

2022 Consulting Engineer's Comprehensive Annual Report







Lafayette Utilities System and LUS Fiber

Consulting Engineer's Comprehensive Annual Report Project No. 143042

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prepared for

Lafayette Utilities System and LUS Fiber
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Lafayette, Louisiana
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Burns & McDonnell Engineering Company, Inc. Kansas City, Missouri

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LIST OF ABBREVIATIONS

Abbreviation Term/Phrase/Name

°F Degrees Fahrenheit

A&G Administrative and General ACE Affordable Clean Energy

ACSR Aluminum-conductor steel-reinforced cable

ACTP Ambassador Caffery Treatment Plant

ADMS Advanced Distribution Management System

AMI Advanced Metering Infrastructure

AO Administrative Order

APPA American Public Power Association
AWIA America's Water Infrastructure Act
AWWA American Water Works Association

BOD5 Biological oxygen demand Bond Ordinances General Bond Ordinance

Bonin Louis "Doc" Bonin Generation Station

BPA Blanket Purchase Agreement

Burns & McDonnell Engineering Company, Inc.

CAFR Comprehensive Annual Financial Report

CAIDI Customer Average Interruption Duration Index

CATV Cable television

CBRS Citizens Broadband Radio Service

CCR Coal Combustion Residuals
CCR Consumer Confidence Report
CCTV Closed-circuit television video

CEMS Continuous emission monitoring system

Charter Home Rule Charter

CIP Capital Improvement Program
City/Lafayette City of Lafayette, Louisiana

CMOM Capacity, Management, Operations, and Maintenance Program

CO₂ Carbon dioxide

Commission Boulevard Commission Boulevard Remote Site

CPP Clean Power Plan

CSAPR Cross State Air Pollution Rule

DA Deaerator

DBPR Disinfectants and Disinfection Byproducts Rule

Demin Demineralized water

DSC Debt service coverage

DSCR Debt service coverage ratio

Abbreviation <u>Term/Phrase/Name</u>

DVR Digital video recorder

EDA U.S. Department of Commerce's Economic Development

EGU Electric Generating Unit
ELG Effluent limitation guidelines

EMMA Electronic Municipal Market Access

EMS Energy management system

EPA Environmental Protection Agency

ERP Emergency Response Plan
ESP Electro-static precipitator

ESRI Environmental Systems Research Institute

ESTP East Sewage Treatment Plant

Fair Completion Act The Local Government Fair Completion Act

FC Fuel Charge

FCC Federal Communications Commission

FCI Faulted circuit indicators

FEMA Federal Emergency Management Agency

FGD Flue gas desulfurization
FRP Facility Response Plan
FTTP Fiber-to-the-premises
FWH Feed water heater

FY Fiscal year

GAC Granular activated carbon
Gbps Gigabits per second
GE General Electric

GIS Geographic information system
Gloria Switch Gloria Switch Remote Site

GOHSEP Governor's Office of Homeland Security and Emergency Preparedness

GPON Gigabit passive optical network

GSU Generator step-up
HAA5 Five haloacetic acids

HP High pressure
HPBX Hosted voice

HPC High pressure combustion
HSE Hot section exchanges
I&I Inflow and infiltration
ICAP Installed capacity
ILOT In lieu of tax

IRP Integrated resource plan
ISP Internet service providers

Abbreviation Term/Phrase/Name

kV Kilovolts

LA DHH Louisiana Department of Health and Hospitals

lb/hr Pounds per hour

LCG Lafayette City-Parish Consolidated Government

LCRR Lead and Copper Rule Revisions

LDEQ Louisiana Department of Environmental Quality

LiDAR Light Detection and Ranging

LP Low pressure

LPDES Louisiana Pollutant Discharge Elimination System

LPPA Lafayette Public Power Authority
LPSC Louisiana Public Service Commission

LPSC Rules LPSC Cost Allocation and Affiliate Transaction Rules

LPUA Louisiana Public Utilities Authority

LRZ Local Resource Zone

LS Lift stations
LSL Lead service line
LTE Long-term evolution
LUS Lafayette Utilities System
LUS Fiber Communications System

Magellan Advisors

MAIFI Momentary Average Interruption Frequency Index

Mbps Megabits per second

MCL Maximum contaminant levels
MCR Maximum continuous rating

MG Million gallons

MGD Million gallons per day

MISO Midcontinent Independent System Operator, Inc.

MRDL Maximum residual disinfectant level
MRDLG Maximum residual disinfectant level goal

MSGP Multi-Sector General Permit

MSRB Municipal Securities Rulemaking Board

MV Medium voltage
MVA Megavolt amperes
MW Megawatts of electricity

NAAQS National Ambient Air Quality Standards

NAICS North American Industry Classification System
NERC North American Electric Reliability Corporation

NERC CIP NERC Critical Infrastructure Protection

NETP Northeast Treatment Plant

<u>Abbreviation</u> <u>Term/Phrase/Name</u>

NOV Notice of Violation
NOx Nitrous oxide

NSPS New Source Performance Standards
NTEC Navajo Transitional Energy Company

NWP North Water Treatment Plant

O&M Operations and Maintenance Expense

O&P Operations and Planning

OLT Optical terminal

OMS Outage Monitoring System
OSI Open Systems International, Inc.

Parish Lafayette Parish

PCCC Permanently Ceasing Coal Combustion

PFAS Polyfluoroalkyl substances

PIAL Property Insurance Association of Louisiana

POMS Power Outage Monitoring System

PON Passive optical network

POTW Publicly owned treatment works

PRB Powder River Basin
PRI Primary Rate Interface

psig Pounds per square inch gauge

PVC Polyvinyl chloride

RATA Relative Testing Accuracy Audit

RCRA Resource Conservation and Recovery Act

Report Consulting Engineer's Comprehensive Annual Report

RRA Risk and Resilience Assessment

SAIDI System Average Interruption Duration Index SAIFI System Average Interruption Frequency Index

SBR Sequencing batch reactors

SCADA Supervisory control and data acquisition
SEC Securities and Exchange Commission
SNCR Selective non-catalytic reduction

SO₂ Sulfur dioxide

SPC-SPCC Spill Prevention and Control – Prevention, Control, and Countermeasure

SPRINT General Electric's Spray Intercooling system

SSIs Statistically Significant Increases
SSTP South Sewage Treatment Plant

STG Steam turbine generator

SWP South Water Treatment Plant

Abbreviation Term/Phrase/Name

SWPA Southwestern Power Administration

TAS Turbine Air Systems
TDS Total dissolved solids
TEA The Energy Authority
TIER Times interest earned ratio
TPL Transmission planning
TSS Total suspended solids
TTHM Total trihalomethanes

UCMR Unregulated Contaminant Monitoring Rule

UF Ultra filtration

Utilities System Lafayette Utilities System Electric, Water, and Wastewater Systems

VSV Variable stator vane

WWTP Wastewater treatment plant

EXECUTIVE SUMMARY

Introduction

The Lafayette Utilities System ("LUS") Electric, Water, and Wastewater Systems (collectively the "Utilities System") General Bond Ordinance and Communications System (also referred to as "LUS Fiber") General Bond Ordinance (collectively, the "Bond Ordinances") set forth specific duties and responsibilities of the Consulting Engineer, which include advising LUS on its appointment of a Chief Operating Officer, providing continuous engineering counsel to the Lafayette City-Parish Consolidated Government (Lafayette Consolidated Government or "LCG") in connection with operations of the Utilities System and Communications System, advising on rate revisions, and preparing an annual comprehensive report (specifically, this Consulting Engineer's Comprehensive Annual Report or "Report") on the operations of LUS and LUS Fiber after the close of each fiscal year ("FY").

LCG retained Burns & McDonnell Engineering Company, Inc. ("Burns & McDonnell") as the LUS and LUS Fiber Consulting Engineer in January 2021. The analyses and investigations completed by Burns & McDonnell, in collaboration with Magellan Advisors ("Magellan") – a telecommunications consulting firm assisting Burns & McDonnell – in the performance of its due diligence review and assessments of LUS and LUS Fiber are similar to prior reviews. Therefore, the organization, content, conclusions, and recommendations contained within this Report are similar to previous reports. LCG operates on a fiscal year, beginning November 1 and ending on October 31 of the following year. Unless otherwise stated, all data in this Report is presented on a FY basis.

In preparation of this Report, Burns & McDonnell and Magellan relied upon information provided by LUS, LUS Fiber, LCG, and Cleco Corporate Holdings ("Cleco"). Consulting engineers from Burns & McDonnell and Magellan conducted site visits to LUS's and LUS Fiber's system assets and conducted virtual interviews with LUS, LUS Fiber, and Cleco management in February 2022.

Bond Ordinance Requirements

LUS, LUS Fiber, and Lafayette Public Power Authority ("LPPA") have bond ordinance requirements which are described in more detail in Section 2 of this Report. As of October 31, 2021, the City was paying debt service on outstanding bonds for LUS (Series 2012, 2017 and 2019), LUS Fiber (Series 2012 and Series 2015), and LPPA (Series 2012 and 2015). The Series 2012 Bonds were all recently refunded with the Series 2021 Bonds in FY 2022. This Report addresses several covenants and continuing disclosures included in the Bond Ordinances including, but not limited to, the condition of the assets,

operation of the system, accounting and financial compliance, and financial performance of LUS and LUS Fiber. Continuing disclosures are included in Sections 8 through 12 of this Report.

Utilities System Overall Performance

LUS continued to experience customer growth across all three utility systems in FY 2021 with total customer count growth slightly over one percent. LUS experienced some declines in sales per customer in FY 2020 due to the COVID-19 pandemic; however, use per customer has nearly recovered back to prepandemic levels.

LUS experienced a six percent increase in total system revenues in FY 2021, which was primarily due to an eight percent increase in electric revenues. Water total operating revenues increased by nearly three percent, while wastewater revenues increased two percent. The increase in revenues was due to increases both in reduced use per customer in several classes and a higher fuel charge. No rate changes occurred in FY 2021.

LUS FY 2021 revenues and expenses were both lower than originally budgeted. Lower revenues were offset by lower operating expenses including lower power supply expenses, lower water and wastewater production costs, and some continued temporary reductions in some non-variable O&M expenses accounts from carry over effects of the COVID-19 pandemic. Normal capital spending was lower than budgeted, however LUS major capital projects continued to draw down cash reserves.

LUS's financial performance remained relatively strong in FY 2021. LUS continued to maintain a strong debt service coverage ("DSC") ratio and had sufficient cash to fund its operating and capital expenditures. LUS is in the process of completing a rate study which will allow it to continue to fund operating and capital requirements over the next five years and is considering issuing new debt for several upcoming projects in its CIP.

Communications System Overall Performance

Since 2017, the Communications System's number of accounts increased at a compound annual rate of 4.6 percent, totaling 22,735 retail accounts in 2021. At the current customer levels, the Communications System generates sufficient revenues to meet operating and maintenance expenses, debt service, capital improvements, inter-utility loan payments, imputed taxes, and all other financial obligations. The Communications System's operating expenses are holding steady while revenue continues to grow. Further, LUS Fiber's profit margin is sufficient to allow the Communications System to spend approximately \$2 million per year on continued network expansion.

The Communications System's cash flow reserves are sufficient to cover all remaining liabilities related to the 2018 to 2019 attest audit, and revenue trends suggest LUS Fiber will continue to generate positive cash flow beyond 2022, when bond payments will grow from \$9.5 million per year in 2022 to \$10.5 million per year in 2026.

Over the past two years, the COVID-19 pandemic has accelerated the cord-cutting trend (both in the Lafayette market and nationwide), leading to higher-than-expected churn of video subscribers. However, growth in the Communications System's internet subscribers and migration of existing customers to higher bandwidth tiers has more than made up for shrinking video revenue.

As of the writing of this Report, LUS Fiber has achieved a residential internet take-rate (i.e., the percentage of eligible premises that subscribe to service) in line with what other fiber-to-the-premises operators (both municipally owned and private) have achieved in other markets with a capable cable competitor. Increased demand for upload capacity—which is a competitive advantage of the Communications System's fiber technology—may help fuel continued growth.

From a technical standpoint, the network has sufficient excess network capacity to support numerous additional lit and/or dark fiber customers. And given that most of the Communications System's costs are fixed and do not vary when new customers are added, revenues associated with customer growth above current levels likely will further improve the system's financial performance.

In FY 2021, LUS Fiber was also awarded a \$3.1 million grant from the U.S. Department of Commerce's Economic Development Administration ("EDA") to fund additional network expansion in Lafayette, St. Martin, and Iberia Parishes.

Utilities System Director and Interim Director

In February 2022, after a nationwide recruiting search led by Preng & Associates, Lafayette Mayor-President Josh Guillory appointed Jeffrey Stewart as the permanent Utilities Director. Mr. Stewart has over 20 years of experience at LUS and has recently been serving as the Engineering and Power Supply Manager. Mr. Stewart has a Bachelor of Science in Electrical Engineering from Louisiana State University and is a registered Professional Engineer in Louisiana. He has served in a variety of roles over his tenure at LUS as described later in this report. Mr. Lowell Duhon served as the Interim Utilities Director during FY 2021. Mr. Duhon graduated from the University of Louisiana at Lafayette with a Bachelor of Science and Master of Business Administration. Prior to serving as the Interim Utilities Director, Mr. Duhon was the Chief Administrative Officer of LCG.

Communications System Director and Interim Director

In March 2021, after a nationwide recruiting search led by Linked Executive Search, Lafayette Mayor-President Josh Guillory appointed Ryan Meche, who was serving in the role of Engineer III with LUS Fiber, as LUS Fiber's permanent Director. Mr. Meche graduated from the University of Louisiana at Lafayette with a Bachelor of Science in Electrical Engineering and is a registered Professional Engineer in Louisiana. Mr. Meche has been an employee of LUS for 16 years. From October 14, 2019, to March 2021, the Interim Communications System Director was Ms. Kayla Miles. Ms. Miles graduated from the University of Louisiana at Lafayette with a Bachelor of Arts in Public Relations. Prior to serving as the Interim Communications System Director, Ms. Miles was the Communications Support Services Administrator for Communications System.

Utilities System Observations and Recommendations

Based on the information and assumptions relied upon, as included within this Report, the general observations and recommendations for the Utilities System are presented below.

- Based on physical observations of the system and review of records, LUS is maintaining the properties in a manner consistent with utility practices.
- LCG, LUS, and LPPA have an efficient management structure in place to maintain the utility property and maintain adequate accounting and financial records for each of the three utility systems.
- LUS prepares budgets and has budgetary control measures that have enabled the utility to maintain strong financials over the last five years. Revenues were sufficient to meet all financial obligations including debt payment, operating expenses, ILOT payments, and capital funding requirements. LUS has maintained competitive utility service rates while exceeding its minimum 1.0 DSC ratio.
- LUS has been deploying the necessary capital for the repair, replacement, and expansion of the utility
 systems. Based on Burns & McDonnell's review of the historical and projected capital improvement
 plan, LUS is making necessary repairs, renewals, replacements, extensions, betterments, and
 improvements of each of the utility systems.
- For each of the utility systems, LUS is striving to maintain competitive salaries to recruit and retain talented engineers, managers, operators, technicians, and financial staff. The managers and staff in place within LUS appear to be well organized and committed to successfully running the utilities.

Electric Utility System

Based on the information and assumptions relied upon, as included within this Report, the general observations and recommendations for the Electric Utility System are presented below.

- Based on visual inspection of facilities, records audit, and interviews of LUS staff, the LUS
 distribution and transmission system is in good condition, maintained properly and in accordance
 with industry practices.
- LUS is proactive and strategic in its cyclical inspection, maintenance, and replacement of equipment.
- The LUS transmission and distribution planning and construction practices are proactive and aligned with a focus on reliability, resiliency, and efficient operation of the system.
- The LUS distribution system consistently outperforms regional and national averages for system
 reliability and availability, which reflects its intentional and proactive maintenance, planning, and
 construction practices.
- Revenues were sufficient to meet all financial obligations including operating expenses, LUS and LPPA debt service, capital improvements, ILOT payments, and required reserves. LUS's electric system operating, expense, debt, revenue, and related ratios reflect a financially stable and healthy utility that is currently offering competitive, lower than market average rates.
- Burns & McDonnell is currently completing a rate study for LUS and the proposed rate plan is
 expected to be approved before the end of FY 2022. The rate study is being completed to review
 existing and projected cost levels and set rate revenues to maintain financial performance.
- The electric system revenue recovery structure, like most electric utilities, is misaligned. LUS recovers nearly 85 percent of its revenues through variable charges when 50 percent of its costs are fixed. This creates a systemic problem when energy usage per customer is declining, but customer growth is increasing. LUS is planning to gradually address this and other rate issues within the rate study.
- LUS is planning to issue new bonds in FY 2023 to support various electric, water, and wastewater
 projects. The bond funding anticipated is reasonable and appropriate to fund these projects and the
 forecasted revenues represented in the continuing disclosure financial projections are expected to be
 able to fund the new debt service associated with the new bonds.
- The Utilities System CIP has been sufficient to sustain and improve the integrity and reliability of the system.

- LUS completed an integrated resource plan ("IRP") in FY 2020. The IRP had several recommendations which included the retirement of Rodemacher Unit 2 in 2028, the construction of a new LUS owned simple cycle gas turbine power plant at the existing Doc Bonin site in 2028, and the addition of utility scale solar which would be procured through power purchase agreements. LUS continues to evaluate its power supply alternatives and is continuing to develop each of these initiatives.
- LUS has performed well in FY 2021. LUS's performance on the four reported indices is consistent or significantly better than typical national median performance reported by both regional and national benchmarks. LUS has performed well in NERC CIP audits, NERC 693 operational audits, and LDEQ environmental inspections.
- The organizational structure and management of the Electric System engineering and operations areas
 appears to be strong based on observations, interviews, organizational structures, and manpower
 within each department.
- As other utilities have experienced, the recruitment and retention of quality resources presents challenges. LUS has indicated that it is working to internally develop quality resources through training programs to retain employees, across multiple disciplines in specific departments with electric lineman being an ongoing challenge. The Electric System management team is working with local schools to hire and retain strong talent that appreciate the benefits provided by a more stable municipal utility business when compared to the oil and gas business of the gulf coast.

Water Utility System

Based on the information and assumptions relied upon, as included within this Report, the general observations and recommendations for the Water Utility System are presented below.

- Based on visual inspection of facilities, review of records, and interviews of LUS staff, the LUS water treatment facilities are in good condition, maintained properly and in accordance with industry practices.
- The organizational structure and management of the water system engineering and operations areas
 appears to be strong based on initial observations, interviews, organizational structures, and
 manpower within each department.
- Burns & McDonnell is currently completing a rate study for LUS and the proposed rate plan is expected to be approved before the end of FY 2022. The rate study is being completed to review existing and projected cost levels and set rate revenues to maintain financial performance.

- Within the current water rate study, LUS is evaluating increasing its fixed cost recovery in its Water
 System revenue streams to improve overall revenue stability.
- LUS is planning to issue new bonds in FY 2023 to support various electric, water, and wastewater
 projects. The bond funding anticipated is reasonable and appropriate to fund these projects and the
 forecasted revenues represented in the continuing disclosure financial projections are expected to be
 able to fund the new debt service associated with the new bonds.
- The Water Sector Program was created in 2021 by the State of Louisiana to provide grant funding for repairs, improvements and consolidation of community water and sewer systems around the state.
 \$300 million from the American Rescue Plan Act was provided to the program. LUS submitted applications to the program in late 2021. In January 2022 LUS was notified that it was awarded a total of approximately \$4.67 million in grant funding for one (1) water project.
- Retail sales of water have decreased recently. However, retail sales reductions have been partially
 offset by wholesale sales increases, with wholesale sales representing 28 to 30 percent of total sales
 over the last five years. LUS coordinates closely with its wholesale customers regarding growth for
 planning purposes and should continue to do so.
- LUS has begun preparing for operational changes brought about by the Lead and Copper Rule Revisions ("LCRR"), specifically in developing a lead service line ("LSL") inventory and revisions to the lead and copper sampling. Per the LCRR, all systems with any LSLs shall prepare and submit to the state an LSL Replacement Plan by October 16, 2024. LUS has initiated an effort to develop a service line inventory to support development of an LSL Replacement Plan to meet the requirements of the LCRR.
- With relatively steady water production and a general decline in water sales, unaccounted for water has increased from 7.4 percent in 2016 to 12.5 percent in 2020, and then 12.6 percent in 2021. Overall unaccounted for water (i.e., losses) on a percentage basis have increased over the last four years. A comprehensive report on water loss in the LUS distribution system is being prepared by Water Company of America. Additionally, LUS conducted an internal audit of LUS and interdepartmental water usage and has refined its existing departmental procedures.
- During this review, Burns & McDonnell identified projects that LUS may want to evaluate and
 consider within future operation, maintenance, and capital planning efforts. These projects may
 present opportunities for LUS to continue to improve its operations and maintenance of its facilities.
 Additional details for the projects are provide in the Report.

• LUS last completed a Water Master Plan in 2001. Due to development that has occurred since then, LUS should update its master plan to project future growth and associated water flow rates; assess existing and future water system capacity needs; and identify long-term capital improvements required for future development, system expansion, and condition-related improvements. The results of that assessment could be used to further develop capital improvement planning to address critical assets over a long-term period, with targeted strategies to address high-priority items. This effort could include planning for renewal and replacement of aging infrastructure over its anticipated service life.

Wastewater Utility System

Based on the information and assumptions relied upon, as included within this Report, the general observations and recommendations for the Wastewater Utility System are presented below.

- Based on visual inspection of facilities, review of records, and interviews of LUS staff, the LUS
 wastewater treatment facilities are in good condition, maintained properly and in accordance with
 industry practices.
- The organizational structure and management of the wastewater system engineering and operations
 areas appears to be strong based on initial observations, interviews, organizational structures, and
 manpower within each department.
- Burns & McDonnell is currently completing a rate study for LUS and the proposed rate plan is
 expected to be approved before the end of FY 2022. The rate study is being completed to review
 existing and projected cost levels and set rate revenues to maintain financial performance
- Burns & McDonnell is evaluating the possibility of increasing LUS's fixed cost recovery in its Wastewater System revenue streams to improve overall revenue stability as part of the rate study.
- The Water Sector Program was created in 2021 by the State of Louisiana to provide grant funding for repairs, improvements and consolidation of community water and sewer systems around the state.
 \$300 million from the American Rescue Plan Act was provided to the program. LUS submitted applications to the program in late 2021. In January 2022 LUS was notified that it was awarded a total of approximately \$4.83 million in grant funding for three (3) wastewater projects.
- LUS is planning to issue new bonds in FY 2023 to support various electric, water, and wastewater
 projects. The bond funding anticipated is reasonable and appropriate to fund these projects and the
 forecasted revenues represented in the continuing disclosure financial projections are expected to be
 able to fund the new debt service associated with the new bonds.

- During this review, Burns & McDonnell identified projects that LUS may want to evaluate and
 consider within future operation, maintenance, and capital planning efforts. These projects may
 present opportunities for LUS to continue to improve its operations and maintenance of its facilities.
 Additional details for the projects are provide in the Report.
- Due to regional contaminant loading to the Vermillion River, the LDEQ has imposed a hold on new and additional contaminant loading to the river. Simultaneously, population growth and development within the LUS service area has increased, and therefore wastewater flows to the LUS WWTPs have also increased. As a confluence of these factors, it is recommended that a treatment process evaluation of the four WWTPs be completed to identify the risks that LUS faces with respect to meeting LPDES loading limits and improvements which may reduce LUS loading to the river. The evaluation should specifically consider long-term capacity needs of the LUS wastewater utility.
- LUS is well organized and structured in its approach to implementing its Capacity, Management, Operations, and Maintenance ("CMOM") program and addressing the requirements of the Administrative Order ("AO"). LUS has leveraged its in-house staff and contractor resources to complete work efficiently. It is important that cleaning, inspection, and rehabilitation of the wastewater collection system be continued to comply with the requirements of the AO. The rate of such work needs to meet the required 10 percent per year. LUS exceeded this requirement in 2020 and 2021.
- LUS is still in the early stages of addressing requirements under the AO. Accordingly, the total cost
 of compliance is difficult to determine with a high level of confidence. LUS should closely track and
 monitor costs incurred to-date and use that data to consider a range of scenarios that can be used to
 inform long-term decision making.
- The CMOM program implemented in response to the AO has established a framework for programmatic proactive maintenance of LUS's collection system assets. Proactive maintenance can result in extended asset life and potentially reduce the likelihood and duration of unexpected downtime or failures. As part of its efforts to implement its CMOM program, LUS could consider evaluating its wastewater system assets to estimate remaining service life and likelihood of failure. The results of that assessment could be used to further develop capital improvement planning to address critical assets over a long-term period, with targeted strategies to address high-priority items. This effort could include planning for renewal and replacement of aging infrastructure over its anticipated service life.
- LUS last completed a Wastewater Master Plan in 2010. Due to development that has occurred since

then and expected limitations to treatment plant capacity, LUS should update its master plan to project future growth and associated wastewater flow rates; assess existing and future wastewater system capacity needs; and identify long-term capital improvements required for future development, system expansion, and condition-related improvements.

Communications System Observations and Recommendations

Based on the information and assumptions relied upon, as included within this Report, the general observations and recommendations for the Communications System are presented below.

- Based on visual inspection of facilities, records audit, and interviews of LUS Fiber staff, the LUS
 Fiber communication network is in good condition, maintained properly and in accordance with
 industry practices.
- At the current customer levels, the Communications System generates sufficient revenues to meet
 operating and maintenance expenses, debt service, capital improvements, inter-utility loan payments,
 imputed taxes, and all other financial obligations, with a sufficient profit margin to allow the
 Communications System to spend approximately \$2 million per year on continued network
 expansion.
- LUS Fiber operates in a competitive market with many private company competitors. LUS Fiber is
 currently performing an organizational and compensation review analysis to assess its position in the
 telecommunication market. The results of this study could assist LUS Fiber in establishing
 benchmarks for organizational structure and compensation packages to maintain its ability to retain
 and recruit experienced, talented employees.
- To further address recruiting talented employees, LUS Fiber is also establishing a pipeline of quality candidates through relationships with educational institutions and internships.
- LUS Fiber has been seeking alternative funding (e.g., grants) outside of the bond market and successfully petitioned to be included in the Louisiana GUMBO program.
- LUS Fiber launched a new service line based on a fixed wireless citizens broadband radio service (CBRS).
- LUS Fiber should continue to pursue federal and state grant opportunities and local partnerships to extend the network to underserved surrounding areas. A portion of LUS Fiber's future revenue growth is based on its ability to expand into nearby underserved areas. LUS Fiber has developed a strategy to take advantage of upcoming federal and state broadband infrastructure grant opportunities to expand its territory and further grow its customer base.
- LUS Fiber should continue to improve its service catalogue, especially in the enterprise sector. A

potential revenue opportunity lies in using its excess network capacity to serve additional enterprise customers.

• LUS Fiber has vacancies in its current management structure that it is actively looking to fill with qualified and experienced candidates.

Revenue Bond History and Ratings

LUS, LUS Fiber, and LPPA have issued and successfully paid its bond holders for over 70 years. A summary of the outstanding bonds at the end of FY 2021 are presented in Table ES. The Series 2012 Bonds were all refunded at the beginning of FY 2022 in November 2021 with the Series 2021 Bonds and will be discussed in more detail in next year's CER. The Series 2021 Bonds were only used to refund the existing 2012 Bonds. The Series 2021 Bonds have the same terms but with lower interest rates.

Table ES-1: LUS, LPPA, and LUS Fiber Outstanding Bond Summary

Entity	Date Issued	Authorized Amount	Application of Proceeds
LUS	2010	\$86,080,000	Improvements to the Electric System to alleviate the Acadian Load Pocket, Development of AMI to benefit the Electric and Water Systems, and collection improvements for the Wastewater System. The Series 2010 Bonds matured on November 1, 2020.
LUS	2012	\$153,960,000	Advanced refunding of a portion of 2004 Bonds, Reserve Fund
LUS	2017	\$59,465,000	Majority refunding of 2010 Bonds
LUS	2019	\$58,065,000	Additions, extensions, and improvements to the Utilities System.
LPPA	2012	\$65,100,000	Installation of MATS equipment, SNCR, and other improvements to Rodemacher Unit 2
LPPA	2015	\$29,035,000	Refunded \$28,325,000 million of the 2007 Bonds
LUS Fiber	2012	\$14,595,000	Improvements to the Communications System to provide retail telephone, CATV, and Internet service city residents
LUS Fiber	2015	\$91,600,000	Refunded \$96,855,000 of the Series 2007 Bonds

Source: LUS

The most recent bond ratings for debt issuances are included in Table ES-2. The rating agencies typically review LUS and the City's credit rating with each debt issue. If the City or LUS has not recently issued debt (e.g. within a two-year period) the agencies will perform a review and surveillance of the City and LUS's performance to update their credit ratings. The most recent bond rating date for S&P was October 11, 2021, while Moody's last affirmation date was October 13, 2021.

Table ES-2: Recent Bond Ratings

Bond Type	S&P Date of Rating or Affirmation	S&P Rating	Moody's Date of Rating or Affirmation	Moody's Rating
LUS: Utilities Revenue Bonds 2021	10/11/2021	AA-	10/13/2021	A1
LPPA: Electric Revenue Refunding Bonds 2021	10/11/2021	AA-	10/13/2021	A1
Communications System: Revenue Refunding Bonds 2021	10/11/2021	A+	10/13/2021	A2
LUS: Utilities Revenue Bonds 2019	10/11/2021	AA-	10/13/2021	A1
LPPA: Electric Revenue Refunding Bonds 2015	10/11/2021	AA-	10/13/2021	A1
Communications System: Revenue Refunding Bonds 2015	10/11/2021	A+	10/13/2021	A2

Source: LUS, Moody's, S&P

1.0 SCOPE OF REVIEW

1.1 Introduction

The Lafayette Consolidated Government ("LCG," "City," or "City of Lafayette") retained Burns & McDonnell Engineering Company ("Burns & McDonnell"), in collaboration with Magellan Advisors ("Magellan"), as its Consulting Engineer. LCG operates two departments, Lafayette Utilities System ("LUS") and its communications system known as LUS Fiber.

The Lafayette Utilities System ("LUS") Electric, Water, and Wastewater Systems (collectively the "Utilities System") General Bond Ordinance, and Communications System (also referred to as "LUS Fiber") General Bond Ordinance (collectively, the "Bond Ordinances") set forth specific duties and responsibilities of the Consulting Engineer, which include advising LUS on its appointment of a Chief Operating Officer, providing continuous engineering counsel to the Lafayette City-Parish Consolidated Government (Lafayette Consolidated Government or "LCG") in connection with operations of the Utilities System and Communications System, advising on rate revisions, and preparing an annual comprehensive report (specifically, this Consulting Engineer's Comprehensive Annual Report or "Report") on the operations of LUS and LUS Fiber after the close of each fiscal year ("FY").

This section of the Report describes the responsibilities of the Consulting Engineer with respect to the development of a Comprehensive Annual Report for the Utilities System and Communications System. The analyses and investigations completed by Burns & McDonnell and Magellan in the performance of its due diligence review and assessments of LUS and LUS Fiber are similar to prior reviews conducted by other firms. Therefore, the organization, content, conclusions, and recommendations contained within this Report are similar to previous reports. LCG operates on a fiscal year, beginning November 1 and ending on October 31 of the following year. Unless otherwise stated, all data in this Report is presented on an FY basis.

1.2 Requirements of Bond Ordinances

Utilities System and Communications System outstanding bonds, presented in Table ES-1, are governed by nearly identical Bond Ordinances. The Utilities System is governed by Article VII-Covenants of the Issuer of the Utilities System General Bond Ordinance. The Communications System is governed by Article VIII-General Covenants of the Issuer of the Communications System General Bond Ordinance. The Consulting Engineer is governed by Article VIII-Consulting Engineer of the Utilities System General Bond Ordinance and Article IX-Consulting Engineer of the Communications System General Bond

Ordinance. These articles are pertinent to the content of this Report. A summary of each article is described in the following subsections of this report.

1.2.1 Lafayette Utilities System – Article VII

LUS must comply with Article VII of the Utilities System General Bond Ordinance which lists 12 covenants. The 12 covenants that LUS are required to meet are listed below.

- Section 7.1 Operation Covenant where, among other things, the Issuer (LUS) agrees to operate the Utilities System in a businesslike manner.
- Section 7.2 Maintenance of Utilities System, Disposition where, among other things, the Issuer agrees to maintain the Utilities System and all parts thereof in good condition and will operate the same in an efficient and economical manner.
- Section 7.3 No Competitive Facilities, the Issuer shall not hereafter construct, acquire, or operate any plants, structures, facilities, or properties which will provide like services of the utility system in the Issuer and the areas currently served by the respective systems in competition with and not as part of the Utilities System unless such construction, acquisition, or operation, in the judgement of the Issuer, does not materially impair the ability of the Issuer to comply with Section 5.1.
- Section 7.4 Obligation to Connect Sewerage Users where, among other things, the Issuer agrees to
 require every owner, tenant, or occupant of each lot or parcel of land to connect with the Utilities
 system and to cease to use any other method for the disposal of sewage, sewage water, or other
 polluting matter.
- Section 7.5 No Free Service where, among other things, the Issuer will not permit free water, electricity, or sewage service to be supplied by the Utilities System.
- Section 7.6 Operating Budget where, among other things, before the first day of each FY the
 Governing Body shall prepare, approve, and adopt in the manner prescribed by law ... a detailed
 budget of the Revenues, Bond Service Requirement, and Cost of Operations and Maintenance
 ("O&M") for the next succeeding FY.
- Section 7.7 Rate Covenant where, among other things, the Issuer will fix, charge, and collects such rates, rentals, fees, and charges for the use of and for the services and products provided by the Utilities System. The Issuer shall maintain a 1.0 debt service coverage ratio ("DSCR").
- Section 7.8 Books and Records where, among other things, the Issuer shall keep separately
 identifiable financial books, records, accounts, and data concerning the operation of the Utilities
 System.
- Section 7.9 Reports and Annual Audits where, among other things, the Issuer shall require that an

- annual audit of the accounts and records with respect to the Utilities System be completed as soon as reasonably practicable at the end of the FY by a qualified independent certified public accountant.
- Section 7.10 Insurance and Condemnation Awards where, among other things, the Issuer shall
 carry adequate fire, windstorm, explosion, and other hazard insurance on the components of the
 Utilities System. The Issuer may, upon appropriate authorization by its Governing Body, self-insure
 against such risks on a sound actuarial basis.
- Section 7.11 Enforcement of Collections where, among other things, the Issuer will diligently enforce and collect the fees, rates, rentals, and other charges for the use of the products, services, and facilities of the Utilities System.
- Section 7.12 Additions to Utilities System where, among other things, the Issuer may add to the
 Utilities System any facilities or equipment purchased, acquired, or constructed for the purpose of
 improving or renovating any element of the then-existing Utilities System.

1.2.2 Lafayette Utilities System – Article VIII

Article VIII of the Utilities System General Bond Ordinance lists three requirements of the Consulting Engineer. These requirements are listed below.

- Section 8.1 Consulting Engineer, where the Issuer shall retain a Consulting Engineer for the purpose of providing the Issuer immediate and continuous counsel and advice regarding the Utilities System. It shall be the further duty of the Consulting Engineer to advise the Issuer in its appointment of a Chief Operating Officer of the Utilities System and the Issuer agrees that it will not appoint anyone as Chief Operating Officer that has not been approved by the Consulting Engineer.
- Section 8.2 Comprehensive Annual Report, where the Consulting Engineer shall prepare within 180 days after the close of each FY a comprehensive report... upon the operations of the Communications System and the Utilities System during the preceding year, the maintenance of the properties, the efficiency of the management of the property, the proper and adequate keeping of books of account and record, the adherence to budget and budgetary control provisions, the adherence to all the provisions of the Ordinance, and all other things having a bearing upon the efficient and profitable operations of the Communications System and the Utilities System, and shall include whatever criticism of any phase of the operation of the Communications System and the Utilities System the Consulting Engineer may deem proper, and such recommendation as to changes in operation and the making of repairs, renewals, replacements, extensions, betterments, and improvements as the Consulting Engineer may deem proper including recommended changes in organization, pay scales, and risk management practices. Copies of such report shall be placed on file with the Chief Operating

- Officer and shall be open to inspection by any Owners of any of the Bonds. Such report shall also contain the Consulting Engineer's recommendations as to personnel practices and policy and its analysis of the ability of the Utilities System to function in the present and forecasted environments.
- Section 8.3 Recommendation as to Rate Revision, where it shall further be the duty of the Consulting Engineer to advise the Issuer as to any revision of rates and charges, and the Issuer agrees to make no downward revision in it rates and charges for services (except fuel adjustment charges), which are not approved by the Consulting Engineer.

1.2.3 LUS Fiber – Article VIII

Article VIII of the Communications System General Bond Ordinance lists nine covenants of the Issuer. These covenants are listed below.

- Section 8.1 Operation Covenant where, among other things, the Issuer agrees to operate the Communications System and Utilities System in a businesslike manner.
- Section 8.2 Maintenance of Communications System, Disposition where, among other things, the
 Issuer agrees to maintain the Communications System and Utilities System and all parts thereof in
 good condition and will operate the same in an efficient and economical manner.
- Section 8.3 Operating Budget where, among other things, before the first day of each FY the
 Governing Body shall prepare, approve, and adopt in the manner prescribed by law...a detailed
 budget of the Revenues, Bond Service Requirement, and Cost of O&M for the next succeeding FY.
- Section 8.4 Rate Covenant where, among other things, the Issuer will fix, charge, and collects such rates, rentals, fees, and charges for the use of and for the services and products provided by the Communications System. The Issuer shall maintain a 1.0 DSCR. Should there be a Credit Event, the Issuer will fix, charge, and collects such rates, rentals, fees, and charges for the use of and for the services and products provided by the Utilities System to provide sufficient revenues to pay the Communications System debt service.
- Section 8.5 Books and Records where, among other things, the Issuer shall keep separately
 identifiable financial books, records, accounts, and data concerning the operation of the
 Communications System.
- Section 8.6 Reports and Annual Audits where, among other things, the Issuer shall require that an
 annual audit of the accounts and records with respect to the Communications System and Utilities
 System be completed as soon as reasonably practicable at the end of the FY by a qualified
 independent certified public accountant.
- Section 8.7 Insurance and Condemnation Awards where, among other things, the Issuer shall carry

- adequate fire, windstorm, explosion, and other hazard insurance on the components of the Communications System and Utilities System. The Issuer may, upon appropriate authorization by its Governing Body, self-insure against such risks on a sound actuarial basis.
- Section 8.8 Enforcement of Collections where, among other things, the Issuer will diligently
 enforce and collect the fees, rates, rentals, and other charges for the use of the products, services, and
 facilities of the Communications System and Utilities System.
- Section 8.9 No Free Service where, among other things, the Issuer will not permit free service to be supplied by the Communications System and Utilities System.

1.2.4 LUS Fiber – Article IX

Article IX of the Communications System General Bond Ordinance lists two requirements of the Consulting Engineer which are listed below.

- Section 9.1 Consulting Engineer. The Issuer shall retain a Consulting Engineer for the purpose of providing the Issuer immediate and continuous counsel and advice regarding the Communications System and the Utilities System.
- Section 9.2 Comprehensive Annual Report, where the Consulting Engineer shall prepare within 180 days after the close of each FY a comprehensive report... upon the operations of the Communications System and the Utilities System during the preceding year, the maintenance of the properties, the efficiency of the management of the property, the proper and adequate keeping of books of account and record, the adherence to budget and budgetary control provisions, the adherence to all the provisions of the Ordinance, and all other things having a bearing upon the efficient and profitable operations of the Communications System and the Utilities System and the Utilities System the Consulting Engineer may deem proper, and such recommendation as to changes in operation and the making of repairs, renewals, replacements, extensions, betterments, and improvements as the Consulting Engineer may deem proper including recommended changes in organization, pay scales, and risk management practices. Copies of such report shall be placed on file with the Chief Operating Officer and shall be open to inspection by any Owners of any of the Bonds. Such report shall also contain the Consulting Engineer's recommendations as to personnel practices and policy and his analysis of the ability of the Utilities System to function in the present and forecasted environments and shall include whatever criticism of any phase of the operation of the Communications System.

1.3 Purpose of the Report

The purpose of the Report is to fulfill the Utilities System General Bond Ordinance Article VIII and the Communications System General Bond Ordinance Article IX as described above and to comply with

Electronic Municipal Market Access ("EMMA") reporting requirements. EMMA is a resource for investors and is operated by the Municipal Securities Rulemaking Board ("MSRB"). The MSRB is a primary regulator of municipal markets. The MSRB establishes rules that securities firms, banks, and municipal advisors must follow when engaging in municipal securities transactions and advising investors and state and local governments. Section 8 – Continuing Disclosures, with Section 9 – Continuing Disclosures-Utilities System, Section 10 – Continuing Disclosures-Lafayette Public Power Authority ("LPPA"), Section 11 – Continuing Disclosures- Communications System, and Section 12 – Financial and Statistical Data meet the EMMA reporting requirement.

1.4 Report Organization

Outstanding debt obligations are supported by two separate revenue pledges. The electric, water, and wastewater utility revenues of the Utilities System are pledged to meet debt service obligations associated with the Utilities System Series 2010, 2012, 2017, and 2019 Bonds. Communications System revenues are pledged to meet debt service obligations associated with the Communications System Series 2012 and 2015 Bonds. The Utilities System, Communications System, and LPPA Series 2012 Bonds were refunded with the Series 2021 Bonds in FY 2022 on November 1, 2021. Given these two distinct pledges, the Report has been organized as presented below.

- Section 1 Scope of Review, as presented within this section.
- Section 2 Governance, Organization, Management, and Revenue Pledge describes the
 organizational structure and management team of LUS, which oversees the operation of the Utilities
 System and Communications System, including the governance and shared services provided by
 LCG.
- Section 3 Utilities System provides an overview of the combined electric, water, and wastewater operations that comprise the Utilities System, including historical financial performance.
- Section 4 Electric System provides an in-depth review of Electric System operations, system condition, rate comparisons, performance benchmarking, and financial performance and contribution to the Utilities System revenue pledge.
- Section 5 Water System provides an in-depth review of Water System operations, system condition, rate comparisons, and financial performance and contribution to the Utilities System revenue pledge.
- Section 6 Wastewater System provides an in-depth review of Wastewater System operations, system condition, rate comparisons, and financial performance and contribution to the Utilities System revenue pledge.

- Section 7 Communications System provides an in-depth review of the LUS Fiber Internet, telephone, and cables businesses including an assessment of market share, service offerings, price competitiveness, and financial performance in support of the Communications System revenue pledge.
- Section 8 Continuing Disclosure section providing an overview of EMMA and the required continuing disclosures.
- Section 9 Continuing Disclosure section presenting updated financial information similar to that presented in official statements of outstanding bond issues for the Utilities System.
- Section 10 Continuing Disclosure section presenting updated financial information similar to that
 presented in official statements of outstanding bond issues for LPPA.
- Section 11 Continuing Disclosure section presenting updated financial information similar to that
 presented in official statements of outstanding bond issues for the Communications System.
- Section 12 Continuing Disclosure section presenting relevant financial and statistical information.

1.5 Statement of Limitations

Burns & McDonnell performs or provides business, technology, engineering, and consulting services. Burns & McDonnell does not provide legal, accounting, or tax advice. The reader is responsible for obtaining independent advice concerning these matters. That advice should be considered by reader, as it may affect the content, opinions, advice, or guidance given by Burns & McDonnell. Further, Burns & McDonnell has no obligation and has made no undertaking to update these materials after the date hereof, notwithstanding that such information may become outdated or inaccurate. These materials serve only as the focus for consideration or discussion; they are incomplete without the accompanying oral commentary or explanation and may not be relied on as a stand-alone document.

The information, analysis, and opinions contained in this material are based on publicly available sources, secondary market research, and financial or operational information, or otherwise information provided by or through Burns & McDonnell clients whom have represented to Burns & McDonnell they have received appropriate permissions to provide to Burns & McDonnell, and as directed by such clients, that Burns & McDonnell is to rely on such client provided information as current, accurate, and complete. Burns & McDonnell has not conducted complete or exhaustive research, or independently verified any such information utilized herein and makes no representation or warranty, express or implied, that such information is current, accurate or complete. Projected data and conclusions contained herein are based

(unless sourced otherwise) on the information described above and are the opinions of Burns & McDonnell which should not be construed as definitive forecasts and are not guaranteed.

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2.0 GOVERNANCE, ORGANIZATION, AND MANAGEMENT

2.1 Governance

The Lafayette Parish (the "Parish") electorate and the City of Lafayette, Louisiana, ("City" or "Lafayette") adopted the Home Rule Charter ("Charter") to consolidate the City and Parish governmental functions as of 1996. The Charter defined the LCG departmental structure. LCG manages and operates the Utilities System and Communications System through its departmental structure. The Utilities Department is responsible for the Utilities System while the Communications Department is responsible for the Communications System management and operations. Other LCG departments perform certain functions to and provide support for LUS operations, such as the Chief Administrative Officer, which includes human resources, the Office of Finance and Management, which includes accounting, budget management, purchasing and property management, and risk management and group insurance, and the Legal Department. The City owns the Utilities System and the Communications System assets. LCG operates on a FY beginning November 1 and ending on October 31 of the following year. While LUS was governed under the 1996 Home Rule Charter during the FY 2019 period, in January 2020, a new Home Rule Charter was implemented which modified the governance structure to that which is described in this report.

Now, LCG is currently governed by a Mayor-President and City-Parish Council members that are elected by the Parish and the City to four-year terms of office. The Lafayette City Council consists of five members who are serving as the governing authority for the City and the Lafayette Parish Council consists of five members who are serving as the governing authority for the Parish. The City Council and the Parish Council, jointly, serve as the governing authority for LCG. The Mayor-President leads LCG along with the City Council and Parish Council. The City Council is the governing authority for LUS, LPPA, and LUS Fiber. The Mayor-President appoints the Director of Utilities and Communications, with such appointment for the Director of Utilities subject to ratification by the City Council. Certain provisions provided by LCG to the City and Parish are shared such as finance, accounting, administration, human resources, legal, and insurance. The Mayor-President and Chief Administrative Officer supervise the administration of departments, offices, and agencies of LCG. Certain departments of LCG are involved in day-to-day support of the management of LUS. The current members of the City-Parish Council are presented in Table 2-1.

City CouncilParish CouncilPat LewisBryan TaborAndy NaquinKevin NaquinLiz HebertJoshua CarlsonNanette CookJohn J. GuilbeauGlenn LazardAbraham Rubin, Jr.

Table 2-1: City-Parish Council Members

The City Council is the governing authority of LPPA. LPPA is a political subdivision of the State of Louisiana and was created in 1976 for the purpose of financing electric generation facilities to provide power to the City's electric system. LPPA provides the output of these generating facilities to LCG through a wholesale power sales agreement. The only generating facilities owned by LPPA include Rodemacher Unit 2 which is described in more detail in the Electric Utility Section of this Report.

The City is the owner of the Electric System (including generation, transmission, and distribution facilities), the Water System (including supply, treatment, distribution, and storage facilities), and the Wastewater System (including wastewater collection and treatment facilities) (collectively, the Utilities System), as well as the Communications System. Upon consolidation of the City and Parish governing authorities into LCG, it was specifically recognized that the Charter should accommodate for the governing of LUS, which is a City utility system. The Electric Utility, Water System, and Wastewater System are financed by the Utilities System revenue bonds.

The Communications System offers an array of services in the competitive wholesale and retail markets including fiber leases, wholesale broadband, and retail customer services. The Communications System offered a new streaming service, connecTV, in 2019. In the retail market, the Communications System offers the "triple play" of services. The "triple play" is a common term in the industry that refers to cable television ("CATV"), telephone, and Internet services. Additional internet content streaming services are now offered as well. The backbone of the system includes a 191-mile fiber backbone with direct connections to national, major Tier 1 broadband providers. The retail portion of the Communications System includes over 800 miles of overhead and underground fiber lines along City streets, along with associated equipment. The system also consists of a major headend facility, including satellite dishes and electronics, along with backup power and connection to at least three long haul connections with major

Internet carriers. The Communication System consists of a separate Communications Services Enterprise Fund with a separate and distinct set of accounts, funds, and bond pledges. The Communication System is financed by the Communication System revenue bonds.

2.2 Operating and Capital Budgeting

The budgeting process begins in early April of each year with each LCG department preparing and submitting their proposed operating and capital budgets. Many departments begin working on their own budgets prior to April. By the end of July, the administration of LCG presents a proposed budget to the City-Parish Council for consideration. The City-Parish Council then holds a series of budget review meetings where changes may be considered to the proposed budget. Per the Charter requirements, the budget must be presented to the City-Parish Council at least 90 days prior to the beginning of each FY and adopted no later than the second to last regular meeting of the FY. A final budget is typically adopted in late September.

The operating portion of the budget contains projections of revenues and expenses. Each division within LUS and LUS Fiber estimates their expenses for the upcoming FY and submits their estimates to LUS and LUS Fiber management. LUS and LUS Fiber management then compile the projections for each division and submit the document to LCG. Each year, the Utilities System and Communications System develop a five-year capital improvement program (CIP). The CIP is reviewed, updated, and budgeted annually. These budgets are normally finalized after the completion of this Report. Forecasts of revenues, expenses, and capital contained within the continuing disclosures within this report are based on previous budgets and projections which are subject to change during the budgeting process.

