000...	OH2778	C	Consumer	7.43Y	123.8	0.00	2.19	0.77	0	6	-1	-99	0.00	0.0	10.274	0.139	6	-1	1	1
000051810109...	OH2778	C	Consumer	7.43Y	123.8	0.00	2.19	0.00	0	0	0	100	0.00	0.0	10.274	0.139	0	0	0	0
000051810109...	OH2778	C	Consumer	7.43Y	123.8	0.00	2.19	0.69	0	5	0	100	0.00	0.0	10.274	0.139	5	0	1	1
000051810109...	OH2776	C	Consumer	7.44Y	123.9	0.00	2.06	0.00	0	0	0	100	0.00	0.0	10.128	0.139	0	0	0	0
000051810109...	OH2776	C	Consumer	7.44Y	123.9	0.00	2.06	0.00	0	0	0	100	0.00	0.0	10.128	0.139	0	0	1	1
000051810109...	OH2775	A	Consumer	7.44Y	124.0	0.00	1.97	0.00	0	0	0	100	0.00	0.0	10.024	0.139	0	0	0	0
000051810109...	OH2775	A	Consumer	7.44Y	124.0	0.00	1.97	0.00	0	0	0	100	0.00	0.0	10.024	0.139	0	0	0	0
000051810109...	OH2774	C	Consumer	7.45Y	124.1	0.00	1.90	2.69	0	20	-2	-100	0.00	0.0	9.942	0.139	20	-2	1	1
000051810109...	OH2773	A	Consumer	7.45Y	124.1	0.00	1.86	0.00	0	0	0	100	0.00	0.0	9.895	0.139	0	0	0	0
OH3101	OH2772	B	4 ACSR 7/1	7.46Y	124.3	0.01	1.69	2.97	2	22	-2	-100	0.00	0.0	9.787	0.079	0	0	0	2
OH29101	OH3101	B	4 ACSR 7/1	7.46Y	124.3	0.00	1.69	0.14	0	1	0	100	0.00	0.0	9.882	0.095	0	0	0	1
000052400000...	OH29101	B	Consumer	7.46Y	124.3	0.00	1.69	0.14	0	1	0	100	0.00	0.0	9.882	0.095	1	0	1	1
000051810109...	OH3101	B	Consumer	7.46Y	124.3	0.00	1.69	2.83	0	21	-2	-100	0.00	0.0	9.787	0.095	21	-2	1	1
OH3100	OH2772	A	4 ACSR 7/1	7.46Y	124.3	0.00	1.69	0.70	1	5	0	100	0.00	0.0	9.802	0.094	0	0	0	1
000051810109...	OH3100	A	Consumer	7.46Y	124.3	0.00	1.69	0.70	0	5	0	100	0.00	0.0	9.802	0.094	5	0	1	1

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
000051810109...	OH2772	C	Consumer	7.46Y	124.3	0.00	1.68	0.00	0	0	0	100	0.00	0.0	9.708	0.094	0	0	0	0
000051810109...	OH2772	C	Consumer	7.46Y	124.3	0.00	1.68	0.00	0	0	0	100	0.00	0.0	9.708	0.094	0	0	0	0
000051810109...	OH2772	C	Consumer	7.46Y	124.3	0.00	1.68	1.02	0	8	-1	-99	0.00	0.0	9.708	0.094	8	-1	1	1
000051810109...	OH2771	A	Consumer	7.47Y	124.5	0.00	1.54	0.00	0	0	0	100	0.00	0.0	9.548	0.094	0	0	0	0
000051810109...	OH2768	C	Consumer	7.48Y	124.6	0.00	1.39	0.04	0	0	0	100	0.00	0.0	9.383	0.094	0	0	1	1
000051810109...	OH2767	C	Consumer	7.48Y	124.7	0.00	1.34	0.94	0	7	-1	-99	0.00	0.0	9.329	0.094	7	-1	1	1
000051810109...	OH2764	C	Consumer	7.49Y	124.8	0.00	1.24	0.11	0	1	0	100	0.00	0.0	9.221	0.094	1	0	1	1
000051810109...	OH2761	C	Consumer	7.51Y	125.2	0.00	0.79	0.00	0	0	0	100	0.00	0.0	8.738	0.094	0	0	0	0
000051810109...	OH2761	C	Consumer	7.51Y	125.2	0.00	0.79	2.60	0	19	-2	-99	0.00	0.0	8.738	0.094	19	-2	1	1
000051810109...	OH2761	C	Consumer	7.51Y	125.2	0.00	0.79	0.00	0	0	0	100	0.00	0.0	8.738	0.094	0	0	0	0
000051810109...	OH2761	C	Consumer	7.51Y	125.2	0.00	0.79	0.00	0	0	0	100	0.00	0.0	8.738	0.094	0	0	0	0
000051810109...	OH2761	C	Consumer	7.51Y	125.2	0.00	0.79	0.00	0	0	0	100	0.00	0.0	8.738	0.094	0	0	0	0
000051810109...	OH2762	A	Consumer	7.52Y	125.3	0.00	0.73	0.00	0	0	0	100	0.00	0.0	8.679	0.094	0	0	0	0
000051810109...	OH2757	B	Consumer	7.52Y	125.3	0.00	0.65	1.96	0	15	-1	-100	0.00	0.0	8.596	0.094	15	-1	1	1
000051810109...	OH2756	B	Consumer	7.53Y	125.4	0.00	0.56	0.00	0	0	0	100	0.00	0.0	8.499	0.094	0	0	0	0
000051810109...	OH2756	B	Consumer	7.53Y	125.4	0.00	0.56	0.33	0	2	0	100	0.00	0.0	8.499	0.094	2	0	1	1
000051810109...	OH2756	B	Consumer	7.53Y	125.4	0.00	0.56	0.00	0	0	0	100	0.00	0.0	8.499	0.094	0	0	0	0
000051810108...	OH2755	C	Consumer	7.54Y	125.6	0.00	0.37	1.98	0	15	-1	-100	0.00	0.0	8.302	0.094	15	-1	1	1
000051810108...	OH2755	C	Consumer	7.54Y	125.6	0.00	0.37	1.44	0	11	-1	-100	0.00	0.0	8.302	0.094	11	-1	1	1
000051810108...	OH2753	A	Consumer	7.56Y	125.9	0.00	0.07	0.00	0	0	0	100	0.00	0.0	8.012	0.094	0	0	0	0
000051810108...	OH3021	C	Consumer	7.56Y	126.0	0.00	0.03	4.41	0	33	-3	-100	0.00	0.0	7.971	0.094	33	-3	1	1
000051810108...	OH3021	C	Consumer	7.56Y	126.0	0.00	0.03	1.44	0	11	-1	-100	0.00	0.0	7.971	0.094	11	-1	1	1
000051810108...	OH3021	C	Consumer	7.56Y	126.0	0.00	0.03	0.18	0	1	0	100	0.00	0.0	7.971	0.094	1	0	1	1
OH2806	OH2750	A	4 ACSR 7/1	7.56Y	126.0	0.00	0.00	0.00	0	0	0	100	0.00	0.0	8.191	0.249	0	0	0	0
000051810109...	OH2806	A	Consumer	7.56Y	126.0	0.00	0.00	0.00	0	0	0	100	0.00	0.0	8.191	0.249	0	0	0	0
000051810109...	OH2806	A	Consumer	7.56Y	126.0	0.00	0.00	0.00	0	0	0	100	0.00	0.0	8.191	0.249	0	0	0	0
000051810108...	OH2751	C	Consumer	7.57Y	126.2	0.00	-0.18	0.86	0	7	-1	-99	0.00	0.0	7.769	0.249	7	-1	1	1
000051810108...	OH2748	A	Consumer	7.59Y	126.4	0.00	-0.42	0.00	0	0	0	100	0.00	0.0	7.539	0.249	0	0	0	0
000061330508...	OH2785	A	Consumer	7.59Y	126.5	0.00	-0.46	0.00	0	0	0	100	0.00	0.0	7.505	0.249	0	0	0	0
000061330508...	OH2795	A	Consumer	7.59Y	126.5	0.00	-0.53	0.00	0	0	0	100	0.00	0.0	7.439	0.249	0	0	0	0
OH2783	OH2747	A	4 ACSR 7/1	7.60Y	126.6	0.00	-0.63	0.47	0	4	0	100	0.00	0.0	7.465	0.121	0	0	0	1
000061330508...	OH2783	A	Consumer	7.60Y	126.6	0.00	-0.63	0.47	0	4	0	100	0.00	0.0	7.465	0.121	4	0	1	1
000061330508...	OH2747	A	Consumer	7.60Y	126.6	0.00	-0.63	0.00	0	0	0	100	0.00	0.0	7.344	0.121	0	0	0	0
OH1828	REG3701	A	4 ACSR 7/1	7.59Y	126.5	0.26	-0.53	49.43	35	375	-29	-100	0.80	0.2	7.334	0.132	0	0	0	51
OH1828	OH1828	A	1/0 ACSR	7.59Y	126.5	0.00	-0.53	0.00	0	0	0	100	0.00	0.0	7.439	0.105	0	0	0	0
000061330508...	OH2810	A	Consumer	7.59Y	126.5	0.00	-0.53	0.00	0	0	0	100	0.00	0.0	7.439	0.105	0	0	0	0
OH2809	OH1828	A	1/0 ACSR	7.58Y	126.3	0.18	-0.34	49.43	21	374	-29	-100	0.60	0.2	7.565	0.230	0	0	0	51
OH1810	OH2809	A	4 ACSR 7/1	7.58Y	126.3	0.03	-0.31	49.43	35	373	-30	-100	0.09	0.0	7.579	0.015	0	0	0	51

