2024- 2025 Georgia Peak Day

Southern - Columbus, GA
Tuesday, January 16, 2024

Peak Day Stats	
HDD =	39
MCF =	44,134
DTH =	45,828
BTU Factor =	1.038

Supply Utilized - DTH	
FT	15,309
Storage - CSS	24,949
End Users	5,570
Incremental	
DTH	45,828

Allocation per Customer Class	
Firm Sales:	37,811
Interruptible Sales & Transport	8,017
DTH	45,828
MCF	44,134

Transco - Gainesville, GA
Tuesday, January 16, 2024

Peak Day Stats	
HDD =	42
MCF=	22,303
DTH =	23,049
BTU Factor=	1.033

Supply Utilized - DTH	
FT 9136963	7,090
FT 9136655	
FT 9136657	
FT 9136943	
WSS 9136651	6,206
GSS 9137183	1,960
LNG 9136653	
ESS 9136654	346
End Users	7,447
DTH	23,049
	0

Allocation per Customer Class	
Firm Sales:	14,913
Interruptible Sales & Transport	8,136
DTH	23,049
MCF	22,303

Liberty Utilities (Peach State Natural Gas) Corp.
2024-2025 Design Day Summary

Load Study:	Columbus, GA
Weather Station:	KCSG
Design Day HDD Method:	Coldest Day Since 1984
Data Sample:	2/1/2022 to 3/31/2024

Design Day DTH Summary				**Notes**
Regression R^2	0.0000			
Forecasted DTH	0	**Date of Design Day:**	1/21/1985	Forecasted DTH includes Woodland and Manchester
5% Error Margin	0	**HDD**	54.5	
3rd Party Obligations DTH	0	**HDD(-1)**	41.5	
Total Forecasted DTH	0			
Final Deliverable Capacity DTH	63,144			
Reserve Capacity DTH	63,144			
Reserve Margin Capacity (%)	#DIV/0!			

Summary of Final Delivery Capacity

Pipeline	Contract # & Description		MDQ Dth	Notes
SNG	451895-FTSNG		12,000	Year round daily transportation entitlement.
SNG	451894-FTSNG		21,436	Year round daily transportation entitlement.
SNG	451893-FNSNG		22,009	Year round daily transportation entitlement.
SNG	469678-FTSNG	From Manchester system acquisition	686	686 Dth/d zone 3 seasonal entitlement (Nov.-Apr.) used to deliver to Columbus zone 2 delivery points during winter. Entitelment: November to March 686 Dth/d, April 67 Dth/d.
SNG	463734-FTSNG	From Woodland system acquisition	39	Daily transport entitlement ratchets: Nov-Mar: 39 dth, Apr: 18 dth, May:0 dth, June: 3 dth, July: 1 dth, Aug: 5 dth, Sept: 0 dth, Oct: 9 dth.
SNG	463736-FTSNG	From Woodland system acquisition	104	104 Dth/d zone 3 seasonal entitlement (Nov-Mar): 100 Dth/d used to deliver to Columbus zone 2 delivery points during winter.
SNG	469663-FTSNG	From Manchester system acquisition	150	Year round daily transportation entitlement.
SNG	469681-FNSNG	From Manchester system acquisition	520	Transport ratchets: Daily entitlement Nov-Apr: 520 dth/d, May: 297 dth/d, June: 255 dth/d, July: 244 dth/d Aug: 265 dth/d, Sept: 246 dth/d, Oct: 490 dth/d.
SNG	Delivered Peaking Service		6,200	
		Total Capacity	**63,144**	

Summary of Upstream and Storage Capacity

Pipeline	Contract # & Description	MDQ Dth	Notes
SNG	451896-CSSNG	29,345	MSQ 1,453,265; MDIQ 11,179, MDWQ 29,345 Ratchets: 29,345 (60-100%); 25,823 (50-59%); 22,889 (25-49%); 16,433 (0-24%)
SNG	463737-CSSNG	104	From Woodland acquisition
SNG	469668-CSSSNG	897	From Manchester acquisition, MSQ 44,409, MDIQ 341, MDWQ=896
	Total Upstream and Storage Capacity	**30,346**	