2.3 Insurance

The Risk Management Division within the Department of Finance is the insurance company for LCG. The function of the Risk Management Division is to protect City resources by minimizing risks and stabilizing insurance costs in an economical manner that preserves assets and protects against accidents or loss. The LCG Insurance Company provides coverage in the following areas: Group Health/Life, Property & Casualty Claims, Safety/Loss Control, and City-Parish-Nurse Wellness.

The Group Health/Life Section is self-insured. LCG has a flex funded plan for life insurance. LCG also has Flexible Spending Accounts and retirement preparation.

The Property & Casualty Claims section is self-insured for all lines of coverage including auto and general liability, error and omissions, and property and is outsourced to a third-party administrator. Workers' compensation is also outsourced to a third-party administrator.

The Safety/Loss Control section identifies potential risks to LCG employees and makes recommendations on eliminating or decreasing these risks. This section reviews all job-related injuries and vehicle accidents, facilitates safety meetings, conducts job site inspections, and inspects LCG property.

The Communications System has its own insurance policy related to auto liability and workers' compensation. According to the LCG Risk and Insurance Manager, Ms. Suzanne Siner, LCG is in compliance with Governmental Accounting Standards Board 10: Reporting for Risk Financing and Related Issues for public entities. Table 2-2 shows five years of historical insurance-related expenditures and recoveries from the Risk Management Fund for the Utilities System and Communications System. In the case that another party caused the accident or injury, the Recovery shown in Table 2-2 represents money received from the responsible party.

Table 2-2: Utilities System and Communications System Insurance Transactions

Utilities System	2017	2018	2019	2020	2021
Payments	\$1,877,879	\$591,520	\$803,662	\$791,194	\$1,441,621
Recovery	113,451	21,322	222,171	211,855	355,819
Net Transactions	\$1,764,428	\$570,199	\$581,491	\$579,339	\$1,085,802
Communications System					
Payments	\$8,412	\$14,299	\$1,193	\$160	\$1,193
Recovery	0	1,051	0	0	0
Net Transactions	\$8,412	\$13,248	\$1,193	\$160	\$1,193

2.4 Legal

2.4.1 LCG and Payment in Lieu of Tax

In June 2016, a class action lawsuit was filed against LCG, which challenged the validity of LCG collecting payments in lieu of tax ("ILOT") from LUS. More specifically, this suit alleges that the City wrongfully collected ILOT payments from LUS of over \$400 million dollars since 1976. LUS makes an ILOT payment to the City annually, which is a common industry practice for municipal owned utilities. Plaintiffs claim these payments were a disguised ad valorem tax assessed upon customers of LUS in violation of Louisiana Law. LCG and LUS have denied all the allegations and maintain these claims are wholly without merit. The ILOT suit was dismissed by the trial court, and the dismissal was affirmed on

appeal on December 30, 2020. Plaintiffs have filed for writs with the Louisiana Supreme Court, and LCG/LUS has filed an opposition. If the Court rejects the writ application, a decision may be forthcoming shortly; if they grant the writ application, they may decide the matter at this time, or call it up for briefing and oral argument, which would likely take 6 to 9 months.

2.5 Emergency Events and Reimbursements

Local governments like LUS, and certain types of non-profit organizations, are eligible to receive reimbursements for natural disasters such as hurricanes, flooding, tornadoes, and other events. LUS is eligible to receive reimbursement from the Federal Emergency Management Agency ("FEMA") and the Louisiana State Governor's Office of Homeland Security and Emergency Preparedness ("GOHSEP"). When a natural disaster occurs, LUS organizes, performs, and pays for the prompt restoration of utility service and clean up. Often, this includes hiring and paying contractors. After the event, LUS submits receipts and invoices to FEMA for reimbursement. The GOHSEP acts as the auditor and approves expenses eligible for reimbursement. Those natural disasters for which LUS has recently experienced and is awaiting reimbursement from FEMA and GOHSEP are described in the following subsections.

2.5.1 Hurricane Gustav, 2008

Hurricane Gustav made landfall September 1, 2008, near Cocodrie, Louisiana (located southwest of the City). Lafayette Parish sustained major damage as a result of the strong winds and rainfall associated with the storm. Approximately 40 percent of the retail electric customers of LUS lost power during the storm; however, all services were restored within a 72-hour time frame. When Hurricane Gustav hit, LUS hired a contractor, J.W. Didado, to assist with the utility restoration and clean-up. LUS paid J.W. Didado approximately \$1 million. Other utilities also paid J.W. Didado at the same time, and because of anomalies in the reimbursement documentation, GOHSEP conducted an in-depth analysis. GOHSEP, through their auditing process, filed an audit report on March 9, 2016, stating that approximately \$660,000 of the expenses of LUS are eligible for reimbursement. The report states that certain expenses were ineligible costs (mobilization, demobilization, and standby time) and overbilled labor and equipment. LUS is continuing to cooperate with GOSHEP/FEMA. The report recommended that LUS should implement a method to identify the use of contractors by multiple sub grantees during the same time periods. LUS recorded a deferred debit on the balance sheet of \$1,868,215. As of October 31, 2021, LUS is awaiting reimbursement of \$377,022.

2.5.2 **Hurricane Isaac**, 2012

Hurricane Isaac hit southern Louisiana in August 2012. LUS experienced the effects of Hurricane Isaac, creating numerous outages over a 24-hour period. Weather conditions contributed to an increase in

lightning and tree related outages, which affected customer outages. The claim is currently being processed by GOHSEP. LUS recorded a deferred debit on the balance sheet of \$182,218. As of October 31, 2021, LUS has been reimbursed and is no longer awaiting reimbursement.

2.5.3 Flooding of 2016

In August 2016, southern Louisiana experienced major flooding, which impacted the Utilities and Communications Systems operations. The Water, Wastewater, and Communications Systems experienced only minor disruptions in service and minimal damage to system infrastructure. The Communications System did not experience any major outages. The Water System experienced flooding at the South Water Plant ("SWP") due to flood water rising past the elevation of the wells' sanitary seals. The SWP was shut down for a brief period so that testing could determine if the well water was affected by flood waters. Testing showed that the water was safe, and the Water System was able to meet demand even under the flood conditions. However, this event prompted many repairs and rehabilitation efforts at the plant. Updates implemented at the SWP include FEMA recommended steel shipping doors to prevent water entering filter gallery, building rehabilitation, and roof repair. LUS recorded a deferred debit on the balance sheet of \$630,364. The claim is currently being processed by GOHSEP. During 2019, LUS was reimbursed \$497,611 however no additional reimbursement was made in 2020. As of October 31, 2021, LUS is awaiting reimbursement of \$54,270.

2.5.4 **Hurricane Barry**, 2019

Approximately 5,000 homes were affected by Hurricane Barry. Within two days, LUS was back to normal operations. LUS recorded a deferred debit on the balance sheet of \$1,031,267. The claim is currently being processed by GOHSEP. As of October 31, 2021, LUS is still awaiting reimbursement of \$851,263. The Communications System experienced no major outages as part of Hurricane Barry. However, there were repairs needed of several access cables to restore service to several hundred customers in addition to power supply failures. Communications System returned to normal operation within three days. As of October 31, 2021, Communications System has been reimbursed and is no longer awaiting reimbursement based on records provided.

2.5.5 **Hurricane Laura**, 2020

Hurricane Laura hit on August 27, 2020, near Cameron, LA as a Category 4 storm. During the event, LUS had nearly 15,000 customers impacted and restored service in approximately one and one-half days. The total damage caused by Laura was approximately \$2.50 million with \$1.99 million in expenses incurred by LUS and LUS Fiber in FY 2020. The majority of the damages caused by the storm were on the electric system, however some costs were borne by water, wastewater and fiber. LUS and LUS Fiber

were processing additional invoices and compiling data for FEMA submission through FY 2021. As of October 31, 2021, LUS and LUS Fiber are awaiting reimbursement of \$2,221,227.

2.5.6 Hurricane Delta, 2020

On October 9, 2020, Hurricane Delta made landfall as a Category 2 storm near Creole, LA. Lafayette Parish sustained major damage as a result of strong winds and heavy rainfall affecting almost 70 percent of LUS customers. LUS customers' services were restored within three and one-half days by 400+ LUS employees and the assistance of over 300 mutual aid partners and contractors. The majority of the damages caused by the storm were on the electric and fiber systems with minor issues in water and wastewater. Hurricane Delta caused approximately \$7.1 million in restoration expenses for LUS and LUS Fiber with \$4.2 million incurred in FY2020. LUS and LUS Fiber were processing additional invoices and compiling data for FEMA submission in FY 2021. As of October 31, 2021, LUS and LUS Fiber are awaiting reimbursement of \$5,192,900.

2.5.7 Winter Storm, 2021

In February of 2021, the entire central U.S., including the City of Lafayette, experienced a significant winter storm resulting in abnormally low temperatures. The winter storm did not result in major damage to the system however the central U.S., including LUS, experienced abnormally high market power costs. LUS's generating units were online during the storm providing a hedge against extreme increases in power cost for LUS's electric utility. While LUS's power supply was well insulated compared to many utilities, the wholesale cost of power during February was higher than normal and was recovered through the fuel cost rate rider.

2.6 Service Territory

LUS provides electric, water, and wastewater utility service to customers primarily within the City limits. LUS also services some electric, water, and wastewater customers outside the City limits but within the Parish limits. As of October 31, 2021, LUS served 70,096 electric accounts, 57,891 water accounts, and 46,681 wastewater accounts.

LCG has franchise agreements and street lighting agreements with the City of Broussard and the City of Youngsville for electric service. LUS provides street lighting service to both cities and provides services to new residential and commercial developments within these cities.

LUS serves retail water customers inside and outside the City limits while providing wholesale water for other parish water distribution companies which are described in more detail later in this report.

LUS serves wastewater customers inside and outside the City limits. In addition, LUS serves localized (e.g., residential subdivision) packaged wastewater treatment systems.

The Communications System services are generally offered within the City limits, but have expanded to new subdivisions outside the City. At the end of October 2021, the Communications System served approximately 34 wholesale accounts and over 22,000 retail accounts with CATV, telephone, Internet, or some combination of the three. The Communications System continues to show notable positive growth each year. The Communications System attained franchise status in November 2017 throughout the Parish and offers communications service to the City of Broussard, City of Youngsville, City of Carencro, and unincorporated areas in the Parish. The Communications System is continuing to build out targeted areas and was recently awarded a grant to build out the Communications System to serve new underserved areas in neighboring Parishes.

2.7 Management and Organization

The Utilities System is a department of LCG and is managed and operated in accordance with the Charter and provisions of the current Utilities System General Bond Ordinance. The "Flow of Funds" set forth in the General Bond Ordinance specifies how to treat revenues and related margins resulting from LUS operations. Available margins, once O&M expenses have been paid, are first required to meet debt service and reserve fund obligations, then a formula is applied to determine amounts for capital improvements and replacements funding, and the payment amount to the City's General Fund as ILOT. The Lafayette Public Utilities Authority ("LPUA") historically approved LUS budgets and issued debt as approved by the Mayor-President and City-Parish Council. Beginning in January 2020, the City Council assumed LPUA's responsibilities with respect to the Utilities System, in addition to approval of rates and has been fulfilling this responsibility through most of FY 2020.

The Communications System is a department of LCG and is managed and operated in accordance with the Charter and provisions of the current Communications System General Bond Ordinance. The "Flow of Funds" set forth in the General Bond Ordinance specifies how to treat revenues and related margins resulting from Communications System operations. Available margins, once O&M expenses were paid, are first required to meet debt service and reserve fund obligations, then a formula is applied to determine amounts for capital improvements and replacements funding, and the Imputed taxes. Historically LPUA approved the Communications System budgets, and issued debt as approved by the Mayor-President and City-Parish Council. Beginning in January 2020, the City Council assumed LPUA's responsibilities with

respect to the Communications System and has been fulfilling this responsibility through most of FY 2020.

The Utilities Director and Communication System Director are both appointed by the Mayor-President with the Director of Utilities appointment subject to ratification by the City Council. The Consulting Engineer advises the LUS in its appointment of a Chief Operating Officer of the Utilities System, per the ordinance requirements, and fulfilled this role in FY 2021 as LUS evaluated candidates and selected Jeffrey Stewart for the position in FY 2022.

2.7.1 LUS Organizational Structure

The Utilities System has eight functional areas reporting to the Utilities Director. These functional areas include Support Services, Customer Service, Environmental Compliance, Power Production, Electric Operations, Water Operations, Wastewater Operations, and Engineering.

LUS is managed by the Utilities Director. The Utilities Director is responsible for the management and operations of the LUS electric utility, water utility, and wastewater utility. More specifically, the Utilities Director oversees and manages electric production and distribution, water treatment and distribution, wastewater collection and treatment, utility engineering services, supervision of construction work for LUS, maintaining utility equipment in cooperation with the central garage, reading, billing and, collection of all utility meters, and other such activities as may be directed by the Mayor-President as necessary or incidental to the operation of LUS.

The Interim Utilities Director during FY 2021 was Mr. Lowell Duhon. Mr. Duhon graduated from the University of Louisiana at Lafayette with a Bachelor of Science and Master of Business Administration. Prior to serving as the Interim Utilities Director, Mr. Duhon was the Chief Administrative Officer of LCG. Prior to LCG, Mr. Duhon had experience as a Financial Consultant. Mr. Duhon served in this interim role since October 2019 and fulfilled this role until LUS and LCG selected the permanent Utilities Director, Jeffrey Stewart, in February 2022.

Division managers reporting to the Interim Utilities Director are presented below along with their credentials.

Jeffrey Stewart – Engineering & Power Supply Manager, Power Production Manager: Mr. Stewart
has over 20 years of experience at LUS and served as the Engineering & Power Supply Manager
throughout FY 2021. In this position, Mr. Stewart is responsible for the supervision of all day-to-day
engineering activities including Civil Engineering, Power Marketing, System Engineering and

Substation Engineering, Network Engineering, Environmental Compliance associated with power generation, and the Primary Authorized Officer for North American Electric Reliability Corporation ("NERC") Compliance. LUS is currently working to fill Mr. Stewart's replacement in FY 2022 while he transitions from his current role into the permanent Utilities Director.

- Alison Alleman Customer & Support Services Manager: Ms. Alleman has over 21 years of experience at LUS and served as the Customer & Support Services Manager throughout FY2021. She holds a Bachelor of Science in Finance degree and a Master of Business Administration degree from the University of Louisiana at Lafayette. She is responsible for various support and customer service functions within the Utilities Department including financial monitoring and planning, rates, revenue assurance, employee development, meter services, utility conservation, customer service, business support services, and administration support services.
- Tracy Mouton Environmental Compliance Manager: Ms. Mouton has worked in the environmental field with the Utilities System for 28 years, serving as the Environmental Compliance Manager since July 2016. Her education includes a Bachelor of Science in Biology with a minor in chemistry from Jackson State University in Jackson, Mississippi. Ms. Mouton is responsible for ensuring environmental compliance of all LUS business operations associated with water and wastewater operations.
- Gregory A. Labbé Electric Operations Manager: Mr. Labbé has worked with LUS for 36 years and held several positions in the Electric Operations Section. Mr. Labbé is responsible for the day-to-day operation of the electric transmission and distribution system including Transmission and Distribution Operations, Field Operations, Energy Control, Substations and Communication, Facilities Management, and the Warehouse. Mr. Labbé is a graduate of T.H. Harris Technical School in Opelousas, Louisiana.
- Craig Gautreaux Water and Wastewater Operations Manager: Mr. Gautreaux has 37 years of
 experience in the civil engineering and wastewater operations industry (5 years with a private
 consulting firm, and 32 years with the Utilities System). Mr. Gautreaux has a master's degree in civil
 engineering and is responsible for the day-to-day operation of the Water and Wastewater Systems
 including Water Production, Water Distribution Operations, Wastewater Treatment, and Wastewater
 Collection.

2.7.1.1 LUS Staffing

LUS reviews its overall staffing requirements annually and budgets overall staffing level in its annual budgetary process to continue to provide reliable and cost-effective services to customers. The LUS

staffing levels by department have been relatively stable over the last several years and appear reasonable for the size and complexity of the organization. At the end of 2021 there were several vacancies across the organization with some departments having more vacancies than others, such as the T&D group. LUS is working to fill those positions and has recently hired four additional linemen with plans to bring in additional linemen over the coming year. The personnel tables by department are contained in the LCG 2021 Budget and the LCG 2022 Budget. Table 2-3 presents the number of employees by department at the end of FY 2021 as well as the budgeted number of employees in FY 2021 and FY 2022.

Table 2-3: LUS Number of Personnel by Department

		Personnel					
	October 31, 2021	2021 Budget	2022 Budget				
Director's Office	2	2	2				
Support Services	24	27	27				
Customer Service	28	31	31				
Environmental Compliance	16	17	18				
Power Production	34	35	35				
Electric Operations	74	94	94				
Water Operations	57	62	69				
Wastewater Operations	90	98	97				
Engineering	75	81	81				
Total Utilities System	400	447	454				

Source: 2021 Budget, 2022 Budget, LUS Org Chart

2.7.2 LUS Fiber Organizational Structure

At the end of March 2021, Lafayette Mayor-President Josh Guillory named Ryan Meche as LUS Fiber's new Director. Mr. Meche graduated from the University of Louisiana at Lafayette with a Bachelor of Science in Electrical Engineering and is a registered Professional Engineer in Louisiana. Mr. Meche has been an employee of LUS for 17 years.

From October 14, 2019, to the end of March 2021, the Interim Communications System Director was Ms. Kayla Miles. Ms. Miles graduated from the University of Louisiana at Lafayette with a Bachelor of Arts in Public Relations. Prior to serving as the Interim Communications System Director, Ms. Miles was the Communications Support Services Administrator for Communications System.

From November 1, 2018, through October 14, 2019, the Interim Communications System Director was Ms. Teles Fremin. Ms. Fremin graduated from the University of Louisiana at Lafayette with a Bachelor of Science in Electrical Engineering and is a registered Professional Engineer in Louisiana. Ms. Fremin has been an employee of LUS for 19 years.

From July 2018 through November 1, 2018, the Communications Director was also the Interim Utilities Director at the time, Mr. Jeffrey Stewart.

Prior to July 2018, the Utilities Director was Mr. Terry Huval. Upon Mr. Huval's resignation and retirement, Mr. Jeffrey Stewart was appointed the Interim Utilities Director.

Since November 1, 2018, the Communications Director has been responsible for the Communications System operations and management. Communications System employees and facilities are organized separately from Utilities System operations; however, several services such as accounting, and reporting functions are shared among the Communications System and Utilities System. In accordance with the requirement to maintain separate Utilities System and Communications System funds, all costs associated with these services are accounted for separately.

The Communications System employs approximately 83 employees, reporting to 5 functional areas: Administration and Support, Operations, Warehouse, Business Support Services, and Engineering. Division managers report to Ryan Meche, the Communications System Director. Mr. Meche graduated from the University of Louisiana at Lafayette with a Bachelor of Science in Electrical Engineering and is a registered Professional Engineer in Louisiana. Mr. Meche has been an employee of LUS for 17 years. He is responsible for overseeing all matters regarding Communications System.

2.7.2.1 LUS Fiber Staffing

The staffing table below reflects the fact that the Business Support Services division took over direct management of twelve customer service personnel in FY 2021. In the past, these twelve positions were included in the LUS manning table, and LUS Fiber covered the cost of these positions through the Administrative and General expense line item in LUS Fiber's budget, in accordance with LCG's cost allocation plan. These positions were not included as LUS Fiber staffing counts in the previous years' projected budget, creating the appearance of staffing level above target levels. However, setting aside the additional customer service staff, the Communications System is understaffed in each functional area by a total of six personnel.

Table 2-4: LUS Fiber Number of Personnel by Department

Personnel October 31, 2021 2021 Budget 2022 Budget Administration & Support 3 2 22 Operations 31 34 3 3 3 Warehouse **Business & Customer Support Services** 17 22 23 20 33 Engineering 15 Total Communications System 69 83 83

Source: 2021 Budget, 2022 Budget, LUS Org Chart

2.8 Employee Compensation Review

LUS and LUS Fiber annually administer employee performance reviews and salary planning. Salary adjustments take effect on November 1 of each year, with changes realized during the first full pay period of the new FY. Compensation parameters are associated with the job titles and job descriptions, which specify skill and responsibility levels of various employees throughout LUS and LUS Fiber. Like previous years, Burns & McDonnell and Magellan conducted a review of compensation for various job descriptions within LUS and LUS Fiber. The review conducted for this CER update did not take into consideration other key benefits included in an overall compensation package such as job stability, sick leave benefits, and retirement benefits which can often overcome the differences between for-profit and not-for-profit entities competing for the same talent. The positions benchmarked are listed below.

- Electric Utility
 - o Chief Electrical Engineer
 - Electrical Engineer III
 - Power Plant Technician
- Water and Wastewater Utility
 - Water/Wastewater Operations Manager
 - o Water Plant/Waste Plant Operator
- Communications System
 - Fiber Optics Technicians
 - Programmer Analyst
 - Applications Support Specialist
 - Systems Analyst

LUS is compensating its employees at levels below other employers in the State of Louisiana based on the review completed as part of the CER update. Within the electric, water, and wastewater utilities, the median regional salaries compared reasonably well with each LUS classification with all positions having a compensation rate within 10 to 15 percent of the regional median. Some of the difference in compensation between Lafayette and state averages could be attributed to the lower cost of living when compared to other larger cities in Louisiana such as New Orleans. Based on feedback from LUS, hiring and retaining electric lineman has been a challenge. However, LUS is working with regional schools to train and hire new staff.

LUS Fiber recently retained Magellan Advisors for an overall compensation study and is currently assessing the impact of the study. Within the compensation study for LUS Fiber all positions are being reviewed. Due to the competitive nature within the ISP industry, LUS Fiber must provide competitive compensation to retain key employees and attract quality resources. The goal of the compensation study is to evaluate all positions and provide potential compensation adjustments for current positions to maintain or enhance LUS Fiber's ability to retain and recruit talented resources. LUS Fiber is considering key management and leadership positions needed for growth.

LUS Fiber is compensating its employees at an average of 85 percent of the regional median salaries based on the review completed within the CER update. LUS Fiber continues examining its salaries in comparison to other regional telecommunication providers so that it can continue to hire and retain well qualified analysts, technicians, and support specialists.

3.0 UTILITIES SYSTEM FINANCIAL REVIEW

3.1 System Description

LUS operates Electric, Water, and Wastewater Systems. The Electric System operates power generation, transmission, distribution, and customer assets. The Water System includes raw water treatment plants, distribution system, and customer assets. The Wastewater System includes sewage treatment plants, collection piping, and customer assets. This section of the Report provides a summary of the historical financial condition of LUS through the end of FY 2021.

3.2 Customers

LUS serves customers both within the City limits and outside the City. The Water system has wholesale agreements with several cities that are described later in this report. The Electric system has franchise agreements with the City of Broussard and City of Youngsville which allow LUS to provide service in those cities. The historical number of customers served by each utility is provided in Table 3-1. LUS has experienced modest growth over the last five years.

Year Electric Water Wastewater Total 2017 167,993 66,860 56,302 44,830 2018 67,243 56,564 168,826 45,019 2019 68,495 58,316 45,623 172,434 2020 69,364 172,909 57,412 46,133 70,096 57,891 46,681 2021 174,668

Table 3-1: Historical Utility Customers

Source: LUS Financial and Operating Statements

3.3 Historical Revenues

LUS generates revenues primarily from the sale of the utility services it provides. The electric utility represents approximately 75 percent of the revenues and costs of LUS while the water and wastewater utilities represent the remaining 25 percent. The historical revenues have been relatively stable for all three utilities over the last five years. Only the electric utility experienced a noticeable reduction in FY 2020 due to the COVID-19 Pandemic, however it should be noted that the revenue reduction was combined with a commensurate reduction in fuel and purchased power expenses. Revenues rebounded to historical levels in FY 2021. The historical revenues by utility are presented in Table 3-2 and include revenues from base rates, fuel charges, interest income, and other miscellaneous revenues.

\$233,524,527

Electric Wastewater Revenues Revenues Year Water Revenues Total Revenues 2017 \$176,060,504 \$19,822,196 \$30,790,307 \$226,673,006 \$180,955,690 2018 \$21,736,544 \$32,379,226 \$235,071,461 2019 \$179,965,886 \$32,038,772 \$21,369,475 \$233,374,132 2020 \$166,467,519 \$21,696,556 \$31,122,710 \$219,286,785

\$21,904,303

\$31,768,322

Table 3-2: Historical Operating and Other Revenues

Source: LUS Financial and Operating Statements

\$179,851,903

3.4 Debt Service Coverage

2021

LUS currently has several outstanding bonds that were issued for the purposes of making improvements and expansions to the three utility systems. LUS has a minimum DSC ratio of 1.0 as required by the Bond Ordinances and has continued to adequately maintain its DSC over the last five years. LUS has been making payments on the Series 2019 Bonds, Series 2017 Bonds, Series 2012 Bonds, and Series 2010 Bonds. The Series 2010 Bonds were fully redeemed by the Series 2017 Bonds on November 1, 2020. The Series 2012 Bonds were refunded with the Series 2021 Bonds in FY 2022 on November 1, 2021. Table 3-3 presents the historical debt service coverage ratio for LUS.

Table 3-3: Historical Debt Service Coverage

	Operating	Operating	Net Available		Debt Service
Year	Revenues	Expenses	Revenues	Debt Service	Coverage Ratio
2017	\$226,673,006	\$165,998,482	\$60,674,525	\$21,341,835	2.8
2018	\$235,071,461	\$164,165,246	\$70,906,215	\$21,427,905	3.3
2019	\$233,374,132	\$152,839,402	\$80,534,731	\$22,732,925	3.5
2020	\$219,286,785	\$143,498,541	\$75,788,244	\$25,374,000	3.0
2021	\$233,524,527	\$162,712,354	\$70,812,174	\$25,095,600	2.8

Source: LUS Financial and Operating Statements

3.5 Rate Adjustments

The current rates for LUS are presented in the LCG Code of Ordinances, Article III – Rates and Charges, Division 1. The electric, water, and wastewater utilities each have their own tariffs for each customer class and are comprised of both fixed charges and variable charges. Rates are adjusted through rates studies that are conducted every few years with rate recommendations approved by the City-Parish Council. The fuel charge within the electric utility is adjusted monthly based on the cost of fuel and purchased power and the Utility Director monitors and manages the fuel charge on a month-to-month basis to adequately recover eligible costs. The most recent rate study was completed in 2016. The study

demonstrated that the utility rates would have been insufficient to recover the three utilities' costs. Therefore, each utility required a series of rate increases to be implemented over several years. As demonstrated by the historical DSC analysis, the rate increases have provided the required revenues to be in compliance with Bond Covenants, maintain adequate cash balances, and fund the capital and operating costs of the utility. The utility is currently in the process of completing a rate study for the electric, water, and wastewater utilities and expects to be completed with the study with new rates implemented at the beginning of FY 2023. The historical approved total rate revenue adjustments by utility are presented in Table 3-4.

Table 3-4: LUS Historical Rate Adjustments

	2017	2018	2019	2020	2021
Electric Retail: Base Rate	6.0%	6.0%	0.0%	0.0%	0.0%
Water Retail	7.4%	7.2%	0.0%	0.0%	0.0%
Wastewater Retail	6.1%	5.7%	0.0%	0.0%	0.0%

3.6 Operating and Capital Budgets

LUS prepares and submits the proposed operating and capital budget to LCG annually for approval. The operating section of the budget includes projections of revenues and expenses for the upcoming FY. The operating projections for the upcoming FY are finalized subsequent to the completion of this Report.

The CIP is included within the FY 2022 Budget and is presented in Table 3-5 as provided by LUS to Burns & McDonnell. The total forecasted CIP over the next five years is largely concentrated in FY 2023 and FY 2024. Forecasted CIP is anticipated to be funded through both retained earnings and the issuance of new bonds in FY 2023. Additional details on the nature of the projects within the CIP are provided later within this Report for each utility.

Electric 2022 2023 2024 2025 2026 Total \$300,000 \$400,000 \$0 \$0 \$0 \$700,000 Acquisitions Production \$930,000 \$1,330,000 \$455,000 \$155,000 \$655,000 \$3,525,000 \$1,945,000 Distribution \$595,000 \$1,635,000 \$985,000 \$985,000 \$6,145,000 Substation \$475,000 \$1,275,000 \$5,425,000 \$925,000 \$885,000 \$8,985,000 Transmission \$1,285,000 \$3,410,000 \$10,000 \$10,000 \$10,000 \$4,725,000 General Plant \$7,560,000 \$2,185,000 \$1,610,000 \$3,160,000 \$910,000 \$15,425,000 Total Electric \$11,145,000 \$10,545,000 \$9,135,000 \$5,235,000 \$3,445,000 \$39,505,000 Water Production \$1,000,000 \$2,180,000 \$6,830,000 \$2,530,000 \$3,230,000 \$15,770,000 Distribution \$1,495,000 \$3,110,000 \$1,960,000 \$1,110,000 \$560,000 \$8,235,000 \$8,790,000 Total Water \$2,495,000 \$5,290,000 \$3,640,000 \$3,790,000 \$24,005,000 Wastewater Treatment \$2,570,000 \$20,410,000 \$5,410,000 \$11,360,000 \$360,000 \$40,110,000 Collection \$3,810,000 \$6,365,000 \$10,265,000 \$3,565,000 \$3,415,000 \$27,420,000 Total Wastewater \$6,380,000 \$26,775,000 \$15,675,000 \$14,925,000 \$3,775,000 \$67,530,000 Total Capital Program \$20,020,000 \$42,610,000 \$33,600,000 \$23,800,000 \$11,010,000 \$131,040,000

Table 3-5: LUS 2021 Budget Projected Capital Improvement Plan

Source: LUS

3.7 LUS System Budget and Actual Performance

As part of this Report, Burns & McDonnell compared the LUS FY 2021 budgets to the FY 2021 actual results. This section presents the results of the LUS budget and actual accounts for FY 2021. The categories presented are similar to those in the FY 2021 Budget and may be slightly different than others found within the Report. LUS performed slightly better than expected during FY 2021 even with the lingering effects of the COVID 19 pandemic as demonstrated in Table 3-6.

Table 3-6: LUS Comparison of FY 2021 Budget and Actual Results

	2021 Actual	2021 Adopted	Difference	
	(millions)	Budget (millions)	(millions)	Difference (%)
Operating Revenues				_
Electric Retail Sales	\$100	\$101	(\$2)	-1.7%
Electric Retail Fuel Adj.	\$76	\$73	\$4	5.3%
Electric Wholesale Sales	\$0	\$0	(\$0)	-8.7%
Water Sales	\$21	\$22	(\$1)	-3.3%
Wastewater Sales	\$30	\$33	(\$3)	-8.3%
Interest Income	\$1	\$2	(\$1)	-43.1%
Miscellaneous Other	\$5	\$5	\$0	0.8%
Total Operating Revenue	\$234	\$236	(\$2)	-0.9%
Operating Expenses				
Purchased Power LPPA	\$50	\$50	(\$0)	-0.5%
Purchased Power Other	\$5	\$5	\$0	1.9%
Purchased Power MISO	\$74	\$59	\$15	25.7%
Purchased Power MISO Sales	(\$46)	(\$36)	(\$10)	28.8%
Production Fuel	\$7	\$4	\$3	63.8%
Other O&M	\$72	\$84	(\$12)	-13.7%
ILOT	\$24	\$24	(\$0)	-0.2%
Total Operating Expenses	\$187	\$191	(\$4)	-2.2%
Other Income (Expenses)				
Normal Capital & Spec Equip	(\$8)	(\$15)	\$7	-44.8%
Principal from Internal Loans	\$1	\$2	(\$1)	-47.6%
Interest from Internal Loans	\$1	\$1	\$0	7.4%
Interest on Long Term Debt	(\$10)	(\$11)	\$0	-1.6%
Principal on Long Term Debt	(\$12)	(\$15)	\$2	-15.0%
Total Other	(\$29)	(\$37)	\$8	-22.0%
Cash Available for Capital	\$18	\$7	\$10	144.8%

Source: LUS Financial and Operating Statements

The electric utility experienced electric sales volumes and revenues that were in line with expectations; however, wholesale power and energy costs were higher than expected. The overall non-power costs were lower than expected which helped to offset higher wholesale power and energy costs. The water and wastewater utilities saw slight increases in total revenues with reductions in operating costs that helped support cash flows. The actual normal capital and special equipment spending was lower than the adopted budget which helped improve cash available for capital.

3.8 LUS Shared Services

Shared services for LUS are provided by the Customer Service & Support Service divisions. These divisions provide financial planning, rates, meter services, customer service, administration and business support services for all three of LUS's utilities. The cost of these services is assigned and shared across the Electric, Water, and Wastewater Systems in the establishment of rates and charges. The customer

service staff has experienced turnover that is typical within the industry and LUS is working with Civil Service to implement an apprenticeship program to increase employee retention. The Support Services division is a smaller group and has experienced lower turnover.

3.9 Payment In Lieu of Tax

LUS makes an annual ILOT payment to the City. ILOT payments by municipally owned utilities are commonly used by local governments across the country to collect taxes and/or franchise fees that would be collected if an investor-owned utility were operating the utility franchises within the city. The LUS ILOT calculation provides for an ILOT payment of up to 12 percent of the Receipts Fund. The non-fuel revenues are the gross receipts less fuel costs and other miscellaneous items. To be eligible to make the ILOT payment, LUS must first pass an ILOT Test. The purpose of the test is to ensure that LUS has sufficient cash to meet capital obligations. If cash available after debt service, less 7.5 percent of the non-fuel revenues, is greater than 12 percent of the Receipts Fund, LUS passes the test and makes the ILOT payment to the City. Should LUS fail the ILOT Test, LUS pays an amount equal to the amount of cash available after debt service, less 7.5 percent of the non-fuel revenues. The American Public Power Association ("APPA") benchmarks ILOT as a percentage of revenue across the country as well as the West South Central Region, as defined by APPA, in which LUS is located. The median ILOT for this region is 11.9 percent while LUS has paid an average ILOT rate of 10.5 percent over the last 5 years as presented in Table 3-7.

Table 3-7: LUS Historical ILOT Payments

	2017	2018	2019	2020	2021
ILOT Paid (1)	\$22,568,235	\$23,708,786	\$25,051,002	\$24,679,711	\$24,056,012
Total Operating Revenues	\$226,673,006	\$235,071,461	\$233,374,132	\$219,286,785	\$233,524,527
ILOT as a percent of Revenues	10.0%	10.1%	10.7%	11.3%	10.3%

Source: LUS Financial and Operating Statements

3.10 Accounting and Financial Statements

LUS accounting responsibilities are managed and performed by LCG, including the selection of accounting software and related financial reporting. LCG prepares monthly Financial and Operating Statements for LUS which are also provided to the Engineer of Record monthly. These statements include a balance sheet, income statement, revenues and expenses, and other detailed operating statistics. The final audited financial statements contained in the Comprehensive Audited Financial Report ("CAFR") Statements are typically not available until April of the following fiscal year which is when this Consulting Engineer's Report is also completed. The detailed data contained within this Report is based

⁽¹⁾ Represents ILOT paid for the Utilities System including electric, water, and wastewater systems.

upon the monthly Financial and Operating Statements provided to the Engineer of Record and may vary from the tables in the CAFR. Based on information contained in previous CAFRs and CERs the differences are generally not material.

3.10.1 Balance Sheet

The historical balance sheet for LUS is presented in Table 3-8. LUS assets have continued to grow as the utility systems each continue to grow to serve new customers. Bond funds increased considerably in 2019 as result of the 2019 Series Bonds and have begun to reduce as projects are completed. Retained earnings have grown steadily over the last year few years while the debt to equity ratio has slightly improved over the last two years.

Total Assets 2017 2018 2019 2020 2021 \$ 566,271,981 \$ 565,059,332 561,005,523 572,808,275 Utility Plant \$ 561,320,749 Bond and Special Funds 124.504.455 132,262,607 216,710,984 193,456,237 213,449,976 **Current Assets** 8,885,760 8,780,394 9,110,701 10,183,720 10,212,476 Accounts Receivable 29,668,893 28,439,772 28,657,295 28,520,766 31,448,617 Reserve for Uncollectible Accounts (1,215,674)(1,090,028)(941.530)(799,310)(1,069,077)Notes Receivable 27,181,093 26,529,343 25,686,227 24,706,574 23,098,960 Inventories 8,981,327 9,097,936 9,444,953 10,671,253 11,440,176 Deferred Debits 27,838,831 22,227,147 23,962,998 23,542,330 26,685,847 **Total Assets** \$ 792,116,667 \$ 791,306,504 \$ 871,764,388 873,468,821 868,081,511 **Total Liabilities & Equity** Long Term Debt \$ 195,915,000 \$ 184,110,000 \$ 229,805,000 \$ 215,615,000 \$ 201,055,000 **Current Liabilities** 24,734,800 24,900,222 27,266,441 33,950,669 31,236,972 Long Term Liabilities 60,358,386 62,946,218 73,987,500 66,914,126 65,145,626 Retained Earnings 511,108,482 519,350,063 540,705,447 556,989,025 570,643,914

\$ 791,306,504

\$ 871,764,388

\$ 873,468,821

\$ 792,116,667

Table 3-8: LUS Historical Balance Sheet

Source: LUS Financial and Operating Statements

3.10.2 Fund Balances

Total Liabilities & Fund Equity

Article V of the LUS General Bond Ordinance dictates the funds and accounts of LUS and defines the 'Flow of Funds.' Article V creates several funds which are presented in Table 3-9. The flow of funds proceeds in the following order: Receipts Fund, Operating Fund, Sinking Fund, Reserve Fund, and Capital Additions Fund. Funds may be created as new bonds are issued. Table 3-9 summarizes the beginning balance, receipts, disbursements, and ending balances of the required funds cash balances. First, 7.5 percent of non-fuel revenues are transferred to capital costs of LUS. Then 12 percent of total deposits in the Receipts Fund are transferred to the General Fund of the Issuer. Then funds are used to pay amounts due on Subordinated indebtedness with remaining funds used for other purposes under the General Ordinances.

868,081,511

Table 3-9: LUS Fund Balances as of October 31, 2021 (\$1,000)

					Во	nd & Interest			Во	nd Reserve	2019 Bond Construction	
	Rec	eipts Fund	Ope	rating Fund		Fund	Ca	pital Additions		Fund	Fund	Total
Beginning Balance	\$	1,099	\$	8,000	\$	-	\$	123,032	\$	17,328	\$ 67,206	\$ 216,665
Receipts		247,605		209,639		25,097		41,808		160,740	58	684,947
Disbursements		246,519		209,624		25,097		52,223		160,740	12,511	706,714
Ending Balance	\$	2,185	\$	8,015	\$	-	\$	112,617	\$	17,328	\$ 54,753	\$ 194,898

Source: LUS Financial and Operating Statements

3.10.3 Income Statement

The LUS Income statement is presented in Table 3-10. Over the last five years LUS net operating revenues after depreciation have increased with system growth and several rates increases that were implemented in 2017 and 2018 to improve financial conditions as determined in the 2016 rate study. In FY 2020, LUS experienced a reduction in overall revenues which was largely driven by lower electric sales and electric revenues. The reduction was offset by a corresponding reduction in operating expenses which helped to maintain net operating revenues during FY 2020. Both revenues and expenses have rebounded in FY 2021 as LUS came out of the Covid 19 Pandemic and returned to normal revenue and expense levels. However, overall net operating revenues were lower and when combined with reductions in both other income and expenses LUS realized an overall decline in net income compared to FY 2020.

Table 3-10: Historical Income Statement

	2017	2018	2019	2020	2021
Operating Revenues	\$ 224,652,384	\$ 232,203,121	\$ 228,678,339	\$ 216,381,978	\$ 232,504,512
Operating Expenses	165,998,482	164,165,246	152,839,402	143,498,541	162,712,354
Net Operating Revenues	\$ 58,653,902	\$ 68,037,875	\$ 75,838,938	\$ 72,883,437	\$ 69,792,158
Depreciation	23,960,817	24,555,286	25,130,355	25,189,698	24,589,046
Net Operating Revenues after Depreciation	\$ 34,693,086	\$ 43,482,589	\$ 50,708,583	\$ 47,693,738	\$ 45,203,113
Other Income					
Interest Income	\$ 2,020,622	\$ 2,868,340	\$ 4,695,793	\$ 2,904,807	\$ 1,020,016
Unrealized Gain/Loss on Invs	(283,409)	(46,380)	399,671	(139,572)	(128,924)
Amortization of Debt Premium	2,995,867	3,544,254	3,639,998	3,769,742	3,555,219
Water Tapping Fees	64,240	72,240	56,760	61,540	71,460
Communications Lease Income	25,378	0	0	11,379	0
Contributions in Aid of Construction	128,155	304,557	0	140,856	0
Misc. Non Operating Revenue	3,335,924	4,188,986	3,141,166	3,633,306	2,412,390
Total Other Income	\$ 8,286,777	\$ 10,931,997	\$ 11,933,388	\$ 10,382,059	\$ 6,930,161
Other Expenses					
Loss on Disposition of Property	369,488	398,883	309,767	290,397	507,437
Interest Expense	8,916,835	9,622,905	10,362,925	11,184,000	10,535,600
Amortizations	2,046,774	2,304,183	2,187,756	1,986,896	1,801,118
Interest on Customer Deposits	1,688	4,307	5,331	1,834	1,897
Tax Collections/Non Operating	0	0	0	0	0
Misc Non Operating Expense	3,182,762	2,844,559	3,369,807	3,649,380	1,576,322
Total Other Expenses	\$ 14,517,546	\$ 15,174,837	\$ 16,235,585	\$ 17,112,507	\$ 14,422,373
Net Income Before in Lieu of Tax	28,462,316	39,239,748	46,406,385	40,963,291	37,710,900
ILOT	22,568,235	23,708,786	25,051,002	24,679,711	24,056,012
Net Income	\$ 5,894,081	\$ 15,530,962	\$ 21,355,383	\$ 16,283,580	\$ 13,654,889

Source: LUS Financial and Operating Statements

3.10.4 Cash Flow Statement

The LUS historical cash flows are presented in Table 3-11. LUS, like many other municipals, is primarily focused on net cash flows and cash balances and traditionally set rates based on meeting cash targets including, but not limited to, debt service coverage. Except for FY 2020, LUS has realized a steady increase in its change in cash due to operations and ILOT. The lower change in cash due to operations in FY 2020 is attributed to the same factors discussed in the net income statement section of this Report.

Table 3-11: LUS Historical Cash Flows

	2017	2018	2019	2020	2021	Fi	ive-Year Total
Operating Revenues	\$ 224,652,384	\$ 232,203,121	\$ 228,678,339	\$ 216,381,978	\$ 232,504,512	\$ ′	1,134,420,333
Operating Expenses	165,998,482	164,165,246	152,839,402	143,498,541	162,712,354		789,214,024
Net Operating Revenues	\$ 58,653,902	\$ 68,037,875	\$ 75,838,938	\$ 72,883,437	\$ 69,792,158	\$	345,206,310
Debt Service	21,341,835	21,427,905	22,732,925	25,374,000	25,095,600		115,972,265
Balance After Debt Service	\$ 37,312,067	\$ 46,609,970	\$ 53,106,013	\$ 47,509,437	\$ 44,696,558	\$	229,234,045
Less Normal Capital & Special Equipment	4,890,913	5,032,337	6,979,931	11,144,716	11,994,962		40,042,859
Less ILOT	22,568,235	23,708,786	25,051,002	24,679,711	24,056,012		120,063,746
Change in Cash due to Operations and ILOT	\$ 9,852,919	\$ 17,868,847	\$ 21,075,080	\$ 11,685,010	\$ 8,645,584	\$	69,127,440

Source: LUS Financial and Operating Statements

4.0 ELECTRIC UTILITY SYSTEM

4.1 Electric Utility Summary

The City owns and operates an Electric System providing reliable power to approximately 70,000 retail customers. LUS operates power generation, transmission, substation, distribution, and customer facilities within and outside its service territory. Table 4-1 presents the historical Electric System retail sales, wholesale sales, and wholesale purchases over the last five years.

Table 4-1: Electric System Historical Retail and Wholesale Sales

Year	Retail Sales (MWh)	Wholesale Sales (MWh)	MISO Market Sales (MWh)	MISO Market Purchases (MWh)
2017	1,980,653	0	898,205	2,042,686
2018	2,031,847	0	1,153,292	2,108,460
2019	2,004,310	0	1,132,482	2,036,411
2020	1,917,040	0	736,830	1,987,674
2021	1,959,364	0	1,088,904	2,009,920

Source: LUS Financial and Operating Statements

LUS has been a full market participant as a Local Balancing Authority and Transmission Owner within the Midcontinent Independent System Operator, Inc. ("MISO") since 2013. Participation in the MISO market requires a buy-all/sell-all type of transaction for energy. LUS purchases all its energy requirements to serve its load from the MISO market. Correspondingly, MISO dispatches the LUS generation units, and all the generation is sold into the MISO market. The MISO Market Purchases represent purchases from the MISO market to serve LUS retail load. As presented in Table 4-2, retail sales by class as of October 31, 2021, indicate that residential and commercial customers represent approximately 90 percent of Electric System sales. The LUS commercial customer base is diverse, with no single customer representing more than 2 percent of LUS electric retail revenues.

Table 4-2: Electric System Customer Class Statistics as of October 31, 2021

	Number of			
	Customers	Percent of Total	Sales (kWh)	Percent of Total
Residential	57,112	81.5%	832,259,354	42.5%
Residential - Outside the City	997	1.4%	16,560,325	0.8%
Commercial without Demand-Small	8,113	11.6%	187,616,822	9.6%
Commercial Small and Large - Outside the City	176	0.3%	14,481,228	0.7%
Commercial with Demand - Large	1,232	1.8%	725,242,614	37.0%
Private Security Lighting	1,740	2.5%	6,808,037	0.3%
Street Lighting	2	0.0%	19,764,698	1.0%
Schools and Churches	433	0.6%	55,354,734	2.8%
Municipal-General Fund	4	0.0%	371,871	0.0%
University of Louisiana - Lafayette	103	0.1%	65,233,638	3.3%
Interdepartmental	184	0.3%	35,670,616	1.8%
Total	70,096	100.0%	1,959,363,937	100.0%

Source: LUS Financial and Operating Statements

4.2 Power Supply Summary

LUS provides energy and capacity to its customers through owned resources and power supply contracts. The total peak demand for LUS was approximately 456 megawatts ("MW") in 2021 and is expected to grow to 500 MW by 2036 based on load forecasts conducted within a recent integrated resource plan ("IRP"). LUS is forecasted to experience long-term load growth around two tenths of a percent, which is consistent with other utilities' load forecasts in the region. LUS owns and operates two power generation facilities in Lafayette: T.J. Labbe and Hargis-Hebert. Both facilities have two natural gas-fired combustion turbines to provide capacity and energy. These four natural gas-fired combustion turbines are interconnected to the transmission system within the City of Lafayette. In addition to the power plants which LUS owns, LUS also has several power purchase agreements in place to provide capacity and energy to meet its load. Through the LPPA, Lafayette owns 50 percent of Rodemacher Unit 2, which is a coal-fired unit with a capacity of approximately 500MW located near Boyce, Louisiana. Rodemacher Unit 2 is operated by Cleco Corporate Holdings, LLC as part of the Brame Energy Center. Table 4-3 presents the approximate installed capacity ("ICAP") for the power supply resources owned by LUS.

Table 4-3: LUS Power Supply Resources (Net Capacity)

LUS Power Plants									
Unit	Fuel	Installed Capacity (ICAP, MW)							
Hargis-Hebert 1	Natural Gas	47							
Hargis-Hebert 2	Natural Gas	47							
TJ Labbe 1	Natural Gas	48							
TJ Labbe 2	Natural Gas	47							
LUS Power Purchase	Agreements								
Unit	Fuel	Installed Capacity (ICAP, MW)							
Lafayette Public Power Authority (LPPA) Rodemacher Unit 2	Coal	246							
Southwest Power Administration	Hydro	18							
NRG	Capacity only	68							

As illustrated by the list above, LUS has a diverse power supply portfolio consisting of coal, natural gas, and hydroelectric resources. The Southwest Power Administration contract consists of hydroelectric resources and is expected to operate until 2033.

Within the recent IRP conducted in 2019-2020, the long-term operation of Rodemacher Unit 2 was specifically evaluated due to the ongoing environmental regulations which impact coal-fired units, as well as the associated economics. Within the IRP evaluation, long-term operation of Rodemacher Unit 2 utilizing coal as a fuel was higher cost compared to other power supply alternatives. As such, LUS has expressed a desire to potentially retire Rodemacher Unit 2 from coal-fired operation at the end of 2027. However, Rodemacher Unit 2 is co-owned between multiple utilities. No firm retirement date has been set by the co-owners. If the co-owners elect to retire Rodemacher Unit 2, LUS will need to replace the capacity and energy from Rodemacher Unit 2 when retired with new power supply resources. LUS has already started evaluating alternatives in anticipation of replacing Rodemacher Unit 2.