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OH1813	OH1810	A	4 ACSR 7/1	7.57Y	126.2	0.10	-0.21	23.54	17	178	-13	-100	0.15	0.1	7.689	0.110	0	0	0	23
OH30251	OH1813	A	4 ACSR 7/1	7.57Y	126.2	0.00	-0.21	0.00	0	0	0	100	0.00	0.0	7.764	0.075	0	0	0	0
000061330507...	OH30251	A	Consumer	7.57Y	126.2	0.00	-0.21	0.00	0	0	0	100	0.00	0.0	7.764	0.075	0	0	0	0
OH1751	OH1813	A	4 ACSR 7/1	7.57Y	126.2	0.02	-0.20	2.40	2	18	-2	-99	0.00	0.0	7.853	0.164	0	0	0	1
000061330507...	OH1751	A	Consumer	7.57Y	126.2	0.00	-0.20	2.40	0	18	-2	-99	0.00	0.0	7.853	0.164	18	-2	1	1
000061330507...	OH1751	A	Consumer	7.57Y	126.2	0.00	-0.20	0.00	0	0	0	100	0.00	0.0	7.853	0.164	0	0	0	0
OH1750	OH1813	A	4 ACSR 7/1	7.57Y	126.2	0.01	-0.20	2.09	1	16	-1	-100	0.00	0.0	7.798	0.109	0	0	0	1
000061330507...	OH1750	A	Consumer	7.57Y	126.2	0.00	-0.20	2.09	0	16	-1	-100	0.00	0.0	7.798	0.109	16	-1	1	1
OH1749	OH1813	A	4 ACSR 7/1	7.57Y	126.2	0.04	-0.18	16.14	12	122	-8	-100	0.04	0.0	7.744	0.055	0	0	0	19
OH1753	OH1749	A	4 ACSR 7/1	7.57Y	126.2	0.00	-0.18	0.04	0	0	0	100	0.00	0.0	7.828	0.084	0	0	0	1
000061330507...	OH1753	A	Consumer	7.57Y	126.2	0.00	-0.18	0.04	0	0	0	100	0.00	0.0	7.828	0.084	0	0	1	1
000061330507...	OH1753	A	Consumer	7.57Y	126.2	0.00	-0.18	0.00	0	0	0	100	0.00	0.0	7.828	0.084	0	0	0	0
OH1748	OH1749	A	4 ACSR 7/1	7.57Y	126.1	0.04	-0.14	15.43	11	117	-7	-100	0.04	0.0	7.806	0.063	0	0	0	17
OH1752	OH1748	A	4 ACSR 7/1	7.57Y	126.1	0.00	-0.14	0.69	0	5	0	100	0.00	0.0	7.870	0.064	0	0	0	1
000061330507...	OH1752	A	Consumer	7.57Y	126.1	0.00	-0.14	0.69	0	5	0	100	0.00	0.0	7.870	0.064	5	0	1	1
OH1747	OH1748	A	4 ACSR 7/1	7.56Y	126.1	0.08	-0.06	14.74	11	111	-7	-100	0.07	0.1	7.935	0.129	0	0	0	16
OH1746	OH1747	A	4 ACSR 7/1	7.56Y	126.0	0.02	-0.04	12.20	9	92	-7	-100	0.02	0.0	7.979	0.044	0	0	0	13
OH1745	OH1746	A	4 ACSR 7/1	7.56Y	126.0	0.04	-0.01	9.92	7	75	-7	-100	0.02	0.0	8.072	0.093	0	0	0	10
OH1781	OH1745	A	4 ACSR 7/1	7.56Y	126.0	0.01	0.01	3.55	3	27	-2	-100	0.00	0.0	8.153	0.081	0	0	0	3
OH1741	OH1781	A	4 ACSR 7/1	7.56Y	126.0	0.01	0.01	3.55	3	27	-2	-100	0.00	0.0	8.190	0.037	0	0	0	3
OH1743	OH1741	A	4 ACSR 7/1	7.56Y	126.0	0.01	0.02	1.52	1	11	-1	-100	0.00	0.0	8.284	0.094	0	0	0	1
000061330507...	OH1743	A	Consumer	7.56Y	126.0	0.00	0.02	0.00	0	0	0	100	0.00	0.0	8.284	0.094	0	0	0	0
000061330507...	OH1743	A	Consumer	7.56Y	126.0	0.00	0.02	1.52	0	11	-1	-100	0.00	0.0	8.284	0.094	11	-1	1	1
OH1742	OH1741	A	4 ACSR 7/1	7.56Y	126.0	0.00	0.01	0.25	0	2	0	100	0.00	0.0	8.313	0.123	0	0	0	1
OH1768	OH1742	A	4 ACSR 7/1	7.56Y	126.0	0.00	0.01	0.25	0	2	0	100	0.00	0.0	8.408	0.094	0	0	0	1
000061330507...	OH1768	A	Consumer	7.56Y	126.0	0.00	0.01	0.00	0	0	0	100	0.00	0.0	8.408	0.094	0	0	0	0
000061330507...	OH1768	A	Consumer	7.56Y	126.0	0.00	0.01	0.00	0	0	0	100	0.00	0.0	8.408	0.094	0	0	0	0
000061330507...	OH1768	A	Consumer	7.56Y	126.0	0.00	0.01	0.25	0	2	0	100	0.00	0.0	8.408	0.094	2	0	1	1
000061330507...	OH1742	A	Consumer	7.56Y	126.0	0.00	0.01	0.00	0	0	0	100	0.00	0.0	8.313	0.094	0	0	0	0
000061330507...	OH1742	A	Consumer	7.56Y	126.0	0.00	0.01	0.00	0	0	0	100	0.00	0.0	8.313	0.094	0	0	0	0
000061330507...	OH1741	A	Consumer	7.56Y	126.0	0.00	0.01	1.78	0	13	-1	-100	0.00	0.0	8.190	0.094	13	-1	1	1
000061330507...	OH1781	A	Consumer	7.56Y	126.0	0.00	0.01	0.00	0	0	0	100	0.00	0.0	8.153	0.094	0	0	0	0
OH1701	OH1745	A	4 ACSR 7/1	7.56Y	126.0	0.01	0.01	6.29	4	47	-4	-100	0.01	0.0	8.130	0.058	0	0	0	6
OH1755	OH1701	A	4 ACSR 7/1	7.56Y	126.0	0.00	0.01	1.91	1	14	-1	-100	0.00	0.0	8.186	0.056	0	0	0	1
000061330507...	OH1755	A	Consumer	7.56Y	126.0	0.00	0.01	1.91	0	14	-1	-100	0.00	0.0	8.186	0.056	14	-1	1	1
000061330507...	OH1755	A	Consumer	7.56Y	126.0	0.00	0.01	0.00	0	0	0	100	0.00	0.0	8.186	0.056	0	0	0	0
OH1744	OH1701	A	4 ACSR 7/1	7.56Y	126.0	0.00	0.01	4.12	3	31	-3	-100	0.00	0.0	8.155	0.024	0	0	0	4

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts														-----Element-----				
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OH1740	OH1744	A	4 ACSR 7/1	7.56Y	126.0	0.00	0.02	1.62	1	12	-1	-100	0.00	0.0	8.223	0.068	0	0	0	1
000061330507...	OH1740	A	Consumer	7.56Y	126.0	0.00	0.02	1.62	0	12	-1	-100	0.00	0.0	8.223	0.068	12	-1	1	1
OH1723	OH1744	A	4 ACSR 7/1	7.56Y	126.0	0.00	0.01	2.51	2	19	-2	-99	0.00	0.0	8.162	0.007	0	0	0	3
OH1739	OH1723	A	4 ACSR 7/1	7.56Y	126.0	0.01	0.02	2.51	2	19	-2	-99	0.00	0.0	8.262	0.100	0	0	0	3
000061330507...	OH1739	A	Consumer	7.56Y	126.0	0.00	0.02	1.72	0	13	-1	-100	0.00	0.0	8.262	0.100	13	-1	1	1
000061330507...	OH1739	A	Consumer	7.56Y	126.0	0.00	0.02	0.76	0	6	-1	-99	0.00	0.0	8.262	0.100	6	-1	1	1
000061330507...	OH1739	A	Consumer	7.56Y	126.0	0.00	0.02	0.03	0	0	0	100	0.00	0.0	8.262	0.100	0	0	1	1
000061330507...	OH1701	A	Consumer	7.56Y	126.0	0.00	0.01	0.25	0	2	0	100	0.00	0.0	8.130	0.100	2	0	1	1
000061330507...	OH1745	A	Consumer	7.56Y	126.0	0.00	-0.01	0.08	0	1	0	100	0.00	0.0	8.072	0.100	1	0	1	1
000061330507...	OH1746	A	Consumer	7.56Y	126.0	0.00	-0.04	0.87	0	7	-1	-99	0.00	0.0	7.979	0.100	7	-1	1	1
000061330507...	OH1746	A	Consumer	7.56Y	126.0	0.00	-0.04	1.01	0	8	-1	-99	0.00	0.0	7.979	0.100	8	-1	1	1
000061330507...	OH1746	A	Consumer	7.56Y	126.0	0.00	-0.04	0.47	0	3	2	83	0.00	0.0	7.979	0.100	3	2	1	1
000061330507...	OH1747	A	Consumer	7.56Y	126.1	0.00	-0.06	1.06	0	8	-1	-99	0.00	0.0	7.935	0.100	8	-1	1	1
000061330507...	OH1747	A	Consumer	7.56Y	126.1	0.00	-0.06	1.15	0	9	-1	-99	0.00	0.0	7.935	0.100	9	-1	1	1
000061330507...	OH1747	A	Consumer	7.56Y	126.1	0.00	-0.06	0.38	0	3	1	95	0.00	0.0	7.935	0.100	3	1	1	1
000061330507...	OH1747	A	Consumer	7.56Y	126.1	0.00	-0.06	0.00	0	0	0	100	0.00	0.0	7.935	0.100	0	0	0	0
000061330507...	OH1747	A	Consumer	7.56Y	126.1	0.00	-0.06	0.00	0	0	0	100	0.00	0.0	7.935	0.100	0	0	0	0
000061330507...	OH1749	A	Consumer	7.57Y	126.2	0.00	-0.18	0.68	0	5	0	100	0.00	0.0	7.744	0.100	5	0	1	1
000061330507...	OH1813	A	Consumer	7.57Y	126.2	0.00	-0.21	1.74	0	13	-1	-100	0.00	0.0	7.689	0.100	13	-1	1	1
000061330507...	OH1813	A	Consumer	7.57Y	126.2	0.00	-0.21	1.17	0	9	-1	-99	0.00	0.0	7.689	0.100	9	-1	1	1
OCR-1014	OH1810	A	35-4H OCR	7.58Y	126.3	0.00	-0.31	25.89	0	195	-17	-100	0.00	0.0	7.579	0.100	0	0	0	28
OH1831	OCR-1014	A	4 ACSR 7/1	7.57Y	126.2	0.07	-0.24	25.89	18	195	-17	-100	0.12	0.1	7.648	0.069	0	0	0	28
OH1836	OH1831	A	4 ACSR 7/1	7.57Y	126.2	0.00	-0.24	0.00	0	0	0	100	0.00	0.0	7.735	0.087	0	0	0	0
000061330507...	OH1836	A	Consumer	7.57Y	126.2	0.00	-0.24	0.00	0	0	0	100	0.00	0.0	7.735	0.087	0	0	0	0
OH1832	OH1831	A	4 ACSR 7/1	7.57Y	126.2	0.03	-0.21	25.89	18	195	-17	-100	0.06	0.0	7.682	0.034	0	0	0	28
OH1835	OH1832	A	4 ACSR 7/1	7.57Y	126.2	0.00	-0.20	1.77	1	13	-1	-100	0.00	0.0	7.750	0.068	0	0	0	2
000061330507...	OH1835	A	Consumer	7.57Y	126.2	0.00	-0.20	0.36	0	3	0	100	0.00	0.0	7.750	0.068	3	0	1	1
000061330507...	OH1835	A	Consumer	7.57Y	126.2	0.00	-0.20	1.40	0	11	-1	-100	0.00	0.0	7.750	0.068	11	-1	1	1
OH1833	OH1832	A	4 ACSR 7/1	7.56Y	126.1	0.13	-0.08	24.12	17	182	-16	-100	0.20	0.1	7.823	0.141	0	0	0	26
OH3247	OH1833	A	4 ACSR 7/1	7.56Y	125.9	0.14	0.06	22.16	16	167	-15	-100	0.20	0.1	7.984	0.160	0	0	0	25
OH3276	OH3247	A	4 ACSR 7/1	7.56Y	125.9	0.00	0.07	1.70	1	13	-1	-100	0.00	0.0	8.032	0.048	0	0	0	1
000051810107...	OH3276	A	Consumer	7.56Y	125.9	0.00	0.07	1.70	0	13	-1	-100	0.00	0.0	8.032	0.048	13	-1	1	1
OH3275	OH3247	A	4 ACSR 7/1	7.56Y	125.9	0.00	0.06	0.00	0	0	0	100	0.00	0.0	8.020	0.036	0	0	0	0
000051810107...	OH3275	A	Consumer	7.56Y	125.9	0.00	0.06	0.00	0	0	0	100	0.00	0.0	8.020	0.036	0	0	0	0
OH29524	OH3247	A	4 ACSR 7/1	7.56Y	125.9	0.02	0.08	20.46	15	154	-14	-100	0.03	0.0	8.009	0.025	0	0	0	24
OH3248	OH29524	A	4 ACSR 7/1	7.55Y	125.9	0.05	0.14	20.46	15	154	-14	-100	0.07	0.0	8.075	0.066	0	0	0	23
OH3274	OH3248	A	4 ACSR 7/1	7.55Y	125.9	0.01	0.15	1.96	1	15	-1	-100	0.00	0.0	8.203	0.128	0	0	0	2