Columbus, GA Initial Test for Model Stability

Dependent Variable: COLUMBUS_FIRM Method: Least Squares Date: 05/07/24 Time: 08:44 Sample: Included observations: HAC standard errors & covariance (Bartlett kernel, Newey-West fixed bandwidth =				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C COLUMBUS_HDD COLUMBUS_HDD45 COLUMBUS_HDD(-1) COLUMBUS_FIRM(-1)				
R-squared Adjusted R-squared S.E. of regression Sum squared resid Log likelihood F-statistic Prob(F-statistic) Prob(Wald F-statistic)		Mean dependent var S.D. dependent var Akaike info criterion Schwarz criterion Hannan-Quinn criter. Durbin-Watson stat Wald F-statistic		

Quandt-Andrews unknown breakpoint test Null Hypothesis: Equation Sample: Test Sample: Number of breaks compared:		
Statistic	Value	Prob.
Note:		

Final Stability Test for Columbus, GA

Dependent Variable: COLUMBUS_FIRM Method: Least Squares Date: 05/07/24 Time: 08:44 Sample: Included observations: HAC standard errors & covariance (Bartlett kernel, Newey-West fixed bandwidth =				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C COLUMBUS_HDD COLUMBUS_HDD45 COLUMBUS_HDD(-1) COLUMBUS_FIRM(-1)				
R-squared Adjusted R-squared S.E. of regression Sum squared resid Log likelihood F-statistic Prob(F-statistic) Prob(Wald F-statistic)		Mean dependent var S.D. dependent var Akaike info criterion Schwarz criterion Hannan-Quinn criter. Durbin-Watson stat Wald F-statistic		

Quandt-Andrews unknown breakpoint test Null Hypothesis: No breakpoints within 10% trimmed data Equation Sample: Test Sample: Number of breaks compared:		
Statistic	Value	Prob.
Note:		

Liberty 2024 - 2025 Gas Supply Plan GPSC Docket No. 55650

Exhibit II, Page 3

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PUBLIC DISCLOSURE

Coldest Day on Record for: Date:	Columbus, GA DD Stats 1/21/1985	DD(-1) 1/20/1985	LRV Calcs
Forecasted Volume			
Residential Growth Adjustment			

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Regression Model for Design Day Calculation				
Dependent Variable: COLUMBUS_FIRM				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
R-squared		Mean dependent var		
Adjusted R-squared		S.D. dependent var		
S.E. of regression		Akaike info criterion		
Sum squared resid		Schwarz criterion		
Log likelihood		Hannan-Quinn criter.		
Durbin-Watson stat				

Exhibit II, Page 4 GPSC Docket No. 55650

Regression Model for DTH(-1) Derivation				
Dependent Variable: COLUMBUS_FIRM				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
COLUMBUS_HDD				
COLUMBUS_HDD45				
COLUMBUS_HDD(-1)				
MONTH12				
MONTH02				
MONTH01				
MONTH03				
MONTH11				
WEEKDAY01				
WEEKDAY02				
WEEKDAY03				
WEEKDAY04				
WEEKDAY05				
WEEKDAY06				
WEEKDAY07				
R-squared		Mean dependent var		
Adjusted R-squared		S.D. dependent var		
S.E. of regression		Akaike info criterion		
Sum squared resid		Schwarz criterion		
Log likelihood		Hannan-Quinn criter.		
Durbin-Watson stat				

Liberty Utilities (Peach State Natural Gas) Corp.
2024-2025 Design Day Summary

Load Study:	Gainesville, GA
Weather Station:	KGVL
Design Day HDD Method:	Coldest Day Since 1984
Data Sample:	1/1/2022 to 3/31/2024

Design Day DTH Summary

Regression R^2	0.0000		
Forecasted DTH	0	**Date of Design Day:**	1/21/1985
5% Error Margin	0	**HDD**	56
3rd Party Obligations	0	**HDD(-1)**	46
Total Forecasted DTH	0	**Notes:**	
Final Deliverable Capacity DTH	21,414		
Reserve Capacity DTH	21,414		
Reserve Margin Capacity (%)	#DIV/0!		