In addition to the plants above, LUS has two retired power plant facilities consisting of the Louis "Doc" Bonin Generation Station ("Bonin") (the site of the LUS operations center) and the Curtis Rodemacher Generation Station. Both plants were retired as they became economically obsolete. The Bonin facility was retired in 2017 and has gone through various decommissioning and demolition efforts. The Bonin facility had four fuel oil tanks located on-site that have been demolished, removed, and remediated. LUS has removed the cooling towers, specifically the cooling tower for Unit 3 to provide additional space for electrical switchyard/substation expansions. The remediation and demolition have been completed for some of the cooling tower equipment. The only structures that remain are the concrete basins which are at, or below, grade in addition to the underground supply and return piping and the associated pumps, motors, and motor control centers that are to be removed in future phases of the demolition project.

The Curtis Rodemacher facility is a retired natural gas-fired steam plant. The plant was retired in 1993 from power generation. The facility was retired-in-place and LUS continues to monitor the facility and address issues as they arise associated with lead-based paint, asbestos, and other maintenance requirements. The Rodemacher facility is adjacent to the Pinhook substation. LUS continues to evaluate potential opportunities for repurposing the facility for LUS uses.

4.2.1 MISO Wholesale Market

The power grid, consisting of power generation and transmission lines, is operated by independent system operators across many areas of the country. Within the central part of the country, MISO is the system operator. MISO is charged with the reliable operation of the grid. MISO initiated its integrated marketplace on April 1, 2005. On December 18, 2013, LUS officially joined MISO, along with several other utilities which formed the MISO South region and was integrated into MISO's transmission system. MISO is separated into three areas: North, Central, and South. LUS operates in the MISO South region.

The MISO market is made up of numerous utilities operating in 15 states and the Canadian province of Manitoba as illustrated in Figure 4-1.

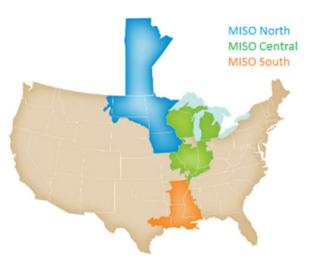


Figure 4-1: MISO Market Area

MISO has a wide range of capacity and energy resources including fossil fuel, renewable, and nuclear generation. The capacity and energy mix of resources within MISO for 2021 is presented in Figure 4-2.

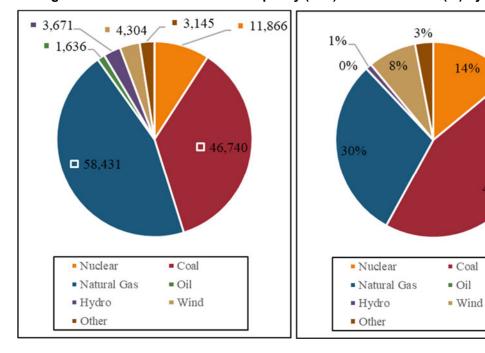


Figure 4-2: MISO 2021 Summer Capacity (MW) and Generation (%) by Fuel Type

MISO South is more heavily based on natural gas resources compared to the other two MISO regions, which rely more heavily on coal-fired resources. MISO North has the most extensive wind generation within the MISO footprint.

Utilities typically acquire all their energy from the market and sell energy from their resources into the market when it is accepted for dispatch, rather than self-scheduling resources. LUS has retained The Energy Authority ("TEA") as its power and fuel marketer. TEA is registered as the market participant for LUS. TEA has the responsibility to assist LUS in developing a strategy for procuring and selling energy within the MISO market.

To provide sufficient capacity near load centers, MISO is divided into nine Local Resource Zones ("LRZ"), as presented in Figure 4-3 below. A utility must obtain enough capacity within its LRZ to meet MISO's requirements. LUS is in LRZ 9.



Figure 4-3: MISO Load Resource Zones¹

Recently, wholesale energy prices have increased since 2020 due to high natural gas prices in early 2021. Significant addition of wind resources (MISO had 20.5 GW of wind installed as of June 30, 2019)² have helped to keep prices low throughout the rest of the year. The MISO market load costs rebounded in 2021 from its 2020 lows and experienced some abnormally high energy prices in February 2021 as a result of Winter Storm Yuri and sustained high summer gas prices. As discussed above, LUS dispatches its power

¹ MISO, 2020/2021 Planning Resource Auction (PRA) Results, April 2020, https://cdn misoenergy.org/2020-2021%20PRA%20Results442333.pdf

² MISO, *Planning Year 2020-2021 Wind & Solar Capacity Credit*, December 2019, https://cdn.misoenergy.org/2020%20Wind%20&%20Solar%20Capacity%20Credit%20Report408144.pdf

generating facility into the MISO market. Table 4-4 presents the historical electric generation for each plant.

2017 2018 2020 2021 T.J. Labbe 21,691 16,738 17,974 13,755 17,976 Hargis Hebert 22.972 22.928 22.934 21,807 31,081 Rodemacher Unit 2 825,089 1,062,984 1,045,878 656,054 994,006 **Total Generation** 864,799 1,103,886 1,082,567 695,837 1,046,778

Table 4-4: Electric Generation by Plant (MWh)

4.2.2 T.J. Labbe Plant

4.2.2.1 Plant Description

The T.J. Labbé Plant began commercial operation in 2005 and consists of two General Electric ("GE") simple cycle LM6000 PC aeroderivative combustion turbines. The turbines each have a nominal net output of 48 MW each. The turbines utilize GE's Spray Intercooling ("SPRINT") system. The SPRINT system works by spraying atomized water directly into the air stream in the compressor stages to cool the air and increase the mass flow through the turbine, thereby increasing the electrical output of the generator. The combustion turbines also utilize water injection to control nitrous oxides ("NO_x") emissions.

The combustion turbines use natural gas as the fuel source, which is supplied by the TransCanada interconnect pipeline. T.J. Labbé has three 50 percent gas compressors on site, but they are not used as gas supply pressure to the site is sufficient to run the combustion turbines without compression.

To improve combustion turbine performance during warmer weather conditions, each unit is also equipped with an inlet chiller system. A Turbine Air Systems ("TAS") chiller system provides chilled water to coils in the inlet filter house to cool inlet air entering the turbine, thereby increasing the mass flow through the turbine, and increasing power output. The chiller can cool the inlet air down to 48°F for optimum performance up to an ambient temperature of 90°F.

The exhaust stacks are equipped with continuous emission monitoring system ("CEMS") to ensure that the turbines comply with emissions limits.

The facility is equipped with a 600-kW emergency generator that provides black start capability.

4.2.2.2 Performance and Statistics

The LM6000 is a proven machine with years of operating experience. The first LM6000 turbine was installed in 1992 and the 1,200 units installed world-wide have logged over 39 million operating hours. The LM6000 PC can start and reach based load within 10 minutes. The turbines also have the capability of ramping at 50 MW/min. The flexible operating profile makes these combustion turbines ideal units to service peak demand loads. Table 4-5 and Table 4-6 present the historical operating statistics for the last five years for T.J. Labbé.

Generation Statistics 2017 2018 2019 5-year 2020 2021 Average 10,623 Gross Generation (MWh) 10,648 12,084 8,848 12,159 9,377 Net Generation (MWh) 9,998 11,494 8,128 8,779 9,995 11,574 Average Heat Rate (Btu/kWH) 10,702 12,979 12,404 11,353 13,425 13,563 (Note 1) Unit Capacity Factor (%) 2.4% 2.6% 2.2% 2.4% 4.2% 2.7% Unit Service Factor (%) 5.5% 5.6% 4.5% 4.7% 5.1% 5.1% **Unit Starts** 51 73 52 63 69 62 91.4% Availability Factor (%) 95.2% 87.1% 92.6% 93.9% 92.0% Forced Outage Rate (%) 1.2% 1.5% 0.0% 0.2% 0.0% 0.6%

Table 4-5: Unit 1 Historical Operating Statistics

Note 1: Average Heat Rate is for the entire T.J. Labbé plant and not specific to Unit 1.

Generation Statistics	. 5					
	2017	2018	2019	2020	2021	5-year Average
Gross Generation (MWh)	8,228	8,143	8,586	9,634	12,242	9,366
Net Generation (MWh)	6,741	6,749	7,079	8,082	10,806	7,891
Average Heat Rate (Btu/kWH) (Note 1)	11,353	10,702	13,425	13,563	12,979	12,404
Unit Capacity Factor (%)	1.6%	1.9%	2.2%	2.3%	4.6%	2.5%
Unit Service Factor (%)	4.6%	5.0%	4.3%	4.8%	5.5%	4.8%
Unit Starts	54	45	72	70	70	62
Availability Factor (%)	83.8%	59.9%	93.2%	97.6%	95.4%	86.0%
Forced Outage Rate (%)	71.6%	86.8%	0.0%	0.0%	1.0%	31.9%

Table 4-6: Unit 2 Historical Operating Statistics

Note 1: Average Heat Rate is for the entire T.J. Labbé plant and not specific to Unit 2.

The historical performance data from T.J. Labbé are in line with typical industry benchmarks for similar type units. Overall, the reliability and availability of the units is considered very good. During FY 2021 the plant operated slightly more than previous years. T.J. Labbe performed very well during the February winter storm and proved to be financially beneficial and reliable for LUS' power costs.

4.2.2.3 Recent and Planned Upgrades and Maintenance

LUS has chosen to perform the major maintenance inspections more frequently than the original recommendation by GE due to feedback from other LM6000 owners in the industry. Plant personnel indicated that the combustion turbines undergo a borescope inspection twice a year, once in Spring and once in Fall. It is also documented that units will receive a borescope inspection if there is a trip where the cause is not readily known. Hot section exchanges ("HSE") are scheduled every 15,000 hours instead of the original recommendation of 25,000 hours. The major overhauls are scheduled every 30,000 hours instead of the original recommendation of 50,000 hours. Variable stator vane ("VSV") bushings are changed every 10,000 hours instead of the original recommendation of 12,500 hours. High pressure combustion ("HPC") stage 1 blades are changed every 15,000 hours and the HPC stage 3-5 blades are changed every 1,000 starts. Although the more frequent major maintenance activities result in a higher O&M cost for the facilities, the low number of operating hours per year for each of the units means that each unit has only undergone one HSE to date and no major overhauls have been completed.

LUS has also continued to perform regular maintenance on the balance of plant equipment at T.J. Labbé. This includes upgrades to the chiller system such as motor overhauls (completed one chiller motor overhaul in 2020 and plan to complete one per year) and modifications to chiller coils to improve the ability to quickly drain and refill to prevent coil leaks due to freezing. LUS has focused on painting various equipment and structures to prevent corrosion. Additional recent and planned projects at the plant include replacement of the Unit 1 expansion joint, painting the clean room in the turbine buildings, putting in new office spaces, and adding insulation and heat tracing throughout the plant for freeze projection. LUS has budgeted controls upgrade for the plant in FY 2023.

4.2.2.3.1 T.J. Labbé Unit 1

In 2021, the Unit 1 combustion turbine underwent a borescope inspection in the Spring and in the Fall. The Spring and Fall borescope inspections were conducted by GE. At the time of the Spring inspection, Unit 1 had experienced 1,018 fired starts and 21,199 fired hours. At the time of the Fall inspection, Unit 1 had experienced 1,121 fired starts and 21,485 fired hours. During each borescope inspection, the

inlet/compressor, combustion, turbine, and exhaust sections were evaluated. All sections were considered serviceable, and no major concerns were noted.

The Unit 1 combustion turbine received a hot section exchange inspection in 2013. At the time of the inspection, the unit had experienced 17,520 fired hours and 548 fired starts. During the inspection, the HPT rotor assembly, and the stage 1 and 2 nozzle assemblies were replaced. The combustor has no visual defects detected. The combustor for Unit 1 was previously replaced in 2011 when the unit was at 16,784 fired hours and 477 fired starts.

The unit has not yet received a major overhaul given its limited operating hours. The first major overhaul is planned for 30,000 hours.

4.2.2.3.2 T.J. Labbé Unit 2

In 2021, the Unit 2 combustion turbine underwent a borescope inspection in the Spring and in the Fall. The Spring borescope inspection was conducted by TransCanada Turbines and the Fall borescope inspection was conducted by TransCanada Turbines. At the time of the Spring inspection, Unit 2 had experienced 1,097 fired starts and 14,758 fired hours. At the time of the Fall inspection, Unit 2 had experienced 1,190 fired starts and 15,030 fired hours. During each borescope inspection, the inlet/compressor, combustion, turbine, and exhaust sections were evaluated. All sections were considered serviceable, and no major concerns were noted.

Unit 2 combustion turbine also received a hot section exchange inspection in 2015. At the time of the inspection, the unit had experienced 12,475 fired hours and 729 fired starts. During the inspection, the engine was shipped to Houston to receive a hot section replacement. The combustion chamber, the HPT rotor, and the stage 1 and 2 nozzle assemblies were also replaced. A new VBV expansion joint was installed.

The turbine was sent to a GE facility to undergo improvements to the air oil seals in Spring 2017. The unit has not yet received a major overhaul given its limited operating hours. The first major overhaul is planned for 30,000 hours.

4.2.2.4 Fuel Supply

Natural gas is delivered to T.J. Labbé at pressures in the range of 675 psig plus or minus 20 psig. As such, the three 50 percent natural gas compressors at Labbe are not needed and have been permanently bypassed and decommissioned in Spring 2017. The natural gas is delivered through a fuel gas strainer, gas flow meter, a primary and secondary shut off valve, a fuel gas manifold, and goes to the fuel nozzles.

Natural gas from the TransCanada pipeline is procured on behalf of LUS by The Energy Authority (TEA) who also bids the units in as MISO market participants. The quantity and price of gas is determined daily based on day-ahead nominations. T.J. Labbé does not have firm gas supply.

4.2.2.5 Water Supply

Water treatment at each site consists of chemical treatment, granular activated carbon ("GAC") prefiltration, cartridge filtration, reverse osmosis, and mixed bed demineralizer systems. The water treatment system is used to meet the facilities' 143 gpm makeup water requirement for lost system water due to chiller cooling towers, water injection for NO_x control, and for the SPRINT system.

City water supply is delivered under pressure to the inlet of the pre-filtration skid. Prior to entering the filtration system, the feed water supply is dosed with sodium meta bi-sulfite to remove chlorine. The GAC filter removes organic matter and any residual chlorine from the feed water supply prior to its use in the reverse osmosis system. The reverse osmosis system removes most of the dissolved solids from the feed water by using a high-pressure pump to force water through a membrane that removes contaminants. Each reverse osmosis train consists of two passes. The second pass outlet is tied to a mixed bed demineralizer which removes the remaining dissolved solids and silica from the feed water. The demineralized ("demin") water is stored in a 180,000-gallon storage tank at each site. Each site contracts with a third party to regenerate the mixed bed and carbon filters.

Additionally, T.J. Labbé has wastewater discharge restrictions, so there is a wastewater storage tank on site that manages the discharge.

4.2.2.6 Plant Transmission Delivery

Power at T.J. Labbé is generated by two 72 megavolt amperes ("MVA"), 13.8 kilovolts ("kV") turbine generators. Each generator sends electricity to a generator step-up ("GSU") transformer via cable bus systems. The GSUs at T.J. Labbé step the 13.8 kV power up to 230 kV. Each of the turbine generators also send electrical power to auxiliary transformers that drop the voltage down to 4.16 kV. The 4.16 kV from the auxiliary transformers is sent to the medium voltage ("MV") switchgear where it is relayed to the station service transformers and the chiller system. The station service transformers further step down the voltage from 4.16 kV to 480 V for station auxiliaries such as fans, pumps, and motors.

4.2.2.7 Plant Staffing and Operations

The facility is staffed 24 hours per day, 7 days a week, but can also be started and monitored remotely at the Hargis-Hébert facility.

4.2.2.8 Environmental Permits and Compliance

The Labbé plant holds current air permits for Title V and Acid Rain, as shown in Table 4-7. The Acid Rain permit requires quarterly reports on emissions of NO_x, sulfur dioxide ("SO₂"), and carbon dioxide ("CO₂"). NO_x from the turbines is measured by CEMS with annual CEMS Relative Accuracy Testing Audit ("RATA") testing. The turbines are classified as "gas-fired" under Acid Rain since fuel oil combustion is less than 10 percent of the annual capacity. However, the turbines may exceed this 10 percent threshold and become classified as "oil-fired." Additional monitoring would be required as "oil-fired" units. However, the units do not currently have the ability to operate using fuel oil.

The Title V permit includes limits that make the facility a minor source for the Prevention of Significant Deterioration ("PSD") program by limiting emissions of CO and NO_x. The facility is a minor source of HAPs. The two turbines can burn natural gas, and the one black start generator burns fuel oil. The permit allows the facility to operate as a peaking plant, meaning that while actual emissions are low, the permit allows for significant operation as needed as long as the ton per year limits are not exceeded (239.11 tpy CO and 241.37 tpy NO_x). Actual emissions for 2021 were less than 13 tons NO_x. The Title V permit allows fuel oil operation even though the turbines are not capable of burning fuel oil without a physical modification.

As presented in Table 4-8, Labbé holds sufficient allowances for its 2021 emissions under the Cross State Air Pollution Rule ("CSAPR") for the May to September ozone season. A separate CSAPR permit is not required. Excess allowances from Bonin were transferred to Labbé.

No excess emission events occurred in 2021 and no Notice of Violations ("NOVs") were issued. All required quarterly, semi-annual, and annual reports were submitted. Deviations were reported for data availability occurred several times in 2021.

Renewal Application Permit Description Permit Number Issue Date **Expiration Date** Deadline Title V Operating August 23, 2018 February 23, 2023 1520-00128-V4 August 23, 2023 Permit 1520-00128-IV3 February 23, 2023 August 23, 2018 August 23, 2023 Acid Rain Permit

Table 4-7: T. J. Labbé Air Permits

Source: LUS

Table 4-8: T. J. Labbé Emission Allowances

NO _x Allowances Held (tons)	2021 Ozone Season NO _x Emissions (tons)	SO ₂ Allowances Held
75	5	1114

Source: LUS

4.2.3 Hargis-Hebert Plant

4.2.3.1 Plant Description

Hargis-Hébert began commercial operation in 2006 and is nearly identical to T.J. Labbé. Hargis-Hebert consists of two GE simple cycle LM6000 PC aeroderivative combustion turbines. The turbines each have a nominal net output of 48 MW each. The turbines utilize GE's SPRINT system for increased power output and water injection to control NO_x emissions.

The combustion turbines use natural gas as the fuel source, which is supplied by the Gulf South pipeline. Gas supply pressure to the site is sufficient to run the combustion turbines without compression.

To improve combustion turbine performance during warmer weather conditions, each unit is also equipped with an inlet chiller system. A TAS chiller system is capable of cooling the inlet air down to 48°F for optimum performance up to an ambient temperature of 90°F.

The exhaust stacks are equipped with CEMS to ensure that the turbines comply with emissions limits.

The facility is equipped with a 600-kW emergency generator that provides black start capability.

4.2.3.2 Performance and Statistics

Table 4-9 and Table 4-10 present the historical operating statistics for the last five years for Hargis-Hebert.

Table 4-9: Unit 1 Historical Operating Statistics

Generation Statistics	2017	2018	2019	2020	2021	5-year Average
Gross Generation (MWh)	12,882	12,613	14,088	12,876	17,772	14,046
Net Generation (MWh)	12,168	11,822	13,494	12,301	17,039	13,365
Average Heat Rate (Btu/kWH) (Note 1)	12,064	11,354	11,956	13,438	12,312	12,225
Unit Capacity Factor (%)	2.9%	3.0%	3.7%	3.2%	5.8%	3.7%
Unit Service Factor (%)	6.5%	7.8%	6.5%	5.9%	6.3%	6.6%
Unit Starts	63	51	91	63	89	72
Availability Factor (%)	83.7%	94.5%	90.7%	94.0%	93%	91.2%
Forced Outage Rate (%)	17.7%	1.8%	0.3%	0.0%	0%	4.0%

Note 1: Average Heat Rate is for the entire Hargis-Hebert plant and not specific to Unit 1.

Table 4-10: Unit 2 Historical Operating Statistics

Generation Statistics	2017	2018	2019	2020	2021	5-year Average
Gross Generation (MWh)	12,318	12,429	12,571	9,008	15,619	12,389
Net Generation (MWh)	10,809	10,906	11,000	7,638	14,058	10,882
Average Heat Rate (Btu/kWH) (Note 1)	12,064	11,354	11,956	13,438	12,312	12,225
Unit Capacity Factor (%)	2.7%	2.9%	3.5%	2.4%	5.4%	3.4%
Unit Service Factor (%)	7.0%	7.6%	6.7%	4.6%	6.3%	6.2%
Unit Starts	59	50	88	55	89	69
Availability Factor (%)	94.2%	94.3%	87.6%	91.6%	93.2%	92.2%
Forced Outage Rate (%)	17.6%	0.0%	0.0%	0.0%	0%	3.5%

Note 1: Average Heat Rate is for the entire Hargis-Hebert plant and not specific to Unit 2.

The historical performance data from Hargis-Hebert are in line with anticipated values that Burns & McDonnell has observed in the industry. Overall, the reliability and availability of the units are

considered to be good. During FY 2021 the plant operated slightly more than previous years. The plant performed very well during the February winter storm and proved to be financially beneficial and reliable for LUS' power costs.

4.2.3.3 Recent and Planned Upgrades and Maintenance

LUS has chosen to perform the major maintenance inspections more frequently than recommended by GE due to feedback from other LM6000 owners in the industry. Inspection schedules are the same as for T.J. Labbé. Normal spring and fall borescopes were completed in FY 2021.

LUS has also continued to perform regular maintenance on the balance of plant equipment at Hargis-Hebert. This includes upgrades to the chiller system such as motor overhauls and modifications to chiller coils to improve the ability to quickly drain and refill to prevent coil leaks due to freezing. LUS has also focused on painting various equipment and structures to prevent corrosion.

Additional recent and planned projects at the plant include upgrades and minor repairs to the exhaust stack, corrosion mitigation, and adding insulation and heat tracing throughout the plant for freeze projection. LUS has budgeted controls upgrade for the plant in FY 2023.

4.2.3.3.1 Hargis-Hebert Unit 1

Unit 1 received borescope inspections in the spring and fall of FY 2021. In Fall of 2021, the Unit 1 combustion turbine underwent a borescope inspection conducted by TransCanada Turbines. At the time of the inspection, Unit 1 had experienced 1,365 fired starts and 18,780 fired hours. During the borescope inspection, the inlet/compressor, combustion, turbine, and exhaust sections were evaluated. All sections were considered serviceable, and no major concerns were noted.

The Unit 1 combustion turbine also received a hot section exchange inspection in 2013. At the time of the inspection, the unit had experienced 14,917 fired hours and 870 fired starts. During the inspection, the hot section was replaced except for the combustion chamber.

The unit has not yet received a major overhaul given its limited operating hours. The first major overhaul is planned for 30,000 hours.

4.2.3.3.2 Hargis-Hebert Unit 2

Unit 1 received borescope inspections in the spring and fall of FY 2021. In Fall of 2021, the Unit 2 combustion turbine underwent a borescope inspection conducted by TransCanada. At the time of the inspection, Unit 2 had experienced 1,370 fired starts and 19,398 fired hours. During the borescope

inspection, the inlet/compressor, combustion, turbine, and exhaust sections were evaluated. All sections were considered serviceable, and no major concerns were noted.

In 2012, Unit 2 received a hot section exchange performed by GE. At the time of the inspection, Unit 2 had experienced 14,680 operating hours and an unreported number of starts. The whole hot section was overhauled for the inspection. Repairs were made to the gaskets and oil pumps, and the unit was returned to good operating condition.

The unit has not yet received a major overhaul given its limited operating hours. The first major overhaul is planned for 30,000 hours.

4.2.3.4 Fuel Supply

Natural gas is delivered to Hargis-Hebert at pressures in the range of 675 psig plus or minus 20 psig. Hargis-Hebert does not have compressors, but the plant does have dew point heaters. The natural gas is delivered through a fuel gas strainer, gas flow meter, a primary and secondary shut off valve, a fuel gas manifold, and goes to the fuel nozzles.

Natural gas from the Gulf South pipeline is procured on behalf of LUS by TEA who also bids the units in as MISO market participants. The quantity and price of gas is determined daily based on day-ahead nominations. Hargis-Hebert does not have firm gas supply.

4.2.3.5 Plant Transmission Delivery

Power is generated by two 72 MVA, 13.8 kV turbine generators. Each generator sends electricity to a GSU transformer via cable bus systems. The GSUs at Hargis-Hebert step the 13.8 kV power up to 69 kV. Each of the turbine generators also send electrical power to auxiliary transformers that drop the voltage down to 4.16 kV. The 4.16 kV from the auxiliary transformers is sent to the MV switchgear where it is relayed to the station service transformers and the chiller system. The station service transformers further step down the voltage from 4.16 kV to 480 V for station auxiliaries such as fans, pumps, and motors.

4.2.3.6 Water Supply

Water treatment at each site consists of chemical treatment, GAC pre-filtration, cartridge filtration, reverse osmosis, and mixed bed demineralizer systems. The water treatment system is used to meet the facilities' 143 gpm makeup water requirement for lost system water due to cooling towers, water injection for NO_x control and for the SPRINT system.

At each site, the city water supply is delivered under pressure to the inlet of the pre-filtration skid. Prior to entering the filtration system, the feed water supply is dosed with sodium meta bisulfite to remove chlorine. The GAC filter removes organic matter and any residual chlorine from the feed water supply prior to its use in the reverse osmosis system. The reverse osmosis system removes most of the dissolved solids from the feed water by using a high-pressure pump to force water through a membrane that removes contaminants behind. Each reverse osmosis train consists of two passes. The second pass outlet is tied to a mixed bed demineralizer which removes the remaining dissolved solids and silica from the feed water. The demineralized water is stored in a 180,000-gallon storage tank. Each site contracts with a third party to regenerate the mixed bed and carbon filters. Due to low water pressures, the City has recently added a well near the Hargis-Hebert site that is untreated. The location of the well causes a higher percentage of untreated water to be supplied to Hargis-Hebert and the conductivity of the water is too high for the reverse osmosis system. Hargis-Hebert has recently installed carbon filters and Greensand filters to manage to conductivity.

4.2.3.7 Plant Staffing and Operations

The facility is staffed 24 hours per day, 7 days a week, but can also be started and monitored remotely at the T.J. Labbe facility

4.2.3.8 Environmental Permits

The Hargis-Hebert plant holds current air permits for Title V and Acid Rain, as shown in Table 4-11. The Acid Rain permit requires quarterly reports on emissions of NO_x, SO₂, and CO₂. NO_x from the turbines is measured by CEMS with annual CEMS RATA testing. The turbines are classified as "gas-fired" under Acid Rain since fuel oil combustion is less than 10 percent of the annual capacity. However, the turbines may exceed this 10 percent threshold and become classified as "oil-fired." Additional monitoring would be required as "oil-fired" units. However, the units do not currently have the ability to operate using fuel oil.

The Title V permit includes limits that make the facility a minor source for the PSD program by limiting emissions of CO and NO_x. The facility is a minor source of HAPs. The two turbines can burn natural gas, and the one black start generator burns fuel oil. The permit allows the facility to operate as a peaking plant, meaning that while actual emissions are low, the permit allows for significant operation as needed as long as the ton per year limits are not exceeded (239.11 tpy CO and 241.37 tpy NO_x). Actual emissions for 2021 were less than 14 tons NO_x. The Title V permit allows fuel oil operation even though the turbines are not capable of burning fuel oil without a physical modification.

As shown in Table 4-12, Hargis-Hebert holds sufficient allowances for its 2021 emissions under the CSAPR for the May to September ozone season. A separate CSAPR permit is not required. Excess allowances from Bonin were transferred to Hargis-Hebert.

No excess emission event or deviations occurred in 2021 and no NOVs were issued. All required quarterly, semi-annual, and annual reports were submitted or resubmitted with corrections as needed.

Table 4-11: Hargis-Hebert Air Permits

Permit Description	Permit Number	Issue Date	Expiration Date	Renewal Application Deadline
Title V Operating Permit	1520-00128-V4	August 17, 2018	August 17, 2023	February 17, 2023
Acid Rain Permit	1520-00131-IV3	August 17, 2018	August 17, 2023	February 17, 2023

Source: LUS

Table 4-12: Hargis-Hebert NO_x Emission Allocations

NO _x Allowances Held (tons)	2021 Ozone Season NO _x Emissions (tons)	SO ₂ Allowances Held
69	6	1,312

Source: LUS

4.2.4 Rodemacher Unit 2

4.2.4.1 Plant Description

Rodemacher Unit 2 is a coal-fired steam electric generating unit located at the Brame Energy Center in Lena, Louisiana with an output of approximately 523MW (gross). Rodemacher Unit 2 entered commercial operation in 1982 and is jointly owned by LPPA (50 percent), Cleco (30 percent), and LEPA (20 percent). LPPA's ownership share of Rodemacher Unit 2 is 261.5 MW of capacity and the related energy output. Rodemacher Unit 2 is operated by Cleco, but each owner dispatches their share of the total capacity. Each owner self-schedules Rodemacher Unit 2 at minimum load and then economically dispatches the remaining capacity into the MISO market. LPPA has a power sales contract with the City of Lafayette in which the City agrees to purchase all of LPPA's share of the capacity and energy produced by Rodemacher Unit 2.

The Joint Ownership Agreement defines the LPPA's authority regarding decision making and operation of Rodemacher Unit 2. Cleco is required to provide relevant information to the Joint Owners regarding finances, operations, and future decisions. The Joint Owners require more than 50 percent ownership

approval for any major changes regarding operations or finances. LPPA's 50 percent ownership stake provides the authority to reject major changes or request further analysis. This reduces the risk of the other owners could make changes that would adversely impact LPPA. The Joint Owners Agreement is effective through June 30, 2032.

Rodemacher Unit 2 generates electric power using a pulverized coal-fired, natural circulation, reheat boiler manufactured by Foster Wheeler. The boiler has a maximum continuous rating ("MCR") of 3,800,000 pounds per hour ("lb/hr") of steam at the superheater outlet pressure of 2,620 pounds per square inch gauge ("psig") and temperature of 1,005 degrees Fahrenheit ("°F"). The reheater is designed for an operating temperature of 1,005°F. The coal arrives on site via rail with rotary dump cars. Coal is prepared for the boiler by five roller wheel coal mills.

The boiler has a balanced draft furnace with combustion air being supplied by two 50-percent forced draft fans. The boiler was initially designed to burn various types of coal and natural gas, but primarily burns Powder River Basin ("PRB") coal and starts up on natural gas. Rodemacher Unit 2 has one motor driven startup boiler feed pump capable of allowing the unit to achieve approximately 330 MW and one 100 percent capacity turbine driven boiler feed pump capable of operating between minimum load and full load. Feedwater and condensate are heated to economizer inlet conditions utilizing four low pressure ("LP") feed water heaters ("FWHs"), a deaerator ("DA"), and two high pressure ("HP") feedwater heaters. Rodemacher Unit 2 also utilizes a GE steam turbine generator ("STG"), which is a four casing, single reheat, tandem compound, four flow condensing unit. The generators are rated at 496 MVA. Cooling water for the Unit is circulated through a two-shell single pass condenser. Cooling water for the steam turbine condenser and closed cooling water system is supplied by Lake Rodemacher. Lake Rodemacher is a man-made lake built specifically for Brame Energy Center.

For emissions controls, Rodemacher Unit 2 utilizes a selective non-catalytic reduction ("SNCR") system with urea injection for NO_x reduction and an electro-static precipitator ("ESP") for 99.5 percent removal of fly ash. Rodemacher Unit 2 also uses a dry sorbent injection system for acid gas control and added a fabric filter baghouse for additional particulate emissions controls to comply with EPA Mercury and Air Toxic Standards ("MATS") requirements.

4.2.4.2 Performance and Statistics

Table 4-13 summarizes the historical operating statistics for the last five years for Rodemacher Unit 2.

Generation 2019 2017 2018 2020 2021 5-year **Statistics** Average **Gross Generation** 1,987,052 2,555,929 2,532,781 1,614,522 2,480,497 2,234,156 (MWh) **Net Generation** 1,734,980 2,278,751 2,269,151 1,392,344 1,983,784 2,243,695 (MWh) Average Heat 11,524 11,385 11,085 12,284 11,461 11,548 Rate (Btu/kWH) **Unit Capacity** 32.1% 40.0% 52.7% 52.6% 26.0% 40.7% Factor (%) Availability Factor 75.6% 89.5% 90.1% 69.7% 80.2% 81.0% (%)Forced Outage 5.2% 9.5% 3.2% 2.4% 4.0% 5.1% Rate (%)

Table 4-13: Rodemacher Unit 2 Historical Operating Statistics

Source: LPPA Manager's Monthly Reports

Rodemacher Unit 2 has been a relatively reliable unit with average Forced Outage Rates over the last five years approximately five percent. In 2021, the forced outage rate was in line with previous years, but the capacity factor for the unit was lower. The reduction in capacity factor is partially due to lower market pricing in MISO which has been due to low natural gas prices. Union Pacific coal delivery delays and reductions in available emission allowances in September 2021 also contributed to lower dispatch.

4.2.4.3 Recent and Planned Upgrades and Maintenance

A major steam turbine inspection is scheduled every six years, which is in line with industry standards. Rodemacher Unit 2 underwent a major steam turbine overhaul in the fall of 2020. This included maintenance activities associated with the main turbine values, inspection of turbine components, and replacing a row of LP turbine blades. The total outage duration was 102 days.

Rodemacher Unit 2 has continued to monitor and maintain the boiler tubes and duct work. The last boiler chemical clean was in 2016. Tube samples are taken annually to determine when chemical cleaning is needed. The drum is inspected annually, and no major issues have been found.

The site is attempting to reduce or eliminate copper in the condensate and feedwater system which has caused copper deposition in the HP turbine. Feedwater heaters 3, 4, 6, and 7 have been replaced with stainless steel tubes and feedwater heaters 1 and 2 are still copper nickel alloy. There are plans to replace FWHs 1 and 2 in 2021.

The condenser is manually cleaned during each spring outage and is backwashed every other week.

No major maintenance activities are planned for the next few years.

4.2.4.4 Fuel Supply and Ash Handling

The Joint Owners purchase coal from Arch Coal Sales, Inc., Navajo Transitional Energy Company ("NTEC"), and Peabody COALSALES, LLC. In November 2021, the owners entered into another coal contract with Coal Network, LLC. The coal is sourced from the Powder River Basin in Wyoming. LPPA owns two unit-trains for rail transportation to the facility. The existing contracts allow the coal to either be rejected or allow for a price adjustment if the heat content is too low or the sulfur content is too high. The bottom ash and fly ash from Rodemacher Unit 2 is removed from site by truck and sold for beneficial reuse by Charrah, Inc. The Joint Owners have an agreement with Charrah through 2025.

4.2.4.5 Plant Transmission Delivery

Rodemacher Unit 2 sends electric power from the switch station via five transmission lines, all of which operate at 230kV. The transmission lines service Clarence, Leesville, Rapides, Sherwood, and St. Landry. LUS has had a firm transmission agreement for the plant since it was commissioned. LUS decided to terminate the firm transmission agreement with Cleco saving \$6 million to \$7 million per year. LUS provided notice over three years ago per the agreement's requirements. LUS will see an increase in network integrated transmission service ("NITS") cost but began to see a significant amount of savings from this change starting in August 2021 which has continued into FY 2022. The total annual net savings from this change will be between \$4 million to \$5 million per year.

4.2.4.6 Water Supply

Water is supplied from Lake Rodemacher. The water is pretreated with ultra-filtration ("UF") and then sent through a RO and a demineralizer. There are two 250,000-gallon aluminum tanks that hold the demineralized water. Hydrazine and phosphate are used to treat boiler water in the drum. The lake is self-contained and is not subject to Clean Water Act, Section 316(b) requirements.

4.2.4.7 Plant Staffing and Operations

Cleco provides maintenance and operations staffing for Rodemacher Unit 2. The unit is staffed 24 hours a day, 7 days a week.

4.2.4.8 Future Decommissioning and Conversion

Rodemacher Unit 2 would require significant modifications by 2027 to comply with CCR and ELG rules and continue to operate utilizing coal. Due to the cost associated with these modifications, the Joint Owners have decided that prior to the required compliance date, Rodemacher Unit 2 will stop utilizing coal in the future. The Joint Owners are still evaluating whether Rodemacher Unit 2 should be retired or converted to burn natural gas. Either alternative is expected to be a major expenditure, and LUS would be

responsible for 50 percent of the total cost. LUS is already planning to spend approximately \$12 million for pond closure cost over the next 5 years.

4.2.4.9 Environmental Permits and Compliance

4.2.4.9.1 EPA Clean Air Act Greenhouse Gas Regulation

On January 19, 2021, the United States Court of Appeals for the District of Columbia Circuit vacated the Trump Administration's Affordable Clean Energy ("ACE") Rule, which had in turn replaced the Clean Power Plan ("CPP") of the Obama Administration. The Biden Administration is expected to start fresh in implementing its own climate change agenda. No drafts have been proposed at this time.

4.2.4.9.2 New Source Performance Standards

New Source Performance Standards ("NSPS") for Greenhouse Gas Emissions for Electric Generating Units (40 CFR Subpart TTTT) does not apply to Rodemacher 2 since it did not commence construction after January 8, 2014.

4.2.4.9.3 Environmental Permits and Compliance

Table 4-14 summarizes the key environmental permits for Rodemacher Unit 2.

Renewal Regulatory Application Deadline Permit Description Permit Number Authority¹ **Expiration Date** 2360-00030-V4 February 20, August 20, **LDEQ** Title V Operating Permit 2024 2023 2360-00030-IV5 EPA February 20, August 20, Acid Rain Permit 2024 2023 LA0008036 LDEQ September 30. Submitted LPDES Permit² 2019 March 13, 2019 Solid Waste Standard Type I P-0005R1 LDEQ November 18. Must renew Permit (metal cleaning waste 2026 every 10 years. pond, bottom ash pond, and fly ash pond) Solid Waste Standard Type I P-0062R1 LDEQ November 18, Must review 2026 every 10 years. (coal sedimentation pond) LA-3719-L01 LDEQ May 31, 2023 30 calendar Radioactive Material License days prior to expiration N/A EPA Spill Prevention and Control -Last revised Plan review Spill Prevention, Control, and July 2021 must be Countermeasure ("SPC-SPCC") completed Plan every 5 years. Hazardous Waste Generator LAD071941611 **EPA** N/A N/A ("RCRA")3

Table 4-14: Rodemacher Unit 2 Key Permits

Source: LUS

4.2.4.9.4 National Ambient Air Quality Standards

The Clean Air Act requires EPA to set National Ambient Air Quality Standards ("NAAQS") for pollutants that are common in outdoor air, considered harmful to public health and the environment. Rapides Parish is currently designated as attainment for all criteria pollutants; however, the Parish to the south (Evangeline) is non-attainment for SO₂. EPA updates the NAAQS every five years. The PM_{2 5} NAAQS is the subject of current scientific inquiry, and a reduction of the standard is possible during the next review. A lowering of the PM_{2 5} NAAQS would create new non-attainment areas and could affect the operation of any coal-fired boiler.

¹ LDEQ = Louisiana Department of Environmental Quality, EPA = U.S. Environmental Protection Agency

² Facility operating under existing Louisiana Pollutant Discharge Elimination System (LPDES) permit (administratively continued)

³ RCRA = Resource Conservation and Recovery Act

4.2.4.9.5 Air Emissions and Opacity Limitations

Unit 2 operates utilizing coal, natural gas, and number 6 fuel oil to generate up to 523 MW (gross). Emissions are controlled by activated carbon injection, dry sorbent injection, fabric filter baghouse, and a selective non-catalytic reduction control device.

SO₂ and NO₂ emissions are covered in the Acid Rain permit. Emissions are lower than the limits, as presented in Table 4-15 and Table 4-16. The SO₂ limit was lowered to comply with the Regional Haze Rule State Implementation Plan. Emissions controls were added to comply with CSAPR and MATS. The SNCR has been installed and is used during the ozone season (May 1 to September 30). Rodemacher received 995 tons for the NO_x ozone season allocations in 2020. For 2021, 2022, and 2023 Rodemacher 2 will only receive 875 NO_x ozone season allocations. LUS will monitor the run hours during the ozone season to stay below the allocations issued to LPPA. LPPA should have approximately 283 allowances in the bank prior to distribution of 2021.

The final CSAPR changes were signed March 15, 2021, which encourage plants to increase use of NO_x controls by turning them on more often and/or using more reagent to achieve a lower NO_x rate when they are operating. Rodemacher 2 will likely need to increase use of the SNCR to decrease emissions.

No excess emission event occurred in 2021 and no NOVs were issued. All required quarterly, semiannual, and annual reports were submitted. No deviations were reported for 2021.

Table 4-15: LPPA Rodemacher Unit 2 SO₂ Emissions

Year	Annual Average (lb/MMBtu)	Permit Limit (lb/MMBtu)	Total Annual (tpy)	Annual Allocation (tpy)
2017	0.27	1.2	2,887	18,212
2018	0.33	1.2	4,726	18,212
2019	0.24	0.3	3,040	18,212
2020	0.24	0.3	1,649	18,212
2021	0.25	0.3	1,520	18,212

Source: LUS

Annual Average Permit Limit (lb/MMBtu) Total Annual (tpy) Ozone Season (tpy) Year (lb/MMBtu) 2017 0.15 0.46 1,581 674 2018 0.22 3.268 1.488 0.46 0.22 2019 0.46 2,706 1,033 2020 0.18 0.46 1,257 699 2021 0.21 659.39 0.46 1,180

Table 4-16: LPPA Rodemacher Unit 2 NO₂ Emissions

Source: LUS

4.2.4.9.6 Allocations

Brame Energy Center did not hold sufficient allowances for its emissions, as shown in Table 4-17, and therefore purchased 150 tons of NO_x allowances from Cleco.

Table 4-17: Rodemacher Unit 2 Emission Allocations (LUS Portion Only)

NO _x Allowances Held (tons)	2021 Ozone Season NO _x Emissions (tons)	SO ₂ Allocations (tons)	2021 SO ₂ Emissions (Tons)
496	659.39	7,586	1,520.43

Source: LUS

4.2.4.9.7 Cooling Water Supply and 316(b) Regulation

Cooling tower and boiler makeup water is pumped from a screened water intake structure at Lake Rodemacher. Rainfall and storm water runoff provides makeup to Lake Rodemacher for water lost to evaporation. As determined by LDEQ, Lake Rodemacher is not subject to Section 316(b) of the Clean Water Act because it was constructed to support power generation operations and is not considered "waters of the State."

4.2.4.9.8 Wastewater Discharge Permit

Louisiana Pollutant Discharge Elimination System ("LPDES") Permit No. LA0008036 authorizes the discharge of operational wastewaters and storm water from the Brame Energy Center to surface waters of the State. It also establishes monitoring, reporting, and recordkeeping requirements for wastewater and storm water discharges, including effluent limitations specific to wastewater types and outfall locations. Although the LPDES Permit expired on September 30, 2019, a timely renewal application was submitted on March 13, 2019, and the conditions of the expired permit are administratively continued until the effective date of a new permit, as governed by LAC 33:IX.2321. Cleco responded to information requests from LDEQ in March, May, and July 2021 to support development of the new draft LPDES Permit.

On June 29, 2021, LDEQ provided Cleco with a working draft of the proposed LPDES Permit for Cleco's technical review. Cleco's consultant, CK Associates, responded on July 8, 2021, stating that the preliminary draft permit has significant changes from the expired LPDES Permit that require revision, as detailed on the Worksheet for Technical Review provided by LDEQ. CK Associates further responded on July 14 and 19, 2021 with additional information to address opposition to proposed new pH monitoring at internal Outfalls 801 and 901, which were added to demonstrate compliance with EPA's Effluent Limitation Guidelines.

On July 22, 2021, Cleco submitted an addendum to the LPDES Permit renewal application, submitted on March 13, 2019, to update the long-term average total lead concentrations to be used in the water screening model. Cleco conducted three additional sampling and analysis events for total lead at Outfall 001, and the results were non-detect at the Minimum Quantification Level for total lead ($<2 \mu g/L$).

Based on review of the EPA ECHO and LDEQ online systems, Rodemacher 2 has no outstanding NOVs, or material compliance issues associated with the LPDES Permit. No effluent limit exceedances were recorded on 2021 Discharge Monitoring Reports.

4.2.4.9.9 Wastewater Effluent Limitation Guidelines

When a 2009 study found the effluent limitation guidelines ("ELGs"), established in 1982, to be ineffective to address metals and other pollutants discharged from steam electric power generating facilities, the EPA finalized new ELGs (40 CFR 423) on September 30, 2015, which focused on wastewater streams generated by coal-fired steam electric plants: flue gas desulfurization ("FGD"), fly ash, bottom ash, flue gas mercury control, and gasification of fuels including coal and petroleum coke. In September 2017, the compliance dates for FGD wastewater and bottom ash transport water ELGs were postponed for two years to allow EPA additional time to review and reconsider the rule for these two effluent streams. However, the November 1, 2018, compliance date for fly ash transport water and flue gas mercury control wastewater remained in effect. Cleco indicated that the ELGs for these two wastewater streams are met with existing plant equipment and procedures.

In November 2019, the EPA issued the 2019 Proposed Revision to the Steam Electric Effluent Guidelines for FGD wastewater and bottom ash transport water, which changed the technology basis for treatment of these effluent streams, revised the voluntary incentives program for FGD wastewater, and added subcategories for high-low facilities, low utilization boilers, and boilers retiring by 2028. The 2019 revision established a December 31, 2023, compliance deadline for bottom ash transport water and a December 31, 2025, compliance deadline for FGD wastewater. These proposed revisions were finalized

as the 2020 Steam Electric Reconsideration Rule, were published in the Federal Register on October 13, 2020, and became effective on December 14, 2020.

On January 8, 2021, Cleco submitted responses to LDEQ's request for additional information, including a copy of Rodemacher Unit 2's Notice of Planned Participation per 40 CFR 423.19(f). As communicated to LDEQ, Cleco plans to permanently cease coal-fired operation of Rodemacher Unit 2, the only unit at the facility that discharges bottom ash transport water, by the third quarter of 2027 in order to achieve complete closure of the associated CCR impoundments prior to the October 17, 2028, CCR Part A deadline. Therefore, the facility would be classified as an Electric Generating Unit ("EGU") Permanently Ceasing Coal Combustion ("PCCC") by December 31, 2028.

Upon review of the 2020 Steam Electric Reconsideration Rule and finding opportunities for improvement, the EPA initiated a supplemental rulemaking to strengthen certain discharge limits in the Steam Electric Power Generating category (40 CFR Part 423). The EPA intends to issue a proposed rule for public comment in fall 2022. The current regulations—both the 2015 and 2020 rules—will be implemented and enforced while this supplemental rulemaking is being developed.

As communicated by LDEQ, the final ELGs will be implemented in the renewed LPDES Permit.

4.2.4.9.10 Coal Combustion Residuals – EPA Compliance

On December 19, 2014, the EPA finalized the Coal Combustion Residuals ("CCR") Rule, and it was published in the Federal Register (40 CFR 257) on April 17, 2015, and became effective on October 14, 2015. Rodemacher Unit 2 has two surface impoundments (Fly Ash Pond and Bottom Ash Pond) subject to the CCR Rule. Because the final CCR Rule classifies coal ash as solid waste rather than hazardous waste, Rodemacher Unit 2 continues to market and sell most of its fly ash and bottom ash for beneficial use. Although the CCR Rule redefined beneficial use, it does not affect beneficial use applications that were initiated before October 2015.

The CCR Rule also establishes minimum criteria for CCR landfills, CCR surface impoundments, and all lateral expansions of CCR units, including location restrictions, liner design criteria, structural integrity requirements, operating criteria, groundwater monitoring and corrective action requirements, closure and post-closure care requirements, and recordkeeping and notification requirements. CCR surface impoundments that do not receive CCR after the effective date of the rule, but still contain water, are still subject to applicable regulatory requirements.

The final CCR Rule required the owner or operator of an existing CCR surface impoundment to document, no later than October 17, 2016, whether the impoundment was constructed to meet the liner requirements included in 40 CFR 257.71. To comply with this requirement, Cleco obtained certification from a qualified professional engineer (Providence Engineering and Environmental Group LLC) attesting that both the Fly Ash Pond and the Bottom Ash Pond meet the requirements of the final CCR Rule.

On December 2, 2020, Cleco notified LDEQ of its intent to comply with the site-specific alternative to initiation of closure due to permanent cessation of a coal-fired boiler by a certain date for the Bottom Ash Pond at the Brame Energy Center, pursuant to 40 CFR § 257.106(i)(18). In accordance with 40 CFR § 257.103(f)(2), Cleco submitted a demonstration seeking to qualify for these alternative closure requirements to the EPA on November 12, 2020. A revised demonstration was submitted to the EPA on November 25, 2020. The EPA made notification on January 11, 2022, that the demonstration met the completeness requirement and that it would continue evaluating the request for approval.

Additionally, a CCR Groundwater Monitoring Program, including a network of five upgradient and four downgradient monitoring wells, was established to verify the integrity of the pond liners, as required by 40 CFR 257.91 of the CCR Rule. The 2021 Annual Groundwater Monitoring Report was completed in January 2022, which indicates that no confirmed Statistically Significant Increases ("SSIs") were observed in downgradient/compliance wells.