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													-----Element-----					
		-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	KW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
000051810107...	OH3274	A	Consumer	7.55Y	125.9	0.00	0.15	1.52	0	11	-1	-100	0.00	0.0	8.203	0.128	11	-1	1	1
000051810107...	OH3274	A	Consumer	7.55Y	125.9	0.00	0.15	0.44	0	3	0	100	0.00	0.0	8.203	0.128	3	0	1	1
OH3249	OH3248	A	4 ACSR 7/1	7.55Y	125.8	0.10	0.24	16.01	11	120	-11	-100	0.10	0.1	8.237	0.162	0	0	0	17
OH3273	OH3249	A	4 ACSR 7/1	7.55Y	125.8	0.00	0.24	0.00	0	0	0	100	0.00	0.0	8.344	0.107	0	0	0	0
000051810107...	OH3273	A	Consumer	7.55Y	125.8	0.00	0.24	0.00	0	0	0	100	0.00	0.0	8.344	0.107	0	0	0	0
000051810107...	OH3273	A	Consumer	7.55Y	125.8	0.00	0.24	0.00	0	0	0	100	0.00	0.0	8.344	0.107	0	0	0	0
000051810107...	OH3273	A	Consumer	7.55Y	125.8	0.00	0.24	0.00	0	0	0	100	0.00	0.0	8.344	0.107	0	0	0	0
OH29086	OH3249	A	4 ACSR 7/1	7.54Y	125.7	0.03	0.26	16.01	11	120	-11	-100	0.03	0.0	8.279	0.041	0	0	0	17
OH3250	OH29086	A	4 ACSR 7/1	7.54Y	125.7	0.07	0.34	14.82	11	111	-10	-100	0.07	0.1	8.404	0.125	0	0	0	16
OH3327	OH3250	A	4 ACSR 7/1	7.54Y	125.7	0.00	0.34	0.22	0	2	0	100	0.00	0.0	8.431	0.027	0	0	0	1
000051810107...	OH3327	A	Consumer	7.54Y	125.7	0.00	0.34	0.22	0	2	0	100	0.00	0.0	8.431	0.027	2	0	1	1
OH3251	OH3250	A	4 ACSR 7/1	7.54Y	125.7	0.01	0.35	14.60	10	110	-10	-100	0.01	0.0	8.422	0.018	0	0	0	15
OH3252	OH3251	A	4 ACSR 7/1	7.54Y	125.6	0.03	0.38	14.60	10	110	-10	-100	0.03	0.0	8.483	0.060	0	0	0	15
OH3253	OH3252	A	4 ACSR 7/1	7.53Y	125.6	0.04	0.42	14.60	10	110	-10	-100	0.04	0.0	8.559	0.077	0	0	0	15
OH3254	OH3253	A	4 ACSR 7/1	7.53Y	125.6	0.01	0.43	13.21	9	99	-9	-100	0.01	0.0	8.578	0.019	0	0	0	14
OH3272	OH3254	A	4 ACSR 7/1	7.53Y	125.6	0.00	0.43	0.00	0	0	0	100	0.00	0.0	8.712	0.134	0	0	0	0
000051810107...	OH3272	A	Consumer	7.53Y	125.6	0.00	0.43	0.00	0	0	0	100	0.00	0.0	8.712	0.134	0	0	0	0
OH3255	OH3254	A	4 ACSR 7/1	7.53Y	125.5	0.02	0.45	13.21	9	99	-9	-100	0.02	0.0	8.619	0.041	0	0	0	14
000051810107...	OH3255	A	Consumer	7.53Y	125.5	0.00	0.45	0.00	0	0	0	100	0.00	0.0	8.619	0.041	0	0	0	0
OH3256	OH3255	A	4 ACSR 7/1	7.53Y	125.5	0.04	0.50	13.21	9	99	-9	-100	0.04	0.0	8.701	0.082	0	0	0	14
000051810107...	OH3256	A	Consumer	7.53Y	125.5	0.00	0.50	0.00	0	0	0	100	0.00	0.0	8.701	0.082	0	0	0	0
OH3257	OH3256	A	4 ACSR 7/1	7.53Y	125.5	0.04	0.53	12.69	9	95	-9	-100	0.03	0.0	8.775	0.074	0	0	0	13
OH3258	OH3257	A	4 ACSR 7/1	7.52Y	125.4	0.09	0.63	12.69	9	95	-9	-100	0.07	0.1	8.962	0.187	0	0	0	13
OH3292	OH3258	A	4 ACSR 7/1	7.52Y	125.4	0.00	0.63	2.33	2	17	-2	-99	0.00	0.0	9.013	0.052	0	0	0	2
OH3271	OH3292	A	4 ACSR 7/1	7.52Y	125.4	0.01	0.64	1.73	1	13	-1	-100	0.00	0.0	9.184	0.170	0	0	0	1
000051810107...	OH3271	A	Consumer	7.52Y	125.4	0.00	0.64	1.73	0	13	-1	-100	0.00	0.0	9.184	0.170	13	-1	1	1
000051810107...	OH3292	A	Consumer	7.52Y	125.4	0.00	0.63	0.59	0	4	0	100	0.00	0.0	9.013	0.170	4	0	1	1
OH3259	OH3258	A	4 ACSR 7/1	7.51Y	125.1	0.26	0.89	7.74	6	58	-5	-100	0.13	0.2	9.822	0.860	0	0	0	9
OH3260	OH3259	A	4 ACSR 7/1	7.51Y	125.1	0.02	0.90	7.74	6	58	-5	-100	0.01	0.0	9.882	0.061	0	0	0	9
OH3270	OH3260	A	4 ACSR 7/1	7.51Y	125.1	0.00	0.90	0.00	0	0	0	100	0.00	0.0	10.006	0.123	0	0	0	0
000051810107...	OH3270	A	Consumer	7.51Y	125.1	0.00	0.90	0.00	0	0	0	100	0.00	0.0	10.006	0.123	0	0	0	0
OH3268	OH3260	A	4 ACSR 7/1	7.51Y	125.1	0.01	0.91	1.90	1	14	-1	-100	0.00	0.0	10.019	0.137	0	0	0	2
OH3269	OH3268	A	4 ACSR 7/1	7.51Y	125.1	0.00	0.91	0.37	0	3	0	100	0.00	0.0	10.077	0.058	0	0	0	1
000051810107...	OH3269	A	Consumer	7.51Y	125.1	0.00	0.91	0.37	0	3	0	100	0.00	0.0	10.077	0.058	3	0	1	1
000051810107...	OH3269	A	Consumer	7.51Y	125.1	0.00	0.91	1.52	0	11	-1	-100	0.00	0.0	10.019	0.058	11	-1	1	1
OH3262	OH3260	A	4 ACSR 7/1	7.50Y	125.1	0.04	0.95	5.84	4	44	-4	-100	0.02	0.0	10.065	0.182	0	0	0	7
OH3267	OH3262	A	4 ACSR 7/1	7.50Y	125.1	0.00	0.95	0.00	0	0	0	100	0.00	0.0	10.185	0.121	0	0	0	0