Summary of Final Delivery Capacity

Pipeline	Contract # & Description	MDQ Dth	Notes
Transco	FT Momentum 9136655	2,000	
Transco	FT 9136657	3,933	
Transco	FT 9136963	8,384	
Transco	FT 9136943	207	
Transco	GSS 9137183	2,640	Storage has own transport; MSQ 126,006; MDIQ 700; MDWQ 2,640
			GSS Ratchets: 2,640 (35-100%); 2,614 (20-34%); 1,954 (7-19%); 1,452 (0-6%)
			Minimum GSS storage physical inventory thru Feb is 35% for RFP
Transco	Delivered Peaking Service	1,500	December to February only
	additional peaking service needed winter 24-25	2,750	
	Total Capacity	**21,414**	

Summary of Upstream and Storage Capacity

Pipeline	Contract # & Description	MDQ Dth	Notes
Transco	ESS 9136654	2,640	MSQ 22,273; MDIQ 220; MDWQ 2,640; No ratchets
Transco	WSS 9136651	4,201	MSQ 399,069; MDIQ 2,217 MDWQ 4,201
			WSS Ratchets: 4,201 (81-100%); 3,765 (61-80%); 3,411 (41-60%); 2,850 (21-40%); 2,307 (0-20%)
	Total Upstream and Storage Capacity	**6,841**	

Gainesville, GA Initial Test for Model Stability

Dependent Variable: GAINESVILLE_FIRM Method: Least Squares				
Date: 05/01/24 Time: 09:46				
Sample: Included observations: HAC standard errors & covariance (Bartlett kernel, Newey-West fixed bandwidth =				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C GAINESVILLE_HDD GAINESVILLE_HDD55 GAINESVILLE_HDD(-1) GAINESVILLE_FIRM(-1)				
R-squared Adjusted R-squared S.E. of regression Sum squared resid Log likelihood F-statistic Prob(F-statistic) Prob(Wald F-statistic)		Mean dependent var S.D. dependent var Akaike info criterion Schwarz criterion Hannan-Quinn criter. Durbin-Watson stat Wald F-statistic		

Quandt-Andrews unknown breakpoint test Null Hypothesis: No breakpoints within 10% trimmed data
Equation Sample: Test Sample: Number of breaks compared:
Note:

Final Stability Test for Gainesville, GA

Dependent Variable: GAINESVILLE_FIRM Method: Least Squares				
Date: 05/08/24 Time: 14:15				
Sample: Included observations: HAC standard errors & covariance (Bartlett kernel, Newey-West fixed bandwidth =				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C GAINESVILLE_HDD GAINESVILLE_HDD55 GAINESVILLE_HDD(-1) GAINESVILLE_FIRM(-1)				
R-squared Adjusted R-squared S.E. of regression Sum squared resid Log likelihood F-statistic Prob(F-statistic) Prob(Wald F-statistic)		Mean dependent var S.D. dependent var Akaike info criterion Schwarz criterion Hannan-Quinn criter. Durbin-Watson stat Wald F-statistic		

Quandt-Andrews unknown breakpoint test Null Hypothesis: No breakpoints within 10% trimmed data
Equation Sample: Test Sample: Number of breaks compared: Note:

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PUBLIC DISCLOSURE

Coldest Day on Record for: Date:	Gainesville DD Stats 1/21/1985	DD(-1) 1/20/1985	LRV Calcs
Forecasted Volume			
Residential Growth Adjustment			
Commercial Growth Adjustment			

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Regression Model for Design Day Calculation

Dependent Variable: GAINESVILLE_FIRM

Variable	Coefficient	Std. Error	t-Statistic	Prob.

R-squared		Mean dependent var	
Adjusted R-squared		S.D. dependent var	
S.E. of regression		Akaike info criterion	
Sum squared resid		Schwarz criterion	
Log likelihood		Hannan-Quinn criter.	
Durbin-Watson stat			

Regression Model for DTH(-1) Derivation

Dependent Variable: GAINESVILLE_FIRM

Variable	Coefficient	Std. Error	t-Statistic	Prob.

R-squared		Mean dependent var	
Adjusted R-squared		S.D. dependent var	
S.E. of regression		Akaike info criterion	
Sum squared resid		Schwarz criterion	
Log likelihood		Hannan-Quinn criter.	
Durbin-Watson stat			