Annual inspections of the Fly Ash Pond and Bottom Ash Pond were conducted in December 2021 by Providence Engineering and Environmental Group LLC. The Fly Ash Pond inspection found the reservoir to be in satisfactory condition, and no corrective actions were required. The Bottom Ash Pond inspection report states that the reservoir and slopes are in satisfactory condition, and no corrective actions were required. Annual inspections and maintenance will continue until pond closure is complete.

Additionally, Cleco submitted the following documents in 2021 to the EPA for the Bottom Ash Pond and Fly Ash Pond in accordance with the CCR Rule: Annual Fugitive Dust Report, Hazard Potential Assessment, Safety Factor Assessment, Structural Stability Assessment, and Inflow Design Flood Control Plan.

4.2.4.9.11 Coal Combustion Residuals – LDEQ Compliance

In conformance with the Louisiana Solid Waste Regulations (LAC 33:VII), Cleco developed a Closure Plan for both the Fly Ash Pond and Bottom Ash Pond (Type 1 Surface Impoundments), both dated October 2016. A Revised Closure Plan for the Fly Ash Pond was submitted to the LDEQ for review in September 2021. The revised plan includes an update to the final closure methodology for the Fly Ash

Pond to comply with the Federal CCR Rule. Cleco intends to complete the closure activities in 2024 and plans to convert the area to a non-CCR landfill as part of the existing landfill onsite. LDEQ performed a technical review of the Revised Closure Plan and provided comments on February 1, 2022, regarding items not considered in conformance with the applicable sections of LAC 33:VII.

On June 15, 2021, Cleco provided notice to LDEQ of the installation of a temporary ash storage and dewatering area. A concrete-lined temporary ash storage area was constructed in late 2021 near the northwest levee of the Bottom Ash Pond to temporarily store and handle fly ash, abrasives, sodium carbonate (tank bottoms), neutralized waste/fly ash, and spent activated carbon/Trona. These are materials that would normally have been sent to the Fly Ash Pond. The material stored in the temporary storage area are dry upon placement, and contact storm water is collected in an engineered sump, pumped to the Bottom Ash Pond, and eventually discharged in accordance with the LPDES Permit. The temporary storage area is only used during plant outages and is not designed to permanently dispose of any solid waste. Vacuum trucks can unload on this temporary storage pad, and when there is enough ash accumulated to justify a trip to the offsite landfill, or the precipitator maintenance activities are complete, the plant will load the material into a standard haul truck.

In accordance with Rodemacher's Solid Waste Standard Permit Type 1 (P-0005RI), Cleco is also required to submit semi-annual groundwater monitoring results for the Metal Cleaning Waste Pond, Bottom Ash Pond, and Fly Ash Pond. The Brame Energy Center is split into two groundwater monitoring systems: the "ash ponds" on the eastern side of the site and the "metal ponds" on the western side. Twenty-one groundwater monitoring wells are located adjacent to the solid waste permitted facilities. The results of the May 2021 sampling event were submitted in the First Half 2021 Groundwater Monitoring Report to the LDEQ in August 2021. The results of the October 2021 sampling event were submitted in the Second Half 2021 Groundwater Monitoring Report to the LDEQ in January 2022.

Additionally, LDEQ provided comments on Cleco's 2021 Groundwater Assessment Work Plan on September 21, 2021.

4.2.4.9.12 Oil Storage and Spill Prevention

The SPC-SPCC Plan for the Brame Energy Center was written in accordance with State and Federal regulations, including Title 33, Part IX Chapter 9 of the Louisiana Administrative Code (LAC 33:IX.Chapter 9) and 40 CFR 112. The State SPC regulation establishes requirements for contingency planning and implementation of operating procedures, and best management practices to prevent and control the discharge of pollutants resulting from spill events. The Federal SPCC regulation establishes

operating procedures, best management practices, equipment, and other requirements to prevent the discharge of oil from non-transportation-related onshore and offshore facilities. The combined SPC-SPCC Plan must be reviewed at least every five years and was most recently revised in July 2021. Brame Energy Center responded to 0 reportable oil spills and 14 non-reportable oil spills in 2021.

The Facility Response Plan ("FRP") regulation (40 CFR 112.20) applies to those facilities that may reasonably be expected to cause substantial harm to the environment by discharging oil. The FRP for the Brame Energy Center addresses 40 CFR 112.20.f.1.ii (i.e., those facilities whose total oil storage capacity is greater than or equal to 1 million gallons). LPPA has no ownership interest in, nor liability for, the fuel oil storage tanks on the Brame Energy Center site.

4.2.5 Retired Sites of Bonin and Rodemacher

The Bonin site is retired from electric generation and is the location of the LUS operations center. The Bonin plant still has the existing switchyard and gas transmission line to the site. LUS is considering using the Bonin site for future gas-fired generation; however, no final decisions have been made by LUS. Curtis Rodemacher was retired in June 2000 and ongoing site monitoring includes periodic inspections, with asbestos abatement and lead paint removal, as required.

4.2.5.1 Environmental Compliance

The Acid Rain and Title V permits for the Doc Bonin facility were withdrawn in February 2017. The facility had three EGUs. Unit 1 last operated on June 22, 2011, and was put into cold storage on June 1, 2013. Unit 2 last operated on July 5, 2013, and was put into cold storage on June 29, 2014; Unit 3 last operated on August 27, 2013, and was put into cold storage on June 29, 2014. CSAPR allowances were transferred to Labbé and Hargis-Hebert. In 2016, MISO agreed to the retirement of Bonin since Units 2 and 3 were not needed for reliability.

LUS submitted a Request for Termination of its LPDES Permit (No. LA0005711), which authorized the discharge of operational wastewaters and storm water from the Doc Bonin facility, on May 5, 2019. In response, LDEQ issued a letter on August 16, 2019, stating that the LPDES Permit had been allowed to expire, and the permit number was removed from the LDEQ system. Prior to LPDES Permit termination, LUS applied for permit authorization under LDEQ's Storm Water Multi-Sector General Permit ("MSGP") for continued coverage of storm water discharged from the Doc Bonin site. The MSGP (No. LAR05Q054) was authorized on April 24, 2019, and reissued on October 27, 2021.

The Doc Bonin site is no longer required to adhere to regulated materials storage and spill response requirements from the EPA and LDEQ, as fuel oil tanks and other regulated materials storage vessels have been removed from the site. Contaminated soil from historic fuel oil storage has also been removed.

On December 21, 2017, EPA published approval of the Louisiana State Implementation Plan for Regional Haze in the Federal Register. The effective date of the SIP was January 22, 2018. The Plan's requirements for Rodemacher II have been complied with by using existing equipment and participation in the Cross State Air Pollution Rule program. Since the deadline for compliance, Rodemacher II has been operating in compliance with the SIP which addressed the first planning period. In 2020, LDEQ began addressing writing a SIP for the second planning period which must be submitted to EPA for approval by July 31, 2021. LDEQ did not request information pertaining to Rodemacher II in its analysis to determine which sources should evaluate reasonable progress controls.

4.2.6 Hydroelectric Purchased Power

LUS has a power purchase agreement in place with the Southwestern Power Administration ("SWPA"). The power purchase agreement provides LUS with 22,320 MWh of energy supply from hydroelectric power generation. The power purchase agreement is through May 31, 2033. As one of four Power Marketing Administrations in the United States, Southwestern markets hydroelectric power in Arkansas, Kansas, Louisiana, Missouri, Oklahoma, and Texas from 24 U.S. Army Corps of Engineers multipurpose dams.³

4.2.7 Power Purchase Agreements

LUS had a power purchase agreement with Exelon Generation Company, LLC for energy. The contract expired on December 31, 2020. The contract was based on a purchase of 50MW each hour at a 100 percent load factor. LUS, through The Energy Authority, Inc. (the power marketer for LUS), had a contract with STX Services B.V. for the renewable energy credits associated with the Exelon Generation energy. It also expired on December 31, 2020. LUS is currently working on finalizing two solar PPAs and expects to have them executed in FY 2022.

4.2.8 Capacity Contracts

As a MISO participant, LUS is required to procure sufficient capacity to meet its load requirements. This capacity can be procured through owned resources or power purchase contracts. In order to meet its resource adequacy (i.e., capacity) requirements, LUS has been purchasing short-term capacity contracts.

³ https://www.swpa.gov/

Below provides a summary of LUS recent and current capacity contracts.

• NRG: June 2016 through May 2020 for approximately 40 MW

• TEA: June 2020 through May 2021 for 80MW

• NRG: June 2021 through May 2022 for 68MW

4.3 Transmission and Distribution

The LUS electric system consists of approximately 47 miles of transmission lines (69 kV and above), 1,028 miles of distribution lines (13.8 kV) and a few hundred miles of secondary and street light lines (600V and below). The transmission and distribution lines are connected by 15 substations which are further described in the following sections.

4.3.1 Transmission System Description

The transmission lines operate at three voltage classes: 230 kV, 138 kV, and 69 kV, on a variety of structure types and configurations, but most commonly steel or wood mono poles, with the former being the most common new construction practice. The 230 kV feeds the Pont Des Mouton, Mall, Flanders, Beadle, and Elks distribution substations. It also connects the generation at T.J. Labbe Plant and ties to Cleco (at Pont Des Mouton and T.J. Labbe Plant substations), and Entergy (at T.J. Labbe Plant substations). The 138 kV is limited to at or near Doc Bonin Plant and Flanders substations and serves primarily to create additional ties to Cleco, at Flanders substation, and Entergy, at Doc Bonin Plant substation. 69 kV is LUS's most common transmission voltage, as it serves the Warehouse, Luke, St George, Gilman, Peck, Guilbeau, Perard, Sewer, Pinhook, La Neuville, and Elks substations as well as the Hargis-Hebert Plant.

4.3.2 Substations Description

LUS's typical substation configuration includes a single bus, looped transmission configuration with provisions for up to two 69/13.8 kV or 230/13.8 kV transformers, each serving up to four 13.8 kV circuits, normally configured. Both the transmission system and distribution circuits are typically protected by breakers within each substation. All substations other than La Neuville have two transformers. The LUS system has a total of 86 distribution circuits as of October 31, 2021.

4.3.3 Distribution System Description

The 1,028 miles of distribution lines include approximately 481 miles of overhead and 547 miles of underground primary. The overhead distribution lines are typically constructed with single wood pole (creosote-treated, yellow pine) construction, 336 aluminum-conductor steel-reinforced cable ("ACSR") or

similar backbone conductor, and normally open ties to other, neighboring circuits. The underground distribution lines (primary and secondary) consist of jacketed cable in polyvinyl chloride ("PVC") conduit.

4.3.4 Inspections & Maintenance

LUS has several cyclical inspection programs, focused on specific types/categories of equipment, as a part of its proactive maintenance practices. Table 4-18 outlines key transmission, substation, and distribution inspection and maintenance programs and their associated cycle durations.

Asset Class	Program	Cycle (years)
	Pole inspections*	8
Tuananiasian	Breaker maintenance	5
Transmission	Tree trimming / vegetation management (69 kV)	1+
	Tree trimming / vegetation management (230 kV)	1
	General maintenance (transformers)	5
	Relay maintenance (microprocessor)	5
Substation	LTC maintenance (transformers)	3
	Relay maintenance (electromechanical)	2
	Oil testing / sampling (transformers)	1
	Pole inspections*	8
	Major underground equipment inspection	8
Distribution	Tree trimming / vegetation management	4
	Capacitor testing	1
	Cable partial discharge testing	as neede

Table 4-18: Maintenance and Inspection Programs

LUS's inspection and maintenance cycles are consistent with industry and regional best practices. Generally, maintenance work is performed by LUS crews, promoting system awareness and knowledge while new construction work is typically performed by contract crews. Much of the inspection work is executed by contractors as well, such as Osmose for pole inspections and Doble for transformer testing.

4.3.5 System Planning and Studies

LUS Staff perform annual planning assessments on both the transmission and distribution systems to assess system capacity, adequacy, and reliability.

4.3.5.1 Transmission Planning Studies

The transmission assessments are completed in accordance with applicable NERC standards such as NERC TPL-001-4 and in collaboration with MISO staff. The results of the 2019 NERC TPL-001-4 showed no performance criteria violations after existing mitigation plans for Planning Events P1 through P7 or for any Extreme Events. The study found that six LUS non-BES breakers did not have adequate

^{*}Includes grounding/ohm testing

interrupting capability and therefore needed replacement. The study also found that generation capacity at the retired Bonin site during a contingency can reduce loading on some nearby system elements. Overall, the LUS study results were consistent with MISO findings and continued compliance with NERC transmission planning ("TPL") standards.

4.3.5.2 Distribution Planning Studies & Practices

LUS utilizes a model export process from its Environmental Systems Research Institute ("ESRI") geographic information system ("GIS") to the Easton CYME Power Engineering Software to facilitate load flow, short circuit, and protection coordination studies on its distribution system. Its distribution planners regularly update these models with current system topology and load levels to test system adequacy, reliability and to scope system improvement projects. LUS performs a robust annual contingency analysis to verify the system capability to serve N-1 contingency scenarios of:

- Loss of a substation transformer
- Loss of a distribution feeder
- Loss of a distribution substation

In the event of these contingencies, the system must allow for operator or crew reconfiguration while maintaining equipment operating limits and power quality limits. This practice is well aligned with LUS expectations for system reliability, availability, and operability.

4.3.6 Maintenance & System Improvement Projects

In 2021, as a part of cyclical inspections and maintenance, LUS 1) replaced 93 transmission poles and distribution poles that failed Osmose inspections in 2020, 2) upgraded transformer and bus relaying at Sewer, Perard, and Guilbeau substations, 3) installed 69 kV SF6 breakers to replace oil breakers of the same voltage class, and 4) upgraded the RTU's at Guilbeau, Perard, and Gilman substations. Further, to improve operations, safety, and reliability, LUS completed the following projects in 2021:

- Constructed the new Feeder 7050 out of La Neuville to reduce the loading on Flanders 8551, LUS's highest loaded feeder, and added a recloser to the open point between the circuits.
- Moved the open point on Feeder 3052 to reduce the fault area.
- Reconductored 46,090 feet of copper overhead conductor (including the replacement of 64 poles).
- Developed automatic reconfiguration schemes for the worst performing circuits (scheduled for implementation in 2022).
- Identified and replaced 63 rotten poles (in addition to osmose replacements) and reconductored a related 9,045' of OH conductor.

LUS maintains little to no backlog of inspection and maintenance related replacements and prioritizes these projects as they occur.

4.3.7 Planned Maintenance & System Improvement Projects

The following projects are planned in the near term to serve new load, continue ongoing maintenance, or target worst performing feeders:

- Extension of Feeder 3553 and tie to Feeder 5055, while picking up a new development on University.
- Extension of Feeder 7051 to pick up new load.
- Extension and reconfiguration of Feeder 8556 and Feeder 7050 to relieve loading on Feeder 7050.
- Transformer relaying upgrades at the Mall substation.
- The continuation of feeder relaying upgrades.
- Replace aged wooden 230 kV structures from Flanders to Beatle with monopole steel structures.

4.3.8 Operations and Related Performance

The dispatch and operations groups were fully staffed in 2021, and up to date with required training for compliance with the NERC PER standards. LUS has certified internal staff facilitating NERC compliance and certification for the group.

4.3.8.1 OMS Upgrades

In 2021, LUS began upgrading its Outage Management System ("OMS"), by Open Systems International, Inc. ("OSI"). The previous systems were aging and restricting the responsiveness and coordination between the dispatch and operations groups. Cutover to the new system is scheduled for May 2022. The new OMS will increase the speed and efficiency of operations and dispatch functions, enable better reporting for management and stakeholder awareness, and result in an expanded and combined dispatch group.

4.3.9 Reliability

In FY 2021, LUS experienced one major storm event days. The major events days were as follows:

• February 16 – Ice Storm

Excluding the major event days, which is the prevailing industry practice for comparisons between utilities, the LUS system consistently outperforms regional and national averages for system reliability and availability, reflecting its established, intentional, and proactive maintenance, planning, and

construction practices. Table 4-19 details the annual reliability performance of the LUS system over the last five years, for each of the four major reporting categories (System Average Interruption Duration Index ("SAIDI"), System Average Interruption Frequency Index ("SAIFI"), Customer Average Interruption Duration Index ("CAIDI"), and Momentary Average Interruption Frequency Index ("MAIFI")). The table includes national and regional municipal utility averages for reference

Year	SAIDI	SAIFI	CAIDI	MAIFI
2017	34.2	0.59	58.4	0.91
2018	31.9	0.72	44.2	0.83
2019	39.7	0.74	53.6	0.57
2020	26.6	0.65	40.8	0.70
2021	21.2	0.66	32.4	0.29
National Median (1)	42.3	0.69	71.3	N/A
Regional Average (2)	93.6	1.17	62.9	N/A

Table 4-19: LUS Electric System Reliability Metrics

LUS has several initiatives that support a continued focus on system reliability. Related to the upgrades described in Section 4.3.8.1, System Operations has plans to further utilize its Outage Monitoring System ("OMS") and enable its operators by allowing manual operator control of feeder reclosers for contingency switching. Longer term these operations will be automatically executed quickly and without operator intervention. These advances and continued expansion of communicating faulted circuit indicators ("FCI") and capacitor banks will enable near-term Advanced Distribution Management System ("ADMS") capabilities. LUS annually targets the top five worst performing feeders for detailed analysis and investment to improve reliability.

4.3.10 System Security

A detailed evaluation of the Utilities System security measures is beyond the intent of this Report. However, LUS facilities have physical security in place such as fencing, automatic gates, security checkpoints, keypads, etc. LUS security practices include employee and contractor background checks, routine training, and standard entry procedures for all electric facilities. There were no modifications to the physical security systems in 2021.

4.4 Historical Capital Improvement Program

LUS uses a capital work order system to track capital expenses. The historical capital presented in Table 4-20 reflects investment in infrastructure funded by the Series 2019 Bonds and retained earnings. The Series 2019 Bonds are available to support various capital projects including fuel supply improvements,

^{1.} Averages for 2018 triennial, American Public Power Association "Evaluation of Data Submitted in APPA's 2018 Distribution System Reliability and Operations Survey", Michael Hyland Alex Hofmann, Tyler Doyle and Ji Yoon Lee, July 2019.

2. APPA Region 4 (OK, AR, TX, LA) results for 2018 survey, American Public Power Association "Evaluation of Data Submitted in APPA's 2018 Distribution System Reliability and Operations Survey".

chiller coil replacement, breaker replacements, substation improvements, switchyard improvements, and street lighting upgrade.

Table 4-20: Electric System Historical CIP

	2017	2018	2019	2020	2021
Normal Capital & Special Equipment	\$1,565,194	\$2,136,589	\$3,468,467	\$7,142,480	\$7,425,039
Series 2019 Bonds	0	0	241,628	3,123,162	3,904,433
Retained Earnings	2,499,043	5,752,782	4,331,810	4,026,770	4,234,336
Total Electric Capital	\$4,064,237	\$7,889,370	\$8,041,906	\$14,292,412	\$15,563,809

Source: LUS Financial and Operating Statements and Utilities Status of Work Orders Report

4.5 Regulatory Compliance

NERC is a regulatory authority whose mission is to assure the reliability and security of the bulk power system in North America. NERC develops and enforces reliability and security standards including the Critical Infrastructure Protection (NERC CIP). The NERC CIP plan consists of standards and requirements covering the security of electronic perimeters and the protection of critical cyber assets, as well as personnel and training, security management, and disaster recovery planning. The Electric System's most recent NERC CIP audit was completed in November 2019 with zero areas of concern. LUS's NERC 693 Reliability audit in 2017 was successful, with no violations. SERC was assigned as LUS's regional compliance enforcement authority as of December 2, 2017. SERC Reliability Corporation conducted an Operations and Planning off-site audit of 2020 LAFA, NCR01114 from May 18, 2020, through September 10, 2020, in which there were zero areas of concern, and zero recommendations were made. Additionally, SERC also conducted a review of LUS as a balancing authority and transmission operator due to the new EMS. A report was issued by certification review team and determined that LUS does not require a new certification. LUS is in compliance with all applicable NERC CIP and Operations and Planning ("O&P") 693 standards.

LUS, also known as LAFA, remains registered with NERC as a Balancing Authority, Transmission Operator, Transmission Owner, Transmission Planner, Generator Operator, Generator Owner and Distribution Provider. LAFA, also has delegation agreements with MISO through Coordinated Functional Registration or Joint Registration Organizations Agreement. In 2011, LAFA established a formal program for internal compliance, supported by management and the Lafayette City council.

The formation of LAFA's NERC Compliance Section was established to meet the continuing evolution of in-scope regulatory standards and to provide oversight and assistance to Subject Matter Experts. LAFA's NERC Compliance consist of a full-time NERC Analyst, an Electric Reliability & Environmental Compliance Administrator, and several Subject Matter Experts with various departments.

4.6 Contracts and Agreements

LUS maintains many contracts and agreements important to its day-to-day utility operations. Among the day-to-day operations contracts are agreements relating to maintenance of key equipment, testing services, customer acquisitions, and certain analysis functions. Table 4-21 provides a summary of the key contracts that are in place for LPPA and LCG.

Table 4-21: Electric System LPPA and LCG Key Contracts and Agreements

Contracts & Agreements Between	Date Signed/Renewed	Termination Date	Provisions
LPPA Contracts			
LPPA – Cleco, LEPA	November 15, 1982	June 30, 2032 or end of useful life	Joint ownership of Rodemacher Unit 2
LCG - LPPA	May 1, 1997	August 31, 2047 or when bonds were paid	Purchase of power from LPPA's 50 percent share in Rodemacher Unit 2
LPPA – Peabody	November 7, 2007	60 days' written notice	Purchase of coal for Rodemacher Unit 2
LPPA – Arch Coal Sales, Inc.	August 4, 2009	Upon 30 days' notice	Purchase of coal for Rodemacher Unit 2
LPPA - Navajo Transitional Energy Company, LLC	December 11, 2002	Upon 180 days' notice	Purchase of coal for Rodemacher Unit 2
LPPA - Coal Network, LLC	November 11, 2021	60 days' written notice	Purchase of coal for Rodemacher Unit 2
LPPA – Cleco – LEPA – Charah Inc	March 1, 2015	February 29, 2020; may be renewed for 1- or 5-year period	Sale of byproducts (ash) for reuse
MISO Related Contracts			
WIGO Related Contracts	I	Coincides with MISO Owners	Supplemental Agreement between Transmission Facilities Owners
LCG - Other Transmission	January 4, 2013	Agreement	and MISO regarding Independent System Operator (ISO) services
LCG – Other Transmission Facilities	F-h 4 2242	30 years from the earliest Effective	T
Owners LCG – MISO	February 4, 2013 February 4, 2013	Date for any signatory, therafter 5- Coincides with MISO Owners	Transmission Owner Agreement for LUS in MISO Agency Agreement for Open Access Transmission Service
LOG WINDO	1 Solucity 7, 2013	Agreement	1. gono, 1. grooment or Open Access Hansinission oct vice
LCG - MISO	August 1, 2013	Upon 30-day notice	Agreement to procure satellite phone link
LCG - MISO	September 25, 2013	2 years from Effective Date, thereafter 1-year terms	Modeling, Data, and Analysis reliability standards complance obligations primarily related to NERC requirements
LCG – Other Transmission Facilities Owners	December 10, 2013	5 years from Effective Date, thereafter 1-year term	Settlement Agreement between Transmission Owners and MISO on Filing Rights
LCG - Midwest ISO Transmission Owners	January 25, 2018	Withdrawal from MISO	Cost sharing for attorneys and consultants related to MISO.
TEA and Fuel Contracts			
LCG – TEA	June 1, 2013	Upon 6-months' notice, but not prior to 48 months after the Effective Date	Power and Fuel Marketing
TEA – Centerpointe	March 28, 2019	June 30, 2021 with 1 year extension option renewed annually	Supply of natural gas for Hargis Hébert Plant
TEA – Centerpointe	July 15, 2019	June 30, 2020 with 2 year extension option	Supply of natural gas for T. J. Labbé Plant and Doc Bonin Plant sites
Capacity, Energy and Renewable Contrac	ts	10,000	
LCG – Exelon Generation Company, LLC	August 7, 2018	December 31, 2020	Energy contract for 50 MW at 100% load factor from January 1, 2019
ECO - Excion Generation Company, LEC	August 1, 2010	December 31, 2020	through December 31, 2020.
LCG – SPA	June 1, 2018	May 31, 2033	Purchase of hydroelectric power
LCG – STX Services B.V. (v a TEA)	August 3, 2018	December 31, 2020	RECs from January 1, 2019
LCG - NRG	June 1, 2020	May 31, 2021	through December 31, 2020. 80 MW of capacity from June 2020 – May 2021
		•	,
LCG - TEA	June 1, 2021	May 31, 2022	68 MW of capacity from June 2021 – May 2022
LCG - TEA	March 1, 2020	March 31, 2021	50 MW on-peak 30 MW off-peak energy contract at 100% load factor for March 2020
LCG - TEA	October 1, 2020	October 31, 2021	50 MW 7x24 energy contract at 100% load factor for March 2020
Transmission Related Contracts			
City – Louisiana Generating (Cajun	May 23, 1983	Upon 3-year notice	Interchange agreement for electric transmission
Electric) City – Entergy Louisiana	October 6, 1988	Upon 18-month notice	Interchange agreement for electric transmission
LCG – Entergy Gulf States	June 22, 2012	June 21, 2032; year to year	Interconnection agreement for delivery of power
LCG - Cleco	1991	thereafter 31-Aug-21	Interconnection agreement for delivery of power. Transformer lease
			agreement (Cleco rents transformer space to serve Breaux Bridge) Firm transmission service point to point (expires August 31, 2021). Cleco ESIA was amended 6/29/2021 to terminate the transmission service for Rodemacher.
Miscellaneous Contracts			
LCG - SLEMCO	September 10, 2004	September 10, 2019	Contract expired. Negotiations ongoing.
LCG - TransCanada	January 18, 2019	January 18, 2024	CTG Maintenance Services.
LCG – City of Broussard	December 18, 2015	December 17, 2038	Franchise Agreement
LCG - City of Broussard	December 18, 2015	December 17, 2038	Streetlighting Agreement
LCG – City of Youngsvile	July 7, 2017	November 30, 2026	Franchise Agreement
LCG – City of Youngsvile	July 7, 2017	November 30, 2026	Streetighting Agreement
LCG – Stuller	July 27, 2021	July 27, 2022	Electric Service agreement extended for one year

Source: LUS, LPPA, LCG

4.7 Utility Benchmarking

LUS compares favorably with its regional and national peers when benchmarking electric rates and financial performance. The following sections benchmark LUS's electric rates and financial performance.

4.7.1 Utility Rates Benchmark

LUS's residential and commercial electric rates have consistently been among the lowest in the region and continued to follow that trend into FY 2021. The following tables compare the average residential and commercial electric rates in the region as of October 31, 2021. Table 4-22 presents LUS and its regional peers' average electric rate based on a usage of 1,000 kWh per month. Table 4-23 presents the LUS commercial rate benchmark based on S&P Global data through 2020. While the fuel portion of the rate changes on a monthly basis based on LUS's cost of fuel and purchased power, the non-fuel rates have not been adjusted since FY 2018.

Table 4-22: Electric System Residential Rate Comparison

Utility	Average Rate (\$/kWh)
New Orleans - Cleco	\$0.12187
New Orleans - Entergy	\$0.12187
Shreveport – SWEPCO	\$0.09950
New Iberia - Cleco	\$0.11492
Alexandria	\$0.10790
Baton Rouge – Entergy	\$0.10955
Lake Charles – Entergy	\$0.10955
LUS	\$0.09668

Source: LUS

Table 4-23: Electric System Commercial Rate Comparison

Utility	Average Rate (\$/kWh)
New Iberia – Cleco	\$0.1033
Alexandria	\$0.0904
Shreveport – SWEPCO	\$0.09440
New Orleans - Entergy New Orleans	\$0.08490
Baton Rouge – Entergy Louisiana	\$0.08430
Lake Charles – Entergy Louisiana	\$0.08430
LUS	\$0.0806

Source: S&P Global Retail Average Retail Rate Summary for Louisiana

4.7.2 Financial and Operating Statistics Benchmark

LUS benchmarks itself against other national and regional municipal electric utilities. Table 4-24 presents selected financial and operational ratios for LUS's electric utility with other national and regional utilities. The data is based on APPA Financial and Operating Ratios of Public Power Utilities and the 2020 Data

was published in February 2022. The APPA report contains data based on regions of the U.S. and the number of electric customers served by the utility. LUS was benchmarked against other Southwest regional utilities since Louisiana falls within the southwest region. The majority of LUS's operating ratios are within an acceptable range of both national and regional benchmarks. LUS's revenue per kWh has remained consistently below benchmarks even with recent rate increases. The financial ratios including debt to total assets, current ratio, times interest earned ratio ("TIER"), and DSC have all remained within an acceptable range. DSC is expected to increase as interest expense declines due to the refunding of the Series 2012 Bonds with the Series 2021 Bonds. LUS's uncollectable accounts per revenue dollar has continued to decline and is now lower than regional and national averages. The system load factor has always been lower than national and regional averages due to a higher proportionate share of Residential customers to commercial customers as expected.

U.S. 50,000 -100.000 Customers Southwest U.S. National LUS LUS LUS LUS Statistic Basis Regional 2020 2018 2019 2021 2020 2020 Revenue per kWh - All Retail Customers \$0.107 \$0.093 \$0.087 \$0.087 \$0.085 \$0.090 Elec Debt to Total Assets 0.366 0 394 0.344 0.380 0.343 Total LUS 0.362 Operating Ratio (Electric specific) Flec 0.803 0.774 0.725 0.663 0.673 0.718 Current Ratio Total LUS 3 91 4.22 2.56 2 37 1.84 2 07 Times Interest Earned 3.22 5.75 7.44 8.49 7.34 7.31 Elec 3.55 4.77 3.05 3.65 3.15 2.97 **Debt Service Coverage** Elec \$0.0860 \$0.0810 \$0.0645 \$0.0856 \$0.0674 Net Income per Revenue Dollar (\$) Elec \$0.1140 Uncollectible Accounts per Revenue Dollar (\$) \$0.0027 \$0.0032 \$0.0060 \$0.0052 \$0.0048 \$0.0059 Total LUS Total O&M Expense per kWh Sold \$0.0910 \$0.0750 \$0.0646 \$0.0596 \$0.0584 \$0.0659 Flec 52.9% 53.0% System Load Factor Flec 52 9% 51.4% 51.3% 50.4%

Table 4-24: Benchmarked Electric Utility Operating Ratios

4.8 Historical Financial Performance

The LUS electric utility has maintained strong financial performance over the last five years. The electric utility is responsible for nearly 80 percent of the total LUS utility revenues, so strong performance is important for the overall financial health of LUS. The electric system has provided sufficient debt service coverage over the last five years for the Series 2010 Bonds, Series 2012 Bonds, Series 2017 Bonds, and Series 2019 Bonds. The Series 2010 Bonds were fully redeemed as of November 1, 2020. The Series 2012 Bonds were fully repaid with funds from the Series 2021 Bonds in early FY 2022. The historical operating revenues, expenses, and debt service coverage calculations are presented in Table 4-25. Operating revenues include interest income and miscellaneous income. Operating expenses do not include ILOT, normal capital spend and special equipment costs, and other miscellaneous expenses.

Net Revenues Operating Operating Available for Debt **Debt Service** Revenues Expenses Service Coverage Ratio Year **Debt Service** 2017 \$176,060,504 \$133,347,125 \$42,713,378 \$15,655,298 2.7 2018 \$131,167,858 \$49,787,833 \$180,955,690 \$16,337,720 3.0 2019 \$179,965,886 \$119,400,682 \$60,565,203 \$16,615,466 3.6 2020 3.2 \$166,467,519 \$112,044,248 \$54,423,272 \$17,255,061 2021 \$179,851,903 \$129,086,775 \$50,765,128 \$17,101,771 3.0

Table 4-25: Electric System Historical Debt Service Coverage

Source: LUS Financial and Operating Statements

4.8.1 Rate Structures

LUS's electric utility rates include customer charges, demand charges, and energy charges like many other electric utilities. The electric rates are reviewed periodically with the most recent rate study completed in FY 2016. The rate classes include residential, commercial, industrial, schools and churches, a university special contract rate, street lighting rates, and private area lighting. The residential class and small commercial class rates do not currently have demand charges while the other classes do.

Each rate class includes a fuel charge rider which recovers the variable cost of fuel and purchased power from customers monthly. Schedule Fuel Charge (FC) protects LUS from financial risk of unforeseen and volatile fluctuations in the wholesale power market which LUS operates. All operating expenses associated with environmental compliance, fuel, and purchased power are included in the FC and passed directly to customers in their monthly bills. More specifically, the FC recovers the net cost of MISO market purchases and sales, wholesale transmission costs, LPPA fuel costs, LPPA rail car debt, LPPA MATS debt, LPPA MATS O&M, LPPA reagents, LUS power plant fuel costs, hydro purchased power costs, and TEA power marketing costs.

The current electric rates are presented in Table 4-26. The base electric rates (i.e. non-FC rates) have not changed since FY 2018. LUS periodically performs rate studies so that rates continue to generate revenues that are sufficient to recover its operating expenses and pay its outstanding debt obligations. LUS is currently completing a rate study and new rates will be implemented in FY 2023.

Table 4-26: Electric System Rate Schedules

			Customer Charge	Demand Charge	Non-Fuel Energy
Rate Class	Serves	Effective Date	(\$/month)	(\$/kW-month)	Charge (\$/kWh)
R-1	Residential	Nov-17	\$8.00	\$0.00	\$0.04764
R-1-0	Residential Non-City	Nov-17	\$8.80	\$0.00	\$0.05240
C-1	Small Commercial	Nov-17	\$10.00	\$0.00	\$0.06176
C-2	Large Commercial	Nov-17	\$50.00	\$8.50	\$0.02098
SC-1	Schools and Churches	Nov-17	\$10.00	\$0.00	\$0.05220

Source: LUS Rate Tariffs

4.8.2 Revenue Analysis

As described in the rates section of this Report, LUS generates revenues from base rates and the FC rider. The FC is adjusted as required to recover LUS's fuel and purchased power cost as defined in the ordinances and described previously. Table 4-27 presents the historical base rate and FC revenue over the last five years. Base rate revenues have steadily increased due to increased sales and base rate increases implemented in FY 2017 and FY2018. The FC revenues have fluctuated with wholesale market prices and fuel costs along with increases in energy sales. In FY 2021, the wholesale power market prices rebounded from low FY 2020 levels which increased the FC rate. An increase in overall retail sales resulted in an increase in overall base rate revenues and FC revenues.

Table 4-27: Historical Base Rate and Fuel Charge Revenues

	2017	2018	2019	2020	2021
Revenues					_
Retail Sales- Base Rate	\$94,552,196	\$102,886,777	\$100,836,993	\$97,878,860	\$99,763,119
Retail Sales- Fuel Clause	76,829,537	72,872,661	73,101,002	65,117,850	76,344,759
Total	\$171,381,733	\$175,759,439	\$173,937,995	\$162,996,710	\$176,107,877
Energy Sales					
Retail Sales (kWh)	1,980,653,304	2,031,847,230	2,004,309,990	1,917,039,526	1,959,363,937
Revenue per kWh					
Retail Sales- Base Rate	\$0.0477	\$0.0506	\$0.0503	\$0.0511	\$0.0509
Retail Sales- Fuel Clause	\$0.0388	\$0.0359	\$0.0365	\$0.0340	\$0.0390
Total	\$0.0865	\$0.0865	\$0.0868	\$0.0850	\$0.0899

Source: LUS Financial and Operating Statements

4.8.3 Revenue Statistics

As described previously, LUS provides service through multiple rate schedules which are updated periodically. LUS has experienced customer growth in all classes between FY 2016 and 2020. However, the energy usage per customer has been on a steady decline over the last five years due to more efficient homes and businesses and lower usage appliances. FY 2021 experienced a rebound in use per customer in the Commercial rate classes and schools as Lafayette came out of the COVID-19 pandemic. The trend in reduction in use per customer over the last five years is consistent with the majority of utilities across the United States. Table 4-28 presents the historical base rate revenues and sales in total and per customer by classification.

Table 4-28: Historical Base Rate Revenue Statistics

	2017	2018	2019	2020	2021
Revenues (non Fuel)					
Residential	\$39,500,029	\$45,868,752	\$44,867,081	\$45,249,322	\$46,119,410
Commercial	47,150,242	48,685,466	47,517,635	44,934,325	45,393,897
Schools & Churches	4,996,497	5,308,787	5,210,732	4,638,383	5,000,613
Other	2,905,428	3,023,773	3,241,545	3,056,830	3,249,199
Total	\$94,552,196	\$102,886,777	\$100,836,993	\$97,878,860	\$99,763,119
Number of Customers					
Residential	55,227	55,535	56,769	57,412	58,109
Commercial	9,204	9,285	9,285	9,484	9,521
Schools & Churches	522	518	527	541	536
Other	1,908	1,905	1,915	1,926	1,931
Total	66,860	67,243	68,495	69,364	70,096
Revenue per Customer					
Residential	\$715	\$826	\$790	\$788	\$794
Commercial	5,123	5,243	5,118	4,738	4,768
Schools & Churches	9,578	10,250	9,891	8,567	9,337
Other	1,523	1,587	1,692	1,587	1,683
Total (\$/customer)	1,414	1,530	1,472	1,411	1,423
Sales (kWh)					
Residential	790,227,214	845,855,856	830,153,367	829,390,383	848,819,679
Commercial	1,008,350,471	1,000,509,799	988,791,647	917,385,965	927,340,664
Schools & Churches	124,728,756	127,870,744	126,428,653	111,587,567	120,588,372
Other	57,346,863	57,610,831	58,936,323	58,675,611	62,615,222
Total	1,980,653,304	2,031,847,230	2,004,309,990	1,917,039,526	1,959,363,937
Sales (kWh) per Customer					
Residential	14,309	15,231	14,623	14,446	14,607
Commercial	109,562	107,753	106,498	96,728	97,400
Schools & Churches	239,097	246,894	239,978	206,103	225,153
Other	30,055	30,246	30,771	30,460	32,433
Total	29,624	30,216	29,262	27,638	27,953
Revenue per kWh					
Residential	\$0.0500	\$0.0542	\$0.0540	\$0.0546	\$0.0543
Commercial	0.0468	0.0487	0.0481	0.0490	0.0490
Schools & Churches	0.0401	0.0415	0.0412	0.0416	0.0415
Other	0.0507	0.0525	0.0550	0.0521	0.0519
Total	\$0.0477	\$0.0506	\$0.0503	\$0.0511	\$0.0509

Source: LUS Financial and Operating Statements

4.8.4 Expense Analysis

LUS's electric utility incurs both variable and fixed operating expenses. Variable expenses generally fluctuate with how much power is generated, delivered, and used while fixed operating expenses do not. Variable operating expense include fuel, LPPA fuel, and wholesale purchased power and sales. Fixed operating expenses that do not change with the amount of energy consumed include power production labor and maintenance, distribution labor and maintenance, customer service and sales expense, and

administrative and general expenses. Table 4-29 presents the historical operating expenses for LUS's- electric utility system. In FY 2021, the MISO wholesale market prices increased which resulted in higher purchased power costs, higher generation fuel consumption and generation sales. Fixed production costs have been on a steady decline due to cost reductions at Doc Bonin, Hargis-Hebert, and Labbé power plants which has helped to keep rates low when combined with previous rate increases however LPPA fixed costs increased in FY 2021 partially offsetting other generation reductions. Transmission costs saw a decline in FY 2021 due to the expiration of major transmission contracts and this cost reduction will continue in FY 2022.

Table 4-29: Historical Fixed and Variable Expenses

Variable Expenses	2017	2018	2019	2020	2021
Fuel Cost - LUS	\$1,967,322	\$3,020,362	\$2,369,957	\$1,945,110	\$6,515,336
Purchased Power Other	3,926,250	3,637,576	15,569,793	18,203,665	4,976,460
Purchased Power LPPA Fuel	26,620,153	29,566,005	27,808,739	19,288,183	27,019,447
Purchased Power MISO	64,942,619	67,855,286	46,658,114	32,103,265	74,496,875
Purchased Power MISO Sales	(29,186,362)	(36,621,122)	(32,525,010)	(15,696,107)	(45,782,212)
Production - Variable	\$68,269,981	\$67,458,107	\$59,881,593	\$55,844,116	\$67,225,906
Fixed Expenses					
Production - Fixed	\$28,706,647	\$26,998,804	\$24,491,422	\$21,809,812	\$28,027,921
Transmission	9,192,823	9,275,422	8,612,596	8,438,158	7,103,445
Distribution	12,283,787	12,143,206	11,837,879	10,990,219	11,109,141
Customer	2,917,554	2,828,513	2,690,275	2,742,846	3,406,175
A&G	11,976,332	12,463,806	11,886,918	12,219,098	12,214,185
Total Fixed	\$65,077,144	\$63,709,751	\$59,519,089	\$56,200,132	\$61,860,869
Total Fixed & Variable	\$133,347,125	\$131,167,858	\$119,400,682	\$112,044,248	\$129,086,775
Percent Variable	51%	51%	50%	50%	52%
Percent Fixed	49%	49%	50%	50%	48%

Source: LUS Financial and Operating Statements

4.8.5 Recovery of Costs

Fixed and variable costs are recovered through retail demand rates, energy rates, and customer charges billed to customers. Commercial and Residential customers are both billed customers charges to recover customer related fixed costs. Residential and Small Commercial customers are billed energy charges to recover both fixed costs and variable utility costs. Large commercial customers are billed demand charge to recover fixed demand costs and energy charges to recover energy related costs. Approximately 50 percent of LUS's costs are fixed, however only 15 percent of its revenues are recovered through fixed charges. Utilities across the U.S. are gradually moving towards rate structures that recover more from higher customer charges and demand charges. LUS is working towards modernizing its rate structure in the current rate study.

4.9 Findings and Recommendations

Based on the analysis described herein, Burns & McDonnell provides the following observations:

- Based on visual inspection of facilities, records audit, and interviews of LUS staff, the LUS
 distribution and transmission system is in good condition, maintained properly and in accordance
 with industry practices.
- LUS is proactive and strategic in its cyclical inspection, maintenance, and replacement of equipment.
- The LUS transmission and distribution planning and construction practices are proactive and aligned with a focus on reliability, resiliency, and efficient operation of the system.
- The LUS distribution system consistently outperforms regional and national averages for system reliability and availability, which reflects its intentional and proactive maintenance, planning, and construction practices.
- LUS revenues were sufficient to meet all financial obligations including operating expenses, LUS and LPPA debt service, capital improvements, ILOT payments, and required reserves. LUS's system operating, expense, debt, revenue, and related ratios reflect a financially stable and healthy utility that is currently offering competitive, lower than market average rates.
- Burns & McDonnell is currently completing a rate study for LUS and the proposed rate plan is
 expected to be approved before the end of FY 2022. The rate study is being completed to review
 existing and projected cost levels and set rate revenues to maintain financial performance.
- The electric system revenue recovery structure, like most electric utilities, is misaligned. LUS
 recovers nearly 85 percent of its revenues through variable charges when 50 percent of its costs are
 fixed. This creates a systemic problem when energy usage per customer is declining, but customer
 growth is increasing. LUS is planning to gradually address this and other rate issues within the rate
 study.
- LUS is planning to issue new bonds in FY 2023 to support various electric, water, and wastewater
 projects. The bond funding anticipated is reasonable and appropriate to fund these projects and the
 forecasted revenues represented in the continuing disclosure financial projections are expected to be
 able to fund the new debt service associated with the new bonds.
- The Utilities System CIP has been sufficient to sustain and improve the integrity and reliability of the system.
- LUS completed an IRP in FY 2020. The IRP had several recommendations which included the retirement of Rodemacher Unit 2 in 2028, the construction of a new LUS owned simple cycle gas turbine power plant at the existing Doc Bonin site in 2028, and the addition of utility scale solar

- which would be procured through power purchase agreements. LUS continues to evaluate its power supply alternatives and is continuing to develop each of these initiatives.
- LUS has performed well in FY 2021. LUS's performance on the four reported indices is consistent or significantly better than typical national median performance reported by both regional and national benchmarks. LUS has performed well in NERC CIP audits, NERC 693 operational audits, and LDEQ environmental inspections.
- The organizational structure and management of the Electric System engineering and operations areas
 appears to be strong based on initial observations, interviews, organizational structures, and
 manpower within each department.
- As other utilities have experienced, the recruitment and retention of quality resources presents challenges. LUS has indicated that it is working to internally develop quality resources through training programs to retain employees, across multiple departments, and specifically addressing electric lineman and customer service positions. The Electric System management team is working with local schools to hire and retain strong talent that appreciate the benefits provided by a more stable municipal utility business when compared to the oil and gas business of the gulf coast.

5.0 WATER UTILITY SYSTEM

5.1 Water Utility Summary

LUS provides potable water supply, water treatment, transmission, and distribution of finished potable water. Raw water supply is obtained from the Chicot aquifer. Key water infrastructure includes four water treatment facilities, 19 ground water wells, elevated and ground treated-water storage, and 1,153 miles of distribution mains.

LUS performs all water metering and customer service. In 2021, LUS provided water service to 57,891 meters representing residential, commercial, industrial, and wholesale customers. Water System total sales increased by 1.6 percent in 2021; with retail water sales decreasing 0.2 percent, while wholesale water sales increased 6.0 percent. Historical Water System volume sales are presented in Table 5-1.

Table 5-1: Historical Retail and Wholesale Sales Volumes

	Retail Sales	Wholesale Sales	Total Sales
FY	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
2017	5,382,447	2,161,051	7,543,498
2018	5,363,552	2,256,911	7,620,462
2019	5,148,605	2,171,928	7,320,533
2020	5,075,882	2,191,571	7,267,453
2021	5,063,766	2,322,023	7,385,789

Source: LUS Financial and Operating Statements

5.2 Water Supply Summary

Nineteen groundwater wells within the Chicot aquifer provide water supply to four water treatment facilities: South Water Treatment Plant ("SWP"); North Water Treatment Plant ("NWP"); Commission Boulevard Remote Site ("Commission Boulevard"); and Gloria Switch Remote Site ("Gloria Switch"), as summarized in **Error! Reference source not found.**. The Chicot aquifer is the sole source of supply for LUS, and groundwater produced is generally of high quality and characterized by the USGS as having a "very hard" level of hardness. Treatment processes employed by LUS are discussed in Section 5.3.

Capacity Capacity Well No. (MGD) Well No. (MGD) South Water Treatment Plant North Water Treatment Plant 1 2.59 2.88 2 2.59 9 2.88 3 2.59 12 2.81 4 2.59 14 3.03 5 2.59 16 2.95 6 4.04 19 2.88 4.04 21 2.88 7 22 2.88 **Total Production Capacity** 21.0 **Total Production Capacity** 23.2 17.0 20.2 Firm Production Capacity¹ Firm Production Capacity¹ Commission Boulevard Remote Site Gloria Switch Remote Site 23 1.44 24 1.44 25 2.31 2.45 26 **Total Production Capacity** 3.89 **Total Production Capacity** 3.75 Firm Production Capacity¹ 1.44 Firm Production Capacity¹ 1.44

Table 5-2: Summary of Well Capacity

5.2.1 Aquifer System

The Chicot aquifer system underlies approximately 9,950 square miles of southwestern Louisiana and provides approximately 800 million gallons per day ("MGD") of freshwater for municipal, commercial, industrial, and agricultural uses through approximately 2,300 groundwater wells. In the 2018 Triennial Report (LDEQ, 2018), the water quality of the Chicot aquifer was sampled in 22 wells (one of which is owned by LUS) located in 13 parishes between July 2016 and June 2017. Field and analytical sampling results, as summarized in the Triennial Report, indicate no EPA maximum contaminant levels ("MCLs") were exceeded and that the secondary MCLs were exceeded in at least one well for chloride, pH, color, iron, and total dissolved solids ("TDS"). At the time of the preparation of the 2022 CER report, the 2021 Triennial Report has not been published. Secondary MCLs are not enforceable by the EPA and are aesthetic in nature. Treatment processes are employed by LUS to address several of these secondary MCLs as described in Section 5.3. EPA designated the Chicot aquifer as a sole-sourced aquifer, meaning

^[1] Firm capacity assumes the largest well is out of service.

it supplies at least 50 percent of the drinking water for its service area and there are no reasonably available alternate supplies should the aquifer become contaminated⁴.

5.2.2 Well Completions

LUS's deep wells are each equipped with a line shaft vertical turbine pump with a surface-mounted motor. LUS reported that an independent contractor inspects wells once per year and cleaning/rehabilitation is performed as required to maintain well pumping capacity.

5.3 Water Treatment and Production

Four facilities provide treatment and/or disinfection of raw groundwater prior to supplying the distribution system for public consumption. Treatment facility capacities and major processes are described in the following sections and summarized in **Error! Reference source not found.**.