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts											mi		-----Element-----					
		-Base Voltage:120.0-											From	Length			Cons	Cons		
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	Src	(mi)	KW	KVAR	On	Thru
000051810107...	OH3267	A	Consumer	7.50Y	125.1	0.00	0.95	0.00	0	0	0	100	0.00	0.0	10.185	0.121	0	0	0	0
OH3261	OH3262	A	4 ACSR 7/1	7.50Y	125.0	0.01	0.96	5.84	4	44	-4	-100	0.00	0.0	10.108	0.044	0	0	0	7
OH3266	OH3261	A	4 ACSR 7/1	7.50Y	125.0	0.00	0.96	2.24	2	17	-2	-99	0.00	0.0	10.156	0.047	0	0	0	1
000051810107...	OH3266	A	Consumer	7.50Y	125.0	0.00	0.96	2.24	0	17	-2	-99	0.00	0.0	10.156	0.047	17	-2	1	1
OH1819	OH3261	A	4 ACSR 7/1	7.50Y	125.0	0.05	1.01	3.60	3	27	-2	-100	0.01	0.0	10.487	0.379	0	0	0	6
OH3300	OH1819	A	4 ACSR 7/1	7.50Y	125.0	0.00	1.01	0.05	0	0	0	100	0.00	0.0	10.542	0.055	0	0	0	1
OH3263	OH3300	A	4 ACSR 7/1	7.50Y	125.0	0.00	1.01	0.05	0	0	0	100	0.00	0.0	10.597	0.055	0	0	0	1
OH1814	OH3263	A	4 ACSR 7/1	7.50Y	125.0	0.00	1.01	0.00	0	0	0	100	0.00	0.0	10.693	0.096	0	0	0	0
000051810107...	OH1814	A	Consumer	7.50Y	125.0	0.00	1.01	0.00	0	0	0	100	0.00	0.0	10.693	0.096	0	0	0	0
000051810107...	OH3263	A	Consumer	7.50Y	125.0	0.00	1.01	0.05	0	0	0	100	0.00	0.0	10.597	0.096	0	0	1	1
000051810107...	OH3300	A	Consumer	7.50Y	125.0	0.00	1.01	0.00	0	0	0	100	0.00	0.0	10.542	0.096	0	0	0	0
OH1821	OH1819	A	4 ACSR 7/1	7.50Y	125.0	0.04	1.05	3.55	3	27	-2	-100	0.01	0.0	10.758	0.271	0	0	0	5
OH3056	OH1821	A	4 ACSR 7/1	7.50Y	125.0	0.00	1.05	0.00	0	0	0	100	0.00	0.0	10.928	0.170	0	0	0	0
000051800006...	OH3056	A	Consumer	7.50Y	125.0	0.00	1.05	0.00	0	0	0	100	0.00	0.0	10.928	0.170	0	0	0	0
OH1825	OH1821	A	4 ACSR 7/1	7.50Y	124.9	0.01	1.06	2.99	2	22	-2	-100	0.00	0.0	10.839	0.081	0	0	0	3
OH3058	OH1825	A	4 ACSR 7/1	7.50Y	124.9	0.02	1.07	2.99	2	22	-2	-100	0.00	0.0	10.988	0.149	0	0	0	3
OH3042	OH3058	A	4 ACSR 7/1	7.49Y	124.9	0.03	1.10	2.27	2	17	-2	-99	0.00	0.0	11.329	0.341	0	0	0	2
OH1827	OH3042	A	4 ACSR 7/1	7.49Y	124.9	0.01	1.11	1.60	1	12	-1	-100	0.00	0.0	11.521	0.191	0	0	0	1
000051800006...	OH1827	A	Consumer	7.49Y	124.9	0.00	1.11	1.60	0	12	-1	-100	0.00	0.0	11.521	0.191	12	-1	1	1
000051800006...	OH1827	A	Consumer	7.49Y	124.9	0.00	1.11	0.00	0	0	0	100	0.00	0.0	11.521	0.191	0	0	0	0
000051800006...	OH1827	A	Consumer	7.49Y	124.9	0.00	1.11	0.00	0	0	0	100	0.00	0.0	11.521	0.191	0	0	0	0
000051800006...	OH1827	A	Consumer	7.49Y	124.9	0.00	1.11	0.00	0	0	0	100	0.00	0.0	11.521	0.191	0	0	0	0
000051800006...	OH3042	A	Consumer	7.49Y	124.9	0.00	1.10	0.00	0	0	0	100	0.00	0.0	11.329	0.191	0	0	0	0
000051800006...	OH3042	A	Consumer	7.49Y	124.9	0.00	1.10	0.67	0	5	0	100	0.00	0.0	11.329	0.191	5	0	1	1
000051800006...	OH3058	A	Consumer	7.50Y	124.9	0.00	1.07	0.72	0	5	0	100	0.00	0.0	10.988	0.191	5	0	1	1
OH1826	OH1825	A	4 ACSR 7/1	7.50Y	124.9	0.00	1.06	0.00	0	0	0	100	0.00	0.0	10.963	0.124	0	0	0	0
OH1822	OH1821	A	4 ACSR 7/1	7.50Y	125.0	0.00	1.05	0.00	0	0	0	100	0.00	0.0	10.977	0.219	0	0	0	1
OH3067	OH1822	A	4 ACSR 7/1	7.50Y	125.0	0.00	1.05	0.00	0	0	0	100	0.00	0.0	11.337	0.360	0	0	0	0
000051800006...	OH3067	A	Consumer	7.50Y	125.0	0.00	1.05	0.00	0	0	0	100	0.00	0.0	11.337	0.360	0	0	0	0
OH1823	OH1822	A	4 ACSR 7/1	7.50Y	125.0	0.00	1.05	0.00	0	0	0	100	0.00	0.0	11.192	0.215	0	0	0	1
OH3054	OH1823	A	4 ACSR 7/1	7.50Y	125.0	0.00	1.05	0.00	0	0	0	100	0.00	0.0	11.454	0.262	0	0	0	0
000051800006...	OH3054	A	Consumer	7.50Y	125.0	0.00	1.05	0.00	0	0	0	100	0.00	0.0	11.454	0.262	0	0	0	0
OH1824	OH1823	A	4 ACSR 7/1	7.50Y	125.0	0.00	1.05	0.00	0	0	0	100	0.00	0.0	11.302	0.110	0	0	0	0
000051800006...	OH1824	A	Consumer	7.50Y	125.0	0.00	1.05	0.00	0	0	0	100	0.00	0.0	11.302	0.110	0	0	0	0
000051800006...	OH1824	A	Consumer	7.50Y	125.0	0.00	1.05	0.00	0	0	0	100	0.00	0.0	11.302	0.110	0	0	0	0
000051800006...	OH1823	A	Consumer	7.50Y	125.0	0.00	1.05	0.00	0	0	0	100	0.00	0.0	11.192	0.110	0	0	1	1
000051800006...	OH1821	A	Consumer	7.50Y	125.0	0.00	1.05	0.56	0	4	0	100	0.00	0.0	10.758	0.110	4	0	1	1
000051800006...	OH1821	A	Consumer	7.50Y	125.0	0.00	1.05	0.00	0	0	0	100	0.00	0.0	10.758	0.110	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													mi		-----Element-----			
		-Base Voltage:120.0-													From	Length			Cons	Cons
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	Src	(mi)	KW	KVAR	On	Thru
000051810107...	OH3259	A	Consumer	7.51Y	125.1	0.00	0.89	0.00	0	0	0	100	0.00	0.0	9.822	0.110	0	0	0	0
000051810107...	OH3258	A	Consumer	7.52Y	125.4	0.00	0.63	0.00	0	0	0	100	0.00	0.0	8.962	0.110	0	0	0	0
000051810107...	OH3258	A	Consumer	7.52Y	125.4	0.00	0.63	1.83	0	14	-1	-100	0.00	0.0	8.962	0.110	14	-1	1	1
000051810107...	OH3258	A	Consumer	7.52Y	125.4	0.00	0.63	0.80	0	6	-1	-99	0.00	0.0	8.962	0.110	6	-1	1	1
000051810107...	OH3257	A	Consumer	7.53Y	125.5	0.00	0.53	0.00	0	0	0	100	0.00	0.0	8.775	0.110	0	0	0	0
000051810107...	OH3256	A	Consumer	7.53Y	125.5	0.00	0.50	0.52	0	4	0	100	0.00	0.0	8.701	0.110	4	0	1	1
000051810107...	OH3255	A	Consumer	7.53Y	125.5	0.00	0.45	0.00	0	0	0	100	0.00	0.0	8.619	0.110	0	0	0	0
000051810107...	OH3254	A	Consumer	7.53Y	125.6	0.00	0.43	0.00	0	0	0	100	0.00	0.0	8.578	0.110	0	0	0	0
000051810107...	OH3253	A	Consumer	7.53Y	125.6	0.00	0.42	1.39	0	10	-1	-100	0.00	0.0	8.559	0.110	10	-1	1	1
000051810107...	OH3252	A	Consumer	7.54Y	125.6	0.00	0.38	0.00	0	0	0	100	0.00	0.0	8.483	0.110	0	0	0	0
000051810107...	OH3252	A	Consumer	7.54Y	125.6	0.00	0.38	0.00	0	0	0	100	0.00	0.0	8.483	0.110	0	0	0	0
000051810107...	OH3251	A	Consumer	7.54Y	125.7	0.00	0.35	0.00	0	0	0	100	0.00	0.0	8.422	0.110	0	0	0	0
000051810107...	OH3251	A	Consumer	7.54Y	125.7	0.00	0.35	0.00	0	0	0	100	0.00	0.0	8.422	0.110	0	0	0	0
000051810107...	OH3251	A	Consumer	7.54Y	125.7	0.00	0.35	0.00	0	0	0	100	0.00	0.0	8.422	0.110	0	0	0	0
000051810107...	OH29086	A	Consumer	7.54Y	125.7	0.00	0.26	1.19	0	9	-1	-99	0.00	0.0	8.279	0.110	9	-1	1	1
000051810107...	OH3248	A	Consumer	7.55Y	125.9	0.00	0.14	0.00	0	0	0	100	0.00	0.0	8.075	0.110	0	0	0	0
000051810107...	OH3248	A	Consumer	7.55Y	125.9	0.00	0.14	1.26	0	10	-1	-100	0.00	0.0	8.075	0.110	10	-1	1	1
000051810107...	OH3248	A	Consumer	7.55Y	125.9	0.00	0.14	0.38	0	3	0	100	0.00	0.0	8.075	0.110	3	0	1	1
000051810107...	OH3248	A	Consumer	7.55Y	125.9	0.00	0.14	0.00	0	0	0	100	0.00	0.0	8.075	0.110	0	0	0	0
000051810107...	OH3248	A	Consumer	7.55Y	125.9	0.00	0.14	0.43	0	3	0	100	0.00	0.0	8.075	0.110	3	0	1	1
000051810107...	OH3248	A	Consumer	7.55Y	125.9	0.00	0.14	0.41	0	3	0	100	0.00	0.0	8.075	0.110	3	0	1	1
OH29525	OH29524	A	4 ACSR 7/1	7.56Y	125.9	0.00	0.08	0.00	0	0	0	100	0.00	0.0	8.029	0.020	0	0	0	1
000051810107...	OH29525	A	Consumer	7.56Y	125.9	0.00	0.08	0.00	0	0	0	100	0.00	0.0	8.029	0.020	0	0	1	1
000061330507...	OH1833	A	Consumer	7.56Y	126.1	0.00	-0.08	0.00	0	0	0	100	0.00	0.0	7.823	0.020	0	0	0	0
000061330507...	OH1833	A	Consumer	7.56Y	126.1	0.00	-0.08	0.00	0	0	0	100	0.00	0.0	7.823	0.020	0	0	0	0
000061330507...	OH1833	A	Consumer	7.56Y	126.1	0.00	-0.08	1.96	0	15	-1	-100	0.00	0.0	7.823	0.020	15	-1	1	1
000061330508...	REG3701	A	Consumer	7.61Y	126.8	0.00	-0.78	0.00	0	0	0	100	0.00	0.0	7.203	0.020	0	0	0	0
000061330508...	REG3701	A	Consumer	7.61Y	126.8	0.00	-0.78	0.00	0	0	0	100	0.00	0.0	7.203	0.020	0	0	1	1
OH2739	OH2738	B	4 ACSR 7/1	7.22Y	120.4	0.01	5.59	1.45	1	10	-1	-100	0.00	0.0	6.759	0.117	0	0	0	2
000061330508...	OH2739	B	Consumer	7.22Y	120.4	0.00	5.59	0.56	0	4	0	100	0.00	0.0	6.759	0.117	4	0	1	1
000061330508...	OH2739	B	Consumer	7.22Y	120.4	0.00	5.59	0.89	0	6	-1	-99	0.00	0.0	6.759	0.117	6	-1	1	1
OH2731	OH2564	C	4 ACSR 7/1	7.24Y	120.7	0.00	5.33	0.57	0	4	2	89	0.00	0.0	6.565	0.111	0	0	0	2
OH2732	OH2731	C	4 ACSR 7/1	7.24Y	120.7	0.00	5.33	0.05	0	0	0	100	0.00	0.0	6.629	0.064	0	0	0	1
000061330508...	OH2732	C	Consumer	7.24Y	120.7	0.00	5.33	0.05	0	0	0	100	0.00	0.0	6.629	0.064	0	0	1	1
000061330508...	OH2732	C	Consumer	7.24Y	120.7	0.00	5.33	0.00	0	0	0	100	0.00	0.0	6.629	0.064	0	0	0	0
000061330508...	OH2731	C	Consumer	7.24Y	120.7	0.00	5.33	0.53	0	3	2	83	0.00	0.0	6.565	0.064	3	2	1	1
OH2653	OH2564	C	4 ACSR 7/1	7.24Y	120.6	0.07	5.40	7.26	5	52	-5	-100	0.03	0.1	6.711	0.258	0	0	0	9