Table 5-3: Water Treatment Processes and Capacity

Water Treatment Facility	Primary Treatment Processes	Treatment Capacity (MGD)	
South Water Treatment Plant Plant Pre-oxidation Lime Softening Coagulation and Filtration Disinfection Stabilization		24.0	
North Water Treatment Plant	Lime Softening Coagulation and Filtration Disinfection Stabilization	20.8	
Commission Boulevard Iron and Manganese Removal* Remote Site Disinfection Stabilization		2.8	
Gloria Switch Remote Site Iron and Manganese Removal Disinfection Stabilization		3.8	
Total ⁻	Total Treatment Capacity		
Highest	Recorded Production	33.8	

^(*) Processes will be added in treatment upgrades project currently under construction Source of data: LUS

 $^{^4\} https://deq.louisiana.gov/assets/docs/Water/Triennial_reports/AquiferSummaries_2015-2018/10ChicotAquiferSummary18FINAL.pdf$

Additionally, LUS publishes a 5-year capital improvement program that has projected improvements for the water treatment and production components of the water utility. These improvements include adding additional ground storage tanks at the NWP and SWP, ground storage tank painting and rehabilitation, adding emergency backup power, rehabilitation and upgrades of old treatment units, and electrical rehabilitation.

Table 5-4: Water Treatment and Production Projected CIP

	2022	2023	2024	2025	2026	Total
Water Treatment and Production Total	\$1,000,000	\$2,180,000	\$6,830,000	\$2,530,000	\$3,230,000	\$15,770,000

Source of data: LUS Five-Year Capital Improvement Program (Utilities System)

5.3.1 South Water Treatment Plant

Groundwater produced by water supply wells (Well 1 through Well 7) is combined at the head of the SWP located at 810 W. Broussard Road where raw water is pre-oxidized, softened, clarified, filtered, disinfected, and stabilized for the distribution system. The SWP was built in the 1980s and in 1990 production capacity was expanded by addition of a third treatment unit (rated for approximately 8 MGD), additional filtration, and a second finished water clear well and high service pump station. The current treatment capacity of 24 MGD exceeds the total well production dedicated to this facility by 3 MGD.

Each of the three (3) clarifiers receive hydrated lime and alum in the mixing zone. Settled effluent from the basins is gravity fed to one of the eight filters. Filtered water is temporarily stored in one of two hydraulically connected finished water clear wells and is then pumped into the distribution system. Disinfection at the SWP is provided by chlorine gas.

The chlorine gas system is supplied by pressurized 1-ton cylinders of chlorine gas. The system primarily operates under a vacuum condition as an engineered-safety provision in the event of a leak. The chemical supplier of chlorine gas also provides a service to safely contain leaking equipment when called for this service. However, there are no means to safely contain a chlorine gas leak in the event of a pressurized discharge. It is suggested that LUS further evaluate using containment vessels for active cylinders or a scrubber system.

Polyphosphate (tetrapyrophosphate) is then added for sequestration of contaminants (i.e., stabilization) linked to aesthetic issues. It is suggested that LUS consider changing the phosphate chemical used to provide corrosion control in the distribution system. A pure (i.e., neat) orthophosphate product or a blend of at least 70 percent orthophosphate could provide benefit to corrosion control and sequestration.

Waste streams including clarifier blowdown, backwash, and filter-to-waste are temporarily stored in a backwash recycle tank where decant water is pumped back to the head of the treatment units. Settled solids are pumped from the backwash recycle tank to a settling tank for further thickening. Thickened treatment residuals are hauled and land-applied at local farmland.

Emergency power is provided to the site by a combination of diesel-powered pump motors, a portable generator, and a stationary generator. The stationary generator is not capable of providing full power loads to the site in an emergency outage, and the portable generator is only capable of providing power to wells or high service pumps not connected to the generator. LUS could consider additional emergency power be added to the SWP to meet the full power load requirement of the plant during an outage. At the time of the field visit, a construction project was under way to improve the control building roof and enhance the structural integrity of the control building walls.

5.3.2 North Water Treatment Plant

Groundwater produced by water supply wells (Well 7 through Well 22) is combined at the head of the NWP located at 200 N Buchanan Street in Lafayette where it is treated utilizing processes similar to the SWP. The NWP was built in the 1929 and expanded and/or improved several times since then. The current treatment capacity is 20.8 MGD compared to the 20.2 MGD firm capacity of the wells feeding raw water to this facility.

Five softening basins receive hydrated lime and alum in the mixing zone and settled effluent is gravity fed to the fifteen (15) filters. Filtered water is temporarily stored in one of three (3) finished water clear wells or an on-site 3.0-M gallon ground storage tank and pumped into the distribution system. Disinfection at the NWP is also provided by chlorine gas. Treatment plant waste streams at the NWP are handled similarly to the SWP and residuals are similarly land applied.

The chlorine gas system is supplied by pressurized 1-ton cylinders of chlorine gas. The system primarily operates under a vacuum condition as an engineered-safety provision in the event of a leak. The chemical supplier of chlorine gas also provides a service to safely contain leaking equipment on an as-needed basis. However, there are no means to safely contain a chlorine gas leak in the event of a pressurized discharge. It is suggested that LUS further evaluate using containment vessels for active cylinders or a scrubber system.

Similar to the SWP, polyphosphate (tetrapyrophosphate) is added for sequestration of contaminants linked to aesthetic issues. It is suggested that LUS consider changing the phosphate chemical used to

provide corrosion control in the distribution system. A pure (i.e., neat) orthophosphate product or a blend of at least 70 percent orthophosphate could provide benefit to corrosion control and sequestration.

Emergency power is provided by an on-site emergency diesel generator capable of powering approximately one fourth of the full plant power demand. LUS could consider increasing the capacity of the backup generator be increased in order to better manage potential power failures.

The 16-inch diameter finished water pipeline that conveys water out of the NWP to the distribution system presents a hydraulic bottleneck and limits LUS's ability to utilize the full production capacity of the plant. LUS personnel have noted that due to scale build-up within the pipes leaving the NWP there have been instances of line breakages and pressure issues. It is suggested that an identification and replacement program targeting service lines and main lines be implemented in this area.

5.3.3 Commission Boulevard Remote Site

Groundwater produced by water supply wells (Well 23 and Well 25) is disinfected with sodium hypochlorite and dosed with polyphosphate at the Commission Boulevard Remote Site (located 204 Commission Boulevard) prior to entering the distribution system. Groundwater pumped at this location contains elevated levels of ammonia which will be treated and removed by the water treatment facility after the expansion project for this site, which is currently under construction, is completed. The new treatment facilities will utilize a biological process to remove ammonia, use Greensand filters to provide removal of iron and manganese similar to the Gloria Switch Remote Site, and disinfection will be changed to chlorine gas from sodium hypochlorite as part of the project. Similar to the SWP and NWP, it is suggested that LUS consider changing the phosphate chemical used to provide corrosion control in the distribution system. A pure (i.e., neat) orthophosphate product or a blend of at least 70 percent orthophosphate could be considered.

5.3.4 Gloria Switch Remote Site

Groundwater produced by water supply wells (Well 24 and Well 26) is treated and disinfected at the Gloria Switch Remote Site located at 1708 W Gloria Switch Road, Carencro, Louisiana. Groundwater is dosed with sodium hypochlorite and permanganate for oxidation upstream of Greensand filtration for iron and manganese removal. Polyphosphate is added for sequestration of contaminants linked to aesthetic issues and additional sodium hypochlorite provides disinfection residual. Similar to the other sites, it is suggested that LUS consider changing the phosphate chemical used to provide corrosion control in the distribution system. A pure (i.e., neat) orthophosphate product or a blend of at least 70 percent orthophosphate is could be considered.

A 0.75-M gallon ground storage tank is located on site adjacent to the facility and provides supply to the high service pump station. Emergency power is provided by an on-site emergency diesel generator capable of providing the full plant power demand.

The six (6) Greensand filters must all be in-service to meet the treatment capacity of the Gloria Switch Remote Site. It is suggested that additional Greensand filters be added in the future, providing redundancy to allow for removal and maintenance of units while providing additional treatment capacity. Due to the multiple treatment processes of pre-chlorination and Greensand filtration performing the same function of iron and manganese removal, reevaluation of the pre-chlorination process is suggested to determine if one of the redundant processes can be removed.

5.4 Water Distribution and Storage

Water main materials primarily consist of ductile iron, polyethylene, PVC, asbestos cement, and cast iron. There are 224 sample stations located throughout the distribution system. Distribution system assets including main lines, valves, and hydrants are summarized in **Error! Reference source not found.**.

Asset 2017 2018 2019 2020 2021 1.159 Miles of Main Lines 1.164 1.170 1.145 1.153 Number of Valves 24,361 23,435 23,607 23,755 24,112 Number of Hydrants 6,579 6.616 6,685 6,614 6,811

Table 5-5: Water Distribution System Assets

During 2021, approximately 9.2 miles of new water mains were installed in the City of Lafayette and 0 miles of new mains in the North Water District.

Water is stored in numerous ground storage or elevated storage tanks located at the treatment plant sites and throughout the distribution system, as summarized in **Error! Reference source not found.**.

Table 5-6: Water Storage Facilities

Location	Storage Type	Storage Volume (MG)
Treatment Facilities	*	
	Ground Storage – Concrete Clearwell	0.225
South Water Treatment	Ground Storage – Concrete Clearwell	0.5
Plant	Ground Storage – Concrete Tank	2.0
	Total Storage	2.725
	Ground Storage – Concrete Clearwell	0.3
	Ground Storage – Concrete Clearwell	0.3
North Water Treatment Plant	Ground Storage – Concrete Clearwell	0.3
T Idill	Ground Storage – Concrete Tank	3.0
	Total Storage	3.9
Gloria Switch Remote	Ground Storage – Concrete Tank	0.75
Site	Total Storage	0.75
Distribution System		
Fabacher	Ground Storage – Concrete Tank	2.0
Bertrand	Elevated Multi-Column	0.3
Walker Road	Elevated Multi-Column	1.0
Guilbeau	Elevated Multi-Column	1.0
South Park	Elevated Composite	1.0
North Park	Elevated Composite	1.0
	Total Storage	6.3
	Total System Storage	13.675

Source of data: LUS

LUS staff indicated that additional ground storage is required at the SWP and NWP. The existing 2.0 M gallon tank at the SWP has a leak in the tank floor. This tank, and the 3.0 M gallon ground storage tank at the NWP, are operated 24 hours per day, so they cannot be removed from service for repairs or maintenance to be performed.

The 2 M gallon ground storage tank at the Fabacher location has an adjacent high service pump station with a sodium hypochlorite storage and dosing system. A 1,000-gallon sodium hypochlorite tank was replaced with a 100-gallon tank because boosting the chlorine residual at this location is rarely needed. LUS staff noted that the two 3.6 MGD single-speed high service pumps provide too much pressure, which could be alleviated with the addition of variable frequency drives (VFDs). Only three pumps in the

entire water distribution inventory utilize variable frequency drives as depicted by Table 5-7, below. Adding VFD's will improve operational flexibility, alleviate surge and over-pressurization of service mains, and may improve efficiency.

Table 5-7: High Service Pump Stations and Pump Types

Location	Pump No.	Flow @ Head	Pump Type	
	1	3000 @ 190'	Vertical Turbine w/ VFD	
	2	3000 @ 190'	Vertical Turbine	
	3	3000 @ 190'	Vertical Turbine	
	4	1000 @ 200'	Vertical Turbine	
	5	Number Reserved for Future Pump		
South Water Treatment Plant	6	3000 @ 190'	Vertical Turbine w/ VFD	
	7	3000 @ 190'	Vertical Turbine	
	8	3000 @ 190'	Vertical Turbine	
	9	3000 @ 190'	Vertical Turbine	
	10	Number Reserved for Future Pump		
	TOTAL	31.68 MGD		
	1	2500 @ 180'	Vertical Turbine w/ VFD	
	2	2500 @ 180'	Vertical Turbine	
	3	2500 @ 180'	Vertical Turbine	
	4	2200 @ 180'	Vertical Turbine	
	5	1800 @ 180'	Vertical Turbine	
North Water Treatment Plant	6	2000 @ 180'	Vertical Turbine	
INOTHI WATER HEALTHCHE FIGHT	7	2000 @ 180'	Vertical Turbine	
	8	2000 @ 180'	Vertical Turbine	
	9	3000 @ 180'	Vertical Turbine	
	10	3000 @ 180'	Vertical Turbine	
	12**		Vertical Turbine	
	TOTAL	34.42 MGD		

LUS uses contracted tank inspection services on an annual basis to inspect each elevated storage tank. As a result of a recent tank inspection, the Guilbeau tank was repainted, and the North Park and South Park tanks were cleaned out.

Additionally, LUS published a 5-year capital improvement program for water distribution and storage components of the water utility system. These improvements include water main upgrades and replacements, water main relocations, storage tank painting, and valve installations.

Table 5-8: Water Distribution and Storage Projected CIP

	2022	2023	2024	2025	2026	Total
Water Distribution and Storage Total	\$1,495,000	\$3,110,000	\$1,960,000	\$1,110,000	\$560,000	\$8,235,000

Source of data: LUS Five-Year Capital Improvement Program (Utilities System)

5.4.1 Operations and Related Performance

Gross water production in 2021 was 8,481 million gallons ("MG") or an average of 23.2 MGD. Unaccounted for water is calculated by subtracting the Total Water Sales by the Total Water Distributed and represents the volume of water lost in the distribution system. These losses can be attributed to physical losses (i.e., pipe or tank leakage) or non-physical losses (i.e., under-billed or un-billed volume). In 2021, unaccounted for water was 12.6 percent which is approximately the same level as 2020. Unaccounted for water has increased significantly over the past 5 years. In response to this trend, a comprehensive report on water loss in the LUS distribution system is being prepared by Water Company of America and results are expected to be released in FY 2022.

Table 5-9: Production and Unaccounted for Volumes

Item	2017	2018	2019	2020	2021
Total Water Produced (1,000 Gal)	8,150,356	8,430,630	8,272,102	8,340,279	8,481,925
Plant Use (1,000 Gal)	31,200	31,200	31,200	31,200	31,200
Total Water Distributed (1,000 Gal)	8,119,156	8,399,430	8,240,902	8,309,079	8,405,725
Total Water Sales (1,000 Gal)	7,543,498	7,620,462	7,320,533	7,267,453	7,385,789
Not Accounted for (1,000 Gal)	575,658	778,968	920,369	1,041,626	1,064,936
Unaccounted for Water	7.1%	9.3%	11.2%	12.5%	12.6%

Source of data: LUS Financial and Operating Statements

Distribution system hydrant testing occurs twice per year as required by the Property Insurance Association of Louisiana ("PIAL") and is necessary to maintain the utility's Class II PIAL fire rating. In previous reports, it was noted that distribution system flushing was required to meet the Louisiana Department of Health and Hospitals Emergency Rule governing the minimum disinfectant residual of 0.5 mg/L chlorine in the distribution system was an attributing factor to the rise in unaccounted for water. Discussions with LUS staff indicate that automatic line flushing at 10 to 12 locations of the distribution system is also necessary to mitigate water quality concerns. Flushing is performed at night and is controlled with automatic timers.

5.4.2 Winter Storm, 2021

During 2021 Winter Storm Uri, the LUS water treatment facilities were able to continuously treat and produce water for customers. Low pressures were observed in the distribution system and a boil notice was issued as a precaution for consumer safety. The pressure drop was attributed to customers opening their faucets to avoid bursting pipes. In addition, a pipe replacement project at the NWP was underway which reduced the capacity leaving the plant.

5.4.3 Hurricane Inspections

LUS was not directly impacted by any hurricanes in 2021 and therefore no hurricane inspections were performed.

5.5 Historical Capital Improvement Program

LUS tracks capital expenses through its capital work order system. Historical capital improvements program expenditures presented in Table 5-10 reflect investments in infrastructure funded by the Series 2019 Bonds and retained earnings. Major capital improvements in 2021 included rehabilitation of buildings, treatment plant upgrades, feeders, and water tower improvements.

2017 2018 2019 2020 2021 Normal Capital & Special Equipment 1.448.745 \$ 1,630,841 \$ 1,526,170 2,382,861 \$ 2,601,696 Series 2019 Bonds 0 1,003,625 0 3,136,326 Retained Earnings 1,704,416 791,664 786,874 633,431 1,781,914 3.153.161 2.422.504 2.313.045 Total Water Capital 4.019.917 7.519.937

Table 5-10: Historical Capital Improvement Program

Source of data: LUS Financial and Operating Statements and Utilities Status of Work Orders Report

5.6 Environmental and Regulatory Compliance

The following sections provide an overview of environmental and regulatory compliance associated with the water system. Environmental compliance for the water system is provided by LUS Environmental and Compliance staff including sample collection, analysis, and reporting.

5.6.1 Water Quality

The EPA requires water utilities to perform specific annual water quality sampling and summarize results in an annual Consumer Confidence Report which is then made available to the public⁵. The most recent Consumer Confidence Report available is for the 2020 calendar year. LUS expects to publish the 2021 Consumer Confidence Report in Summer of 2022. The 2020 water quality report indicates no MCL

⁵ The 2020 Consumer Confidence Report can be found at https://www.lus.org/water-quality.

exceedances were observed in the 2020 calendar year. A Louisiana Drinking Water Watch search was performed and indicates there were no water system deficiencies found, as presented in Table 5-11.

Table 5-11: Drinking Water System Violations

Туре	Category	Analysis	Compliance Period
No violations occurred during this CER reporting period	NA	NA	NA

Source of data: LUS 2020 Consumer Confidence Report

Triennial lead and copper sampling was performed by LUS in 2019 and was not required in the 2020 or 2021 calendar year. For reference, the 2019 lead and copper sampling results are provided in Table 5-12. There are zero sites that reported lead or copper concentrations above EPA Designated Action Levels. Section 5.6.3 discusses recent revisions to the Lead and Copper Rule.

Table 5-12: 2019 Triennial Lead and Copper Sampling

Constituent	Major Source in Drinking Water	EPA Designated Action Level (requires treatment) at 90th Percentile	LUS Results at 90th Percentile Testing
Lead	Corrosion of household plumbing systems; Erosion of natural deposits	15 ppb	0 ppb
Copper	Corrosion of household plumbing systems	1.3 ppm	0 ppm

Source of data: 2020 Triennial Lead and Copper Sampling

The EPA Stage 2 Disinfectants and Disinfection Byproducts Rule ("DBPRs") requires sampling of regulated contaminants including total trihalomethanes ("TTHM") and five haloacetic acids ("HAA5"). LUS is required to sample six distribution system monitoring locations quarterly. Results of the DBPR sampling are summarized in Table 5-13. No TTHM or HAA5 samples exceeded the respective MLC or MCLG.

 Table 5-13:
 Disinfection Byproducts Monitored in Distribution System

DBP	Typical Source	Maximum Contaminant Level (MCL)	Maximum Contaminant Level Goal (MCLG)	Locational Running Annual Average (LRAA)	Range	Location
	By-product of drinking	60 ppb	0 ppb	3 ppb	1.6-4.0 ppb	Ambassador Caffery & W. Congress
	water chlorination			4 ppb	2.2-4.8 ppb	Gloria Switch Rd. & Arbor
Haloacetic Acids				6 ppb	1.4-3.9 ppb	Kaliste Saloom & E. Broussard
(HAA5)	(HAA5)			6 ppb	2.6-6.3 ppb	Thomas Nolan & Brigante
				2 ppb	1.4-3.2 ppb	Vennard & Valley View
				2 ppb	1.2-2.8 ppb	Walker & Doc Bonin
	By-product of drinking	80 ppb	0 ppb	8 ppb	7.6-9.3 ppb	Ambassador Caffery & W. Congress
	water chlorination			11 ppb	9.2-10.5 ppb	Gloria Switch Rd. & Arbor
Total Trihalometha				11 ppb	7.6-19.2 ppb	Kaliste Saloom & E. Broussard
nes (TTHM)	nes (TTHM)		19 ppb	11.2-19.1 ppb	Thomas Nolan & Brigante	
				8 ppb	6.5-9.3 ppb	Vennard & Valley View
				6 ppb	5.6-7.1 ppb	Walker & Doc Bonin

Source of data: LUS 2020 Consumer Confidence Report

ppb: parts per billion

Chlorine gas and sodium hypochlorite are disinfectants used at each of LUS's treatment facility locations to control microbes within the distribution system. The minimum allowable free chlorine concentration in the distribution system, set by Louisiana Department of Health and Hospitals ("LA DHH"), is 0.5 ppm and the maximum residual disinfectant level ("MRDL") and maximum residual disinfectant level goal ("MRDLG") are both 4 ppm. A summary of chlorine in the distribution system is included in Table 5-14.

Table 5-14: Distribution System Disinfectant

Disinfectant	Typical Source	MRDL	MRDLG	Highest RRA	LUS Range
Chlorine	Water additive to control microbes	4 ppm	4 ppm	1.57 ppm	0.50-2.68 ppm

Source of data: LUS 2020 Consumer Confidence Report

Drinking water in the distribution system is also sampled and analyzed for microbes. The results of the microbiological sampling are summarized in Table 5-15.

Table 5-15: Microbiologicals Monitored in Distribution System

Microbiologicals	Typical Source	Maximum Contaminant Level (MCL)	Maximum Contaminant Level Goal (MCLG)	Result
None Detected	NA	NA	NA	NA

Source of data: LUS 2020 Consumer Confidence Report

Raw groundwater was also sampled and analyzed for barium, fluoride, combined radium (-226 and -228) and gross beta particle activity. The results of the sampling are summarized in Table 5-16.

Table 5-16: Constituents Monitored Before Treatment

Constituent	Major Source in Drinking Water	Maximum Contaminant Level (MCL)	Maximum Contaminant Level Goal (MCLG)	LUS Max	LUS Range
Arsenic	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes	10 ppb	0 ppb	1.1 ppb	<rl-1.1 ppb</rl-1.1
Barium	Discharge of drilling wastes, discharge of metal refineries, erosion of natural deposits	2 ppm	2 ppm	0.63 ppm	<rl-0.63 ppm</rl-0.63
Di(2-Ethylhexyl) Phthalate	Discharge from rubber and chemical factories	6 ppb	0 ppb	15 ppb	<rl-15 ppb</rl-15
Fluoride	Erosion of natural deposits; discharge from fertilizer and aluminum factories	4 ppm	4 ppm	0.2 ppm	0.2 ppm
P- Dichlorobenzene	Discharge from industrial chemical factories	75 ppb	75 ppb	0.26 ppb	0.16 – 0.26 ppb
Combined Radium (-226 & -228)	Erosion of natural deposits	5 pCi/L	0 pCi/L	0.516 pCi/L	<rl -0.516<br="">pCi/L</rl>
Gross Beta Particle Activity	Decay of natural and man-made deposits	50 pCi/L	0 pCi/L	4.58 pCi/L	<rl-4.58 pCi/L</rl-4.58

^(*) Di(2-Ethylhexyl) Phthalate was detected only once in source water before any treatment and not within the distribution system. It was subsequently retested in the same quarter, at the same sample point, with no detectible level. Sampling from the following quarter also yielded no detectible results.

Source of data: LUS 2020 Consumer Confidence Report

EPA requires monitoring of specific contaminants under the Unregulated Contaminant Monitoring Rule ("UCMR"). Under UCMR4, covering calendar years 2018 to 2020, groundwater systems are required to sample 20 contaminants. Unregulated contaminants detected are summarized in the 2019 CCR and in

Table 5-16. Every five years, the EPA updates the contaminants to be monitored by public water systems. UMCR5 has been published in draft form and includes sampling and analysis for 29 per- and polyfluoroalkyl substances ("PFAS") and one metal: lithium. Sampling for UMCR5 will take place between 2023 and 2025.

5.6.2 America's Water Infrastructure Act of 2018

The America's Water Infrastructure Act ("AWIA") of 2018, Section 2013 required that all water systems perform a Risk and Resilience Assessment ("RRA") and update the water system's Emergency Response Plan ("ERP"). LUS was required to certify completion of an RRA and ERP Update by March 31, 2020, and September 30, 2020, respectively. LUS reported that these services were performed by Neel Schaffer and that EPA certifications were submitted by LUS prior to the regulatory deadlines. These documents must be updated and submitted to EPA on a 5-year cycle. The next RRA and ERP update is due by March 31, 2025, and September 30, 2025, respectively.

5.6.3 Lead and Copper Rule Revisions

The EPA issued the final Lead and Copper Rule Revisions ("LCRR") on January 15, 2021, aimed to better protect children at schools and childcare facilities against lead exposure through drinking water. The LCRR represents the first major update to the Lead and Copper Rule in 30 years and requires water utilities to prepare and maintain lead service line inventories, requires modifications to lead and copper sample locations and protocols, and, if triggered, perform, and implement corrosion control studies and/or lead service line replacement.

After some delays with implementing the rule, on June 10, 2021, EPA announced that the effective date of the LCRR would be December 16, 2021. LUS has begun preparing for operational changes brought about by the LCRR, specifically in developing a lead service line ("LSL") inventory and revisions to the lead and copper sampling. Per the LCRR, all systems with any LSLs shall prepare and submit to the state a LSL Replacement Plan by October 16, 2024. LUS has kicked off an effort to develop a service line inventory to support development of an LSL Replacement Plan to meet the requirements of the LCRR.

5.6.4 Louisiana Pollutant Discharge Elimination System Permits

The water system maintains three LPDES permits as described in the following sections.

5.6.4.1 North Water Treatment Plant LPDES Permit

LPDES Permit LAG380057 permits for the discharge of clarifier sludge and/or clarifier blowdown at Outfall 004. The permit is effective as of December 17, 2020, and expires five (5) years from the effective start date.

5.6.4.2 South Water Treatment Plant LPDES Permit

LPDES Permit LA0079278 permits for the discharge of storm water or process flows at five storm water outfalls. The permit is effective as of June 1, 2020, and expires five (5) years from the effective start date.

5.6.4.3 North Booster Well Treatment and Storage Facility

LPDES Permit LAG380096 permits for the discharge of storm water or process flows to outfalls at the North Booster Well Treatment and Storage Facility located at Gloria Switch Road. The permit is effective as of December 17, 2020, and expires 5 years from the effective start date.

5.6.5 Spill Prevention Control and Countermeasures Plan

SPCC plans are required to comply with state and federal regulations if facilities are proximate to U.S. waters. Compliance is required by facilities which are subject to spills of oils, fuels, or other controlled substances and have a storage capacity of more than 1,320 gallons at a single facility. SPCC Plans are required at the North Water Treatment Plant and the South Water Treatment Plant and were prepared for each facility in 2006. Each water treatment plant SPCC Plan was last reviewed for substantial changes in May 2017. SPCC Plans must be reviewed every five (5) years (the next review is due in 2022) or upon significant change in oil storage or if a spill incident occurs.

5.6.6 Post-Hurricane Inspections

There were no post-hurricane inspections in FY 2021 as LUS was not directly impacted by hurricanes in 2021.

5.7 Contracts and Agreements

LUS owns, operates, and maintains a regional Water System that serves customers both inside and outside its City limits. Services are provided on a retail and wholesale basis outside the City, including seven wholesale customers governed by six contracts. Wholesale customers are comprised of two water districts and five neighboring water systems or cities including:

- Waterworks District North (retail and wholesale)
- Waterworks District South
- The City of Scott

- The City of Broussard
- Milton Water System
- The City of Youngsville
- The City of Carencro (emergency supply only; not a typical wholesale customer)

LCG also provides billing services on behalf of Waterworks District North to its retail customers. Both the North and South Waterworks Districts constructed their own additions and extensions following LUS construction standards. In addition to its wholesale contracts, LCG has a contract to provide emergency back-up water service to the City of Carencro. This agreement was signed in 1980 and has no expiration.

Wholesale customers represented 31.4 percent of total water sales volume and 32 percent of the total water sales revenue in 2021, respectively. While both wholesale water sales volume and revenues have increased recently, wholesale revenues have increased more due to wholesale rate increases. Table 5-17 and Table 5-18 summarize the historical wholesale water volume sales and revenues by customer.

Table 5-17: Wholesale Water Sales by Customer (1,000 gallons)

Customer	2017	2018	2019	2020	2021
City of Scott	356,855	339,037	365,611	332,496	347,494
City of Broussard	260,502	297,294	332,037	219,374	246,489
City of Youngsville	345,638	406,563	367,097	449,303	464,766
Milton Water System	225,155	234,024	240,071	246,763	252,743
Waterworks District North	448,394	442,492	324,787	376,549	442,626
Waterworks District North - Wholesale	225,320	222,101	227,818	213,567	215,592
Waterworks District South	299,187	315,399	314,507	353,520	352,314
Total Wholesale Water Sales	2,161,051	2,256,911	2,171,928	2,191,571	2,322,023
Total Water Sales (Wholesale and Retail)	7,543,498	7,620,462	7,320,533	7,267,453	7,385,789
Percent of Total Sales from Wholesale	28.6%	29.6%	29.7%	30.2%	31.4%

Source: LUS Financial and Operating Statements

Table 5-18: Wholesale Water Revenues by Customer

Customer	2017	2018	2019	2020	2021
City of Scott	\$844,031	\$988,418	\$997,561	\$909,160	\$961,493
City of Broussard	613,321	760,203	879,643	590,437	675,657
City of Youngsville	820,289	1,033,306	934,361	1,240,640	1,265,506
Milton Water System	528,244	601,330	602,054	675,946	693,552
Waterworks District North	1,187,053	1,265,202	944,243	1,394,202	1,809,916
Waterworks District North - Wholesale	536,451	574,238	588,692	571,651	588,080
Waterworks District South	703,063	815,558	815,953	973,644	962,614
Total Wholesale Water Revenues	\$5,232,452	\$6,038,256	\$5,762,507	\$6,355,680	\$6,956,818
Total Water Sales (Retail & Wholesale)	\$19,458,484	\$21,220,243	\$20,524,232	\$21,144,642	\$21,710,500
Percent of Total Sales from Wholesale	26.9%	28.5%	28.1%	30.1%	32.0%

Source: LUS Financial and Operating Statements

A summary of wholesale contract terms is presented in Table 5-19. In 2019, the contract with the City of Broussard was extended from an expiration in 2020 to 2038. Also, in 2019, the contract with the City of Scott was extended from an expiration in 2022 to 2038. The Waterworks District North and Waterworks District South contracts expire in 2032 and 2035, respectively. The Milton Water System expires in 2037 and the City of Youngsville expires in 2038.

Table 5-19: Wholesale Water Contract Terms

Customer	Contract Date	Term in Years	Termination Date
Water District North – Full Service – Phase 1, 2, 3, 4 (NE area, NW area, Scott area)	October 17, 2002	30	October 17, 2032
Waterworks District North - Wholesale	October 17, 2002	30	October 17, 2032
City of Scott	May 28, 1997	41	May 31, 2038
City of Broussard	March 5, 1998	40	July 31, 2038
Milton Water System	April 28, 1997	40	April 28, 2037
City of Youngsville	December 24, 1998	40	December 24, 2038
Waterworks District South	October 13, 1995	40	October 12, 2035
City of Carencro (1)	March 28, 1980	N/A	None

Source: LUS

5.8 Utility Benchmarking

5.8.1 Utility Rates

LUS's residential and commercial water rates have historically been among the lowest in the state and surrounding region. Table 5-20 and Table 5-21 provide a regional comparison of effective water rates for residential and commercial customers, respectively.

⁽¹⁾ Letter Agreement with the City of Carencro on an emergency back-up basis. The rate charged will be the same as the current City of Scott rate. As per information received from LUS's Water System, LUS supplied water to the City of Carencro under this letter agreement fewer than five times.

Table 5-20: Residential Rate Comparison

	Average			
Utility	(\$/1,000 gallon			
LUS	\$	2.64		
Alexandria	\$	3.19		
Lake Charles	\$	3.55		
Shreveport	\$	3.72		
Baton Rouge	\$	4.37		
New Iberia	\$	5.39		
New Orleans	\$	9.79		

Source: LUS. Rates as of October 2021.

Table 5-21: Commercial Rate Comparison

-			
	Average		
Utility	(\$/1,000 gallons)		
LUS	\$	2.97	
Alexandria	\$	3.27	
Shreveport	\$	4.28	
Lake Charles	\$	4.55	
Baton Rouge	\$	4.66	
New Iberia	\$	5.39	
New Orleans	\$	9.77	

Source: LUS. Rates as of March 2022.

LUS last completed a rate study in 2016, indicating the need to increase Water System rates to adequately cover its costs. Retail rates were increased 7.4 percent effective November 1, 2016, and 7.2 percent effective November 1, 2017. Retail rates have remained unchanged since then. LUS is currently in the process of completing a water rate study from which results are anticipated to be finalized in the summer of 2022. LUS is contemplating proposing new rates for FY 2023.

Wholesale rates are evaluated every other year through a cost-of-service study. The next cost of service study for wholesale water rates is scheduled to occur later in 2022.

5.8.2 Financial and Operating Statistics

The American Water Works Association ("AWWA") annually publishes benchmarking data across a variety of performance indicators for water and wastewater utilities. The 2021 AWWA Utility Benchmarking: Performance Management for Water and Wastewater was released in early 2022, compiling various financial and operating ratios from 2020. For this analysis, specific ratios were

⁽¹⁾ Assumes monthly water consumption of 7,000 gallons.

Assumes monthly water consumption of 30,000 gallons.

obtained from the AWWA report representing national and regional medians. The AWWA defines national metrics as water utilities in both the United States and Canada, hereafter referred to as "National." Ratios are also available by region and by number of water customers served. The U.S. South region was used, which includes Louisiana and is hereafter referred to as "Regional." Further, ratios are available specifically for water utilities, wastewater utilities, and combined water and wastewater utilities. Where possible, comparisons have been made to water utility ratios. However, some LUS balance sheet information is available only for the combined Electric, Water and Wastewater Utilities System, hereafter referred to as "Combined." The AWWA "Combined" benchmarking data only includes water and wastewater utilities.

LUS's operating ratio benchmark results are presented in Table 5-22. LUS's water operational costs are lower than the National and Regional medians. LUS's combined debt ratio is lower than the Regional median, but higher than the National median. The operating ratio is higher on both a water-only and combined basis than either the National or Regional medians. However, the AWWA combined utilities median includes water, wastewater, and storm water, while LUS includes water, wastewater and electric. LUS's cash reserves are lower than the National and Regional medians. Debt service coverage for LUS is higher than either the National or Regional medians on both a water-only and combined basis.

Table 5-22: Benchmarked Water Utility Operating Ratios

		National ⁽¹⁾	Regional	LU	JS
Statistics	Basis	2020	2020	2020	2021
Operational Costs per MG	Water	\$2,751	\$2,541	\$1,578	\$1,631
Debt to Total Assets (Debt Ratio)	Combined	0.30	0.51	0.36	0.34
Operating Ratio (O&M cost/ Operating revenue)	Water	0.49	0.50	0.62	0.64
Operating Ratio (O&M cost/ Operating revenue)	Combined	0.49	0.51	0.67	0.71
Cash Reserve Days ⁽²⁾	Combined	486	436	48	51
Debt Service Coverage	Water	3.48	2.40	3.75	3.66
Debt Service Coverage	Combined	2.96	1.91	2.99	2.82

Source: AWWA and LUS

5.9 Historical Financial Performance

Table 5-23 presents historical debt service and the associated DSCR. Historical Water System debt service as shown below includes a portion of the Series 2012 Bonds, Series 2017 Bonds, and Series 2019 Bonds. The Series 2010 Bonds were fully redeemed by the proceeds of the Series 2017 Bonds on

⁽¹⁾ National AWWA benchmarks for water and combined water and wastewater utilities with 50,001 to 100,000 customers to align with the Water System customers served.

⁽²⁾ LUS results based on total O&M for Electric, Water, and Wastewater Systems less fuel and purchased power expenses.

November 1, 2020. In each year since 2017, the DSCR exceeded the minimum coverage requirement of 1.0 required by the Bond Ordinances.

Table 5-23: Historical Financial Performance

Fiscal Year	Operating Revenues (1)	Operating Expenses (2)	Net Revenues Available for Debt Service	Debt Service (3)	Debt Service Coverage Ratio
2017	19,822,196	13,965,819	5,856,377	1,415,916	4.1
2018	21,736,544	14,260,225	7,476,319	1,726,379	4.3
2019	21,369,475	14,227,206	7,142,269	1,899,168	3.8
2020	21,696,556	13,159,106	8,537,450	2,276,675	3.7
2021	21,904,303	13,833,990	8,070,313	2,207,678	3.7

Source: LUS Financial and Operating Statements

- (1) Operating Revenues include interest income and other miscellaneous income.
- (2) Operating Expenses include O&M and other expenses such as customer service and A&G costs. Operating Expenses do not include ILOT, normal capital and special equipment, and other miscellaneous expenses.
- (3) Debt Service was prepared on a cash basis for this table and includes a portion of the Series 2012 Bonds, Series 2017 Bonds, and Series 2019 Bonds. The Series 2010 Bonds were fully redeemed by the Series 2017 Bonds on November 1, 2020.

5.9.1 Rate Structures

The Water System provides service to retail and wholesale customers. Wholesale customers are outside the City limits and are served on a contract basis. Retail customers are served both inside and outside the City limits. Water System customer classes include residential, commercial, schools and churches, and special contract customers for bulk water. The Water System rate structure for retail customers includes a customer charge that varies based on the meter size, and a commodity charge that is based on usage in thousand gallons. The commodity charge for Residential customers includes a uniform rate per thousand gallons in the winter period (December through March) and an inclining block rate structure in the summer period (April through November). Table 5-24 presents the retail rate schedule for LUS.

Summer Summer Monthly Commodity Customer Winter Commodity Rate Rate Tier 2 Commodity Meter Size Charge Commodity Rate Tier 1 (\$/1,000 (\$/1,000 Rate (\$/1,000 Rate Class Serves Effective Date (inches) (\$/month) (\$/1,000 gallons) gallons) gallons) gallons) W-1 Residential Nov-17 0.75 \$5.55 \$1.70 \$1.70 \$2.70 NA 1.00 \$9.25 \$1.70 \$1.70 \$2.70 NA 1.50 \$18.50 \$1.70 \$1.70 \$2.70 NA 2.00 \$29.60 \$1.70 \$1.70 \$2.70 NA 3.00 \$55.50 \$1.70 \$1.70 \$2.70 NA 4.00 \$92.50 \$1.70 \$1.70 \$2.70 NA 6.00 \$185.00 \$1.70 \$1.70 \$2.70 NA 8.00 \$2.70 \$296.00 \$1.70 \$1.70 NA W-1-0 Residential Non-City Nov-17 0.75 \$11.10 \$3.40 \$3.40 \$5.40 NA 1.00 \$18.50 \$3.40 \$3.40 \$5.40 NA 1.50 \$37.00 \$3.40 \$3.40 \$5.40 NA 2.00 \$59.20 \$3.40 \$3.40 \$5.40 NA W-2 Commercial Nov-17 0.75 \$5.55 NA NA NA \$1.95 1.00 \$1.95 \$9.25 NA NA NA 1.50 \$18.50 NA NA NA \$1.95 2.00 \$29.60 NA NA NA \$1.95 3.00 \$55.50 NA NA \$1.95 NA 4.00 \$92.50 NA NA NA \$1.95 6.00 \$185.00 NA NA NA \$1.95 8.00 \$296.00 NA NA NA \$1.95 W-2-0 Commercial Non-City Nov-17 0.75 \$11.10 NA NA NA \$3.90 1.00 NA NA NA \$3.90 \$18.50 1.50 \$3.90

Table 5-24: **Retail Rate Schedules**

5.9.2 **Revenue Analysis**

Table 5-25 presents the Water System revenues. The total retail revenues increased by 4.8 percent in 2017 and 6.9 percent in 2018 due primarily to rate increases. The revenues decreased by 2.7 percent in 2019 due to lower sales. In 2020, total retail revenues increased 0.8 percent, with higher Residential sales and revenues largely offset by lower sales and revenues from non-residential classes, a dynamic influenced heavily by the onset of the COVID-19 pandemic. FY 2021 revenues swung in the opposite direction with a 1.3 percent decrease in retail revenues. The decline in retail revenues was more than offset by increases in wholesale revenues in FY 2021.

\$37.00

\$59.20

2.00

NA

NA

NA

NA

NA

NA

\$3.90

Table 5-25: Retail Revenues by Class

	2017	2018	2019	2020	2021
Revenues					
Residential	\$7,796,049	\$8,410,699	\$8,181,849	\$8,515,274	\$8,278,311
Commercial	5,319,854	5,543,239	5,464,127	5,355,309	5,387,432
Schools & Churches	537,322	632,392	534,520	473,545	495,568
Other	209,454	234,910	244,873	200,216	197,356
Total	\$13,862,679	\$14,821,240	\$14,425,369	\$14,544,345	\$14,358,667
Number of Customers					
Residential	42,693	42,929	44,633	43,627	44,033
Commercial	6,647	6,671	6,899	6,824	6,857
Schools & Churches	305	312	317	317	322
Other	284	283	281	285	287
Total	49,929	50,195	52,130	51,054	51,498
Revenue per Customer					
Residential	\$183	\$196	\$183	\$195	\$188
Commercial	800	831	792	785	786
Schools & Churches	1,763	2,028	1,685	1,494	1,539
Other	739	831	871	702	687
Total	\$278	\$295	\$277	\$285	\$279
Sales (1000 gallons)					
Residential	2,714,031	2,735,228	2,561,224	2,681,717	2,616,072
Commercial	2,342,707	2,243,690	2,237,397	2,130,776	2,176,190
Schools & Churches	236,557	289,301	248,388	187,246	198,768
Other	89,152	95,333	101,596	76,143	72,736
Total	5,382,447	5,363,552	5,148,605	5,075,882	5,063,766
Sales (1000 gallons) per Customer					
Residential	64	64	57	61	59
Commercial	352	336	324	312	317
Schools & Churches	776	928	783	591	617
Other	314	337	361	267	253
Total	108	107	99	99	98
Revenue per 1000 gallon					
Residential	2.87	3.07	3.19	3.18	3.16
Commercial	2.27	2.47	2.44	2.51	2.48
Schools & Churches	2.27	2.19	2.15	2.53	2.49
Other	2.35	2.46	2.41	2.63	2.71
Total	2.58	2.76	2.80	2.87	2.84

Source: LUS Financial and Operating Statements

5.9.3 Expense Analysis

Table 5-26 shows historical water operating expenses, distinguished between fixed and variable costs. Variable operating expenses within Power & Pumping include purchased power costs, while variable operating expenses within Purification include chemical costs. Fixed operating expenses include Source of Supply, a portion of Power & Pumping and Purification, Distribution, Customer Service, and Administrative and General ("A&G") expenses. Historically, variable expenses average between 21 and 22 percent of total expenses.

2017 2018 2019 2020 2021 Variable Expenses Power & Pumping \$464,538 \$461,177 \$461,845 \$465,557 \$514,181 2,675,900 Purification 2,556,678 2,587,531 2,372,173 2,371,988 Total Variable Expenses \$3,017,855 \$3,052,070 \$3,137,745 \$2,837,730 \$2,886,168 Fixed Expenses Source of Supply \$191,113 \$175,620 \$183,896 \$179,867 \$198,013 Power & Pumping 296,324 303,191 268,334 274,159 299,671 Purification 1,929,383 1,971,597 1,871,480 1,716,917 1,862,694 Distribution 2.619.286 2.884.033 2.889.727 2.098.086 2.174.002 Customer 1,219,158 1,172,251 1,295,339 1,446,359 1,128,205 A&G 4,811,643 4,661,424 4,668,916 4,757,007 4,967,083 **Total Fixed Expenses** \$10,947,964 \$11,208,155 \$11,089,461 \$10,321,376 \$10,947,822 Total Fixed & Variable \$13,965,819 \$14,260,225 \$14,227,206 \$13,159,106 \$13,833,990 Percent Variable 22% 21% 22% 22% 21% 78% 79% 78% 78% Percent Fixed 79%

Table 5-26: Historical and Variable Expense Summary

Source: LUS Financial and Operating Statements

5.9.4 Recovery of Costs

Water system retail sales are affected by weather, economic conditions, and perhaps most notably in 2020 and 2021, the COVID-19 pandemic. Volatility of water demand caused by these dynamics can impact the stability of revenues. As presented in Table 5-26, expenses are largely fixed and are generally not as susceptible to weather or economic variances. However, overall expenses were lower in 2020 and 2021 as LUS strategically minimized expenses considering the COVID-19 pandemic. Regardless of the underlying cause, the predominately fixed-cost nature of the Water System cost structure and the highly variable nature of its revenue stream can put pressure on utility cash flows when demand is disrupted. The mismatch between a high fixed cost structure and a high variable cost revenue stream is a common challenge in the water utility industry.

5.10 Observations and Recommendations

Based on the analysis described herein, Burns & McDonnell presents the following observations and recommendations.

- Based on visual inspection of facilities, review of records, and interviews of LUS staff, the LUS water treatment facilities are in good condition, maintained properly and in accordance with industry practices.
- The organizational structure and management of the water system engineering and operations areas
 appears to be strong based on initial observations, interviews, organizational structures, and
 manpower within each department.

- Burns & McDonnell is currently completing a rate study for LUS and the proposed rate plan is
 expected to be approved before the end of FY 2022. The rate study is being completed to review
 existing and projected cost levels and set rate revenues to maintain financial performance.
- Within the current water rate study, LUS is evaluating increasing its fixed cost recovery in its Water
 System revenue streams to improve overall revenue stability.
- LUS is planning to issue new bonds in FY 2023 to support various electric, water, and wastewater
 projects. The bond funding anticipated is reasonable and appropriate to fund these projects and the
 forecasted revenues represented in the continuing disclosure financial projections are expected to be
 able to fund the new debt service associated with the new bonds.
- The Water Sector Program was created in 2021 by the State of Louisiana to provide grant funding for repairs, improvements and consolidation of community water and sewer systems around the state.
 \$300 million from the American Rescue Plan Act was provided to the program. LUS submitted applications to the program in late 2021. In January 2022 LUS was notified that it was awarded a total of approximately \$4.67 million in grant funding for one (1) water project.
- Retail sales of water have decreased recently. However, retail sales reductions have been partially
 offset by wholesale sales increases, with wholesale sales representing 28 to 30 percent of total sales
 over the last five years. LUS coordinates closely with its wholesale customers regarding growth for
 planning purposes and should continue to do so.
- LUS has begun preparing for operational changes brought about by the LCRR, specifically in developing a lead service line ("LSL") inventory and revisions to the lead and copper sampling. Per the LCRR, all systems with any LSLs shall prepare and submit to the state a LSL Replacement Plan by October 16, 2024. LUS has kicked off an effort to develop a service line inventory to support development of a LSL Replacement Plan to meet the requirements of the LCRR.
- With relatively steady water production and a general decline in water sales, unaccounted for water has increased from 7.4 percent in 2016 to 12.5 percent in 2020, and then 12.6 percent in 2021. Overall unaccounted for water (i.e., losses) on a percentage basis have increased over the last four years. A comprehensive report on water loss in the LUS distribution system is being prepared by Water Company of America.
- For both the SWTP and NWTP, additional ground storage could be considered, as each have a single tank that is unable to be taken out of service for maintenance. The five-year capital improvement program has identified budgets for these improvements. A project at the SWTP is planned for 2024

and a project for the NWTP is planned for 2026.

- For both the South Water Treatment Plant and North Water Treatment Plant, LUS could consider implementing additional safety measures for chlorine gas cylinders in the event of a pressurized discharge. Potential safety measures could include using containment vessels for in-use cylinders or a scrubber system to ensure that a chlorine gas leak is safely contained. Currently, there are no provisions to contain a pressurized leak other than on-call services by the chlorine gas supplier.
- Both the South Water Treatment Plant and North Water Treatment Plant lack the ability to provide
 full backup power with existing generators. LUS could consider installing additional emergency
 power to meet the full power load requirement of the plant during an outage. A project to add backup
 power for the NWTP is identified in 2024 per the LUS five-year capital improvement program.
- The 16-inch diameter finished water pipeline that conveys water out of the North Water Treatment Plant to the distribution system presents a hydraulic bottleneck and restricts the amount of finished water able to leave through that line. LUS could consider developing a program to replace the lines in this area. LUS could consider beginning with lines near the North Water Treatment Plant because those are the oldest. Timing of line replacements near the North Water Treatment Plant could be performed concurrently with future road replacement project(s) in the area.
- LUS could consider using a product of at least 70 percent orthophosphate (and 30 percent polyphosphate) as opposed to the currently used polyphosphate to provide corrosion control for the treatment facilities.
- LUS could consider reevaluating the pre-chlorination process at the Gloria Switch Remote Site as it is
 redundant to the permanganate and Greensand filtration. Additionally, redundant unit(s) could be
 added to the Greensand filters, as the current units are all required for full treatment capacity and
 cannot be taken out of service.
- LUS last completed a Water Master Plan in 2001. Due to development that has occurred since then, LUS should plan to update its master plan to project future growth and associated water flow rates; assess existing and future water system capacity needs; and identify long-term capital improvements required for future development, system expansion, and condition-related improvements. The results of that assessment could be used to further develop capital improvement planning to address critical assets over a long-term period, with targeted strategies to address high-priority items. This effort could include planning for renewal and replacement of aging infrastructure over its anticipated service life.

6.0 WASTEWATER UTILITY SYSTEM

6.1 Wastewater Utility Summary

LUS provided wastewater conveyance, treatment, and sludge management and disposal services to 46,681 retail customers in 2021. Key infrastructure includes 693.6 miles of sanitary sewer mains, 198 lift stations, four wastewater treatment plants, and sludge management and disposal facilities. The total combined permitted treatment capacity of the four plants is 18.5 MGD, while the total combined flow holding capacity at the four plants is 38.5 M gallons. LUS is also responsible for operating and maintaining approximately 23 small package wastewater treatment plants that primarily serve subdivisions and rural areas into the main LUS Wastewater System.