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													mi		-----Element-----			
		-Base Voltage:120.0-													From	Length			Cons	Cons
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	Src	(mi)	KW	KVAR	On	Thru
OH2648	OH2653	C	4 ACSR 7/1	7.24Y	120.6	0.01	5.40	7.26	5	52	-5	-100	0.00	0.0	6.736	0.024	0	0	0	9
OH2654	OH2648	C	4 ACSR 7/1	7.24Y	120.6	0.00	5.40	0.00	0	0	0	100	0.00	0.0	6.784	0.049	0	0	0	1
000061330509...	OH2654	C	Consumer	7.24Y	120.6	0.00	5.40	0.00	0	0	0	100	0.00	0.0	6.784	0.049	0	0	1	1
OH2652	OH2648	C	4 ACSR 7/1	7.23Y	120.6	0.01	5.42	6.41	5	46	-4	-100	0.01	0.0	6.789	0.054	0	0	0	7
OH2651	OH2652	C	4 ACSR 7/1	7.23Y	120.6	0.01	5.43	6.41	5	46	-4	-100	0.00	0.0	6.838	0.049	0	0	0	7
OH2656	OH2651	C	4 ACSR 7/1	7.23Y	120.6	0.00	5.43	0.00	0	0	0	100	0.00	0.0	6.931	0.093	0	0	0	1
000061330509...	OH2656	C	Consumer	7.23Y	120.6	0.00	5.43	0.00	0	0	0	100	0.00	0.0	6.931	0.093	0	0	1	1
OH2655	OH2651	C	4 ACSR 7/1	7.23Y	120.6	0.01	5.44	2.35	2	17	-2	-99	0.00	0.0	6.913	0.075	0	0	0	2
OH2713	OH2655	C	4 ACSR 7/1	7.23Y	120.6	0.00	5.44	2.35	2	17	-2	-99	0.00	0.0	6.954	0.042	0	0	0	1
000061330509...	OH2713	C	Consumer	7.23Y	120.6	0.00	5.44	2.35	0	17	-2	-99	0.00	0.0	6.954	0.042	17	-2	1	1
000061330509...	OH2655	C	Consumer	7.23Y	120.6	0.00	5.44	0.00	0	0	0	100	0.00	0.0	6.913	0.042	0	0	1	1
OH2650	OH2651	C	4 ACSR 7/1	7.23Y	120.6	0.02	5.45	4.06	3	29	-3	-99	0.00	0.0	6.959	0.121	0	0	0	4
OH2657	OH2650	C	4 ACSR 7/1	7.23Y	120.5	0.01	5.46	2.15	2	15	-1	-100	0.00	0.0	7.070	0.111	0	0	0	3
OH2658	OH2657	C	4 ACSR 7/1	7.23Y	120.5	0.01	5.46	0.77	1	6	-1	-99	0.00	0.0	7.316	0.246	0	0	0	2
OH30247	OH2658	C	4 ACSR 7/1	7.23Y	120.5	0.00	5.46	0.00	0	0	0	100	0.00	0.0	7.358	0.042	0	0	0	1
000061330509...	OH30247	C	Consumer	7.23Y	120.5	0.00	5.46	0.00	0	0	0	100	0.00	0.0	7.358	0.042	0	0	1	1
000061330509...	OH2658	C	Consumer	7.23Y	120.5	0.00	5.46	0.77	0	6	-1	-99	0.00	0.0	7.316	0.042	6	-1	1	1
000061330509...	OH2657	C	Consumer	7.23Y	120.5	0.00	5.46	1.39	0	10	-1	-100	0.00	0.0	7.070	0.042	10	-1	1	1
OH2649	OH2650	C	4 ACSR 7/1	7.23Y	120.5	0.00	5.45	1.91	1	14	-1	-100	0.00	0.0	7.006	0.047	0	0	0	1
000061330509...	OH2649	C	Consumer	7.23Y	120.5	0.00	5.45	1.91	0	14	-1	-100	0.00	0.0	7.006	0.047	14	-1	1	1
000061330509...	OH2651	C	Consumer	7.23Y	120.6	0.00	5.43	0.00	0	0	0	100	0.00	0.0	6.838	0.047	0	0	0	0
000061330509...	OH2652	C	Consumer	7.23Y	120.6	0.00	5.42	0.00	0	0	0	100	0.00	0.0	6.789	0.047	0	0	0	0
000061330509...	OH2648	C	Consumer	7.24Y	120.6	0.00	5.40	0.85	0	6	-1	-99	0.00	0.0	6.736	0.047	6	-1	1	1
000061330509...	OH2648	C	Consumer	7.24Y	120.6	0.00	5.40	0.00	0	0	0	100	0.00	0.0	6.736	0.047	0	0	0	0
000061330508...	OH2564	A	Consumer	7.24Y	120.7	0.00	5.32	0.00	0	0	0	100	0.00	0.0	6.453	0.047	0	0	0	0
000061330509...	OH2560	A	Consumer	7.25Y	120.9	0.00	5.10	0.00	0	0	0	100	0.00	0.0	6.293	0.047	0	0	0	0
000061330509...	OH2585	A	Consumer	7.26Y	121.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	6.146	0.047	0	0	0	0
000061330509...	OH2567	C	Consumer	7.27Y	121.2	0.00	4.85	0.50	0	4	0	100	0.00	0.0	5.818	0.047	4	0	1	1
OH2396	OH2391	A	4 ACSR 7/1	7.27Y	121.2	0.01	4.82	2.12	2	15	-1	-100	0.00	0.0	5.896	0.157	0	0	0	1
000061900000...	OH2396	A	Consumer	7.27Y	121.2	0.00	4.82	2.12	0	15	-1	-100	0.00	0.0	5.896	0.157	15	-1	1	1
000061900000...	OH2396	A	Consumer	7.27Y	121.2	0.00	4.82	0.00	0	0	0	100	0.00	0.0	5.896	0.157	0	0	0	0
OH2392	OH2391	A	4 ACSR 7/1	7.27Y	121.2	0.00	4.81	1.05	1	8	-1	-99	0.00	0.0	5.860	0.121	0	0	0	1
000061900000...	OH2392	A	Consumer	7.27Y	121.2	0.00	4.81	0.00	0	0	0	100	0.00	0.0	5.860	0.121	0	0	0	0
000061900000...	OH2392	A	Consumer	7.27Y	121.2	0.00	4.81	1.05	0	8	-1	-99	0.00	0.0	5.860	0.121	8	-1	1	1
000061900000...	OH2390	A	Consumer	7.28Y	121.4	0.00	4.61	0.00	0	0	0	100	0.00	0.0	5.376	0.121	0	0	0	0
000061900000...	OH2389	A	Consumer	7.29Y	121.5	0.00	4.53	0.00	0	0	0	100	0.00	0.0	5.242	0.121	0	0	0	0
000061900000...	OH2389	A	Consumer	7.29Y	121.5	0.00	4.53	0.00	0	0	0	100	0.00	0.0	5.242	0.121	0	0	0	0

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts														-----Element-----				
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OH2380	OH2308	C	6A CWC 3 S	7.28Y	121.4	0.14	4.61	19.17	14	139	-13	-100	0.18	0.1	5.319	0.195	0	0	0	19
OH2428	OH2380	C	6A CWC 3 S	7.28Y	121.3	0.09	4.71	16.11	12	117	-11	-100	0.10	0.1	5.469	0.151	0	0	0	17
OH2445	OH2428	C	6A CWC 3 S	7.27Y	121.2	0.12	4.82	11.84	8	86	-8	-100	0.09	0.1	5.726	0.257	0	0	0	14
OH2458	OH2445	C	6A CWC 3 S	7.27Y	121.2	0.02	4.84	4.87	3	35	-3	-100	0.01	0.0	5.826	0.100	0	0	0	9
OH2543	OH2458	C	6A CWC 3 S	7.27Y	121.2	0.01	4.85	2.83	2	20	-2	-100	0.00	0.0	5.879	0.053	0	0	0	6
OH2544	OH2543	C	6A CWC 3 S	7.27Y	121.1	0.03	4.88	2.77	2	20	-2	-100	0.00	0.0	6.143	0.264	0	0	0	3
OH2545	OH2544	C	6A CWC 3 S	7.27Y	121.1	0.02	4.90	1.85	1	13	-1	-100	0.00	0.0	6.422	0.279	0	0	0	2
000052400001...	OH2545	C	Consumer	7.27Y	121.1	0.00	4.90	0.00	0	0	0	100	0.00	0.0	6.422	0.279	0	0	1	1
000052400001...	OH2545	C	Consumer	7.27Y	121.1	0.00	4.90	1.85	0	13	-1	-100	0.00	0.0	6.422	0.279	13	-1	1	1
000052400001...	OH2545	C	Consumer	7.27Y	121.1	0.00	4.90	0.00	0	0	0	100	0.00	0.0	6.422	0.279	0	0	0	0
000052400001...	OH2545	C	Consumer	7.27Y	121.1	0.00	4.90	0.00	0	0	0	100	0.00	0.0	6.422	0.279	0	0	0	0
000052400001...	OH2544	C	Consumer	7.27Y	121.1	0.00	4.90	0.00	0	0	0	100	0.00	0.0	6.422	0.279	0	0	0	0
000052400001...	OH2544	C	Consumer	7.27Y	121.1	0.00	4.88	0.91	0	7	-1	-99	0.00	0.0	6.143	0.279	7	-1	1	1
OH2539	OH2543	C	6A CWC 3 S	7.27Y	121.2	0.00	4.85	0.06	0	0	0	100	0.00	0.0	5.880	0.001	0	0	0	3
OH2540	OH2539	C	6A CWC 3 S	7.27Y	121.2	0.00	4.85	0.06	0	0	0	100	0.00	0.0	5.989	0.109	0	0	0	3
OH2541	OH2540	C	6A CWC 3 S	7.27Y	121.2	0.00	4.85	0.06	0	0	0	100	0.00	0.0	6.036	0.046	0	0	0	2
OH1918	OH2541	C	6A CWC 3 S	7.27Y	121.2	0.00	4.85	0.00	0	0	0	100	0.00	0.0	6.298	0.263	0	0	0	1
000052400000...	OH1918	C	Consumer	7.27Y	121.2	0.00	4.85	0.00	0	0	0	100	0.00	0.0	6.298	0.263	0	0	1	1
000052400000...	OH2541	C	Consumer	7.27Y	121.2	0.00	4.85	0.06	0	0	0	100	0.00	0.0	6.036	0.263	0	0	1	1
000052400000...	OH2540	C	Consumer	7.27Y	121.2	0.00	4.85	0.00	0	0	0	100	0.00	0.0	5.989	0.263	0	0	1	1
000052400000...	OH2543	C	Consumer	7.27Y	121.2	0.00	4.85	0.00	0	0	0	100	0.00	0.0	5.879	0.263	0	0	0	0
000061900001...	OH2458	C	Consumer	7.27Y	121.2	0.00	4.84	0.00	0	0	0	100	0.00	0.0	5.826	0.263	0	0	1	1
000061900001...	OH2458	C	Consumer	7.27Y	121.2	0.00	4.84	0.71	0	5	0	100	0.00	0.0	5.826	0.263	5	0	1	1
000061900000...	OH2458	C	Consumer	7.27Y	121.2	0.00	4.84	0.00	0	0	0	100	0.00	0.0	5.826	0.263	0	0	0	0
000061900000...	OH2458	C	Consumer	7.27Y	121.2	0.00	4.84	0.00	0	0	0	100	0.00	0.0	5.826	0.263	0	0	0	0
000061900000...	OH2458	C	Consumer	7.27Y	121.2	0.00	4.84	1.34	0	10	-1	-100	0.00	0.0	5.826	0.263	10	-1	1	1
000052400000...	OH2458	C	Consumer	7.27Y	121.2	0.00	4.84	0.00	0	0	0	100	0.00	0.0	5.826	0.263	0	0	0	0
OH2447	OH2445	C	6A CWC 3 S	7.27Y	121.2	0.01	4.84	1.82	1	13	-1	-100	0.00	0.0	5.920	0.193	0	0	0	2
OH2449	OH2447	C	6A CWC 3 S	7.27Y	121.2	0.01	4.85	0.76	1	5	-1	-98	0.00	0.0	6.322	0.402	0	0	0	1
000061900001...	OH2449	C	Consumer	7.27Y	121.2	0.00	4.85	0.76	0	5	-1	-98	0.00	0.0	6.322	0.402	5	-1	1	1
OH2448	OH2447	C	6A CWC 3 S	7.27Y	121.2	0.01	4.85	1.06	1	8	-1	-99	0.00	0.0	6.141	0.221	0	0	0	1
000061900001...	OH2448	C	Consumer	7.27Y	121.2	0.00	4.85	1.06	0	8	-1	-99	0.00	0.0	6.141	0.221	8	-1	1	1
000061900001...	OH2447	C	Consumer	7.27Y	121.2	0.00	4.84	0.00	0	0	0	100	0.00	0.0	5.920	0.221	0	0	0	0
000061900001...	OH2447	C	Consumer	7.27Y	121.2	0.00	4.84	0.00	0	0	0	100	0.00	0.0	5.920	0.221	0	0	0	0
OH2446	OH2445	C	6A CWC 3 S	7.27Y	121.2	0.00	4.83	0.63	0	5	0	100	0.00	0.0	5.867	0.140	0	0	0	1
000061900000...	OH2446	C	Consumer	7.27Y	121.2	0.00	4.83	0.63	0	5	0	100	0.00	0.0	5.867	0.140	5	0	1	1
000061900000...	OH2445	C	Consumer	7.27Y	121.2	0.00	4.82	2.55	0	18	-2	-99	0.00	0.0	5.726	0.140	18	-2	1	1
000061900000...	OH2445	C	Consumer	7.27Y	121.2	0.00	4.82	0.00	0	0	0	100	0.00	0.0	5.726	0.140	0	0	0	0
000061900000...	OH2445	C	Consumer	7.27Y	121.2	0.00	4.82	1.96	0	14	-1	-100	0.00	0.0	5.726	0.140	14	-1	1	1