Wastewater system collected flow increased in 2021 by 15 percent compared to 2020 flows. Historical Wastewater System collected flows are shown in Table 6-1.

Table 6-1: Wastewater System Historical Retail Collection

Fiscal Year	(1000 gallons)
2017	5,768,832
2018	5,326,815
2019	5,746,278
2020	5,498,088
2021	6,328,515

Source: LUS Financial and Operating Statements

6.2 Wastewater Treatment

LUS owns and operates four wastewater treatment plants ("WWTPs"): the South Sewage Treatment Plant ("SSTP"), the East Sewage Treatment Plant ("ESTP"), the Ambassador Caffery Treatment Plant ("ACTP"), and the Northeast Treatment Plant ("NETP"). The combined average day treated flowrate for these WWTPs in 2021 was 17.35 MGD and the total permitted capacity is 18.5 MGD as summarized in Table 6-2.

⁽¹⁾ The Wastewater System does not provide wholesale service.

⁽²⁾ Retail Collection is not associated with the gallons used for billing wastewater customers.

2021 Permitted Wet-Weather Average Day Facility Capacity Storage Capacity Flow (MGD) (MG) (MGD) South Sewage Treatment Plant 5.74 7.0 3.5 East Sewage Treatment Plant 3.68 3.0 4.0 Ambassador Caffery Treatment Plant 6.64 $6.0^{(1)}$ 7.0 Northeast Treatment Plant 1.29 1.5 25.0 17.35 18.5 38.5

Table 6-2: Wastewater Treatment and Storage Summary

Source: LUS

The LUS wastewater system is a separate sanitary sewer system, consisting of an interconnected network of piping and lift stations that conveys sewage to the City's WWTPs. LUS staff have indicated the majority of wastewater treated at the WWTPs is domestic wastewater, with relatively little industrial wastewater flows. During wet weather events with large amounts of precipitation, the WWTPs may be undersized to completely treat peak flows associated with storm water and groundwater, known as inflow and infiltration (I&I), that enters the sanitary sewer system through cross connections with storm water sources or cracks in pipes or manholes. Influent flow exceeding the WWTPs peak design flow capacity is diverted to on-site wet weather basins. Wastewater diverted to the wet weather basins is stored and treated by the WWTPs when wet weather flows subside. Wet weather flows are generally treated as if they are typical sewage. Influent flow exceeding the capacity of the on-site wet weather basins may be bypassed around biological treatment processes but is disinfected prior to discharge to the Vermillion River, but this occurs very rarely only during an extreme weather event.

Since wastewater treatment uses microorganisms for removal of organics, a portion of the biomass waste or sludge streams must be continuously removed from the WWTPs. Final disposal of biosolids (i.e., dewatered sludge from the WWTPs) is accomplished by land application at several farms in the Lafayette area. Three of the WWTPs use mechanical dewatering devices to further concentrate the solids (to approximately 22 to 27 percent solids by weight) and reduce the total volume of biosolids to be landapplied. The NETP does not use mechanical dewatering and the resulting land-applied biosolids are approximately 2 to 3 percent solids by weight.

The Louisiana Department of Environmental Quality (LDEQ) has limited discharge loading into the Vermillion River. As such, treatment of wastewater needs to be performed to levels that reduce the 5-day carbonaceous biological oxygen demand ("BOD5"), total suspended solids ("TSS"), and ammonia in the effluent streams of the WWTPs, in accordance with each facility's LPDES permit.

¹ Permitted capacity is 6.0 MGD; however, plant treatment capacity is 9.25 MGD.

The projected capital improvement program for wastewater treatment from 2022 to 2026 is summarized in Table 6-3. Specific projects indicated in the program include headworks rehabilitation at ACTP and NETP; clarifier rehabilitation at NETP; digester rehabilitation at ESTP and SSTP; a digester tank at ACTP; installation of a sludge drying facility at ESTP; modifications to the plant discharge at NETP; flow meters; expansion of NETP for additional capacity; rotating screens at ACTP and SSTP; a Sewer System Master Plan; and a sludge holding tank at NETP. A major project to install sludge handling equipment and new aerobic digesters at the SSTP is underway. Future phases, including flow handling and odor control improvements, are planned from 2023 to 2025. In addition to these specific projects, LUS has established annual allocations for various treatment projects and property purchases.

Table 6-3: Wastewater Treatment Projected CIP

	2022	2023	2024	2025	2026	Total
Wastewater Treatment Total	\$2,570,000	\$20,410,000	\$5,410,000	\$11,360,000	\$360,000	\$40,110,000

Source of data: LUS Five-Year Capital Improvement Program (Utilities System)

6.2.1 South Sewage Treatment Plant

The SSTP treated an average flowrate of 5.7 MGD in 2021 and is permitted to treat up to 7 MGD. The SSTP headworks currently receives wastewater from the on-site main pump station and the primary force main from the Acacia Lift Station across the Vermillion River. All influent flows pass through rotary screens and vortex grit removal processes to separate large debris and sediment from the water to improve treatability. After pretreatment, the SSTP flow splits between two treatment trains: the East Side train and the West Side train. Each train uses activated sludge (i.e., a mixture of microbial organisms and sewage which are oxygenated for nutrient removal) followed by circular clarifier basins and chain-and-flights final clarifiers. Treated water is then disinfected with chlorine, and finally dechlorinated prior to discharge to the Vermillion River. The SSTP does not have any means to actively control odor at the plant. During wet weather events, the SSTP is configured to segregate influent flow into an on-site 3.5 M gallon wet weather storage basin.

The sludge goes through aerobic digestion (i.e., biological digestion of nutrients in the presence of both free and bound oxygen) and anaerobic digestion (i.e., biological digestion of nutrients in absence of both free and bound oxygen) to further breakdown organic content. Digested sludge is then dewatered by a belt filter press. The solids from the belt filter press are then land applied, and the liquid stream is sent back to the plant headworks.

LUS is implementing a major effort to increase treatment capacity at the SSTP in phases. A recently completed sludge processing building with new belt filter presses and new aerobic digesters under construction were observed during the February 2022 site visit. LUS is developing a project to be

delivered under a subsequent phase. Wastewater currently processed at the ACTP will be transferred to the SSTP through a recently constructed force main from the Old Maurice Lift Station and treated at the SSTP by new sequenced batch reactors (SBRs) to be constructed in the future when funding allows.

6.2.2 East Sewage Treatment Plant

The ESTP receives waste flows along the I-49 corridor area of Lafayette and has a permitted capacity of 4 MGD. In 2021, the average treated flow was 3.68 MGD. Wastewater flows into the ESTP dry pit area via gravity and is pumped from the dry pit to the plant headworks. Treatment at the ESTP consists of rotary screens and diffused air grit removal for pretreatment, followed by primary clarifiers, oxidation ditches, final clarifiers, chlorine disinfection, and dechlorination. Sodium hypochlorite is used for disinfection. Treated effluent is stored in an on-site tank for non-potable uses or discharged to the Vermillion River. During wet weather events, the ESTP is configured to segregate influent flow into an on-site 3.0 M gallon wet weather storage basin.

The sludge goes through a thickening process followed by anaerobic digestion (i.e., biological digestion of nutrients in absence of both free and bound oxygen) to further breakdown organic content. Digested sludge is then dewatered by a belt filter press. The solids from the belt filter press are then land applied, and the liquid stream is sent back to the plant headworks. A segment of land at the Vermillion Conference Center, adjacent to the ESTP, will be utilized for sludge drying in the future.

During the February 2022 site visit, LUS staff reported that maintaining temperature in the anaerobic digesters is challenging during winter months and expressed interest in installing another boiler at the ESTP. LUS staff also expressed interest in transitioning to aerobic digestion due to its relative ease of operation. Lastly, LUS staff indicated that LUS has purchased land adjacent to the plant that is anticipated to be used to relocate existing structures when a major expansion of I-49 is implemented. The timing of the I-49 expansion is unknown at this time.

6.2.3 Ambassador Caffery Treatment Plant

The ACTP treated an average flow rate of 6.64 MGD in 2021 and is permitted to treat up to 6 MGD (the design capacity of this plant is 9.25 MGD). Wastewater flows into the ACTP through a gravity-fed dry pit area which is then pumped from the dry pit to the plant headworks, or through a collection of force mains which pump directly to the plant headworks. Pretreatment at the ACTP consists of rotary screens and vortex grit removal. Flow is then split to two different aerobic treatment processes, sequencing batch reactors (SBRs) and oxidation ditches, followed by final clarifiers, chlorine disinfection, and

dechlorination. During wet weather events, the ACTP is configured to segregate influent flow into an onsite 7 M gallon wet weather storage basin.

Sludge is treated through a thickening process followed by anaerobic digestion to further breakdown organic content in the sludge. Digested sludge is then dewatered by a spiral screw press, which is aided by addition of a polymer. The solids from the screw press are then land applied, and the liquid stream is sent back to the plant headworks.

During the February 2022 site visit, LUS staff reported that maintaining temperature in the anaerobic digesters is challenging during winter months and expressed interest in installing another boiler at the ACTP. LUS staff also expressed interest in transitioning to aerobic digestion due to its relative ease of operation.

6.2.4 Northeast Treatment Plant

The NETP treated an average flow rate of 1.29 MGD in 2021, which is slightly less than the permitted capacity of 1.5 MGD. Wastewater flows into the NETP headworks through a collection of local force mains. Pretreatment at the NETP consists of stepping screens and bypass screens and a vortex grit removal chamber. Flow is aerobically treated in oxidation ditches, followed by final clarifiers, chlorine disinfection, and dechlorination using sulfur dioxide. During wet weather events, the NETP is configured to segregate influent flow into an on-site 25 M gallon wet weather storage basin.

The sludge is mixed with lime via a paddle wheel mixer to produce a homogenized mixture of stabilized sludge to produce Class B biosolids. Addition of lime increases the pH to effectively kill pathogens and microorganisms, in addition to providing some loss of moisture content. The stabilized lime mixture is then land-applied. A 20-acre pond for lime solids holding located at the NETP is used to store solids trucked from the South Water Treatment Plant and North Water Treatment Plant during rainy conditions that will not allow for the general disposal on land farm sites.

During the February 2022 site visit, a new force main was observed to have been recently constructed to the NETP headworks. LUS staff reported that the new force main is not yet operational, but when brought online, will convey wastewater from the Brown Park Lift Station. The stepping screen was observed to be out of service. LUS staff reported that both final clarifiers must be operational in order to maintain the plant's capacity and meet LPDES permit discharge limits. This limits staff's ability to complete maintenance activities due to needing to keep both clarifiers in service.

6.3 Wastewater Collection

As described previously, the LUS wastewater system is a separate sanitary sewer system conveying domestic and industrial sewage. Surface runoff is conveyed through a separate system. The topography of the service area is relatively flat and spans both sides of the Vermillion River. Due to the topography and geographic boundary of the river, the LUS wastewater collection system uses a significant number of lift stations to maintain hydraulic grade line (i.e., overcome natural drainage patters due to gravity) via pumping. Approximately 30 percent of lift stations are self-priming style suction lift stations, and the remainder are submersible lift stations of various functionality. In recent years, the increasing number of connections and associated pipe, manholes, and lift stations is due to LUS providing sewer service to an increasing amount of new land development. The wastewater collection system infrastructure is summarized in Table 6-4.

-					
	2017	2018	2019	2020	2021
Number of Connections	45,034	45,436	45,942	46,380	47,032
Miles of Pipe 1	665	673	692	688.4	693.6
Number of Manholes	12,538	12,716	12,868	13,008	13,120
Number of Lift Stations	185	188	190	195	198

Table 6-4: Wastewater Collection System Assets

Source of data: LUS data, February 16, 2022

Engineering design of significant wastewater system infrastructure is typically delegated to consultant engineering firms. Some limited design tasks are performed by LUS staff. Lift stations ("LS") that need upgrades or rehabilitation are the Thomas Park LS, and the Alice Drive LS. The design of the improvements to Thomas Park LS design will be completed by the end of the year. Replacement of the Alice Drive LS will follow replacement of the Thomas Park LS.

Wastewater infrastructure (i.e., gravity pipes, force mains, and pump stations) in the downtown and geographically-central areas of the City are undersized to accommodate the recent land development and population density changes in these parts of the service area. The City has largely ceased new housing development in the downtown area because the infrastructure cannot meet conveyance needs. The design project for a new sewer lift station and 20-inch force main to the SSTP is in progress. This project will require a new 20-inch force main and is expected to take at least two years. Although the state government owns some property along the proposed routing, LUS has encountered challenges with acquiring property for the lift station and force main routing. Additionally, the SBRs at the SSTP are being evaluated to handle new and future capacity associated with housing development in the downtown area.

⁽¹⁾ Includes gravity sewers and force mains; does not include service laterals.

The older, aging, lift stations in the LUS inventory are primarily wet-pit and dry-pit style, with the newer lift stations being submersible style. Improvements to the aging lift stations are being evaluated to convert these to suction-lift style. There are on-going efforts to improve the resiliency of the lift stations by adding quick-connection fittings to the discharge piping, which allow for operators to use a portable pump to convey wastewater flows in the event of a power outage. Lift station telemetry (i.e., remote-collection and transmission of data) equipment is not uniform, with 40 lift stations having fiber optic transmission, 50 lift stations having cellular transmission, 30 lift stations having no telemetry, and the remainder (including package plants) have Mission auto-dialers.

The projected capital improvement program for wastewater collection from 2022 to 2026 is summarized in Table 6-5. Specific projects indicated in the program include:

- Improvements (rehabilitation or replacement) of the Alice Drive, Beaver Park, Brown Park, Elan,
 Failla, Farrel Road, Locksley, Omega, Republic, S. College, Thomas Park, and Verot lift stations
- Improvements (rehabilitation or replacement) of the Donlon and W. Pon Des Mouton gravity sewers
- Upgrades to the Consolidated Sewerage District, Kaliste Saloom, Northeast Interceptor, S. Bernard Road, South gravity sewer, and Town Center Parkway sewer to provide additional capacity
- Improvements (rehabilitation or replacement) of the Brown Park, Elan, Failla, Peck, Pont Des Mouton, and S. Meyers force mains
- Construction of a building to support collection system operation and maintenance activities

In addition to these specific projects, LUS has established annual allocations for various collection system items, including collection system equipment; I/I elimination; collection system improvements; and upgrades to lift station components (e.g., control panels, equipment, odor control, telemetry). LUS also budgets annual expenditures for sewer system betterments to support proposed developments and sewer easements.

Table 6-5: Wastewater Collection Projected CIP

	2022	2023	2024	2025	2026	Total
Wastewater Collection Total	\$3,810,000	\$6,365,000	\$10,265,000	\$3,565,000	\$3,415,000	\$27,420,000

Source of data: LUS Five-Year Capital Improvement Program (Utilities System)

6.3.1 Operations and Related Performance

6.3.1.1 COVID-19

In the early stages of the COVID-19 pandemic, LUS modified basic operations of the utility to keep nonessential personnel at home when possible. To the extent possible, operations staff were separated to provide that, in the event of an outbreak, staff would not get infected at the same time. LUS staff reported that operations largely returned to a pre-pandemic "normal" in 2021.

6.3.1.2 Capacity, Management, Operations, and Maintenance Program

The EPA performed an audit of LUS's sanitary sewer system in April 2017 which included the wastewater master plan, flow studies, and a tour of the four wastewater plants and some lift stations. Resulting from the audit, an Administrative Order ("AO") was issued effective April 24, 2018. A general summary of the requirements included in the AO is presented in Table 6-6.

Table 6-6: Administrative Order Requirements and Status

AO Requirement	Description	Status
А	Report information regarding sanitary sewer overflows (SSOs) to LDEQ	Ongoing; included within monthly DMR submittals
В	Remove excess scum and solids from the final clarifier at the South WWTP	Previously Completed
С	Install a fence or signs at the Beaver Park retention pond	Previously Completed
	Implement multiple utility operation and maintenance (O&M) procedures, programs, and inventories	
D.1	Standard operating procedure for lift station inspections	Previously Completed
D.2	Training program for staff participating in collection system O&M	Previously Completed
D.3	Critical parts inventory for lift stations and pumps	Previously Completed
D.5	Tracking lift station O&M activities in LUS's asset management program	Previously Completed
	Repair deficient lift station items identified during the April 2017 EPA inspection	
D.4	Alarm and housekeeping items	Previously Completed
D.6	Bypass quick connect at the Greenbriar lift station	Previously Completed
D.7	Condition-related items at the Farrel lift station	Previously Completed
	Implement Programmatic Initiatives	
D.8	Clean all pipes and manholes in a 10-year rotation beginning November 1, 2020, and completed by November 1, 2030	Ongoing (see below)
D.9	Inspect all pipes and manholes in a 10-year rotation beginning November 1, 2020, and completed by November 1, 2030	Ongoing (see below)
D.10	Rehabilitate defective pipes and manholes discovered during the inspection program within 3 years of defect discovery. All rehabilitation must be completed by November 1, 2033.	Ongoing (see below)
E	Develop and implement a Capacity, Management, Operations, and Maintenance Program ("CMOM") Program by May 1, 2020	Ongoing (see below)
F	Submit annual progress reports to EPA	Ongoing; Reports have been submitted for 2020 and 2021

LUS submitted its CMOM plan to EPA in February 2020 and has been implementing Collection System Management, Collection System Operations, Collection System Maintenance, and Collection System Capacity Evaluation best practices and procedures to address the requirements of the AO. The CMOM portion of the AO required LUS to begin cleaning and inspection activities by November 1, 2018. Since January 1, 2020, a minimum of 10 percent of all pipes must be inspected every year.

LUS uses Sewer Line-Rapid Assessment Tool acoustic technology and CCTV to inspect pipes and manholes. In 2021, approximately 16 percent of pipe inspections were completed LUS staff with approximately 84 percent completed by outside contractors. LUS staff completed approximately 55 percent of manhole inspections with contractors completing approximately 45 percent. Pipe and manhole cleaning is completed in conjunction with inspection activities. LUS prioritizes repairing manholes and pipes using the Point Repair Priority Scores and Definitions and Manhole Repair Priority Scores that were developed as part of the CMOM plan.

LUS must submit annual progress reports to EPA describing actions taken and progress made in complying with AO requirements. A summary of the percentage of pipe and manholes cleaned and inspected is provided in Table 6-7.

Table 6-7: Cleaning and Inspection Progress (% of System)

	2020	2021
Pipe Inspected	10.5%	11.2%
Pipe Cleaned	10.7%	11.2%
Manholes Inspected	17.7%	11.4%
Manholes Cleaned	Indeterminate 1	15.8%

Source of data: LUS Annual Reports to EPA

LUS was rehabilitating defective pipes and manholes in a prioritized manner prior to issuance of the AO and is now assigning work orders and tracking them to confirm that rehabilitation is completed within 3 years of discovery. Some point repairs and manholes are completed by LUS staff. In other cases, LUS prepares contract packages for manhole rehabilitation/repair, cured-in-place-pipe (CIPP) rehabilitation, and point repair rehabilitation. LUS reported that a total of 12,373 feet of pipe and 21 manholes were repaired or rehabilitated in 2021.

LUS has increased its budget for inspection, cleaning, and repair and/or rehabilitation to address the requirements of the AO. Expenditures in the early years are expected to help confirm forecasts of the total cost associated with the entirety of the program.

^{(1) 2020} Progress Report does not indicate number of manholes cleaned.

6.3.1.3 Biosolids and Land Application

LUS's biosolids activities are permitted under LDEQ Sewage Sludge and Biosolids Use or Disposal Permit No. LAJ020125. The current permit expired on May 1, 2021. LUS filed for permit renewal in November 2020 and is waiting for LDEQ to issue a revised permit.

Waste sludge generated at each of the wastewater treatment plants is treated to Class B biosolids standards and dewatered prior to transport to a land application site. Currently, LUS applies biosolids on privately-owned farmland. The right to use such land is secured through land-use agreements which are typically year-to-year leases with a 30-day end-notice.

Due to the nature of land-use agreements, staff cannot always access the sites to apply the biosolids when needed. LUS is required to accommodate farming activities such as crop and livestock rotation, and any needed access during inclement weather. As a result, LUS is required to lease more acreage than is physically necessary for the amount of biosolids produced. A summary of the land leased and used for biosolids application over the past 5 years is presented in Table 6-8.

2017 2018 2019

Table 6-8: Biosolids Application And Land Use

	2017	2018	2019	2020	2021
Total Biosolids Generated (dry tons)	1,708.6	1,563.1	1,796.5	1,803.7	2,062.8
Total Biosolids Land Applied (dry tons)	1,708.6	1,514.8	1,790.7	1,803.7	2,062.8
Total Acres Leased	757	607	607	607	607
Total Acres Used	265.8	243.1	279.5	280.6	320.9

Source of data: LUS MWPP Reports

The volume of biosolids generated at LUS wastewater facilities has increased by approximately 32 percent from 2018 to 2021. Over the same period, recent land development has reduced the number of land-application sites that are available to LUS. Due to increased biosolids production and limitations in access and availability of land application sites, LUS continues to face challenges associated with land application of biosolids.

Adding mechanical dewatering at the NETP will reduce the volume of biosolids produced by the plant and could help LUS better manage biosolids land application. In addition, LUS should consider opportunities to expand the access and availability of land application sites. Additional land-use agreements should be considered, as well as purchasing and owning land that could be used to apply biosolids.

6.4 Historical Capital Improvement Program

LUS tracks capital expenses through its capital work order system. Historical capital improvement program expenditures shown in **Error! Reference source not found.**9 reflect investments in infrastructure funded by the Series 2019 Bonds and retained earnings. Major capital projects in 2021 included sludge handling facilities and equipment, pond clearing, force main replacement, and lift station upgrades.

Table 6-9: Wastewater System Historical CIP

	2017	2018	2019	2020	2021
Wastewater					
Normal Capital & Special Equipment	\$1,876,974	\$1,264,908	\$1,985,294	\$1,619,375	\$1,968,227
Series 2019 Bonds	0	0	128,538	174,992	8,084,550
Retained Earnings	4,207,580	6,881,980	5,247,716	4,298,097	4,129,321
Total Wastewater Capital	\$6,084,553	\$8,146,888	\$7,361,548	\$6,092,464	\$14,182,098

Source of data: LUS Financial and Operating Statements and Utilities Status of Work Orders Report

6.5 Environmental and Regulatory Compliance

In accordance with each facility's LPDES permit, LUS is required to file an Annual Municipal Water Pollution Prevention audit report for each operating facility. Sometimes, LUS exceeds the design/permitted flow rating at its wastewater treatment plants. At other times, permitted effluent biological exceedances occur at the WWTPs. The number of months during which the permitted influent flow or effluent discharge limitations of each plant was exceeded over the past five years is summarized in Table 6-10.

Table 6-10: Total Monthly Occurrences of Design or Permitted Rating Exceedances

Wastewater Treatment Plant	2017	2018	2019	2020	2021
	Permitted Influent Flow Exceedances				
South Sewage	0	0	0	0	1
East Sewage	2	1	0	0	3
Ambassador Caffery	5	1	6	5	7
Northeast	0	0	0	0	2
Permitted Effluent Discharge Limitation Exceedances					
South Sewage	0	0	0	0	0
East Sewage	0	0	0	0	0
Ambassador Caffery	0	0	0	0	0
Northeast	0	0	0	0	1

Source: LUS MWPP Reports

On August 5, 2021, LUS was issued two (2) notices of potential Significant Non-Compliance (SNC) by LDEQ due to exceedances of effluent limitations at the ESTP and NETP which occurred on May 31,

2021. The incidents were the result of high influent flow caused by excessive rain events, according to the response LUS provided to LDEQ on August 17, 2021.

LDEQ also requires LUS to report the number of sanitary sewer overflows and bypasses that occur in the Annual Municipal Water Pollution Prevention audit reports. The total number of sanitary sewer overflows and bypasses that occurred at the WWTP or within the collection system basin over the past five years is summarized in Table 6-10.

Wastewater Treatment Plant 2017 2018 2019 2020 2021 South Sewage 53 23 39 59 50 East Sewage 27 8 17 13 12 **Ambassador Caffery** 43 27 31 23 Northeast 5 4 0 1 3 Total 128 62 87 80 88

Table 6-11: Total Sanitary Sewer Overflows and Bypasses

Source of data: LUS MWPP Reports

6.5.1 Spill Prevention Control and Countermeasures

SPCC plans are required to comply with state and federal regulations if facilities are proximate to U.S. waters. Compliance is required by facilities which are subject to spills of oils, fuels, or other controlled substances and have a storage capacity of more than 1,320 gallons at a single facility. SPCC plans were prepared and implemented in accordance with these regulations for each wastewater treatment facility. SPCC Plans must be reviewed every five (5) years (the last review occurred in 2017) or upon significant change in oil storage or if a spill incident occurs. LUS is currently updating each facility's SPCC Plan.

6.5.2 Wastewater Pretreatment Program

Federal regulation requires that LUS maintain a wastewater pretreatment program that is applicable to certain customers discharging to the LUS collection system, with particular emphasis on industrial users. Industrial users are identified by review of the North American Industry Classification System ("NAICS") code of the user. The program is overseen and enforced by the LUS Environmental Compliance Division; and was established to accomplish the following objectives:

- 1. Prevent pollutant discharges which will interfere with operations of publicly owned treatment works ("POTWs"), including the use or disposal of municipal sludge (i.e., biosolids),
- 2. Prevent pollutant discharges which the POTW is not designed to remove by treatment,
- 3. Reduce the risk of exposing workers to hazardous chemicals, and

4. Improve opportunities to recycle and reclaim industrial wastewaters and sludges.

Significant Industrial User Permits are issued to any customer that discharges an average of 25,000 gallons or more of process wastewater. Six (6) customers have been issued this permit because they either contribute process waste stream that make up 5 percent or more of the average dry-weather hydraulic or organic capacity of the treatment plant or have a reasonable potential for adversely affecting the treatment facility's operation for violating any pretreatment standard or requirement. A total of seven (7) Categorical Zero Discharge Permits have been issued to customers that do not discharge any process wastewater in accordance with CWA section 307.

LUS must submit an Annual Pretreatment Report to LDEQ as part of the requirements under its LPDES permits. LUS reported zero (0) instances of noncompliance by Significant Industrial Users and zero (0) enforcement actions taken in the 2021 Annual Pretreatment Report.

6.5.3 Flow and Biological Loading

The wastewater strength to the LUS WWTPs is characterized as primarily domestic wastewater, with relatively little industrial wastewater. LUS operators have indicated that the wastewater influent is consistent between the WWTPs. Influent water quality generally contains 25 mg/L of total nitrogen, 170 mg/L of 5-day carbonaceous BOD5, and 30 to 40 mg/L TSS.

Publicly-owned treatment works serving the City of Lafayette are subject to regulatory limitations of wastewater discharges to the Vermillion River to Bayou St. Claire. The wastewater discharge limitations are established by the LPDES permit, which has assigned a permit limit and specific discharge loading limits for each of the LUS WWTPs. Although the concentrations (mg/L) of each contaminant are consistent between the WWTPs, the loading rate (lbs/day) varies for each facility. The average monthly discharge limitations are summarized in Table 6-12.

Ambassador South East Caffery Northeast LPDES Permit LA0036374 LA0036382 LA0042561 LA0036391 Permitted Design Flow 4.0 MGD 7.0 MGD 6.0 MGD 1.5 MGD 584 lbs/day 334 lbs/day 500 lbs/day 125 lbs/day BOD₅ – May through December 10 mg/L 10 mg/L 10 mg/L 10 mg/L 1168 lbs/day 667 lbs/day 1,000 lbs/day 250 lbs/day BOD₅ – January through April 20 mg/L 20 mg/L 20 mg/L 20 mg/L Total Ammonia-Nitrogen (as N) 292 lbs/day 167 lbs/day 250 lbs/day 63 lbs/day May through December 5 mg/L 5 mg/L 5 mg/L 5 mg/L Total Ammonia-Nitrogen (as N) 584 lbs/day 334 lbs/day 500 lbs/day 125 lbs/day January through April 10 mg/L 10 mg/L 10 mg/L 10 mg/L Total Nitrogen (as N) Monitoring Only Monitoring Only Monitoring Only Monitoring Only Monitoring and Cyanide Reporting Only 876 lbs/day 500 lbs/day 751 lbs/day 188 lbs/day TSS – May through December 15 mg/L 15 mg/L 15 mg/L 15 mg/L 1168 lbs/day 667 lbs/day 1,000 lbs/day 250 lbs/day TSS – January through April 20 mg/L 20 mg/L 20 mg/L 20 mg/L Monitoring Only Monitoring Only Monitoring Only Total Phosphorus (as P) Monitoring Only

Table 6-12: Wastewater Treatment Plant Average Monthly Discharge Limitations

The LDEQ has imposed a hold on new (additional) contaminant loading to the Vermillion River due to agriculture, waste flows from unincorporated areas, and waste flows from publicly owned treatment works. As the City continues to develop and grow, this contaminant loading restriction requires that the lbs/day limit by LDEQ is met by the LUS WWTPs, regardless of influent flow increases.

6.5.4 Winter Storm, 2021

LUS staff reported that the wastewater utility was not materially affected by the winter storm that impacted the Lafayette area in February 2021.

6.6 Contracts and Agreements

LUS is currently under contract in the Grossie Avenue area for wastewater O&M. This area included a small number of customers served by a separately owned wastewater collection system where the flows from the approximately 50 customers are treated at the ESTP. The 40-year agreement was executed in 1995 and expires August 2035.

6.7 Utility Benchmarking

6.7.1 Utility Rates

Residential and commercial wastewater rates implemented by LUS are comparable to and competitive with utilities benchmarked in the state and surrounding region. Table 6-13 and Table 6-14 provide a regional comparison of effective wastewater rates for residential and commercial customers, respectively.

Table 6-13: Residential Rate Comparison

	Average		
Utility	(\$/1,000 gallons)		
Alexandria	\$	3.86	
Lake Charles	\$	4.50	
New Iberia	\$	5.21	
Baton Rouge	\$	6.87	
LUS	\$	7.13	
Shreveport	\$	11.10	
New Orleans	\$	12.42	

Source: LUS. Rates as of October 2021.

Table 6-14: Commercial Rate Comparison

	Average		
Utility	(\$/1,000	gallons) (1)	
Alexandria	\$	3.59	
Lake Charles	\$	4.11	
Baton Rouge	\$	6.15	
New Iberia	\$	6.18	
LUS	\$	6.69	
New Orleans	\$	9.77	
Shreveport	\$	10.26	

Source: Burns & McDonnell. Rates as of March 2022. Assumes monthly water consumption of 30,000 gallons.

LUS last completed a rate study in 2016, indicating the need to increase Wastewater System rates to adequately cover its costs. Retail rates were increased 6.1 percent effective November 1, 2016, and 5.7 percent effective November 1, 2017. Retail rates have remained unchanged since then.

6.7.2 Financial and Operating Statistics

The AWWA annually publishes benchmarking data across a variety of performance indicators for water and wastewater utilities. The 2021 AWWA Utility Benchmarking: Performance Management for Water and Wastewater was released in early 2022, compiling various financial and operating ratios from 2020.

⁽¹⁾ Assumes monthly water consumption of 7,000 gallons.

For this analysis, specific ratios were obtained from the AWWA report representing national and regional medians. The AWWA defines national metrics as wastewater utilities in both the United States and Canada, hereafter referred to as "National." Ratios are also available by region and by number of wastewater customers served. The U.S. South region was used, which includes Louisiana and is hereafter referred to as "Regional." Further, ratios are available specifically for water utilities, wastewater utilities, and combined water and wastewater utilities. Where possible, comparisons have been made to wastewater utility ratios. However, some LUS balance sheet information is available only for the combined Electric, Water and Wastewater Utilities System, hereafter referred to as "Combined." The AWWA "Combined" benchmarking data only includes water and wastewater utilities.

The benchmark results are presented in Table 6-15. LUS's wastewater operational costs are lower than the National median but higher than the Regional median. LUS's combined debt ratio is lower than the Regional median but higher than the National median. The operating ratio is higher on both a wastewater-only and combined basis than either the National or Regional medians. However, the AWWA combined utilities median includes water, wastewater, and storm water, while LUS includes water, wastewater, and electric. LUS's cash reserves are lower than the National and Regional medians. LUS's 2021 wastewater debt service coverage is lower than the Regional and National median and the combined debt service coverage is higher than the Regional median but lower than the National median. This is expected to improve over the next few years with the new rates implemented in FY 2023 and the lower interest expense resulting from the refunding of the 2012 Bonds.

Table 6-15: Benchmarked Wastewater Utility Operating Ratios

		National ⁽¹⁾	Regional	LUS	
Statistics	Basis	2020	2020	2020	2021
Operational Costs per MG	Wastewater	\$4,045	\$2,228	\$3,328	\$3,039
Debt to Total Assets (Debt Ratio)	Combined	0.30	0.51	0.36	0.34
Operating Ratio (O&M cost/ Operating revenue)	Wastewater	0.49	0.49	0.61	0.64
Operating Ratio (O&M cost/ Operating revenue)	Combined	0.49	0.51	0.67	0.71
Cash Reserve Days ⁽²⁾	Combined	486	436	48	53
Debt Service Coverage	Wastewater	2.32	2.36	2.20	2.16
Debt Service Coverage	Combined	2.96	1.91	2.99	2.88

Source: AWWA and LUS

- (1) National AWWA benchmarks for water and combined water and wastewater utilities with 50,001 to 100,000 customers to align with the Water System customers served.
- (2) LUS results based on total O&M for Electric, Water, and Wastewater Systems less fuel and purchased power expenses.

6.8 Historical Financial Performance

Table 6-1616 presents historical debt service and the associated DSCR. Historical Wastewater System debt service as shown below includes a portion of the Series 2012 Bonds, Series 2017 Bonds, and Series 2019 Bonds. In each year since 2017, the DSCR exceeded the minimum coverage requirement of 1.0 required by the Bond Ordinances.

Table 6-16: Historical Financial Performance

Fiscal Year	Operating Revenues ⁽¹⁾	Operating Expenses (2)	Net Revenues Available for Debt Service	Debt Service (3)	Debt Service Coverage Ratio
2017	\$30,790,307	\$18,685,538	\$12,104,769	\$4,270,621	2.8
2018	\$32,379,226	\$18,737,163	\$13,642,063	\$3,363,806	4.1
2019	\$32,038,772	\$19,211,514	\$12,827,259	\$4,218,291	3.0
2020	\$31,122,710	\$18,295,187	\$12,827,523	\$5,842,264	2.2
2021	\$31,768,322	\$19,791,589	\$11,976,733	\$5,786,152	2.1

Source: LUS Financial and Operating Statements

- (1) Operating Revenues include interest income and other miscellaneous income.
- (2) Operating Expenses include O&M and other expenses such as customer service and A&G costs. Operating Expenses do not include ILOT, normal capital and special equipment, and other miscellaneous expenses.
- (3) Debt service was prepared on a cash basis for this table and includes a portion of the Series 2012 Bonds, Series 2017 Bonds and Series 2019 Bonds. The Series 2010 Bonds were fully redeemed by the proceeds of the Series 2017 Bonds on November 1, 2020.

6.8.1 Rate Structures

The Wastewater System provides service to retail customers both inside and outside the City limits. Wastewater System customer classes for ratemaking purposes include residential and commercial. The Wastewater System rate structure includes a customer charge based on class and a commodity charge applied to billed volume. The determination of billed volume varies by season. During December through March, customers are billed actual water use. For the remaining months of the year, usage is generally calculated using the average usage of the four preceding winter months (December through March). However, billed volume may not be less than 75 percent of actual water consumption in each of those months. LUS can adjust billed volume as needed.

Table 6-17: Rate Schedules

Rate Class	Serves	Effective Date	Customer Charge (\$/month)	Monthly Volumetric Charge (\$/1,000 gallons)
S-1	Residential	Nov 2017	\$8.60	\$5.90
S-1-O	Residential Non- City	Nov 2017	\$10.30	\$7.10
S-2	Commercial	Nov 2017	\$16.15	\$6.15
S-2-O	Commercial Non- City	Nov 2017	\$24.20	\$7.40

Source: LUS Rate Schedules

6.8.2 Revenue Analysis

Table 6-188 presents the Wastewater System retail rate revenues. In total, 2021 revenues increased by nearly 1 percent. Non-residential revenues decreased in 2021 but were offset by increasing revenues in all other non-residential classes, a dynamic influenced by the COVID-19 pandemic recovery. Customer counts have increased on average 1.0 percent per year from 2017 to 2021. Revenue per customer declined overall by 0.32 percent in 2021, with residential revenue per customer decreasing while revenue per non-residential customer increased.

Table 6-18: Retail Revenues by Class

	2017	2018	2019	2020	2021
Revenues					
Residential	\$16,301,946	\$17,209,307	\$16,620,065	\$17,069,978	\$16,810,848
Commercial	11,899,780	12,073,215	11,804,385	11,552,556	11,934,206
Schools & Churches	1,300,138	1,509,518	1,316,766	1,092,977	1,201,994
Other	204,511	185,506	169,456	145,715	172,721
Total	\$29,706,376	\$30,977,546	\$29,910,672	\$29,861,226	\$30,119,770
Number of Customers					
Residential	39,054	39,229	39,791	40,237	40,760
Commercial	5,398	5,402	5,442	5,503	5,523
Schools & Churches	263	273	275	282	287
Other	116	116	115	111	111
Total	44,830	45,019	45,623	46,133	46,681
Revenue per Customer					
Residential	\$417	\$439	\$418	\$424	\$412
Commercial	2,205	2,235	2,169	2,099	2,161
Schools & Churches	4,947	5,528	4,781	3,876	4,184
Other	1,762	1,606	1,479	1,309	1,560
Total	\$663	\$688	\$656	\$647	\$645

Source: LUS Financial and Operating Statements

6.8.3 Expense Analysis

Table 6-199 presents historical wastewater operating expenses, distinguished between fixed and variable costs. Variable operating expenses within Collection include purchased power costs, while variable operating expenses within Treatment include chemical costs. Fixed operating expenses include the remaining portions of Collection and Treatment expenses, plus Customer Service and A&G expenses. Historically, variable expenses average about 8.5 percent of total expenses, with the remaining 91.5 percent pertaining to fixed expenses.

Table 6-19: Historical Fixed and Variable Expense Summary

	2017	2018	2019	2020	2021
Variable Expenses					
Collection	\$346,809	\$332,139	\$372,159	\$354,468	\$399,174
Treatment	1,351,974	1,334,120	1,249,620	1,163,932	1,225,823
Total Variable Expenses	\$1,698,783	\$1,666,259	\$1,621,779	\$1,518,400	\$1,624,997
Fixed Expenses					
Collection	\$4,350,118	\$4,390,309	\$4,940,592	\$4,534,054	\$5,098,653
Treatment	5,452,814	5,543,161	5,737,501	5,089,896	5,481,952
Customer	1,345,368	1,399,015	1,365,016	1,318,028	1,655,511
A&G	5,838,454	5,738,418	5,546,626	5,834,810	5,930,475
Total Fixed Expenses	\$16,986,755	\$17,070,904	\$17,589,735	\$16,776,788	\$18,166,592
Total Fixed & Variable	\$18,685,538	\$18,737,163	\$19,211,514	\$18,295,187	\$19,791,589
Percent Variable	9%	9%	8%	8%	8%
Percent Fixed	91%	91%	92%	92%	92%

Source: LUS Financial and Operating Statements

6.8.4 Recovery of Costs

Comparable to the Water System, Wastewater System revenues are also affected by weather, economic conditions, and in 2020 and 2021, the COVID-19 pandemic. Volatility of water demand caused by these dynamics can impact the stability of revenues. As shown in Table 6-19, expenses are largely fixed and are generally not as susceptible to weather or economic variances. Regardless of the underlying cause, the predominately fixed-cost nature of the Wastewater System cost structure and the variable nature of its revenue stream can put pressure on utility cash flows when demand is disrupted. The mismatch between a high fixed cost structure and a high variable cost revenue stream is a common challenge in the water utility industry.

6.9 Observations and Recommendations

Based on the analysis described herein, Burns & McDonnell offers the following observations and recommendations.

- Based on visual inspection of facilities, review of records, and interviews of LUS staff, the LUS
 wastewater treatment facilities are in good condition, maintained properly and in accordance with
 industry practices.
- The organizational structure and management of the wastewater system engineering and operations
 areas appears to be strong based on initial observations, interviews, organizational structures, and
 manpower within each department.
- Burns & McDonnell is currently completing a rate study for LUS and the proposed rate plan is
 expected to be approved before the end of FY 2022. The rate study is being completed to review
 existing and projected cost levels and set rate revenues to maintain financial performance
- Burns & McDonnell is evaluating the possibility of increasing its fixed cost recovery in its
 Wastewater System revenue streams to improve overall revenue stability as part of the rate study.
- The Water Sector Program was created in 2021 by the State of Louisiana to provide grant funding for repairs, improvements and consolidation of community water and sewer systems around the state.
 \$300 million from the American Rescue Plan Act was provided to the program. LUS submitted applications to the program in late 2021. In January 2022 LUS was notified that it was awarded a total of approximately \$4.83 million in grant funding for three (3) wastewater projects.
- LUS is planning to issue new bonds in FY 2023 to support various electric, water, and wastewater
 projects. The bond funding anticipated is reasonable and appropriate to fund these projects and the
 forecasted revenues represented in the continuing disclosure financial projections are expected to be
 able to fund the new debt service associated with the new bonds.
- LUS could consider the benefits and costs associated with installing additional boilers at the ESTP
 and ACTP to support anaerobic digestion during winter months. Based on feedback from operators
 about the relative ease of operation of aerobic digestion, LUS could also consider the benefits and
 costs associated with transitioning digestion from anerobic to aerobic at these facilities.
- LUS currently has agreements for access to areas totaling more than the area physically required to
 contain all produced biosolids. The additional area under lease is necessary because the land-use
 agreements require LUS to accommodate farming activities, which reduces the availability of these
 spaces. LUS may consider evaluating new, or restructured, land-use agreements to provide better
 availability of land or flexibility for the application of biosolids to potentially reduce costs.
- LUS could consider evaluating a mechanical dewatering process at the NETP to remove excess water prior to lime stabilization. This WWTP generates biosolids at approximately 2 to 3 percent solids by

- weight, and the other three WWTPs produce biosolids at approximately 22 to 27 percent solids by weight after processing with mechanical equipment. This could also alleviate some challenges with the frequency of land application.
- Due to regional contaminant loading to the Vermillion River, the LDEQ has imposed a hold on new and additional contaminant loading to the river. Simultaneously, population growth and development within the LUS service area has increased, and therefore wastewater flows to the LUS WWTPs have also increased. As a confluence of these factors, it is recommended that a treatment process evaluation of the four WWTPs be completed to identify the risks that LUS faces with respect to meeting LPDES loading limits and improvements which may reduce LUS loading to the river. The evaluation should specifically consider long-term capacity needs of the LUS wastewater utility.
- LUS is well organized and structured in its approach to implementing its CMOM program and addressing the requirements of the AO. LUS has leveraged its in-house staff and contractor resources to complete work efficiently. It is important that cleaning, inspection, and rehabilitation of the wastewater collection system be continued to comply with the requirements of the AO. The rate of such work needs to meet the required 10 percent per year. LUS exceeded this requirement in 2020 and 2021.
- LUS is still in the early stages of addressing requirements under the AO. Accordingly, the total cost of compliance is difficult to determine with a high level of confidence. LUS should closely track and monitor costs incurred to-date and use that data to consider a range of scenarios that can be used to inform long-term decision making.
- The CMOM program implemented in response to the AO has established a framework for programmatic proactive maintenance of LUS's collection system assets. Proactive maintenance can result in extended asset life and potentially reduce the likelihood and duration of unexpected downtime or failures. As part of its efforts to implements its CMOM program, LUS could consider evaluating its wastewater system assets to estimate remaining service life and likelihood of failure. The results of that assessment could be used to further develop capital improvement planning to address critical assets over a long-term period, with targeted strategies to address high-priority items. This effort could include planning for renewal and replacement of aging infrastructure over its anticipated service life.
- LUS last completed a Wastewater Master Plan in 2010. Due to development that has occurred since
 then and expected limitations to treatment plant capacity, LUS should update its master plan to
 project future growth and associated wastewater flow rates; assess existing and future wastewater

system capacity needs; and identify long-term capital improvements required for future development, system expansion, and condition-related improvements. The master plan could also specifically evaluate opportunities to reduce the occurrence of sanitary sewer overflows.

7.0 COMMUNICATIONS SYSTEM

7.1 Communication System Summary

LUS Fiber ("LUS Fiber") began in 1998 with LUS building fiber to serve the Electric System's SCADA system, transmission line protection systems, and LUS facilities. Further expansion of the system allowed LUS to offer wholesale communications and data services to governmental and educational facilities, and retail data, telephone, and cable TV services to the public. The first retail customers began receiving service in February 2009.

In preparation for providing retail communications services, LUS Fiber purchased the fiber optic system from the Utilities System in 2007. LUS Fiber utilized internal loans from the Utilities System to fund the purchase of the fiber system assets, startup costs, and operating costs. LUS Fiber does not expect any future loans from the Utilities System. LUS Fiber repayment of the loans will continue through 2033. The repayment of the Utilities System loans is subordinate to the payment of debt service on LUS Fiber bonds.

Taking advantage of low interest rates, LUS Fiber refinanced their bond debt which will provide additional capital to fund network expansion efforts. In 2021, LUS Fiber refunded the City of Lafayette, State of Louisiana Communications System Revenue Refunding Bonds, Series 2021A (Tax-Exempt) and Taxable Communications System Revenue Refunding Bonds, Series 2021B (Federally Taxable) in the principal amount of \$14,400,000. The total LUS Fiber savings from Series 2021 Bond Refunding is \$2.7 million.

LUS Fiber is comprised of a 191-mile fiber backbone system with direct connections to national Tier 1 broadband providers, 164 miles of distribution fiber (2 percent increase from last year), and 588 miles of access fiber (2 percent increase from last year) connecting to individual premise locations. About 40 percent of the infrastructure is on aerial utility poles and 60 percent is underground. LUS Fiber reports that it has constructed on average of 1.2 miles of new infrastructure per month in the past year, mostly underground.

The system is a fiber-to-the-premises ("FTTP") architecture, with fiber located throughout the service area. Relative to the copper telephone and cable broadband technologies used by its competitors, LUS Fiber uses a passive optical network ("GPON") technology that is well-suited to all residential and all but the most intensive commercial and institutional uses. For these large enterprise customers, LUS Fiber has customized solutions such as dark fiber and direct connect capabilities. FTTP has many times the theoretical maximum capacity of other technologies and can be scaled to much higher speeds in the

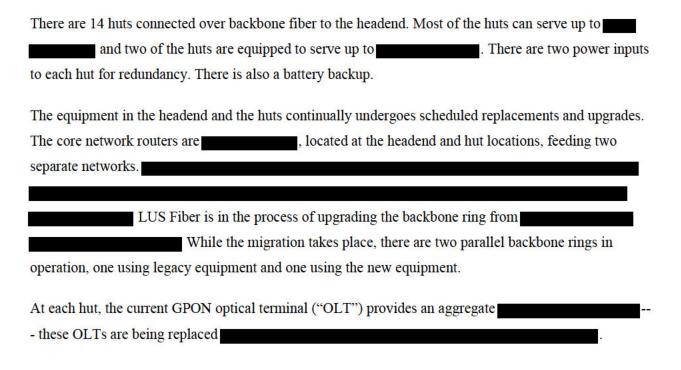
coming years simply by changing modules in the network headend and huts, and by upgrading the network terminal at the home or business.

LUS Fiber cables are installed both on aerial poles and underground, based usually on the location of the other utilities. Where fiber is on aerial poles owned by LUS electric, it is placed in the power space "safety zone" that is restricted to LUS electric, thus taking advantage of the open space above the other communications providers, while safely constructed and managed by individuals qualified to work within high voltages. Where LUS Fiber cables are on poles owned by a different utility, they are currently located in the communication space located below the power space away from the high voltage lines. LUS Fiber staff continues to work with these utilities to allow LUS Fiber to locate their cables in the safety space.

Based on a sample drive-through inspection of the system, the aerial infrastructure appears to be well maintained.

7.1.1 Backbone Architecture

The headend has 13 satellite dishes and one tower for of air reception of local TV networks. There are two power inputs to the headend building for redundancy. There is also a battery backup to maintain the network until the power can be switched to the secondary power source if an outage interrupts the primary power source. There is also a backup generator that is tested once a week. The equipment in the headend appears to be well maintained, cabling is kept in an orderly fashion.



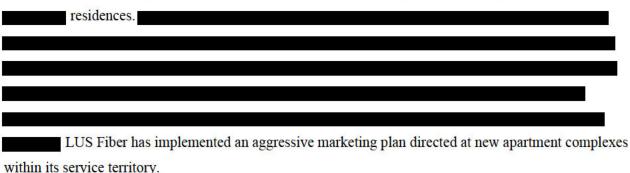
7.1.2 Customers

Since 2016, LUS Fiber number of accounts increased at a compound annual rate of retail accounts by end of 2021. The historical number of accounts and market share has consistently increased as presented in Table 7-1

Table 7-1: Communications System Market Share (Confidential)

Fiscal Year	Number of Customer Accounts	Increase in Customer Accounts (%)	LUS Fiber Total Passings ⁶	Increase in LUS Fiber Passings (%)	LUS Fiber Market Share
2016			6		•
2017					
2018					
2019					
2020					
2021					

LUS Fiber's marketing activities focus primarily on single family residence and business customers receiving electric service inside City limits. Customers meeting this profile enable LUS Fiber to provide communication services with minimal additional cost. For the purposes of understanding LUS Fiber's share of the LUS Fiber target market, LUS Fiber customer projections are compared with a subset of LUS Electric System customers along with customers outside the LUS Electric System service territory. Roughly 95 percent of LUS Fiber's residential customers live in single-family units, including duplexes and fourplexes. Currently, LUS Fiber only offers service in large multi-dwelling-unit complexes with



LUS Fiber also offers services to both single-tenant and multi-tenant commercial properties. Of the total business and government passings, LUS Fiber has just over business customers.

⁶ Total passings includes serviceable residential and business customers throughout the communication system's service footprint, excluding MDUs where landlords do not provide LUS Fiber with access to residential units.

7.1.3 Service Offerings

In the retail market, the LUS Fiber offers "triple play" services. "Triple play" is a common term in the industry that refers to cable TV, internet, and telephone services. LUS Fiber provides services to approximately customers, who can choose to purchase any, or all, of the triple-play services. These services are in competition with regional and national data, and communications providers including Cox Communications, Dish, AT&T, Dish, Kaptel, REACH4, and HughesNet.

The following residential retail services are available to customers:

- 1. Residential Cable Television / Video Services
 - a. 87 analog, 327 digital channels
 - b. Traditional Video Packages
 - i. Basic Package with 21 channels
 - ii. Expanded Basic with 80+ channels
 - iii. Digital Access with 200+ digital channels
 - iv. Digital Plus with 270+ digital channels
 - v. Digital Hispanic with 270+ digital channels, including 5 Spanish-only channels
 - vi. Premium Movie Suites (HBO, Cinemax, Showtime, Starz/Encore)
 - Additional equipment and service options include digital video recorder ("DVR"), video on demand, pay-per-view, and set top boxes.
- ConnecTV Packages
 - a. ConnecTV Basic with 21 channels
 - b. ConnecTV Expanded with Basic 80+ channels
 - c. ConnecTV Plus with 270+ channels
 - d. Sports Package with 18 channels
 - e. Premium Movie Suites (HBO, Cinemax, Showtime, Starz/Encore)
- 3. Residential Internet Service
 - a. 3, 60, 100 megabits per second ("Mbps")
 - b. 1 and 10 gigabit per second ("Gbps")
 - c. Hub City Wi-Fi residential Wi-Fi service
 - d. Hub City Wi-Fi Plus residential Wi-Fi service
- 4. Residential Telephone Service
 - Basic Line basic digital telephone service line with paid long-distance calling; packages and features are sold separately
 - b. Basic Feature Package basic calling features

- c. Premium Feature Package basic service, plus voicemail and caller identification
- d. Unlimited Long Distance offered as a separate service to add to the above services
- e. International Long Distance per minute rate depending on the area called

In addition to the residential retail communications services, LUS Fiber offers the following business retail services to customers:

- 5. Business Internet Service
 - a. 10, 25, 100 Mbps
 - b. 1 Gbps
- 6. Business Video Service
 - a. 87 analog, 327 digital channels
 - b. Traditional Video Packages (same as residential service offerings)
- 7. Business Telephone Service
 - a. Business Phone Line- includes anonymous call rejection, automatic callback, automatic recall, busy call forwarding, call blocking, hold, transfers, call waiting, calling name/number delivery/blocking, delayed call forwarding, selective call acceptance, rollover group, selective call forwarding/rejection, speed calling, three-way calling, telephone user interface commands, immediate forwarding, and voicemail.
 - b. Business Phone Line Enhanced- includes incoming call manager, sequential ring, priority call, time of day/day of week routing, individual contact management, call screening and remote office services
 - c. Hosted voice ("HPBX")
 - d. Primary Rate Interface ("PRI")
 - e. Conference Calling, Unlimited Long Distance, E-Fax, Auto-Attendant offered as separate services to add to the above services.

LUS Fiber is the only provider in Lafayette offering 10Gbps broadband internet to residential customers. LUS Fiber continues working with the federal government's <u>Affordable Connectivity Program</u> (APC) to offer lower cost broadband to qualified households to help mitigate the digital divide.

The sale of internet services exhibits the highest growth for LUS Fiber, while cable TV service and telephone service sales are more variable. Although the number of cable TV and telephone subscribers have remained relatively stable over the last few years, growth has not kept pace with overall customer growth. This year has seen a surge in the use of over-the-top video and VoIP telephone services, and LUS

Fiber anticipates that the total number of cable TV and telephone subscribers will begin to gradually decline in 2021. It is difficult to directly compare specific cable TV, internet, and telephone service offerings across all competitors in the market as each competitor bundles packages, services, and offerings differently.

7.1.4 Wholesale Contracts

LUS Fiber has contracts with AT&T and CenturyLink to connect to the national fiber backbone. LUS Fiber has several wholesale contracts with major carriers, internet service providers ("ISP"), and application service providers, who in turn provide bandwidth, internet, and telephone services on a retail basis to medium and large business customers.

7.2 Competition and Benchmarking

The cable TV and internet services markets within the city are competitive. National telecommunications firms such as Cox Communications, Dish, and AT&T offer services. All three of these companies also have licensed or priority access to wireless spectrum, which may further increase competition for telecommunications services within LUS Fiber's service territory.

Across most of its service territory, LUS Fiber's network has significant technical advantages over its competitors' networks. Increased reliance on videoconferencing platforms during the pandemic has led to growing demand for upload capacity, but the overall capacity limitations of HFC networks forces Cox to offer service with 10 percent or less of overall bandwidth dedicated to upload. AT&T's DSL network can only provide a similarly asymmetrical service, with even more limited overall capacity. However, AT&T has upgraded its copper plant with fiber in some parts of Lafayette and the surrounding areas, enabling the company to offer symmetrical internet services comparable to LUS Fiber. AT&T has announced plans to continue expanding its fiber network over the next two years, including in parts of Lafayette, though the extent of its fiber construction plans in the area remains unclear at this time. AT&T's methodology is to prequalify potential customers in an area to determine if they will build out to that area. LUS Fiber continues to strive to be first into an area with better service and pricing.

Current LUS Fiber rates are stable, with increases for cable TV or video generally driven by programming and content costs. LUS Fiber offers comparable and competitively priced cable TV packages as its competitors throughout its service territory. LUS Fiber's internet services are competitively priced and deliver faster download speeds and significantly faster upload speeds than any other provider can offer, except where AT&T's fiber service is available. LUS Fiber also offers customers a unique feature that enables peer-to-peer connections within the city limits with excellent data exchange

speeds. Currently competitors do not offer this feature. Telephone service is competitive but difficult to compare directly with competitors due to how services are packaged.

Table 7-2 summarizes and compares LUS Fiber and competitors' internet service offerings within the City. The comparison illustrates LUS Fiber's competitive advantage of faster download and upload speeds available at lower prices than competitors. Lafayette Economic Development Authority also markets these capabilities to businesses the Authority is working to attract.

Table 7-2: Communications System Competitive Internet Service Offerings

Provider	Speed (Download/Upload) in Mbps	Monthly Price (Regular/ Non- Promotional)
LUS Fiber-Internet	3/3	
LUS Fiber-Internet	60/60	
LUS Fiber-Internet	100/100	
LUS Fiber-Internet	300/300	
LUS Fiber-Internet	1,000/1,000	
LUS Fiber-Internet	10GB/10GB	
LUS Fiber-Hub City Wi-Fi	60/60 and Wi-Fi	
LUS Fiber-Hub City Wi-Fi	100/100 and Wi-Fi	
LUS Fiber-Hub City Wi-Fi	300/300 and Wi-Fi	
LUS Fiber-Hub City Wi-Fi	1000/1000 and Wi-Fi	
Cox Residential	25/1	\$44.99
Cox Residential	50/3	\$65.99
Cox Residential	150/10	\$83.99
Cox Residential	500/10	\$99.99
Cox Residential	940/35	\$119.99
ATT Fiber (limited availability)	100/100	\$55.00
ATT Fiber	300/300	\$65.00
ATT Fiber	1000/1000	\$80.00
ATT IPBB	10/1	\$55.00
ATT IPBB	5/1	\$55.00
LUS Fiber Business	10/10	
LUS Fiber Business	25/25	
LUS Fiber Business	50/50	
LUS Fiber Business	100/100	
LUS Fiber Business	500/500	
LUS Fiber Business	1000/1000	
Cox Business	50/10	\$94.99
Cox Business	100/20	\$124.99
Cox Business	200/20	\$174.99
ATT Business	8/1	\$80
ATT Business	12/1.5	\$130
ATT Business	50/10	\$200.00
ATT Business	100/20	\$300.00
ATT Fiber Business (limited availability)	300/75	\$180.00

Provider	Speed (Download/Upload) in Mbps	Monthly Price (Regular/ Non- Promotional)
ATT Fiber Business	500/100	\$300
ATT Fiber Business	1000/200	\$500

Source: LUS Fiber

7.3 Operations and Related Performance

As a normal course of business, service outages do occur. Since its inception, LUS Fiber has successfully restored service in a timely manner when outages occur. Successful outage management requires the proactive periodic replacement and upgrade of equipment. Overall, LUS Fiber performance remains highly reliable with limited outages for customers. Customers regularly give LUS Fiber high marks for reliability, contrasting the negative reliability trend of its competitors. There were no major network outages in 2021. There were a few minor outages due to fiber cuts by third party construction crews; these outages were geographically isolated and affected a small percentage of customers.

Customers may pay their bill by mail, phone, online, drop box, or in person. LUS Fiber also accepts automatic bank or credit card payments. LUS Fiber continues to work with BPA Quality Assurance Call Quality Grading for enhancing our customer experience. Based on BPA feedback, LUS Fiber has made significant improvement in customer experience quality. LUS Fiber continues to score 95+ satisfaction rating from our customers.

7.3.1 Communication Shared Services

During 2021, Communications System employees and facilities were organized separately from Utilities System operations; however, several services (such as accounting) and reporting functions were shared among the Communications System and Utilities System. In accordance with the requirement to maintain separate Utilities System and Communications System funds, all costs associated with these services are accounted for separately. An appropriate portion of shared costs are allocated to the Communications System through LCG's Cost Allocation Plan, in compliance with the "Fair Competition Act."

Prior to November 2020, the LUS Business Support Services division managed the customer service for both the Utilities System and the Communications System. In November, the Communications System took on direct management of LUS Fiber's customer service employees. The Communications System continues to share the same office space and customer service centers as the Utilities System. All customer service costs are allocated between the Utilities System and the Communications System using an appropriate allocation method.

7.3.2 Construction and Installation

LUS Fiber has experienced fiber optic technicians on staff to maintain its existing plant. This crew can do line work, maintenance, splicing, as well as troubleshooting. Major new build projects are done by contract construction company(s). LUS Fiber staff augment the contract crews during major new build projects.

New underground build is mostly directional boring. LUS Fiber has been able to reduce construction costs relative to previous years. It periodically issues new bids for construction companies.

LUS Fiber continues to expand its network organically but looking for larger expansion based on recent government broadband funding initiatives. LUS Fiber was successful in obtaining inclusion in the state of LA GUMBO program.

The engineering department designs and prepares work prints for new construction projects. Market growth is considered in design process to efficiently use the resources to accommodate future expansion of the network.

Service installation is currently done by contractors. LUS Fiber has been considering the option of bringing installation in-house and has completed an analysis that indicating the costs to be similar. However, in a contractor arrangement the installations can be paid on a per installation basis and can be easily scaled up and down. It would also be necessary to determine how to structure incentives if installations were brought in-house.

LUS Fiber has put a strong emphasis on more efficient installs for businesses and residential customers decreasing timeframes by over 50 percent and striving for same day installs.

7.3.3 Fiber Documentation and Automation

LUS Fiber uses ESRI ArcGIS Mapping software for mapping its communication network. GIS allows the user to readily locate equipment and track a fiber from the headend to the subscriber's address. This can potentially also be an effective tool to help field technicians perform mobile data collection and editing, find assets and information, and report their real-time locations. LUS Fiber is in the process of migrating from a paper-based approach to an entirely electronic means of work orders, ticketing, and mapping, but staff are still on a learning curve and tools are being developed. Installation and repair technicians each have tablet computers, used for routing and trouble tickets.

The GIS system has comprehensive information on each enclosure and cable in the system. The level of detail is in line with industry standards.

7.3.4 Outages and Performance Metrics

There were no major network outages since last year's report. There were a few minor outages resulting from fiber cuts due to third party construction crews, that were geographically isolated and affected only a small percentage of customers.

As part of normal operations, LUS Fiber continues to track outages and key metrics (e.g., install timeframes, trouble ticket resolution timeframes, construction cost per foot, etc.). LUS Fiber has a robust disaster recovery plan through use of mutual aid agreements with various other fiber providers and contractors to seamlessly recover from unforeseen events.

7.3.5 Environmental Issues

LUS Fiber has had no environmental issues since last report. Given the design and operation of LUS Fiber, there are limited environmental compliance issues. Fiber is installed on LUS's overhead electric poles and in underground ducts co-located within the underground electric distribution system, avoiding additional right-of-way requirements or construction and land use related issues.

7.3.6 Security and Risk Assessment

LUS Fiber reports that there have been no significant security issues or changes in security posture since last report.

7.4 Regulatory Structure and Compliance

LUS Fiber adheres to Louisiana's Local Government Fair Competition Act (the "Fair Competition Act"). The Fair Competition Act requires, among other provisions, that LUS Fiber must operate in a manner that does not discriminate against competing providers of the same service and it may not grant any undue or unreasonable preference to itself or any private provider of covered services. Further, LUS Fiber may not cross-subsidize its covered services with tax dollars, income from other local government or utility services, below-market rate loans from the local government, or any other means. Under the Fair Competition Act, covered services of LUS Fiber include telecommunications services, advanced services (internet), and cable TV.

Separate from the requirements of the Fair Competition Act and Louisiana Public Service Commission ("LPSC") Rules, the LPSC has some jurisdiction over the telecommunication rates of LUS Fiber—but it does not have jurisdiction over LUS Fiber's rates for advanced services (internet) and cable TV.

Pursuant to the Act, LUS Fiber is also subject to certain rules and audit requirements of the LPSC. In particular, pursuant to the Act, the LPSC enacted Cost Allocation and Affiliate Transaction Rules ("LPSC Rules") and has responsibility and authority for compliance thereof by LUS Fiber. LUS Fiber is required by the LPSC Rules to file a certification with the LPSC on an annual basis, signed under oath, stating that it is complying with the Act and the LPSC Rules. After 2014, LUS Fiber was no longer required to file the annual audit.

7.4.1 Attest Audit

The LPSC Rules require LUS Fiber to have an attest engagement audit performed on an annual basis by an independent certified public accountant. The attest audit expresses an opinion as to whether the LUS Fiber systems, processes, and procedures comply with the Fair Competition Act and the LPSC Rules. LUS Fiber obtains and files such attest audit reports with the LPSC annually for each fiscal year of its operations. In addition, pursuant to the LPSC Rules, the LPSC conducts separate audits of LUS Fiber's compliance with the LPSC Rules.

7.4.2 Federal Communications Commission

In February 2015, the Federal Communications Commission ("FCC") ruled and reclassified broadband internet access services under Title II of the Communications Act. The FCC will regulate certain aspects of broadband internet services across the country, in particular the ability of broadband providers (e.g., AT&T/DirecTV, Cox Communications) to slow or block competitors' services and/or charge fees to content providers to deliver content at faster speeds. This broadband regulation is commonly referred to as "Net Neutrality." While the FCC ruled on Net Neutrality, the U.S. Telecom Association filed a lawsuit against the FCC challenging the Net Neutrality rule. In June 2016, the US Court of Appeals upheld the FCC's Net Neutrality rules and the idea that broadband access is a public utility, rather than a luxury.

In November 2017, a newly appointed FCC Commissioner proposed a repeal of Net Neutrality, with the FCC subsequently voting to repeal the legislation. Various states announced they planned to sue the FCC over the decision. In February 2018, the FCC informed Congress of their intention to repeal Net Neutrality, giving Congress 60 days to stop the repeal with the Congressional Review Act. Congress failed to pass the Congressional Review Act and the 2015 Net Neutrality Order was repealed. The FCC Restoring Internet Freedom Order took effect on June 11, 2018.

7.4.3 Environmental Compliance

Given the design and operation of the Communications System, there are limited environmental compliance issues. The Communications System fiber is installed on LUS's overhead electric poles and

in underground ducts co-located within the underground electric distribution system, avoiding additional right-of-way requirements or construction and land use related issues.

7.5 Payment In Lieu of Tax and Imputed Tax

Pursuant to terms of a regulatory settlement, LUS Fiber must calculate and pay an Imputed Tax to the City. The Imputed Tax is equivalent to the payments that it would have to make if it were a privatelyowned entity paying applicable state and local sales tax, property tax, franchise tax, and income tax. This Imputed Tax calculation is performed annually and can be paid to either the LUS or the LCG General Fund. As LUS Fiber improves operating margins, LUS Fiber will be able to pay ILOT to the LCG General Fund. Once ILOT payments are made to the LCG General Fund, the corresponding Imputed Tax obligation is reduced on a dollar-by-dollar basis. The ILOT calculation provides for an ILOT payment up to 12 percent of Adjusted Revenues (revenues less the cost of goods sold (COGS)). LUS Fiber has requested to review the COGS criteria. In researching comparative companies, COGS usually includes, for example, cost of items such as items intended for resale, materials, parts used to make a product, direct labor costs, supplies used in either making or selling the product, overhead costs, shipping or freight, indirect costs like distribution or sales force costs, internet transport costs, etc. All or a portion of the ILOT payment is subject to an ILOT test. The ILOT test ensures that LUS Fiber retains sufficient cash to meet capital obligations. The test requires that the ILOT payment be no greater than 12 percent of Adjusted Revenues, or the cash balance available after the payment of operating expenses and debt service less 7.5 percent of Adjusted Revenues. LUS Fiber tax requirement cannot be less than that required by the Imputed Tax calculation.

On July 21, 2015, the City-Parish Council approved Ordinance No. O-014-2015 that revised the ILOT calculation. This ordinance recognizes that LUS Fiber operates in a competitive environment and the current ILOT calculation is a greater expense than Imputed Tax. With the approval of this ordinance, LUS Fiber is now required to pay an ILOT amount equal to Imputed Taxes. The Imputed Tax payments were made to LUS and the City for years 2016 through 2021 as prescribed in the ordinance. Beginning in 2020, 100 percent of Imputed Tax payments goes to the city. The reduced financial obligation has helped increase cash available for Communications System's capital improvement projects and reserves, thereby reducing pressure to raise rates in the future and helping to maintain a level playing field with competitors.

7.6 Operating and Capital Budget

LUS Fiber prepares and submits their proposed operating and capital budget to LCG. The operating portion of the budget contains projections of revenues and expenses for the upcoming fiscal year. The CIP

as contained in the 2022 Budget is presented in Table 7-3 and totals \$45.5 million over the five-year period. LUS Fiber's five-year CIP is reviewed, updated, and budgeted annually. General life expectancy of incoming connections and distribution (e.g., headend), network, and hut equipment is 5 to 10 years, at which time replacement or upgrade may be warranted. Customer premises equipment has a roughly five-year life expectancy.

Table 7-3: Projected Capital Improvement Plan

Project Descriptions	2022	2023	2024	2025	2026	Total
Customer Installations	\$2,035,000	\$2,136,750	\$2,246,578	\$2,355,767	\$2,473,555	\$11,247,650
Customer Premise Equipment	3,015,500	3,166,275	3,324,589	3,490,818	3,665,359	16,662,541
Headend Equipment and Upgrades	977,292	350,000	350,000	350,000	350,000	2,377,292
Hut Equipment and Upgrades	150,000	350,000	350,000	350,000	350,000	1,550,000
Network Equipment and Upgrades	150,000	250,000	250,000	250,000	250,000	1,150,000
Outside Plant Extensions	2,400,000	2,400,000	2,400,000	2,400,000	2,400,000	12,000,000
Special Equipment	100,000	100,000	100,000	100,000	100,000	500,000
Total	\$8,827,792	\$8,753,025	\$9,021,167	\$9,296,585	\$9,588,914	\$45,487,483

Source: LUS Fiber CIP. All projects are shown in 2022 dollars.

The timing of capital projects is continually evaluated based on priority given changing circumstances; therefore, projects identified in the early years of the five-year program reflect a higher degree of certainty. All projects identified in LUS Fiber CIP are expected to be funded with cash available from LUS Fiber operations.

LUS Fiber's revenue performance was aligned with the 2021 and is presented in in Table 7-4. LUS Fiber collected \$44.1 million in operating and miscellaneous revenues in 2021, as compared to the budgeted \$44.7 million. Operating expenses were under budget at \$22.6 million, as compared to the budgeted \$25.2 million. Other Income & Expenses were close to the budgeted amount. Overall, the cash available for capital was slightly above the budgeted amount. LUS Fiber's actual financial performance was close to budget, and it exceeded DSCR requirements and continued to increase its net revenues.

Table 7-4: Communications System Budget to Actual Performance

	A (1/ 'II')	Adopted Budget	Difference	D:# (0/)
	Actual (millions)	(millions)	(millions)	Difference (%)
Operating Revenues				
Retail Sales	\$40.5	\$42.0	(\$1.5)	-3.7%
Wholesale Sales	2.5	2.4	0.1	5.5%
Interest Income	(0.0)	0.1	(0.1)	-102.7%
Miscellaneous Income	1.0	0.2	0.8	367.3%
Total Operating Revenue	\$44.1	\$44.7	(\$0.7)	-1.5%
Operating Expenses				
Cost of Production	\$9.1	\$11.6	(\$2.5)	-21.7%
Other O&M	13.5	13.6	(0.0)	-0.1%
Total Operating Expenses	\$22.6	\$25.2	(\$2.5)	-10.1%
Other Income (Expenses)				
Normal Capital	(\$0.0)	(\$0.2)	\$0.1	-77.4%
Interest on Long Term Debt	(4.8)	(4.3)	(0.5)	11.1%
Principal on Long Term Debt	(4.6)	(5.1)	0.5	-9.4%
Note Payable	(1.7)	(2.4)	0.7	-29.3%
Imputed Tax	(0.5)	(0.9)	0.4	-43.1%
Total Other	(\$11.6)	(\$12.7)	\$1.1	-8.5%
Cash Available for Capital	\$9.8	\$6.9	\$2.9	42.8%

Source: LCG Finance and Accounting

7.7 Accounting and Financial Statements

The accounting responsibilities for LUS Fiber resides with LCG. LCG prepares monthly Financial and Operating Statements for LUS Fiber. These statements include a balance sheet, income statement, and detailed revenues and expenses. As part of LCG, LUS Fiber follows the same fiscal year with the ending date of October 31.

The audit for each fiscal year is generally not available until April of the following year. The detailed financial data included for the Utilities System was primarily based on the monthly Financial and Operating Statements that support and align with the audited CAFR. The tables included in this Report may slightly vary from the tables in the CAFR as numbers may be presented in various ways to calculate metrics. Although the numbers may vary, the differences are not material and do not affect the resulting metrics.

7.7.1 Balance Sheet

A comparative balance sheet is presented in Table 7-5. Total Assets have remained steady over the five years primarily due to renewal and replacement of assets. Since 2017, the Retained Earnings increased due to positive net operating income. There was a significant increase in uncollectible accounts in 2019

due to an upgrade of the billing system. During the upgrade, the Communications System fell behind on writing off uncollectible accounts; however, as the upgrade was completed, the write-offs returned to historical levels and declined back towards historical averages in 2020.

Table 7-5: Communications System Historical Balance Sheet

Total Assets	2017	2018	2019	2020	2021
Communications Plant	\$76,227,066	\$77,827,044	\$78,200,948	\$76,036,947	\$75,099,598
Bonds and Special Accounts	9,404,519	6,014,644	5,920,578	9,946,583	12,807,329
Cash and Cash Equivalent	2,959,953	2,580,711	2,677,170	2,651,089	2,672,725
Accounts Receivable	1,451,287	1,425,507	2,174,550	2,577,723	2,522,031
Reserve for Uncollectible Accounts	(138,185)	(183,659)	(605,788)	(499,419)	(336,588)
Prepayments	256,139	448,868	404,315	400,011	325,207
Inventories	0	0	0	0	0
Deferred Debits	8,496,356	7,252,853	6,864,226	5,852,558	5,492,589
Total Assets	\$98,657,134	\$95,365,968	\$95,635,998	\$96,965,493	\$98,582,893
Total Liabilities & Equity					
Long Term Debt	\$101,210,000	\$96,785,000	\$92,140,000	\$87,260,000	\$82,135,000
Current Liabilities	4,198,360	2,395,408	2,913,130	3,447,363	3,114,140
Long Term Liabilities	41,249,931	39,484,427	37,899,544	36,342,579	34,406,471
Retained Earnings	(48,001,156)	(43,298,868)	(37,316,675)	(30,084,450)	(21,072,718)
Total Liabilities & Fund Equity	\$98,657,134	\$95,365,968	\$95,635,998	\$96,965,493	\$98,582,893

Source: Communications System Financial and Operating Statements

7.7.2 Fund Balances

Article V of LUS Fiber General Bond Ordinance dictates LUS Fibers' funds and accounts and how the 'Flow of Funds' works. Article V creates the following accounts: Receipts, Operating, Sinking Fund, and Capital Additions. In addition, funds may be created as new bonds are issued. Table 7-6 summarizes the beginning balance, receipts, disbursements, and ending balances of the required funds as of 2021. The Total Fund Balances increased by \$2.9 million, or 24 percent, in 2021.

Table 7-6: Communications System Fund Balances as of October 31, 2021 (\$1,000)

				Retained				
	Earnings					Construction		
	Receipts	Operating	Debt Service	Reserve	Capital Additions	Security Deposits	Funds	Total Accounts
Beginning Balance	\$120	\$2,250	\$0	\$0	\$9,798	\$148	\$0	\$12,316
Receipts	44,843	30,159	9,433	0	11,266	22	0	95,723
Disbursements	44,806	30,158	9,433	0	8,425	2	0	92,824
Ending Balance	\$157	\$2,251	\$0	\$0	\$12,639	\$168	\$0	\$15,215

Source: LUS Fiber Funds Cash Flow Statement 2020-2021

7.7.3 Income Statement

Table 7-7 presents the comparative income statement. The Operating Revenues and Operating Expenses have increased consistently since 2016 as the Communications System expanded and gained market

share. Correspondingly, the Net Operating Revenues have increased 5.6 percent annually over the last five years.

Other Income varied over the years as amortization, fund balances, and interest rates changed. While the Net Income before Taxes was negative through 2015, it has been positive since.

Table 7-7: Communications System Income Statement

	2017	2018	2019	2020	2021
Operating Revenues	\$37,217,396	\$38,265,799	\$40,816,572	\$42,878,636	\$43,948,232
Operating Expenses	19,654,241	20,312,983	21,398,164	22,388,190	22,627,854
Net Operating Revenues	\$17,563,155	\$17,952,816	\$19,418,408	\$20,490,446	\$21,320,378
Depreciation	6,869,519	7,369,971	7,901,209	7,736,639	7,172,080
Net Operating Revenues after Depreciation	\$10,693,635	\$10,582,845	\$11,517,199	\$12,753,807	\$14,148,298
Other Income					
Interest Income	\$64,463	\$151,056	\$195,263	\$50,918	(\$1,876)
Unrealized Gain/Loss on Invs		(481)	0	0	0
Amortization of Debt Premium	1,206,147	1,151,434	1,091,581	1,028,753	962,746
Amortization of Debt Discount	(4,118)	(4,118)	(4,118)	(4,118)	(4,118)
Misc. Non Operating Revenue	91,683	135,700	90,273	(15,901)	111,442
Other Operating Gains/Losses	(14,672)	650	687	836	5,878
Total Other Income	\$1,343,503	\$1,434,241	\$1,373,687	\$1,060,489	\$1,074,073
Other Expenses					
Amortized Bond Issuance Costs	\$24,462	\$23,352	\$22,138	\$20,864	\$19,525
Amortized Start Up Costs	96,742	96,742	96,743	96,742	96,742
Amortized 2007 Expense	6,786	6,786	6,785	6,786	6,786
Amortized Loss On Refunding	619,506	591,404	560,663	528,392	494,490
Interest on Long Term Debt	5,206,741	5,004,491	4,783,241	4,550,991	4,306,991
Interest on Long Term Debt - LUS Note	897,753	883,386	862,204	834,802	802,964
Interest on Customer Deposits	(695)	10	23	21	(905)
Extraordinary Charges	0	0	0	0	0
Total Other Expenses	\$6,851,296	\$6,606,172	\$6,331,797	\$6,038,600	\$5,726,593
Net Income Before in Lieu of Tax	\$5,185,843	\$5,410,914	\$6,559,089	\$7,775,696	\$9,495,778
ILOT or Imputed Taxes	686,575	542,800	561,239	543,471	484,047
Net Income	\$4,499,268	\$4,868,114	\$5,997,850	\$7,232,225	\$9,011,732

Source: Communications System Financial and Operating Statements

7.7.4 Cash Flow

Cash flow is an important indicator of municipal utility financial health. Municipal utilities typically operate on a Cash Basis. Cash Basis means that non-cash expenses, such as depreciation are excluded from calculations, but other cash expenses, such as principal payments associated with debt service are included. Since municipally owned utilities are primarily concerned with accumulating sufficient cash balances to meet operating expenses, debt service, capital improvements, and other obligations, the financial results are presented in this manner.

Table 7-8 presents the change in cash due to Operations and Imputed Tax or ILOT for the Communications System over the period 2016 through 2021. These numbers indicate current Communications System revenues have improved from year-to-year as new customers were added to the system. Since 2016, the Communications Systems Net Operating Revenues met operating expenses, debt service, ILOT, or Imputed Tax obligation of the utility, and generated positive cash flow. The 5-year cumulative net margin resulted in a gain of approximately \$47 million.

Table 7-8: Communications System Comparative Cash Flow

	2017	2018	2019	2020	2021	Total
Operating Revenues	\$37,217,396	\$38,265,799	\$40,816,572	\$42,878,636	\$43,948,232	\$203,126,636
Operating Expenses	19,654,241	20,312,983	21,398,164	22,388,190	22,627,854	106,381,433
Net Operating Revenues	\$17,563,155	\$17,952,816	\$19,418,408	\$20,490,446	\$21,320,378	\$96,745,203
Debt Service	\$9,251,741	\$9,429,491	\$9,428,241	\$9,430,991	\$9,431,991	\$46,972,456
Balance After Debt Service	\$8,311,413	\$8,523,325	\$9,990,167	\$11,059,455	\$11,888,387	\$49,772,747
Less ILOT/Imputed Tax	\$686,575	\$542,800	\$561,239	\$543,471	\$484,047	\$2,818,132
Change in Cash due to Operations and ILOT / Imputed Tax	\$7,624,838	\$7,980,525	\$9,428,928	\$10,515,984	\$11,404,341	\$46,954,615

Source: Communications System Financial and Operating Statements

7.8 Historical Capital Improvement Program

LUS uses a capital work order system to track capital expenses. The historical capital presented in Table 7-9 reflects investment in infrastructure funded by the Series 2007 Bonds, Series 2012 Bonds, and retained earnings. The Series 2007 Bonds were issued to build the retail side of the Communications System. The Series 2012 Bonds were issued for customer installations and equipment and various projects.

As mentioned, LUS Fiber attained franchise status in November 2017 to offer communications service outside Lafayette in the City of Broussard, City of Youngsville, and unincorporated areas in the Parish. In 2018, LUS Fiber expanded into Broussard and Youngsville to serve new customers as indicated by the capital spending in 2018. In 2019, LUS Fiber expanded into Carencro. LUS Fiber is continuing to build out targeted areas. As previously noted, during preparation of this report the EDA announced LUS Fiber will be awarded a grant to extend service to underserved commercial areas in St. Martin Parish and Iberia Parish. After the extension through the business districts is complete, LUS Fiber will be able to continue to expand its service territory into the residential neighborhoods passed by the new fiber construction.

Special Equipment

Total Capital

189,772

\$5,994,903

54.984

\$5,328,497

2017 2018 2019 2020 2021 Series 2012A Bonds \$0 \$13,731 \$2,223 \$0 \$0 Series 2012 B Bonds 0 26,213 0 Retained Earnings 4,865,162 8,523,970 7,734,867 5,273,513 5,805,131

50.465

\$8,614,379

247,473

\$7,985,364

Table 7-9: Communications System Historical Capital Improvement Program

11,138

\$4,876,301

Source: Communications System Status of Construction Work Order Reports

7.9 Historical Financial Performance

Since its inception in 2009, the Communications System exhibited steady growth and improved operating margins. The Communications System credit rating from Moody's was increased in 2019 from A3 to A2.

7.9.1 Historical Debt Service Coverage

Communications System debt service for years 2017 through 2021 include the Series 2007 Bonds, Series 2012 Bonds, and Series 2015 Bonds. The Series 2012 Bonds were refunded with the Series 2021 Bonds in FY 2022 on November 1, 2021 which lowered the Communications System debt service. Table 7-10 presents historical debt service and the associated DSCR. In each year since 2017, the DSCR exceeded the minimum coverage requirement of 1.0 required by the Bond Ordinances.

Table 7-10: Communications System Historical Debt Service Coverage

			Net Revenues		
	Operating	Operating	Available for Debt		Debt Service
Year	Revenues	Expenses	Service	Debt Service	Coverage Ratio
2017	\$37,281,859	\$19,654,241	\$17,627,618	\$9,251,741	1.9
2018	\$38,416,855	\$20,312,983	\$18,103,872	\$9,429,491	1.9
2019	\$41,011,835	\$21,398,164	\$19,613,671	\$9,428,241	2.1
2020	\$42,929,555	\$22,388,190	\$20,541,364	\$9,430,991	2.2
2021	\$43,946,357	\$22,627,854	\$21,318,503	\$9,431,991	2.3
	2017 2018 2019 2020	Year Revenues 2017 \$37,281,859 2018 \$38,416,855 2019 \$41,011,835 2020 \$42,929,555	Year Revenues Expenses 2017 \$37,281,859 \$19,654,241 2018 \$38,416,855 \$20,312,983 2019 \$41,011,835 \$21,398,164 2020 \$42,929,555 \$22,388,190	Year Operating Revenues Operating Expenses Available for Debt Service 2017 \$37,281,859 \$19,654,241 \$17,627,618 2018 \$38,416,855 \$20,312,983 \$18,103,872 2019 \$41,011,835 \$21,398,164 \$19,613,671 2020 \$42,929,555 \$22,388,190 \$20,541,364	Year Operating Revenues Operating Expenses Available for Debt Service 2017 \$37,281,859 \$19,654,241 \$17,627,618 \$9,251,741 2018 \$38,416,855 \$20,312,983 \$18,103,872 \$9,429,491 2019 \$41,011,835 \$21,398,164 \$19,613,671 \$9,428,241 2020 \$42,929,555 \$22,388,190 \$20,541,364 \$9,430,991

Source: Communications System Financial and Operating Statements

7.9.2 Revenue Analysis

The Communications System's internet revenues have consistently increased over the last five years as the Communications System expanded as shown in Table 7-11. Cable and telephone revenues fluctuate; however, each remain relatively stable over the last five years. Wholesale and other revenues have fluctuated and include dark fiber lease, late fees, miscellaneous revenues, colocation, and other items.

⁽¹⁾ Operating revenues include interest income and other miscellaneous income.

⁽²⁾ O&M and other expenses include customer service, and A&G costs. Operating expenses do not include ILOT internal loan payments to LUS, and other miscellaneous expenses.

⁽³⁾ Debt service includes the Series 2007 Bonds, Series 2012 Bonds, and Series 2015 Bonds. The 2012 Series Bonds debt service in years 2012 and 2013 was paid for out of capitalized interest. The 2015 debt service includes \$4.77 million paid into the refunded Series 2007 Bonds escrow account.

 Z017
 Z018
 Z019
 Z020
 Z021

 Cable TV
 Image: Control of the c

Table 7-11: Communications System Historical Operating Revenues

Source: Communications System Financial and Operating Statements

7.9.3 Expense Analysis

The cost of goods sold (COGS) increased from 2017 to 2021 as LUS Fiber added customers as presented in Table 7-12. COGS predominantly consists of programming and content costs associated with service offerings. Even though customer acquisition increased during 2021, due to consumers shifting away from higher cost content video services, the COGS was reduced by percent. The Plant Specific Expense averages and increased by percent in 2021. The Plant Specific Expense includes vehicles, furniture, electronics, maintenance, repairs, general maintenance, and other plant related items. The Plant Non-specific Expense have averaged approximately per year and decreased by percent in 2021. The primary cost item in this category is engineering. Customer Operations have averaged over the last five years and decreased percent in 2021. The administrative costs averaged over the past five years and increased by percent in 2021.

Table 7-12: Communications System Historical Operating Expenses

	2017	2018	2019	2020	2021
Cost of Goods Sold					
Plant Specific Expense					
Plant Non Specific Expense					
Customer Operations					
Administrative					
Other Operating Expenses					
Total Operating Expenses					

Source: Communications System Financial and Operating Statements

7.9.4 Credit Event Analysis

LUS Fiber is financially separate from the Utilities System; however, if LUS Fiber fails to transfer to the Paying Agent by the 21st day of the month proceeding an interest payment date the amount equal to the debt service on LUS Fiber Bonds falling due on the first day of the following month (a Credit Event), the Utilities System is required to pay such debt service (but only to the extent of such insufficiency) from revenues available for the payment of Subordinated Indebtedness on deposit in the Capital Additions Fund of the Utilities System. Upon the occurrence of a Credit Event, LUS Fiber must proceed to

discontinue its provision of services, as soon as reasonably practical, taking into consideration minimizing the interruption of services to existing users of LUS Fiber. Pursuant to the ordinances of the City authorizing the issuance of LUS Fiber Bonds, the rate covenant contained in the Bond Ordinances were incorporated by reference into LUS Fiber Bond Ordinance, and the debt service requirements on any Communications System Bonds are treated as amounts payable with respect to Subordinated Indebtedness of the Utilities System for the purposes of the rate covenant under the Bond Ordinances. Table 7-13 shows that if a Credit Event had occurred in 2021, the Utilities System DSCR would have exceeded the minimum coverage requirement of 1.0 required by the Bond Ordinances.

Table 7-13: Credit Event Residual Balance Coverage Calculation

	2021
Utilities System Net Revenues	\$70,812,174
Less Interest Income from Internal Loans	\$802,964
Utilities System Balance Available for Debt Service	\$70,009,210
Less Utilities System Debt Service (1)	\$25,095,600
Less Capital of 7.5% (2)	\$11,984,442
Utilities System Residual Revenues Available for Communications Debt Service	\$32,929,167
Communications System Debt Service (3)	\$9,431,991
Utilities System Debt Service Coverage Ratio for Communications System Debt	3.5

Source: LUS

7.10 Findings and Recommendations

Based on the analysis described herein, Burns & McDonnell and Magellan offer the following observations and recommendations.

- Based on visual inspection of facilities, records audit, and interviews of LUS Fiber staff, the LUS
 Fiber communication network is in good condition, maintained properly and in accordance with
 industry practices.
- At the current customer levels, the Communications System generates sufficient revenues to meet operating and maintenance expenses, debt service, capital improvements, inter-utility loan payments,

⁽¹⁾ Debt service includes the Series 2012 Bonds and Series 2019 Bonds.

⁽²⁾ The Bond Ordinance requires a minimum amount equal to 7.5% of the Adjusted Revenue deposits into the Receipts Account for the purposes of paying capital costs.

⁽³⁾ The debt service in FY 2021 represents debt service on the Series 2012 Bonds and Series 2015 Bonds. The Series 2012 Bonds were refunded in FY 2022 with the Series 2021 Bonds.

- imputed taxes, and all other financial obligations, with a sufficient profit margin to allow the Communications System to spend \$2 million per year on continued network expansion.
- LUS Fiber operates in a competitive market with many private company competitors. LUS Fiber is
 currently performing an organizational and compensation review analysis to assess its position in the
 telecommunication market. The results of this study could assist in LUS Fiber establishing
 benchmarks for organizational structure and compensation packages to maintain its ability to retain
 and recruit experienced, talented employees.
- To further address recruiting talented employees, LUS Fiber is also establishing a pipeline of quality candidates through relationships with educational institutions and internships.
- LUS Fiber has been seeking alternative funding (e.g., grants) outside of the bond market and successfully petitioned to be included in the Louisiana GUMBO program.
- LUS Fiber launched a 4th service line based on a fixed wireless CBRS service.
- LUS Fiber should continue to pursue federal and state grant opportunities and local partnerships to
 extend the network to underserved surrounding areas. A portion of LUS Fiber's future revenue
 growth is based on its ability to expand into nearby underserved areas. LUS Fiber has developed a
 strategy to take advantage of upcoming federal and state broadband infrastructure grant opportunities
 to expand its territory and further grow its customer base.
- LUS Fiber should continue to improve its service catalogue, especially in the enterprise sector. A
 potential revenue opportunity lies in using its excess network capacity to serve additional enterprise
 customers.
- LUS Fiber has vacancies in its current management structure that it is actively looking to fill with qualified and experienced candidates.

8.0 CONTINUING DISCLOSURES - SUMMARY

Government entities that issue bonds must enter into a continuing disclosure agreement to be in compliance with the Securities and Exchange Commission ("SEC") Rule 15c2-12. As part of the continuing disclosure agreement, the Issuer promises to provide certain annual financial information and material event notices to the public. These filings must be made electronically at the EMMA portal. Please refer to Section 9.0 for the Utilities System Continuing Disclosures, Section 10.0 for the LPPA Continuing Disclosures, and Section 11.0 for The Communications System Continuing Disclosures. Each of the following sections contains a table that cross references the required information with tables in the Report.

9.0 CONTINUING DISCLOSURES – UTILITIES SYSTEM

9.1 Introduction

Government entities that issue bonds must enter into a continuing disclosure agreement to be in compliance with the SEC Rule 15c2-12. As part of the continuing disclosure agreement, the issuer promises to provide certain annual financial information and material event notices to the public. These filings must be made electronically at the EMMA portal (www.emma.msrb.org). The Utilities System had the following outstanding debt as of October 31, 2021:

- Utilities Revenue Refunding Bonds, Series 2012
- Utilities Revenue Refunding Bonds, Series 2017
- Utilities Revenue Bonds, Series 2019

At the end of 2016, LUS refunded the majority of the Series 2010 bonds with the Series 2017 Bonds. In 2020, the Series 2010 Bonds were fully redeemed by the proceeds of the Series 2017 Bonds. The Series 2012 Bonds were refunded with the Taxable Utilities Revenue Refunding Bonds Series 2021 in FY 2022. The debt service on the Series 2021 Bonds is included in the projections within these continuing disclosures.

The continuing disclosure agreements for the outstanding bonds require that specific tables contained in the Official Statements must be updated annually. This section contains these required tables, which include forward-looking financial statements based on Burns & McDonnell's current expectations and projections about future events and financial trends regarding the Utilities System. Projections as contained herein reflect estimates of what might occur in the future based on the information available as of the date of this Report. Burns & McDonnell cannot predict the future or guarantee future financial performance of the Utilities System. To the extent that assumptions used in these projections vary from those actually observed, financial performance as presented herein will vary from actual performance. Burns & McDonnell prepared a 10-year projection of financial and operating data for each of the Electric, Water, and Wastewater Systems. Projections are based on Burns & McDonnell's review of historical operating results, the 2021 Budget, visual observations of the Utilities System assets, and other assumptions and considerations as listed in the Report. The projections prepared by Burns & McDonnell are for the Projected Period of November 1, 2021, through October 31, 2031. LUS provided actual historical data for the 2016 through 2021 period.

9.2 Information and Assumptions Relied Upon

The projected operating results for the Utilities System, also referred to as LUS, rely upon information and assumptions gathered in the course of Burns & McDonnell's review. Those assumptions which we relied upon are summarized below.

- LUS is assumed to operate and maintain the Utilities System following prudent utility practices.
 Prudent utility practices mean practices, methods, and acts that would be expected to accomplish the desired results in a workmanlike manner.
- 2. LUS is assumed to continue to hire and maintain competent personnel. If needed, LUS will provide training to personnel to ensure the safety of personnel and reliability of the utilities.
- 3. LUS is assumed to continue to maintain and renew any required permits or approvals related to the utilities including electric, water, and wastewater treatment plants and sites.
- 4. There will not be further regulation of LUS facilities that require major capital expenditures for LUS to comply beyond those referenced in this Report and included in the LUS CIP.
- 5. It is assumed that the Rodemacher Unit 2, Hargis-Hébert Plant, T. J. Labbé Plant, and the future combustion turbine plants will be maintained and operated in good condition throughout the Projected Period.
- 6. It is assumed that the electric transmission and distribution systems will be maintained and operated in good condition throughout the Projected Period.
- 7. It is assumed that the water treatment plants, ground water wells, and distribution system will be maintained and operated in good condition throughout the Projected Period.
- 8. It is assumed that the wastewater treatment plants and collection system will be maintained and operated in good condition throughout the Projected Period.
- 9. It is assumed that all existing contracts will be honored and that the Utilities System would extend or replace any expired contracts as needed.
- 10. It is assumed that standard operating procedure for LUS will continue and will not include the effects of any event outside of LUS's control including events traditionally considered force majeure.
- 11. LUS is assumed to continue to have adequate coal, natural gas, and water supply for operation of the power plants.
- 12. LUS is assumed to continue to have adequate water supply from the Chicot aquifer to meet the customers' needs.
- 13. LUS is assumed to continue to be a market participant in MISO including providing capacity and

- meeting all other operational and financial requirements.
- 14. LUS is assumed to continue to have adequate transmission access in MISO to buy and sell power as needed.
- 15. Utilities System financial and operating data was provided by LUS and LCG. LPPA financial and operating data was provided by LUS, LPPA and Cleco staff. Data provided includes historical financial and operating data for 2017 through 2020, the 2021 Budget, and the LPPA Operating and Capital Budget.
- 16. Burns & McDonnell completed a long-term system load forecast in 2020. The long-term load forecast forms the basis for long term projections of customer growth and energy sales and was used in the 2020 LUS IRP prepared by Burns & McDonnell. Burns & McDonnell completed an update to the load forecast in FY 2022. The results of this forecast were similar to projections made in early 2020.
- 17. Burns & McDonnell prepared an IRP for the electric system in 2020. The IRP contained projections of forecasted fuel usage and cost, MISO wholesale market revenues, MISO wholesale market costs, and power purchase agreement costs for both LUS and LPPA power plants. The IRP assumes Rodemacher Unit 2 is retired in 2027 and is replaced with a simple cycle gas turbine plant of similar capacity. Additional solar capacity and energy is assumed to be added between 2021 and 2029. The IRP has not been updated since early 2020.
- 18. The existing electric rates allow LUS to pass the direct MISO power cost, fuel cost, certain LPPA costs, environmental costs, purchased power costs, and other eligible cost directly to consumers in the form of a fuel charge that is adjusted regularly. This mechanism greatly reduces risk to LUS.
- 19. Future costs associated with emissions or potential environmental compliance have not been included within the projected operating results. Rodemacher Unit 2 is planned to be retired in 2027 and Burns & McDonnell has included preliminary estimated costs for the retirement and closure of the plant. All operating expenses associated with environmental compliance are included in the fuel charge and passed through to customers in the retail electric rates.
- 20. Burns & McDonnell reviewed recent and expected trends for inflation and assumed an inflation rate of 7.5 percent in FY 2022 and FY 2023. The most recent semiannual Blue Chip Economic Indicator projection of GDP was used for long term inflation for FY 2024 to FY 2031. The GDP inflation factor was used to escalate O&M expenses and capital similar to previous years.
- 21. Projected interest cost associated with future LUS bonds were assumed to be 2.5 percent gradually increasing by 0.5 percent per year to 4.0 percent by 2025 with new bonds being financed over 25 years. Bonds are assumed to be issued in FY 2023 for various capital projects. The electric utility is

assumed to issue bonds in FY 2027 for a new gas fired power plant.

22. The forecast assumes that LUS will implement a series of rate increases beginning in FY 2023 for each of the utilities. The rate increases are the anticipated result of a rate study currently underway. The electric utility is assumed to implement 3.0 percent base rate increases in FY 2023 and FY 2024. The wastewater utility is assumed to implement 9.5 percent rate increases in FY 2023, FY 2024, and FY 2025. The water utility is assumed to implement 8.0 percent rate increases in FY 2023, FY 2024, and FY 2025.

9.3 Projected Operating Results Assumptions

Tables with forecasted results over the Projected Period may be found in Section 10 of this Report.

9.4 Revenue Projections

Revenues from each of the three LUS utility systems have realized steady growth as described in this report. LUS saw a temporary decline in energy sales use per customer in the non-residential classes in FY 2020 due to the COVID-19 pandemic, however LUS saw a rebound in use per customer and revenues in FY 2021. The long-term forecast assumes that the number of customers in the electric, water, and wastewater utilities will each grow at approximately 0.4 percent per year over the next 10 years. Rate increases are assumed for both the electric, wastewater, and water utilities over the forecast while the electric utility fuel charge is assumed to adjust as LUS's power cost change.