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													-----Element-----					
		-Base Voltage:120.0-													mi	Length			Cons	
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	(mi)	KW	KVAR	On	Thru
000061900000...	OH2445	C	Consumer	7.27Y	121.2	0.00	4.82	0.00	0	0	0	100	0.00	0.0	5.726	0.140	0	0	0	0
000061900000...	OH2445	C	Consumer	7.27Y	121.2	0.00	4.82	0.00	0	0	0	100	0.00	0.0	5.726	0.140	0	0	0	0
000061900001...	OH2428	C	Consumer	7.28Y	121.3	0.00	4.71	1.26	0	9	-1	-99	0.00	0.0	5.469	0.140	9	-1	1	1
000061900000...	OH2428	C	Consumer	7.28Y	121.3	0.00	4.71	2.47	0	18	-2	-99	0.00	0.0	5.469	0.140	18	-2	1	1
000061900000...	OH2428	C	Consumer	7.28Y	121.3	0.00	4.71	0.55	0	4	0	100	0.00	0.0	5.469	0.140	4	0	1	1
000061900000...	OH2428	C	Consumer	7.28Y	121.3	0.00	4.71	0.00	0	0	0	100	0.00	0.0	5.469	0.140	0	0	0	0
000061900000...	OH2428	C	Consumer	7.28Y	121.3	0.00	4.71	0.00	0	0	0	100	0.00	0.0	5.469	0.140	0	0	0	0
OH2381	OH2380	C	6A CWC 3 S	7.28Y	121.4	0.01	4.62	2.25	2	16	-2	-99	0.00	0.0	5.432	0.113	0	0	0	1
OH29408	OH2381	C	6A CWC 3 S	7.28Y	121.4	0.00	4.62	0.00	0	0	0	100	0.00	0.0	5.575	0.143	0	0	0	0
000061900000...	OH29408	C	Consumer	7.28Y	121.4	0.00	4.62	0.00	0	0	0	100	0.00	0.0	5.575	0.143	0	0	0	0
000061900000...	OH2381	C	Consumer	7.28Y	121.4	0.00	4.62	2.25	0	16	-2	-99	0.00	0.0	5.432	0.143	16	-2	1	1
000061900000...	OH2381	C	Consumer	7.28Y	121.4	0.00	4.62	0.00	0	0	0	100	0.00	0.0	5.432	0.143	0	0	0	0
000061900001...	OH2380	C	Consumer	7.28Y	121.4	0.00	4.61	0.82	0	6	-1	-99	0.00	0.0	5.319	0.143	6	-1	1	1
000061900001...	OH2380	C	Consumer	7.28Y	121.4	0.00	4.61	0.00	0	0	0	100	0.00	0.0	5.319	0.143	0	0	0	0
000061900001...	OH2379	C	Consumer	7.29Y	121.6	0.00	4.43	1.72	0	13	-1	-100	0.00	0.0	5.055	0.143	13	-1	1	1
000061900001...	OH2378	A	Consumer	7.30Y	121.6	0.00	4.38	1.67	0	12	-1	-100	0.00	0.0	4.960	0.143	12	-1	1	1
000061900001...	OH2378	A	Consumer	7.30Y	121.6	0.00	4.38	1.69	0	12	-1	-100	0.00	0.0	4.960	0.143	12	-1	1	1
000061900001...	OH2378	A	Consumer	7.30Y	121.6	0.00	4.38	1.68	0	12	-1	-100	0.00	0.0	4.960	0.143	12	-1	1	1
000061900001...	OH2378	A	Consumer	7.30Y	121.6	0.00	4.38	0.40	0	3	0	100	0.00	0.0	4.960	0.143	3	0	1	1
000061900001...	OH2377	C	Consumer	7.30Y	121.7	0.00	4.33	3.82	0	28	-3	-99	0.00	0.0	4.876	0.143	28	-3	1	1
000061900001...	OH2377	C	Consumer	7.30Y	121.7	0.00	4.33	1.41	0	10	-1	-100	0.00	0.0	4.876	0.143	10	-1	1	1
000061900001...	OH2377	C	Consumer	7.30Y	121.7	0.00	4.33	0.00	0	0	0	100	0.00	0.0	4.876	0.143	0	0	0	0
OH2376	OH2314	A	4 ACSR 7/1	7.30Y	121.7	0.00	4.26	0.00	0	0	0	100	0.00	0.0	4.875	0.107	0	0	0	0
000061900001...	OH2376	A	Consumer	7.30Y	121.7	0.00	4.26	0.00	0	0	0	100	0.00	0.0	4.875	0.107	0	0	0	0
000061900001...	OH2376	A	Consumer	7.30Y	121.7	0.00	4.26	0.00	0	0	0	100	0.00	0.0	4.875	0.107	0	0	0	0
000061900001...	OH2314	B	Consumer	7.30Y	121.7	0.00	4.26	2.02	0	15	-1	-100	0.00	0.0	4.769	0.107	15	-1	1	1
000061900001...	OH2314	B	Consumer	7.30Y	121.7	0.00	4.26	2.14	0	16	-1	-100	0.00	0.0	4.769	0.107	16	-1	1	1
000061900001...	OH2314	B	Consumer	7.30Y	121.7	0.00	4.26	1.39	0	10	-1	-100	0.00	0.0	4.769	0.107	10	-1	1	1
000061900001...	OH2314	B	Consumer	7.30Y	121.7	0.00	4.26	0.00	0	0	0	100	0.00	0.0	4.769	0.107	0	0	0	0
000061900001...	OH30281	C	Consumer	7.31Y	121.9	0.00	4.15	0.76	0	6	-1	-99	0.00	0.0	4.579	0.107	6	-1	1	1
OH2312	OH2306	A	4 ACSR 7/1	7.31Y	121.9	0.02	4.10	4.39	3	32	-3	-100	0.00	0.0	4.560	0.091	0	0	0	3
OH2313	OH2312	A	4 ACSR 7/1	7.31Y	121.9	0.00	4.10	0.00	0	0	0	100	0.00	0.0	4.687	0.127	0	0	0	1
000061900001...	OH2313	A	Consumer	7.31Y	121.9	0.00	4.10	0.00	0	0	0	100	0.00	0.0	4.687	0.127	0	0	0	0
000061900001...	OH2313	A	Consumer	7.31Y	121.9	0.00	4.10	0.00	0	0	0	100	0.00	0.0	4.687	0.127	0	0	0	0
000061900001...	OH2313	A	Consumer	7.31Y	121.9	0.00	4.10	0.00	0	0	0	100	0.00	0.0	4.687	0.127	0	0	1	1
000061900001...	OH2312	A	Consumer	7.31Y	121.9	0.00	4.10	2.92	0	21	-2	-100	0.00	0.0	4.560	0.127	21	-2	1	1
000061900001...	OH2312	A	Consumer	7.31Y	121.9	0.00	4.10	0.00	0	0	0	100	0.00	0.0	4.560	0.127	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													-----Element-----					
		-Base Voltage:120.0-													mi					
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
000061900001...	OH2312	A	Consumer	7.31Y	121.9	0.00	4.10	1.46	0	11	-1	-100	0.00	0.0	4.560	0.127	11	-1	1	1
000061900001...	OH2306	C	Consumer	7.32Y	121.9	0.00	4.08	1.16	0	8	-1	-99	0.00	0.0	4.469	0.127	8	-1	1	1
000061900001...	OH2351	B	Consumer	7.32Y	122.0	0.00	4.04	1.36	0	10	-1	-100	0.00	0.0	4.410	0.127	10	-1	1	1
000061900001...	OH2351	B	Consumer	7.32Y	122.0	0.00	4.04	0.87	0	6	-1	-99	0.00	0.0	4.410	0.127	6	-1	1	1
000061900001...	OH2351	B	Consumer	7.32Y	122.0	0.00	4.04	0.00	0	0	0	100	0.00	0.0	4.410	0.127	0	0	0	0
000061900001...	OH2351	B	Consumer	7.32Y	122.0	0.00	4.04	1.19	0	9	-1	-99	0.00	0.0	4.410	0.127	9	-1	1	1
OH2310	OH2305	B	4 ACSR 7/1	7.32Y	122.0	0.01	4.02	1.21	1	9	-1	-99	0.00	0.0	4.546	0.191	0	0	0	2
000061900001...	OH2310	B	Consumer	7.32Y	122.0	0.00	4.02	0.66	0	5	0	100	0.00	0.0	4.546	0.191	5	0	1	1
000061900001...	OH2310	B	Consumer	7.32Y	122.0	0.00	4.02	0.54	0	4	0	100	0.00	0.0	4.546	0.191	4	0	1	1
000061900001...	OH2304	B	Consumer	7.32Y	122.0	0.00	3.96	1.78	0	13	-1	-100	0.00	0.0	4.274	0.191	13	-1	1	1
000061900001...	OH2304	B	Consumer	7.32Y	122.0	0.00	3.96	0.00	0	0	0	100	0.00	0.0	4.274	0.191	0	0	1	1
000061900001...	OH2304	B	Consumer	7.32Y	122.0	0.00	3.96	1.15	0	8	-1	-99	0.00	0.0	4.274	0.191	8	-1	1	1
000061900001...	OH2323	A	Consumer	7.32Y	122.1	0.00	3.93	0.00	0	0	0	100	0.00	0.0	4.231	0.191	0	0	0	0
000061900001...	OH2322	A	Consumer	7.33Y	122.1	0.00	3.88	0.00	0	0	0	100	0.00	0.0	4.150	0.191	0	0	0	0
OH2107	OH2102	C	4 ACSR 7/1	7.33Y	122.2	0.00	3.81	0.29	0	2	0	100	0.00	0.0	4.099	0.052	0	0	0	1
OH2105	OH2107	C	4 ACSR 7/1	7.33Y	122.2	0.00	3.81	0.29	0	2	0	100	0.00	0.0	4.279	0.181	0	0	0	1
000061940400...	OH2105	C	Consumer	7.33Y	122.2	0.00	3.81	0.29	0	2	0	100	0.00	0.0	4.279	0.181	2	0	1	1
000061940401...	OH2107	C	Consumer	7.33Y	122.2	0.00	3.81	0.00	0	0	0	100	0.00	0.0	4.099	0.181	0	0	0	0
000061940401...	OH2107	C	Consumer	7.33Y	122.2	0.00	3.81	0.00	0	0	0	100	0.00	0.0	4.099	0.181	0	0	0	0
000061940401...	OH2101	A	Consumer	7.34Y	122.3	0.00	3.75	0.00	0	0	0	100	0.00	0.0	3.950	0.181	0	0	0	0
000061940401...	OH2111	A	Consumer	7.34Y	122.3	0.00	3.67	0.00	0	0	0	100	0.00	0.0	3.824	0.181	0	0	0	0
000061940401...	OH2113	B	Consumer	7.34Y	122.4	0.00	3.63	1.47	0	11	-1	-100	0.00	0.0	3.765	0.181	11	-1	1	1
OH2104	OH2099	A	4 ACSR 7/1	7.34Y	122.4	0.00	3.60	0.00	0	0	0	100	0.00	0.0	3.985	0.262	0	0	0	0
000061940401...	OH2104	A	Consumer	7.34Y	122.4	0.00	3.60	0.00	0	0	0	100	0.00	0.0	3.985	0.262	0	0	0	0
000061940401...	OH2115	A	Consumer	7.35Y	122.5	0.00	3.53	0.00	0	0	0	100	0.00	0.0	3.621	0.262	0	0	0	0
OH2103	OH2100	B	4 ACSR 7/1	7.35Y	122.5	0.00	3.51	0.42	0	3	0	100	0.00	0.0	3.666	0.079	0	0	0	1
000061940401...	OH2103	B	Consumer	7.35Y	122.5	0.00	3.51	0.42	0	3	0	100	0.00	0.0	3.666	0.079	3	0	1	1
OH2097	OH2087	C	4 ACSR 7/1	7.36Y	122.6	0.01	3.38	3.72	3	27	-3	-99	0.00	0.0	3.434	0.064	0	0	0	2
000061940401...	OH2097	C	Consumer	7.36Y	122.6	0.00	3.38	1.84	0	14	-1	-100	0.00	0.0	3.434	0.064	14	-1	1	1
000061940400...	OH2097	C	Consumer	7.36Y	122.6	0.00	3.38	1.88	0	14	-1	-100	0.00	0.0	3.434	0.064	14	-1	1	1
000061940400...	OH2087	A	Consumer	7.36Y	122.6	0.00	3.37	0.00	0	0	0	100	0.00	0.0	3.370	0.064	0	0	0	0
000061940400...	OH2087	A	Consumer	7.36Y	122.6	0.00	3.37	0.00	0	0	0	100	0.00	0.0	3.370	0.064	0	0	0	0
000061940400...	OH2087	A	Consumer	7.36Y	122.6	0.00	3.37	0.00	0	0	0	100	0.00	0.0	3.370	0.064	0	0	0	0
000061940400...	OH2085	B	Consumer	7.37Y	122.8	0.00	3.21	2.06	0	15	-1	-100	0.00	0.0	3.135	0.064	15	-1	1	1
000061940400...	OH2085	B	Consumer	7.37Y	122.8	0.00	3.21	0.79	0	6	-1	-99	0.00	0.0	3.135	0.064	6	-1	1	1
000061940400...	OH2084	B	Consumer	7.37Y	122.8	0.00	3.18	1.95	0	14	-1	-100	0.00	0.0	3.085	0.064	14	-1	1	1
000061940400...	OH2084	B	Consumer	7.37Y	122.8	0.00	3.18	0.00	0	0	0	100	0.00	0.0	3.085	0.064	0	0	0	0

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
000061940400...	OH2084	B	Consumer	7.37Y	122.8	0.00	3.18	0.46	0	3	0	100	0.00	0.0	3.085	0.064	3	0	1	1
OH2092	OH2083	A	4 ACSR 7/1	7.37Y	122.9	0.02	3.14	3.20	2	24	-2	-100	0.00	0.0	3.145	0.145	0	0	0	1
000061940400...	OH2092	A	Consumer	7.37Y	122.9	0.00	3.14	3.20	0	23	-2	-100	0.00	0.0	3.145	0.145	23	-2	1	1
OH2091	OH2083	A	4 ACSR 7/1	7.37Y	122.9	0.01	3.12	2.58	2	19	-2	-99	0.00	0.0	3.061	0.062	0	0	0	3
000061940400...	OH2091	A	Consumer	7.37Y	122.9	0.00	3.12	0.83	0	6	-1	-99	0.00	0.0	3.061	0.062	6	-1	1	1
000061940400...	OH2091	A	Consumer	7.37Y	122.9	0.00	3.12	1.60	0	12	-1	-100	0.00	0.0	3.061	0.062	12	-1	1	1
000061940400...	OH2091	A	Consumer	7.37Y	122.9	0.00	3.12	0.15	0	1	0	100	0.00	0.0	3.061	0.062	1	0	1	1
000061940400...	OH2083	A	Consumer	7.37Y	122.9	0.00	3.12	0.00	0	0	0	100	0.00	0.0	3.000	0.062	0	0	0	0
000061940400...	OH2082	A	Consumer	7.38Y	122.9	0.00	3.07	0.00	0	0	0	100	0.00	0.0	2.931	0.062	0	0	0	0
000061940400...	OH2082	A	Consumer	7.38Y	122.9	0.00	3.07	0.00	0	0	0	100	0.00	0.0	2.931	0.062	0	0	0	0
000061940400...	OH2082	A	Consumer	7.38Y	122.9	0.00	3.07	0.32	0	2	0	100	0.00	0.0	2.931	0.062	2	0	1	1
000061940400...	OH2082	A	Consumer	7.38Y	122.9	0.00	3.07	0.00	0	0	0	100	0.00	0.0	2.931	0.062	0	0	0	0
000061940400...	OH2082	A	Consumer	7.38Y	122.9	0.00	3.07	0.00	0	0	0	100	0.00	0.0	2.931	0.062	0	0	0	0
OH2076	OH2074	C	4 ACSR 7/1	7.38Y	123.0	0.01	3.02	2.41	2	18	-2	-99	0.00	0.0	2.969	0.121	0	0	0	2
000061330409...	OH2076	C	Consumer	7.38Y	123.0	0.00	3.02	0.00	0	0	0	100	0.00	0.0	2.969	0.121	0	0	0	0
OH2075	OH2076	C	4 ACSR 7/1	7.38Y	123.0	0.01	3.03	2.41	2	18	-2	-99	0.00	0.0	3.079	0.110	0	0	0	2
000061330409...	OH2075	C	Consumer	7.38Y	123.0	0.00	3.03	0.74	0	5	-1	-98	0.00	0.0	3.079	0.110	5	-1	1	1
000061330409...	OH2075	C	Consumer	7.38Y	123.0	0.00	3.03	1.67	0	12	-1	-100	0.00	0.0	3.079	0.110	12	-1	1	1
000061330409...	OH2060	B	Consumer	7.39Y	123.1	0.00	2.90	0.02	0	0	0	100	0.00	0.0	2.690	0.110	0	0	1	1
000061330409...	OH2060	B	Consumer	7.39Y	123.1	0.00	2.90	3.01	0	22	-2	-100	0.00	0.0	2.690	0.110	22	-2	1	1
000061330409...	OH2060	B	Consumer	7.39Y	123.1	0.00	2.90	0.00	0	0	0	100	0.00	0.0	2.690	0.110	0	0	0	0
000061330409...	OH2069	C	Consumer	7.39Y	123.1	0.00	2.88	0.10	0	1	0	100	0.00	0.0	2.659	0.110	1	0	1	1
000061330409...	OH2069	C	Consumer	7.39Y	123.1	0.00	2.88	0.02	0	0	0	100	0.00	0.0	2.659	0.110	0	0	1	1
000061330409...	OH2069	C	Consumer	7.39Y	123.1	0.00	2.88	0.00	0	0	0	100	0.00	0.0	2.659	0.110	0	0	0	0
OH2033	OH2032	C	4 ACSR 7/1	7.39Y	123.2	0.01	2.76	1.97	1	15	-1	-100	0.00	0.0	2.717	0.079	0	0	0	1
000061330409...	OH2033	C	Consumer	7.39Y	123.2	0.00	2.76	0.00	0	0	0	100	0.00	0.0	2.717	0.079	0	0	0	0
000061330409...	OH2033	C	Consumer	7.39Y	123.2	0.00	2.76	0.00	0	0	0	100	0.00	0.0	2.717	0.079	0	0	0	0
000061330409...	OH2033	C	Consumer	7.39Y	123.2	0.00	2.76	1.97	0	15	-1	-100	0.00	0.0	2.717	0.079	15	-1	1	1
000061330409...	OH2032	A	Consumer	7.39Y	123.2	0.00	2.76	0.00	0	0	0	100	0.00	0.0	2.638	0.079	0	0	0	0
000061330409...	OH2032	A	Consumer	7.39Y	123.2	0.00	2.76	0.00	0	0	0	100	0.00	0.0	2.638	0.079	0	0	0	0
000061330409...	OH2032	A	Consumer	7.39Y	123.2	0.00	2.76	0.00	0	0	0	100	0.00	0.0	2.638	0.079	0	0	0	0
000061330409...	OH2031	A	Consumer	7.40Y	123.3	0.00	2.73	0.65	0	5	0	100	0.00	0.0	2.603	0.079	5	0	1	1
OH2043	OH2042	A	4 ACSR 7/1	7.40Y	123.4	0.00	2.60	0.59	0	4	0	100	0.00	0.0	2.610	0.067	0	0	0	1
000061330409...	OH2043	A	Consumer	7.40Y	123.4	0.00	2.60	0.59	0	4	0	100	0.00	0.0	2.610	0.067	4	0	1	1
OH1927	OH1925	A	4 ACSR 7/1	7.41Y	123.5	0.00	2.52	0.00	0	0	0	100	0.00	0.0	2.569	0.128	0	0	0	0
000061330409...	OH1927	A	Consumer	7.41Y	123.5	0.00	2.52	0.00	0	0	0	100	0.00	0.0	2.569	0.128	0	0	0	0
000061330409...	OH1927	A	Consumer	7.41Y	123.5	0.00	2.52	0.00	0	0	0	100	0.00	0.0	2.569	0.128	0	0	0	0
OH1932	OH1920	A	4 ACSR 7/1	7.44Y	123.9	0.00	2.06	1.30	1	10	-1	-100	0.00	0.0	1.847	0.041	0	0	0	1

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													-----Element-----					
		-Base Voltage:120.0-													mi					
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
000061940400...	OH1932	A	Consumer	7.44Y	123.9	0.00	2.06	1.30	0	10	-1	-100	0.00	0.0	1.847	0.041	10	-1	1	1
OH1934	OH1933	A	4 ACSR 7/1	7.45Y	124.1	0.01	1.88	1.34	1	10	-1	-100	0.00	0.0	1.728	0.170	0	0	0	1
000061940401...	OH1934	A	Consumer	7.45Y	124.1	0.00	1.88	1.34	0	10	-1	-100	0.00	0.0	1.728	0.170	10	-1	1	1
000061940401...	OH1915	B	Consumer	7.48Y	124.6	0.00	1.37	0.07	0	1	0	100	0.00	0.0	1.045	0.170	1	0	1	1
000061940401...	OH1915	B	Consumer	7.48Y	124.6	0.00	1.37	1.88	0	14	-1	-100	0.00	0.0	1.045	0.170	14	-1	1	1
000061940401...	OH1915	B	Consumer	7.48Y	124.6	0.00	1.37	2.06	0	15	-1	-100	0.00	0.0	1.045	0.170	15	-1	1	1
000061940401...	OH1855	C	Consumer	7.48Y	124.7	0.00	1.29	1.77	0	13	-1	-100	0.00	0.0	0.984	0.170	13	-1	1	1
OCR-2225	OH1854	B	25-4H OCR	7.49Y	124.8	0.00	1.19	10.72	0	80	-7	-100	0.00	0.0	0.906	0.170	0	0	0	12
OH1940	OCR-2225	B	4 ACSR 7/1	7.48Y	124.7	0.09	1.29	10.72	8	80	-7	-100	0.06	0.1	1.133	0.227	0	0	0	12
OH1967	OH1940	B	4 ACSR 7/1	7.48Y	124.6	0.10	1.38	8.10	6	60	-6	-100	0.05	0.1	1.441	0.308	0	0	0	9
OH1969	OH1967	B	4 ACSR 7/1	7.48Y	124.6	0.02	1.40	7.54	5	56	-5	-100	0.01	0.0	1.506	0.064	0	0	0	8
OH1973	OH1969	B	4 ACSR 7/1	7.47Y	124.6	0.03	1.43	3.66	3	27	-3	-99	0.01	0.0	1.685	0.180	0	0	0	4
OH1975	OH1973	B	4 ACSR 7/1	7.47Y	124.6	0.02	1.44	3.07	2	23	-2	-100	0.00	0.0	1.830	0.145	0	0	0	3
OH1981	OH1975	B	4 ACSR 7/1	7.47Y	124.5	0.02	1.47	2.12	2	16	-1	-100	0.00	0.0	2.109	0.279	0	0	0	2
OH1970	OH1981	B	4 ACSR 7/1	7.47Y	124.5	0.00	1.47	0.72	1	5	0	100	0.00	0.0	2.158	0.049	0	0	0	1
000061900001...	OH1970	B	Consumer	7.47Y	124.5	0.00	1.47	0.72	0	5	0	100	0.00	0.0	2.158	0.049	5	0	1	1
000061940401...	OH1981	B	Consumer	7.47Y	124.5	0.00	1.47	1.40	0	10	-1	-100	0.00	0.0	2.109	0.049	10	-1	1	1
000061940401...	OH1975	B	Consumer	7.47Y	124.6	0.00	1.44	0.95	0	7	-1	-99	0.00	0.0	1.830	0.049	7	-1	1	1
000061940401...	OH1973	B	Consumer	7.47Y	124.6	0.00	1.43	0.60	0	4	0	100	0.00	0.0	1.685	0.049	4	0	1	1
OH1968	OH1969	B	4 ACSR 7/1	7.47Y	124.6	0.04	1.44	3.88	3	29	-3	-99	0.01	0.0	1.785	0.280	0	0	0	4
OH1966	OH1968	B	4 ACSR 7/1	7.47Y	124.6	0.00	1.44	0.00	0	0	0	100	0.00	0.0	1.892	0.107	0	0	0	0
000061940401...	OH1966	B	Consumer	7.47Y	124.6	0.00	1.44	0.00	0	0	0	100	0.00	0.0	1.892	0.107	0	0	0	0
000061940401...	OH1968	B	Consumer	7.47Y	124.6	0.00	1.44	2.60	0	19	-2	-99	0.00	0.0	1.785	0.107	19	-2	1	1
000061940401...	OH1968	B	Consumer	7.47Y	124.6	0.00	1.44	0.22	0	2	0	100	0.00	0.0	1.785	0.107	2	0	1	1
000061940401...	OH1968	B	Consumer	7.47Y	124.6	0.00	1.44	0.00	0	0	0	100	0.00	0.0	1.785	0.107	0	0	0	0
000061940401...	OH1968	B	Consumer	7.47Y	124.6	0.00	1.44	0.99	0	7	-1	-99	0.00	0.0	1.785	0.107	7	-1	1	1
000061940401...	OH1968	B	Consumer	7.47Y	124.6	0.00	1.44	0.07	0	0	0	100	0.00	0.0	1.785	0.107	0	0	1	1
000061940401...	OH1967	B	Consumer	7.48Y	124.6	0.00	1.38	0.56	0	4	0	100	0.00	0.0	1.441	0.107	4	0	1	1
OH1962	OH1940	B	4 ACSR 7/1	7.48Y	124.7	0.00	1.29	2.62	2	19	-2	-99	0.00	0.0	1.168	0.035	0	0	0	3
OH1945	OH1962	B	4 ACSR 7/1	7.48Y	124.7	0.05	1.34	2.62	2	19	-2	-99	0.01	0.0	1.655	0.487	0	0	0	3
OH1947	OH1945	B	4 ACSR 7/1	7.48Y	124.7	0.00	1.34	0.00	0	0	0	100	0.00	0.0	1.830	0.175	0	0	0	1
OH1950	OH1947	B	4 ACSR 7/1	7.48Y	124.7	0.00	1.34	0.00	0	0	0	100	0.00	0.0	1.903	0.073	0	0	0	0
000061940400...	OH1950	B	Consumer	7.48Y	124.7	0.00	1.34	0.00	0	0	0	100	0.00	0.0	1.903	0.073	0	0	0	0
OH1949	OH1947	B	4 ACSR 7/1	7.48Y	124.7	0.00	1.34	0.00	0	0	0	100	0.00	0.0	1.891	0.061	0	0	0	0
000061940400...	OH1949	B	Consumer	7.48Y	124.7	0.00	1.34	0.00	0	0	0	100	0.00	0.0	1.891	0.061	0	0	0	0
OH1948	OH1947	B	4 ACSR 7/1	7.48Y	124.7	0.00	1.34	0.00	0	0	0	100	0.00	0.0	2.061	0.231	0	0	0	1
000061940400...	OH1948	B	Consumer	7.48Y	124.7	0.00	1.34	0.00	0	0	0	100	0.00	0.0	2.061	0.231	0	0	1	1

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Argentum-#1

Database: G:\003681\07-70078-01263 LRP&CWP\WORK PRODUCTS\GRECCWORKPLANMODEL\BASE CASE FIX.WM\
Title: GRECC - Sample Load Flows
Case: Argentum Feeder 2 - LL20 With Improvements

		Units Displayed In Volts													-----Element-----					
		-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	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OH1944	OH1945	B	4 ACSR 7/1	7.48Y	124.7	0.01	1.35	2.61	2	19	-2	-99	0.00	0.0	1.747	0.093	0	0	0	2
OH1955	OH1944	B	4 ACSR 7/1	7.48Y	124.6	0.01	1.36	2.50	2	19	-2	-99	0.00	0.0	1.827	0.079	0	0	0	1
OH1956	OH1955	B	4 ACSR 7/1	7.48Y	124.6	0.00	1.36	2.50	2	19	-2	-99	0.00	0.0	1.865	0.039	0	0	0	1
000061940400...	OH1956	B	Consumer	7.48Y	124.6	0.00	1.36	2.50	0	19	-2	-99	0.00	0.0	1.865	0.039	19	-2	1	1
OH1946	OH1955	B	4 ACSR 7/1	7.48Y	124.6	0.00	1.36	0.00	0	0	0	100	0.00	0.0	1.927	0.100	0	0	0	0
000061900000...	OH1946	B	Consumer	7.48Y	124.6	0.00	1.36	0.00	0	0	0	100	0.00	0.0	1.927	0.100	0	0	0	0
OH1877	OH1944	B	4 ACSR 7/1	7.48Y	124.7	0.00	1.35	0.12	0	1	0	100	0.00	0.0	2.041	0.294	0	0	0	1
000061300009...	OH1877	B	Consumer	7.48Y	124.7	0.00	1.35	0.12	0	1	0	100	0.00	0.0	2.041	0.294	1	0	1	1
000061940400...	OH1962	B	Consumer	7.48Y	124.7	0.00	1.29	0.00	0	0	0	100	0.00	0.0	1.168	0.294	0	0	0	0
000061940400...	OH1962	B	Consumer	7.48Y	124.7	0.00	1.29	0.00	0	0	0	100	0.00	0.0	1.168	0.294	0	0	0	0
000061940400...	OH1872	C	Consumer	7.52Y	125.4	0.00	0.64	0.00	0	0	0	100	0.00	0.0	0.479	0.294	0	0	0	0
000061940400...	OH1872	C	Consumer	7.52Y	125.4	0.00	0.64	0.61	0	4	2	89	0.00	0.0	0.479	0.294	4	2	1	1
000061940400...	OH1901	B	Consumer	7.53Y	125.5	0.00	0.49	0.04	0	0	0	100	0.00	0.0	0.367	0.294	0	0	1	1
OH1862	OH1853	B	4 ACSR 7/1	7.54Y	125.7	0.00	0.29	0.73	1	5	-1	-98	0.00	0.0	0.347	0.137	0	0	0	1
000061330409...	OH1862	B	Consumer	7.54Y	125.7	0.00	0.29	0.73	0	5	-1	-98	0.00	0.0	0.347	0.137	5	-1	1	1
000061330409...	OH30222	C	Consumer	7.55Y	125.8	0.00	0.22	0.00	0	0	0	100	0.00	0.0	0.165	0.137	0	0	1	1
OH1867	OH1866	C	4 ACSR 7/1	7.55Y	125.8	0.01	0.22	2.42	2	18	-2	-99	0.00	0.0	0.216	0.059	0	0	0	2
000061330409...	OH1867	C	Consumer	7.55Y	125.8	0.00	0.22	0.04	0	0	0	100	0.00	0.0	0.216	0.059	0	0	1	1
000061330409...	OH1867	C	Consumer	7.55Y	125.8	0.00	0.22	2.38	0	18	-2	-99	0.00	0.0	0.216	0.059	18	-2	1	1
000061330409...	OH1859	A	Consumer	7.55Y	125.8	0.00	0.19	0.00	0	0	0	100	0.00	0.0	0.145	0.059	0	0	0	0

----- Feeder No. 0 (Argentum 1) Beginning with Device Arg_D1 -----

Arg_D1	Argentum-#1	ABC	240-140WVE	7.56Y	126.0	0.00	0.00	217.60	0	4932	-185	-100	0.00	0.0	0.000	0.059	0	0	0	557
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KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total		
KW	5824	0	0	0	0	4932	360		0.00	11115	Lowest Voltage = 117.77 on Element OH2582	
KVAR	-280	0	-48	0	0	-185	545			32	Max Accm VoltD = 8.23 on Element OH2582	
											Max Elem VoltD = 0.77 on Element OH2743	

Appendix C SYSTEM MAP



CASE NO: 2010-00441

CONTAINS

LARGE OR OVERSIZED

MAP(S)

RECEIVED ON: November 15, 2010