9.5 Expense Projections

LUS's largest expense is associated with the cost to purchase and generate power for the electric utility system. The projected purchased power cost is based on the 2020 IRP projections prepared by Burns & McDonnell. Fixed expense projections associated with operating the generating units are based historical average levels with escalation. Variations in variable purchased power costs are directly covered by the fuel charge billed to customers. Wholesale transmission costs were projected based on input from LUS. Other electric utility fixed costs such as transmission, distribution, customer costs, A&G expenses, and debt service are recovered through LUS's base electric rates.

Water operating expenses include production, distribution, customer, and A&G expense with water production being the largest. These expense projections are generally based on historical average levels with escalation. Some variable production expenses are escalated based on volumes and changes to electric rates. The water system recovers increases in expenses through periodic rate increases that are proposed in rate studies and require approval by City Council.

Wastewater operating expenses include treatment, collection, customer, and A&G expense with wastewater treatment being the largest. These expense projections are generally based on historical

average levels with escalation. Some variable production expenses are escalated based on volumes and changes to electric rates. The wastewater system recovers increases in expenses through periodic rate increases that are proposed in rate studies and require approval by City Council.

9.6 Debt Service Projections

As of the date of this Report, LUS debt service includes the Series 2010 Bonds, Series 2017 Bonds, Series 2019 Bonds, and Series 2021 Bonds issued in FY 2022 on November 1, 2021. The Series 2021 Bonds refunded the Series 12 Bonds. New debt service includes a new bond issue in FY 2023 for proposed wastewater, water, and electric projects and a bond issue in 2027 for a proposed combustion turbine power plant. The projected debt service coverage ratio exceeds the minimum requirement of 1.0.

9.7 Other Expense Projections

Other expenses include ILOT, normal capital and special equipment, and other miscellaneous expenses. Normal capital and special equipment are projected based on the 2022 budget and escalated for inflation.

9.8 In Lieu of Tax

The ILOT calculation provides for an ILOT payment equal to 12 percent of the Receipts Fund deposits. To be eligible to make the ILOT payment, LUS must first pass an ILOT Test. The ILOT test ensures that the Utilities System retains sufficient cash to meet capital obligations. If cash available after payment of operating expenses and debt service, less 7.5 percent of the Non-fuel Revenues, is greater than 12 percent of the Receipts Fund, LUS passes the test and makes the ILOT payment to the City. If LUS fails the ILOT test, LUS pays the cash available after debt service less 7.5 percent of the Non-fuel Revenues.

9.9 Capital Improvement Programs

The projections include the LUS CIP which reflects capital projects designed to upgrade, renew, and expand the system to meet customer growth requirements. In this Report, the capital plan for years 2022 through 2026 was based on the 2022 Budget provided to Burns & McDonnell on April 1, 2022. The capital plan for 2027 through 2031 was based on historical levels. The five-year CIP is updated annually.

9.10 Bond Reserve Fund and Cash Available

Cash available reflects remaining funds available to LUS once all other credit obligations of LUS are satisfied. LCG has a financial objective that requires a minimum cash balance of \$8,000,000 to be held in an Operation and Maintenance Fund. The Operation and Maintenance Fund resides in the Operating Fund providing a cash reserve to meet system O&M expense requirements. Once O&M expense and debt service obligations are met by LUS, accumulated cash balances are held in a Capital Additions Fund and are applicable to capital projects or other lawful uses. The Period assumes that capital additions for LUS

will be paid with a combination of cash balances available in the Capital Additions Fund and new debt.

9.11 Cross Reference

The following table is provided to assist in cross referencing the information contained in the Continuing Disclosures with the information contained in this Report.

Table 9-1: City of Lafayette, Utilities Revenue Refunding Bonds, Series 2012

Official Statement	Official Statement Page	Official Statement Table	Report Reference
Trends in Finances	35	LCG, LUS Income Statements	Table 9-5
	36	Historical Debt Service Coverage Calculation	Table 3-3

Table 9-2: City of Lafayette, Utilities Revenue Refunding Bonds, Series 2017

Official Statement	Official Statement Page	Official Statement Table	Report Reference	
Trends in Finances	36	LCG, LUS Income Statements	Table 9-5	
	37	Historical Debt Service Coverage Calculation	Table 3-3	

Table 9-3: City of Lafayette, Utilities Revenue Bonds, Series 2019

Official Statement	Official Statement Page	Official Statement Table	Report Reference
Trends in Finances	36	LCG, LUS Income Statements	Table 9-5
	37	Historical Debt Service Coverage Calculation	Table 3-3

Table 9-4: City of Lafayette, Taxable Utilities Revenue Refunding Bonds, Series 2021

Official Statement	Official Statement Page	Official Statement Table	Report Reference
	24	Electric System Largest Retail Customers	Table 10-9
	25	Historical Electric System Retail and Wholesale Sales	Table 4-1
	29	Wastewater System Largest Retail Customers	Table 10-11
	29	Historical Wastewater System Retail Collection	Table 6-1
	33	Water System Largest Retail Customers	Table 10-10
	34	Historical Water System Retail and Wholesale Sales	Table 5-1
	35	Electric System Rate Summary	Table 4-26
	35	Electric System Customer Class Statistics	Table 4-28
	36	Electric Residential Rate Comparison	Table 4-22
	36	Electric Commercial Rate Comparison	Table 4-23
	37	Wastewater System Rate Summary	Table 6-17
	37	Water System Rate Summary	Table 5-24
Trends in Finances	38	LCG, LUS Income Statements	Table 9-5
	39	Historical Debt Service Coverage Calculation	Table 3-3

Table 9-5: LUS Income Statements

	2017	2018	2019	2020	2021
Operating Revenues					
Electric	98,059,005	106,419,392	104,141,323	99,722,977	102,935,936
Electric Retail Fuel Adjustment	76,829,537	72,872,661	73,101,002	65,117,850	76,344,759
Water	19,458,484	21,220,243	20,524,232	21,144,642	21,710,500
Wastewater	30,305,358	31,690,825	30,911,782	30,396,508	31,513,318
Fiber	0	0	0	0	0
Total Operating Revenues	224,652,384	232,203,121	228,678,339	216,381,978	232,504,512
Operating Expenses					
Electric Fuel & Purch Power	89,403,214	88,632,979	79,275,605	74,047,342	90,256,316
Electric Other Production	7,573,414	5,823,932	5,097,410	3,606,585	4,997,512
Other Electric	36,370,497	36,710,947	35,027,667	34,390,320	33,832,947
Water	13,965,819	14,260,225	14,227,206	13,159,106	13,833,990
Wastewater	18,685,538	18,737,163	19,211,514	18,295,187	19,791,589
Fiber	0	0	0	0	0
Total Operating Expenses	165,998,482	164,165,246	152,839,402	143,498,541	162,712,354
Net Operating Revenues	58,653,902	68,037,875	75,838,938	72,883,437	69,792,158
Depreciation	23,960,817	24,555,286	25,130,355	25,189,698	24,589,046
Other Income					
Interest Income	2,020,622	2,868,340	4,695,793	2,904,807	1,020,016
Unrealized Gain/Loss on Invs	(283,409)	(46,380)	399,671	(139,572)	(128,924)
Amortization of Debt Premium	2,995,867	3,544,254	3,639,998	3,769,742	3,555,219
Water Tapping Fees	64,240	72,240	56,760	61,540	71,460
Communications Lease Income	25,378	0	0	11,379	0
Contributions in Aid of Construction	128,155	304,557	0	140,856	0
Misc. Non Operating Revenue	3,335,924	4,188,986	3,141,166	3,633,306	2,412,390
Total Other Income	8,286,777	10,931,997	11,933,388	10,382,059	6,930,161
Other Expenses					
Loss on Disposition of Property	369,488	398,883	309,767	290,397	507,437
Interest Expense	8,916,835	9,622,905	10,362,925	11,184,000	10,535,600
Amortization on Plant	782,767	608,729	600,810	488,306	395,280
Amortization - Other	1,264,007	1,695,453	1,586,946	1,498,590	1,405,838
Interest on Customer Deposits	1,688	4,307	5,331	1,834	1,897
Tax Collections/Non Operating	0	0	0	0	0
Misc Non Operating Expense	3,182,762	2,844,559	3,369,807	3,649,380	1,576,322
	14,517,546	15,174,837	16,235,585	17,112,507	14,422,373
Net Income Before in Lieu of Tax	28,462,316	39,239,748	46,406,385	40,963,291	37,710,901
ILOT	22,568,235	23,708,786	25,051,002	24,679,711	24,056,012
Net Income	5,894,081	15,530,962	21,355,383	16,283,580	13,654,889
Net Positions, Beginning as Restated	505,214,402	503,819,102	519,350,066	540,705,447	556,989,025
Net Positions, Ending	511,108,483	519,350,066	540,705,447	556,989,025	570,643,913

Source: LUS and Official Statement

10.0 CONTINUING DISCLOSURES - LPPA

10.1 Introduction

Government entities that issue bonds must enter into a continuing disclosure agreement to be in compliance with the SEC Rule 15c2-12. As part of the continuing disclosure agreement, the issuer promises to provide certain annual financial information and material event notices to the public. These filings must be made electronically at the EMMA portal (www.emma.msrb.org). LPPA had the following outstanding debt as of October 31, 2021:

- Electric Revenue Bonds, Series 2012
- Electric Revenue Refunding Bonds, Series 2015

The Series 2012 Bonds were refunded with the Taxable Electric Revenue Refunding Bonds Series 2021 in FY 2022. The debt service on the Series 2021 Bonds is included in the projections within these continuing disclosures.

The continuing disclosure agreements for the outstanding bonds require that specific tables contained in the Official Statements must be updated annually. This section contains these required tables. This section contains forward looking financial statements based on Burns & McDonnell's current expectations and projections about future events and financial trends regarding LPPA. Projections as contained herein reflect estimates of what might occur in the future based on the information available to us as of the date of this Report. Burns & McDonnell cannot predict the future or guarantee future financial performance of LPPA. To the extent that assumptions used in these projections vary from those actually observed, financial performance as presented herein will vary from actual performance. Burns & McDonnell prepared a 10-year projection of financial and operating data for LPPA. Projections are based on Burns & McDonnell's review of historical operating results, CLECO's budgets, visual observations of the LPPA assets, and other assumptions and considerations as listed in the Report. The projections prepared by Burns & McDonnell are for the Projected Period of November 1, 2021, through October 31, 2031. LUS provided actual historical data for the 2017 through 2021 period.

10.2 Information and Assumptions Relied Upon

10.3 Revenue Projections

LPPA projected revenues reflect the full cost recovery per the PSC. Therefore, revenues are equivalent to debt service, capital, and meeting reserve requirements.

10.4 Expense Projections

LPPA's largest expense is its fuel cost. Rodemacher Unit 2 is economically dispatched into the MISO market. The projected fuel expense used in the forecast is based on the Burns & McDonnell 2020 IRP. The IRP utilized various assumptions to dispatch the unit using fuel pricing from LUS and market prices. Rodemacher Unit 2 will no longer burn coal beginning in 2027. A new gas fired generation unit is assumed to replace the plant capacity in 2027. The other non-fuel operating expenses for LPPA were provided by CLECO through 2026. Year 2027 is escalated based on inflation. The forecast assumes that the plant is retired in 2028 with minimal continued operating expenses thereafter.

10.5 Debt Service

LPPA fuel, O&M expenses, debt service associated with MATS upgrades, and debt service associated with rail cars are included in the LUS FC calculation. In 2021, approximately 80 percent of LPPA debt service was passed through Schedule FC. LUS Electric System base rates recover the remaining LPPA debt service obligation. LPPA debt service has included the Series 2012 Bonds and Series 2015 Bonds through the end of FY 2021. Beginning in FY 2022 the debt service associated with the Series 2012 Bonds will be replaced with the Series 2021 Bonds debt service. Projected operating results assume no future bond issues to meet LPPA capital requirements. The debt service coverage ratio meets the minimum requirement of 1.0. Because LUS pays 100 percent of LPPA costs, Operating Revenues, provided exclusively from LUS, generally equal Operating Costs including expenses, debt service, and capital spending. To the extent that DSC is greater than 1.0, any available cash is applied to capital improvement projects.

10.6 Capital Improvement Programs

During the Projected Period, the LPPA CIP reflects capital projects designed to maintain the assets for reliability and environmental compliance. The capital projects include low pressure blade replacements, baghouse bag and cage replacements, boiler insulation repair, CCR compliance asset retirement obligation, and other projects related to reliability or improving performance.

10.7 Bond Reserve Fund and Cash Available

LPPA's current Bond Reserve Fund Balance is approximately \$9.55 million as required by the bond ordinance. LPPA also maintains a Reserved and Contingency Fund of approximately \$5.28 million and a Fuel Cost Stability Fund of approximately \$4.5 million.

10.8 Cross Reference

The following table is provided to assist in cross referencing the information contained in the Continuing

Disclosures with the information contained in this Report.

Table 10-1: LPPA Electric Revenue Bonds, Series 2012

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Table 10-2: LPPA Electric Revenue Refunding Bonds, Series 2015

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Debt Service Requirements	5	Series 2015 Bonds Debt Service	Table 10-4
Summary of Historical Operating Results	18	LPPA Historical Operating Results	Table 10-6
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	40	Electric System Residential Rate Comparison	Table 4-22
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	46	Wastewater System Largest Retail Customers	Table 10-11
	46	Wastewater System Residential Rate Comparison	Table 6-13
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	47	Historical & Projected Wastewater Retail Collection	Table 10-15
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	51	Water System Largest Retail Customers	Table 10-10
	52	Water System Residential Rate Comparison	Table 5-20
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	53	Historical & Projected Water Retail and Wholesale Sales	Table 10-17
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	57	Lafayette Utilities Systems Income Statements	Table 9-5
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Table 10-3: LPPA Electric Revenue Refunding Bonds, Series 2021

Official Statement	Official Statement Page	Official Statement Table	Report Reference
Summary of Historical Operating Results	18	LPPA Summary of Historical Operating Results	Table 10-6
Trends in Finances	19	LPPA Summary Statements of Revenues, Expenses and Changes in Fund Net Position	Table 10-7
	20	LPPA Statements of Cash Flows	Table 10-8
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	42	Historical Electric Retail and Wholesale Sales	Table 4-1
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	43	Electric System Customer Class Statistics	Table 4-28
	43	Electric Residential Rate Comparison	Table 4-22
	44	Electric System Commercial Rate Comparison	Table 4-23
	48	Wastewater System Largest Retail Customers	Table 10-11
	49	Historical Wastewater Retails Flows (1000 Gallons)	Table 6-1
	49	Wastewater System Rate Summary	Table 6-17
	53	Water System Largest Retail Customers	Table 10-10
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	57	Utilities System Historical Debt Service Coverage	Table 3-3
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Table 10-4: Debt Service Requirements

	Series 2007	Bonds	Series 2012 and Series	es 2021 Bonds [1]	Series 201	5 Bonds	Total De	ebt Service Requirem	nent
Due Date	Principal	Interest	Principal	Interest	Principal	Interest	Principal	Interest	Total
11/1/2014	\$605,000	\$737,078	\$2,255,000	\$1,362,975	\$0	\$0	\$2,860,000	\$2,100,053	\$4,960,053
5/1/2015	\$0	\$724,978	\$0	\$1,329,150	\$0	\$0	\$0	\$2,054,128	\$2,054,128
11/1/2015	\$630,000	\$724,978	\$2,325,000	\$1,329,150	\$0	\$0	\$2,955,000	\$2,054,128	\$5,009,128
5/1/2016	\$0	\$26,900	\$0	\$1,282,650	\$0	\$532,936	\$0	\$1,842,486	\$1,842,486
11/1/2016	\$660,000	\$26,900	\$2,415,000	\$1,282,650	\$90,000	\$571,003	\$3,165,000	\$1,880,553	\$5,045,553
5/1/2017	\$0	\$13,700	\$0	\$1,234,350	\$0	\$570,103	\$0	\$1,818,153	\$1,818,153
11/1/2017	\$685,000	\$13,700	\$2,510,000	\$1,234,350	\$95,000	\$570,103	\$3,290,000	\$1,818,153	\$5,108,153
5/1/2018	\$0	\$0	\$0	\$1,184,150	\$0	\$569,153	\$0	\$1,753,303	\$1,753,303
11/1/2018	\$0	\$0	\$2,610,000	\$1,184,150	\$800,000	\$569,153	\$3,410,000	\$1,753,303	\$5,163,303
5/1/2019	\$0	\$0	\$0	\$1,131,950	\$0	\$561,153	\$0	\$1,693,103	\$1,693,103
11/1/2019	\$0	\$0	\$2,715,000	\$1,131,950	\$815,000	\$561,153	\$3,530,000	\$1,693,103	\$5,223,103
5/1/2020	\$0	\$0	\$0	\$1,104,800	\$0	\$548,928	\$0	\$1,653,728	\$1,653,728
11/1/2020	\$0	\$0	\$2,770,000	\$1,104,800	\$845,000	\$548,928	\$3,615,000	\$1,653,728	\$5,268,728
5/1/2021	\$0	\$0	\$0	\$1,049,400	\$0	\$536,253	\$0	\$1,585,653	\$1,585,653
11/1/2021	\$0	\$0	\$2,880,000	\$1,049,400	\$865,000	\$536,253	\$3,745,000	\$1,585,653	\$5,330,653
5/1/2022	\$0	\$0	\$0	\$448,131	\$0	\$523,278	\$0	\$971,410	\$971,410
11/1/2022	\$0	\$0	\$3,464,875	\$412,185	\$900,000	\$523,278	\$4,364,875	\$935,463	\$5,300,338
5/1/2023	\$0	\$0	\$0	\$408,235	\$0	\$505,278	\$0	\$913,513	\$913,513
11/1/2023	\$0	\$0	\$3,520,000	\$408,235	\$930,000	\$505,278	\$4,450,000	\$913,513	\$5,363,513
5/1/2024	\$0	\$0	\$0	\$373,035	\$0	\$486,678	\$0	\$859,713	\$859,713
11/1/2024	\$0	\$0	\$3,575,000	\$373,035	\$970,000	\$486,678	\$4,545,000	\$859,713	\$5,404,713
5/1/2025	\$0	\$0	\$0	\$337,285	\$0	\$467,278	\$0	\$804,563	\$804,563
11/1/2025	\$0	\$0	\$3,640,000	\$337,285	\$1,010,000	\$467,278	\$4,650,000	\$804,563	\$5,454,563
5/1/2026	\$0	\$0	\$0	\$300,885	\$0	\$442,028	\$0	\$742,913	\$742,913
11/1/2026	\$0	\$0	\$3,710,000	\$300,885	\$1,065,000	\$442,028	\$4,775,000	\$742,913	\$5,517,913
5/1/2027	\$0	\$0	\$0	\$263,785	\$0	\$415,403	\$0	\$679,188	\$679,188
11/1/2027	\$0	\$0	\$3,780,000	\$263,785	\$1,105,000	\$415,403	\$4,885,000	\$679,188	\$5,564,188
5/1/2028	\$0	\$0	\$0	\$225,985	\$0	\$398,828	\$0	\$624,813	\$624,813
11/1/2028	\$0	\$0	\$3,855,000	\$225,985	\$1,140,000	\$398,828	\$4,995,000	\$624,813	\$5,619,813
5/1/2029	\$0	\$0	\$0	\$187,435	\$0	\$381,016	\$0	\$568,451	\$568,451
11/1/2029	\$0	\$0	\$3,925,000	\$187,435	\$4,325,000	\$381,016	\$8,250,000	\$568,451	\$8,818,451
5/1/2030	\$0	\$0	\$0	\$145,241	\$0	\$272,891	\$0	\$418,132	\$418,132
11/1/2030	\$0	\$0	\$4,055,000	\$145,241	\$4,505,000	\$272,891	\$8,560,000	\$418,132	\$8,978,132
5/1/2031	\$0	\$0	\$0	\$99,623	\$0	\$199,684	\$0	\$299,307	\$299,307
11/1/2031	\$0	\$0	\$4,105,000	\$99,623	\$4,690,000	\$199,684	\$8,795,000	\$299,307	\$9,094,307
5/1/2032	\$0	\$0	\$0	\$51,389	\$0	\$82,434	\$0	\$133,823	\$133,823
11/1/2032	\$0	\$0	\$4,195,000	\$51,389	\$4,885,000	\$82,434	\$9,080,000	\$133,823	\$9,213,823
5/1/2033	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0
11/1/2033	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Source: LUS and Official Statement

^[1] The Series 2012 Bonds were refunded with the Series 2021 Bonds in FY 2022 and the first payment was due on November 1, 2021.

Table 10-5: Annual Operating Expenses – LPPA Share of Unit No. 2

	2017	2018	2019	2020	2021
LPPA Share (MWh)	825,089	1,062,984	1,045,878	656,054	994,006
Fuel	\$26,620,153	\$29,566,005	\$27,808,739	\$19,288,183	\$27,019,447
Operations	3,191,851	3,591,720	2,731,655	3,237,018	3,409,812
Maintenance	7,115,532	5,376,070	5,357,042	6,075,341	6,485,536
Administrative & General	2,729,322	2,778,370	2,793,274	2,744,099	2,966,553
Total Operating Expenses	\$39,656,858	\$41,312,164	\$38,690,711	\$31,344,641	\$39,881,348
Total Operating Expenses (\$/MWh)	48.06	38.86	36.99	47.78	40.12
Total Operating Expenses Less Fuel (\$/MWh)	15.80	11.05	10.40	18.38	12.94

Source: LPPA Manager's Monthly Reports

Table 10-6: LPPA Historical Revenues, Expenses, Balances Available for Debt Service

	2017	2018	2019	2020	2021
Total Operating Revenues	\$47,753,386	\$50,740,877	\$47,202,751	\$37,491,409	\$50,049,857
Total Operating Expenses	39,656,858	41,312,164	38,690,711	31,344,641	39,881,348
Net Operating Revenues	\$8,096,528	\$9,428,713	\$8,512,040	\$6,146,768	\$10,168,509
Other Income	\$321,942	\$548,007	\$1,035,324	\$317,785	\$41,070
Balance Available for Debt Service	\$8,418,470	\$9,976,720	\$9,547,364	\$6,464,553	\$10,209,579
Debt Service	6,926,306	6,916,606	6,916,206	6,922,456	6,916,306
Balance After Debt Service	\$1,492,164	\$3,060,113	\$2,631,158	(\$457,903)	\$3,293,273
Debt Service Coverage Ratio (1)	1.2	1.4	1.4	0.9	1.5

Source: LPPA Manager's Monthly Reports

⁽¹⁾ Debt service includes Series 2007, 2012, and 2015 bonds. In 2015, LPPA refunded the majority of the 2007 bonds. The Series 2007 Bonds final payment was November 1, 2017. Due to a surplus in LPPA's cash balance, the Administration elected not to bill LUS for \$4.5 million of LPPA's capital expenditures in FY 2020. This resulted in a \$4.5 million decrease to LPPA's operating revenue, which in turn caused LPPA's debt service coverage ratio to drop below 1.0. This was a one-time adjustment for FY 2020 only.

Table 10-7: Summary of Revenues, Expenses, and Changes of Fund Net Position

	2017	2018	2019	2020	2021
Operating Revenues:					
Sales of Electric Energy					
City of Lafayette (LUS)	\$47,753,386	\$50,740,877	\$47,202,751	\$37,491,409	\$50,049,857
Operating Expenses					
Production	\$36,927,535	\$38,533,794	\$35,897,437	\$28,600,542	\$36,914,795
Administrative & General	2,729,322	2,778,370	2,793,274	2,744,099	2,966,553
Depreciation	1,479,342	1,727,062	2,314,996	2,354,239	2,278,011
Total Operating Expenses	\$41,136,200	\$43,039,226	\$41,005,707	\$33,698,880	\$42,159,359
Non Operating Revenues (Expenses)					
Other	\$2,294,264	\$485,522	\$631,584	\$499,162	\$492,006
Investment Earnings	321,942	548,007	\$1,035,324	317,785	41,070
Interest on Long Term Debt	(3,636,306)	(3,506,606)	(\$3,386,206)	(3,307,456)	(3,171,306)
Gain (Loss) on Property	(355,715)	(253,343)	\$73,948	0	0
Total	(\$1,375,816)	(\$2,726,420)	(\$1,645,351)	(\$2,490,509)	(\$2,638,230)
Net Income (Loss) for the Period	\$5,241,371	\$4,975,231	\$4,551,693	\$1,302,020	\$5,252,268
Fund Net Positions Beginning	\$76,604,019	\$81,845,390	\$86,820,620	\$91,372,314	\$92,674,334
Fund Net Positions, End of Year	\$81,845,390	\$86,820,621	\$91,372,314	\$92,674,334	\$97,926,601

Source: LPPA Manager's Monthly Reports

Table 10-8: Summary Statements of Cash Flows

	2017	2018	2019	2020	2021
Cash Flows from Operating Activities					
Receipts from customers	\$47,753,386	\$50,740,877	\$47,202,751	\$37,491,409	\$50,049,857
Payments to suppliers for goods & services	(37,860,976)	(33,881,255)	(42,037,771)	(33,645,024)	(33,361,779)
Payments to employees and for employee related costs	(469,117)	(453,085)	(437,879)	(413,642)	(471,979)
Net cash provided (used) by operating activities	\$9,423,293	\$16,406,537	\$4,727,101	\$3,432,743	\$16,216,099
Cash Flows from Capital and Related Financing Activities					
Proceeds from Issuance of Bonds	\$0	\$0	\$0	\$0	\$0
Premium on issuance on bonds	0	0	0	0	0
Payment to escrow agent	0	0	0	0	0
Principal payments on bonds	(3,290,000)	(3,410,000)	(3,530,000)	(3,615,000)	(3,745,000)
interest paid	(3,636,306)	(3,506,606)	(3,386,206)	(3,307,455)	(3,171,306)
Debt issuance costs	0	0	0	0	0
Preliminary survey investigation costs paid	0	0	0	0	0
Proceeds from redesignation of capital assets	0	0	0	0	0
Purchase and construction of capital assets	(4,205,782)	(2,612,658)	(1,786,815)	(2,901,295)	(4,566,665)
Net cash provided (used) by capital and related financing activity	(\$11,132,088)	(\$9,529,264)	(\$8,703,021)	(\$9,823,750)	(\$11,482,971)
Cash Flows from Investing Activities					
Sales (purchases) of investments - net	(\$5,200,000)	(\$11,700,000)	\$11,631,137	(\$1,889,563)	\$1,555,412
Maturities of Investments	5,181,000	2,000,000	0	0	0
Interest Earnings	299,780	578,932	1,013,331	343,193	34,196
Other	0	0	0	0	0
Net Cash provided by investing activities	280,780	(9,121,068)	12,644,468	(1,546,370)	1,589,608
Net increase (decrease) in cash and cash equivalents	(\$1,428,015)	(\$2,243,795)	\$8,668,548	(\$7,937,377)	\$6,322,736
Cash and cash equivalents, beginning of year	\$29,967,244	\$28,539,229	\$26,295,434	\$34,963,982	\$27,026,605
Cash and cash equivalents, end of year	\$28,539,229	\$26,295,434	\$34,963,982	\$27,026,605	\$33,349,341

Source: LPPA Financial Report

Table 10-9: 2020 Large Customers - Electric

Customer	Type of Business	Revenues
University of Louisiana	Higher Education	\$11,333,911
Lafayette General Hospital	Health Care	\$2,887,747
Lafayette Consolidated Gov-Street	L Local Government	\$1,948,034
Our Lady Of Lourdes	Health Care	\$1,838,969
Stuller Inc.	Jewelry Manufacturing	\$1,064,669
International Paper	Paper Products	\$760,853
University Hospital & Clinics Inc	Health Care	\$728,958
Halliburton Gulf Coast Campus	Refining / Petrochemical	\$704,655
Catalyst Recovery	Refining / Petrochemical	\$626,134
Our Lady Of Lourdes Women's & O	Cr Health Care	\$620,091

Source: LUS

Table 10-10: 2020 Large Customers – Water

Customer	Type of Business	Revenues
University of Louisiana	Higher Education	\$272,300
Lafayette General Hospital	Health Care	\$151,049
Our Lady Of Lourdes	Health Care	\$126,033
Bayou Shadows Apartments	Apartment Complex	\$87,206
Borden Company	Dairy Products	\$72,613
Lafayette Parish Correctional Center	Correctional Facility	\$53,082
Pinhook South Apartments	Apartment Complex	\$51,053
South Point Apartments	Apartment Complex	\$44,262
University Hospital & Clinics Inc	Health Care	\$43,162
Stuller Inc	Jewelry Manufacturing	\$41,310

Source: LUS

Table 10-11: 2020 Large Customers – Wastewater

Customer	Type of Business	Revenues
University of Louisiana	Higher Education	\$670,667
Lafayette General Hospital	Health Care	\$277,852
Bayou Shadows Apartments	Apartment Complex	\$255,187
Borden Company	Dairy Products	\$226,144
Our Lady Of Lourdes	Health Care	\$162,599
Lafayette Parish Correctional Cente	r Correctional Facility	\$149,416
Pinhook South Apartments	Apartment Complex	\$148,301
Westport Linen Services	Commercial Laundry	\$132,450
South Point Apartments	Apartment Complex	\$125,272
Emberwood Apartments	Apartment Complex	\$105,749

Source: LUS

Table 10-12: Summary Statement of Revenue, Expenses, and Changes in Fund Net Position

City of Lafayette, Five Years Ending October 31

	2017	2018	2019	2020	2021
Operating Revenues					
Charges for Services	\$220,360,405	\$227,771,102	\$224,216,058	\$213,915,365	\$229,562,977
Miscellaneous	4,995,876	5,014,740	5,284,370	3,078,979	3,076,324
Total Operating Revenues	\$225,356,281	\$232,785,842	\$229,500,428	\$216,994,344	\$232,639,301
Operating Expenses					
Production, Collection, & Cost of Services	\$107,080,241	\$104,674,969	\$95,182,077	\$87,551,122	\$105,998,201
Transmission, Distribution & Treatment	30,885,632	31,179,941	30,327,322	27,780,290	27,094,443
Administrative & General & Customer	28,032,609	28,310,334	27,330,002	28,167,129	29,587,642
ILOT	22,568,235	23,708,786	25,051,002	24,679,711	24,056,012
Depreciation & Amortization on Plant	24,743,583	25,164,015	25,731,165	25,678,004	24,984,326
Total Operating Expenses	\$213,310,300	\$213,038,045	\$203,621,568	\$193,856,256	\$211,720,624
Operating Income	\$12,045,980	\$19,747,797	\$25,878,860	\$23,138,088	\$20,918,677
Non Operating Revenues (Expenses)					
Investment Earnings	\$1,737,213	\$2,821,960	\$5,095,464	\$2,765,235	\$891,092
Interest Expense	(7,186,663)	(7,778,412)	(8,315,204)	(8,914,681)	(10,537,496)
Bond Issuance and Amortization of debt premium and loss on refundings net	0	0	(1,052,697)	0	2,149,380
Gain (Loss) on sale/disposal of assets	(1,006,340)	(398,883)	(309,767)	(290,397)	(507,437)
Federal and State Grant Revenue	(369,488)	0	1,031,268	4,295,576	4,089,440
Hurricane/Flood Expenses	(214,126)	(289,755)	(1,315,835)	(5,667,070)	(4,282,872)
Non Employer Pension Contribution	542,688	556,122	549,266	580,344	624,706
Other	6,710	306,798	(173,356)	200,856	330,224
Total Non Operating Revenues (Expenses)	(\$6,490,006)	(\$4,782,170)	(\$4,490,861)	(\$7,030,137)	(\$7,242,963)
Income Before Contributions	\$5,555,974	\$14,965,627	\$21,387,999	\$16,107,951	\$13,675,714
Capital Contributions and Transfers In (Out)	\$338,106	\$565,337	(\$32,618)	\$175,627	(\$20,826)
Change in Net Positions	\$5,894,080	\$15,530,964	\$21,355,381	\$16,283,578	\$13,654,888
Net Positions, Beginning as Restated	\$505,214,402	\$503,819,102	\$519,350,066	\$540,705,447	\$556,989,025
Net Positions, Ending	\$511,108,483	\$519,350,066	\$540,705,447	\$556,989,025	\$570,643,913

Source: LCG Comprehensive Annual Financial Report

Table 10-13: Electric System Historical and Projected Sales and Revenue

		Retail Sales:			
	Retail Sales	Base Rate	Retail Sales: FC		Total Operating
FY	(MWh)	Revenue	Revenue	Other Revenue	Revenue
2017	1,980,653	\$94,552,196	\$76,829,537	\$4,678,770	\$176,060,504
2018	2,031,847	\$102,886,777	\$72,872,661	\$5,196,252	\$180,955,690
2019	2,004,310	\$100,836,993	\$73,101,002	\$6,027,891	\$179,965,886
2020	1,917,040	\$97,878,860	\$65,117,850	\$3,470,810	\$166,467,519
2021	1,959,364	\$99,763,119	\$76,344,759	\$3,744,026	\$179,851,903
2022	2,012,086	\$102,823,359	\$75,855,657	\$4,711,208	\$183,390,225
2023	2,016,384	\$106,487,039	\$76,098,342	\$5,066,182	\$187,651,563
2024	2,023,228	\$110,232,033	\$78,258,464	\$5,283,494	\$193,773,991
2025	2,029,042	\$110,572,391	\$82,784,899	\$5,523,760	\$198,881,049
2026	2,034,850	\$110,912,452	\$83,143,978	\$5,786,871	\$199,843,302
2027	2,040,659	\$111,252,139	\$85,177,098	\$6,061,200	\$202,490,437
2028	2,046,467	\$111,590,636	\$82,677,271	\$6,225,323	\$200,493,231
2029	2,051,293	\$111,881,343	\$81,949,167	\$6,377,745	\$200,208,255
2030	2,057,092	\$112,221,202	\$83,826,512	\$6,625,451	\$202,673,165
2031	2,061,827	\$112,509,361	\$85,607,041	\$6,865,914	\$204,982,317
Average Growth	0.3%	1.0%	1.4%	4.3%	1.2%

Source: LUS and Burns & McDonnell projections

- (1) Projections based on Burns & McDonnell load forecast.
- (2) Base rate revenue projections include 3% base rate increases in 2023 and 2024.
- (3) Other revenue includes miscellaneous operation revenue and interest income.

Table 10-14: Electric System Historical and Projected Operating Expenses

				Customer		
				Accounts,	Administrative &	Total Operating
FY	Production	Transmission	Distribution	Service & Sales	General	Expenses
2017	\$96,976,628	\$9,192,823	\$12,283,787	\$2,917,554	\$11,976,332	\$133,347,125
2018	\$94,456,911	\$9,275,422	\$12,143,206	\$2,828,513	\$12,463,806	\$131,167,858
2019	\$84,373,015	\$8,612,596	\$11,837,879	\$2,690,275	\$11,886,918	\$119,400,682
2020	\$77,653,928	\$8,438,158	\$10,990,219	\$2,742,846	\$12,219,098	\$112,044,248
2021	\$95,253,828	\$7,103,445	\$11,109,141	\$3,406,175	\$12,214,185	\$129,086,775
2022	\$95,941,243	\$3,594,852	\$12,534,590	\$3,592,243	\$12,744,177	\$128,407,104
2023	\$98,702,267	\$3,813,111	\$13,379,220	\$3,840,101	\$13,285,556	\$133,020,254
2024	\$92,642,429	\$3,888,413	\$13,646,804	\$3,929,539	\$13,551,267	\$127,658,452
2025	\$96,567,517	\$3,966,881	\$13,919,740	\$4,019,065	\$13,822,292	\$132,295,495
2026	\$96,279,635	\$4,045,539	\$14,198,135	\$4,090,810	\$14,098,738	\$132,712,857
2027	\$101,789,018	\$4,127,410	\$14,482,098	\$4,172,428	\$14,380,713	\$138,951,667
2028	\$102,516,173	\$4,209,518	\$14,771,740	\$4,246,275	\$14,668,327	\$140,412,032
2029	\$87,531,494	\$4,293,888	\$15,067,174	\$4,325,428	\$14,961,694	\$126,179,678
2030	\$89,550,090	\$4,379,546	\$15,368,518	\$4,411,845	\$15,260,928	\$128,970,927
2031	\$91,521,976	\$4,467,517	\$15,675,888	\$4,499,807	\$15,566,146	\$131,731,334

Source: LUS and Burns & McDonnell projections

- (1) Production expenses are based on 2020 IRP forecasts and incorporate new contracts for capacity and solar.
- (2) Transmission cost reduction will reduce in FY2022 due to expiration of Cleco contract. LUS estimated forecast expenses.
- (3) Total Operating Expenses do not include ILOT, debt service, capital, or other expenses.

Table 10-15: Wastewater System Historical and Projected Retail Sales and Revenue

	Retail Sales	Retail Sales		Total Operating
FY	(1000 gallons)	Revenue	Other Revenue	Revenue
2017	5,768,832	\$29,706,376	\$1,083,931	\$30,790,307
2018	5,326,815	\$30,977,546	\$1,401,680	\$32,379,226
2019	5,746,278	\$29,910,672	\$2,128,101	\$32,038,772
2020	5,498,088	\$29,861,226	\$1,261,483	\$31,122,710
2021	6,328,515	\$30,119,770	\$1,648,552	\$31,768,322
2022	5,775,872	\$30,602,488	\$1,857,472	\$32,459,959
2023	5,803,942	\$33,657,179	\$1,949,597	\$35,606,776
2024	5,830,126	\$37,033,079	\$1,952,684	\$38,985,763
2025	5,854,835	\$40,734,021	\$1,973,780	\$42,707,801
2026	5,878,560	\$40,899,083	\$2,012,384	\$42,911,468
2027	5,901,138	\$42,687,824	\$2,030,659	\$44,718,483
2028	5,921,993	\$44,564,630	\$2,048,900	\$46,613,530
2029	5,942,931	\$46,498,644	\$2,081,702	\$48,580,346
2030	5,963,869	\$48,534,311	\$2,114,229	\$50,648,540
2031	5,984,888	\$50,673,265	\$2,151,214	\$52,824,479

Source: LUS and Burns & McDonnell projections

- (1) Retail sales are based on projected customer growth and use per customer.
- (2) Revenue projections include 9.5% rate increases in 2023, 2024, and 2025. 4% rate increases assumed for 2027 to 2031.
- (3) Other revenue includes miscellaneous operation revenue and interest income.

Table 10-16: Wastewater System Historical and Projected Operating Expenses

				Customer		
				Accounting,		
				Collecting,	Administrative &	Total Operating
	FY	Treatment	Collection	Service and Info	General	Expenses
	2017	\$6,804,788	\$4,696,927	\$1,345,368	\$5,838,454	\$18,685,538
	2018	\$6,877,281	\$4,722,449	\$1,399,015	\$5,738,418	\$18,737,163
	2019	\$6,987,121	\$5,312,751	\$1,365,016	\$5,546,626	\$19,211,514
	2020	\$6,253,827	\$4,888,522	\$1,318,028	\$5,834,810	\$18,295,187
	2021	\$6,707,776	\$5,497,827	\$1,655,511	\$5,930,475	\$19,791,589
	2022	\$6,807,744	\$6,164,146	\$1,753,075	\$6,029,161	\$20,754,127
	2023	\$7,071,638	\$6,594,226	\$1,876,391	\$6,254,475	\$21,796,731
	2024	\$7,224,973	\$6,741,801	\$1,918,403	\$6,379,565	\$22,264,742
	2025	\$7,374,490	\$6,886,218	\$1,960,651	\$6,507,156	\$22,728,515
	2026	\$7,511,097	\$7,017,871	\$1,996,800	\$6,637,299	\$23,163,067
	2027	\$7,656,330	\$7,158,268	\$2,036,665	\$6,770,045	\$23,621,309
	2028	\$7,787,180	\$7,284,327	\$2,073,992	\$6,905,446	\$24,050,945
	2029	\$7,927,540	\$7,419,850	\$2,113,423	\$7,043,555	\$24,504,369
	2030	\$8,080,232	\$7,567,595	\$2,155,659	\$7,184,426	\$24,987,912
_	2031	\$8,235,677	\$7,718,020	\$2,198,675	\$7,328,115	\$25,480,486

Source: LUS and Burns & McDonnell projections

⁽¹⁾ Total Operating Expenses do not include ILOT, debt service, capital, or other expenses

Table 10-17: Water System Historical and Projected Retail and Wholesale Sales and Revenue

	Retail Sales	Wholesale Sales	Retail Sales	Wholesale Sales		Total Operating
FY	(1000 gallons)	(1000 gallons)	Revenue	Revenue	Other Revenue	Revenue
2017	5,382,447	2,161,051	\$13,862,679	\$5,232,452	\$727,065	\$19,822,196
2018	5,363,552	2,256,911	\$14,821,240	\$6,038,256	\$877,048	\$21,736,544
2019	5,148,605	2,171,928	\$14,425,369	\$5,762,507	\$1,181,598	\$21,369,475
2020	5,075,882	2,191,571	\$14,544,345	\$6,355,680	\$796,531	\$21,696,556
2021	5,063,766	2,322,023	\$14,358,667	\$6,956,818	\$588,817	\$21,904,303
2022	5,282,874	2,386,134	\$15,056,190	\$7,439,504	\$658,626	\$23,154,321
2023	5,308,548	2,464,699	\$16,350,327	\$7,927,019	\$695,389	\$24,972,735
2024	5,332,497	2,525,482	\$17,757,216	\$8,699,502	\$708,560	\$27,165,277
2025	5,355,097	2,585,791	\$19,278,349	\$9,008,970	\$714,923	\$29,002,242
2026	5,376,797	2,639,657	\$19,356,469	\$9,806,081	\$730,783	\$29,893,333
2027	5,397,447	2,695,302	\$20,186,452	\$10,129,483	\$757,679	\$31,073,614
2028	5,416,523	2,752,798	\$21,070,274	\$11,030,783	\$801,679	\$32,902,736
2029	5,435,673	2,812,220	\$22,014,477	\$11,399,853	\$856,518	\$34,270,847
2030	5,454,824	2,873,646	\$22,964,809	\$12,420,002	\$922,826	\$36,307,637
2031	5,474,049	2,937,158	\$23,976,337	\$12,841,631	\$999,891	\$37,817,859

Source: LUS and Burns & McDonnell projections

Table 10-18: Water System Historical and Projected Operating Expenses

	Accounting,		
	Collecting,	Administrative &	Total Operating
FY Production Distribution	Service and Info	General	Expenses
2017 \$5,406,685 \$2,619,286	\$1,128,205	\$4,811,643	\$13,965,819
2018 \$5,495,611 \$2,884,033	\$1,219,158	\$4,661,424	\$14,260,225
2019 \$5,496,311 \$2,889,727	\$1,172,251	\$4,668,916	\$14,227,206
2020 \$5,008,674 \$2,098,086	\$1,295,339	\$4,757,007	\$13,159,106
2021 \$5,246,546 \$2,174,002	\$1,446,359	\$4,967,083	\$13,833,990
2022 \$5,561,427 \$2,671,371	\$1,318,501	\$5,145,093	\$14,696,392
2023 \$5,749,313 \$2,873,270	\$1,410,983	\$5,465,934	\$15,499,499
2024 \$5,918,699 \$2,932,207	\$1,442,463	\$5,575,252	\$15,868,621
2025 \$6,087,363 \$2,992,267	\$1,474,134	\$5,686,757	\$16,240,521
2026 \$6,246,222 \$3,053,499	\$1,501,389	\$5,800,493	\$16,601,602
2027 \$6,414,124 \$3,115,915	\$1,531,365	\$5,916,502	\$16,977,907
2028 \$6,574,546 \$3,179,501	\$1,559,515	\$6,034,833	\$17,348,395
2029 \$6,745,230 \$3,244,390	\$1,589,215	\$6,155,529	\$17,734,364
2030 \$6,928,481 \$3,310,602	\$1,620,976	\$6,278,640	\$18,138,699
2031 \$7,117,614 \$3,378,171	\$1,653,324	\$6,404,213	\$18,553,322

Source: LUS and Burns & McDonnell projections

⁽¹⁾ Retail sales are based on projected customer growth and use per customer. Wholesale sales are based on customer specific forecasts.

⁽²⁾ Retail revenue projections include 8.0% rate increases in 2023, 2024, and 2025. 4% rate increases assumed for 2027 to 2031.

⁽³⁾ Wholesale revenue increases of 8% are included every other year of the forecast beginning in 2022.

⁽⁴⁾ Other revenue includes miscellaneous operation revenue and interest income.

⁽¹⁾ Total Operating Expenses do not include ILOT, debt service, capital, or other expenses.

11.0 CONTINUING DISCLOSURES - COMMUNICATIONS SYSTEM

11.1 Introduction

Government entities that issue bonds must enter into a continuing disclosure agreement to be in compliance with the SEC Rule 15c2-12. As part of the continuing disclosure agreement, the issuer promises to provide certain annual financial information and material event notices to the public. These filings must be made electronically at the EMMA portal (www.emma.msrb.org). LPPA had the following outstanding debt as of October 31, 2021:

- Communications System Revenue Bonds, Series 2012
- Communications System Revenue Refunding Bonds, Series 2015

The Series 2012 Bonds were refunded with the Communications System Revenue Refunding Bonds Series 2021 in FY 2022. The debt service on the Series 2021 Bonds is included in the projections within these continuing disclosures.

The continuing disclosure agreements for the outstanding bonds require that specific tables contained in the Official Statements must be updated annually. This section contains these required tables. This section contains forward looking financial statements based on Burns & McDonnell's current expectations and projections about future events and financial trends regarding the Communications System. Projections as contained herein reflect estimates of what might occur in the future based on the information available to us as of the date of this Report. Burns & McDonnell cannot predict the future or guarantee future financial performance of the Communications System. To the extent that assumptions used in these projections vary from those actually observed, financial performance as presented herein will vary from actual performance. Burns & McDonnell relied upon a 10-year projection prepared by the Communications System for the Projected Period of November 1, 2021, through October 31, 2031. LUS Fiber provided actual historical data for the 2017 through 2021 period.

11.2 Information and Assumptions Relied Upon

The projected operating results for the Communications System rely upon the information and assumptions gathered during the Burns & McDonnell project team review and summarized below.

 Burns & McDonnell assumed the Communications System will operate, maintain, and upgrade headend facilities and other important supporting infrastructure to ensure reliable and technologically competitive service offerings to customers.

- 2. Burns & McDonnell assumed the Communications System will hire and maintain competent personnel. If needed, the Communications System will provide training to personnel to ensure the safety and reliability of the Communications System.
- 3. Burns & McDonnell assumed the Communications System will maintain and renew any required permits or approvals.
- 4. Burns & McDonnell assumed standard operating procedure for the Communications System and Burns & McDonnell did not include the effects of any event outside of the Communications System's control, including force majeure.
- 5. Communications System financial and operating information was provided by the Communications System, LCG, interviews with LUS and LCG staff, and visual observations of the Communications System facilities. Data provided by the Communications System and LCG include historical financial and operating data for years 2017–2021, projected financial and operating data for years 2022–2031, and the 2021 Budget.
- 6. Burns & McDonnell reviewed recent and expected trends for inflation and assumed an inflation rate of 7.5 percent in FY 2022 and FY 2023. The most recent semiannual Blue Chip Economic Indicator projection of GDP was used for long term inflation for FY 2024 to FY 2031. The GDP inflation factor was used to escalate O&M expenses and capital similar to previous years.

11.3 Projected Operating Results Assumptions

11.3.1 Revenue Projections

Since the Communications System inception in 2009, the system has successfully added customers and increased market share within the LUS service territory. The sale of CATV, Internet, and telephone services to retail and wholesale customers directly relates to the Communications System revenues. Projected operating results reflect average annual customer growth of 4.0 percent over the 2022 through 2031 period. The growth assumption results in target market share from the current 43.3 percent to 59.5 percent in 2031. Revenue per customer reflects a blend of CATV, Internet, and telephone services as described earlier in this Report. Retail service pricing levels are projected to be adjusted periodically in consideration of the cost of goods sold and other rising costs. The Communications System pricing practices reflect an opportunistic approach where the development of new or higher value service offerings and competitor price increases provide the Communications System the ability to adjust rates if warranted. The Communications System's pricing strategy is to offer comparable or higher quality services at a lower price than the competition. Additionally, wholesale customer projections remain

constant, at 34 customers, from 2022 to 2031 with revenues of \$3.2 million annually.

11.3.2 Expense Projections

The expense projection includes the cost of goods sold, maintenance of plant, A&G expense, and other miscellaneous expenses. The projected cost of goods sold assumes the 2021 cost per customer (adjusted for historical cost of goods sold inflation) multiplied by the projected number of customers. Other expenses have been escalated based on expectations for inflation over the period 2022 through 2031.

11.3.3 Debt Service

The projected net revenues for debt service exceed the required debt service coverage ratio of 1.0.

11.3.4 Credit Event

If a Credit Event were to occur, bond covenants require that the Utilities System meet the credit obligation of the Communications System with funds available in the Utilities System Capital Additions Fund. The Utilities System has a debt service coverage ratio requirement of 1.0.

11.3.5 Other Expenses

Other expense items include the Communications System's Imputed Tax obligations, repayment of interutility loans from the Utilities System, Operating Account reserve obligations, and other miscellaneous expenses. The Communications System utilized loans from the LUS to fund the fiber system assets purchase, startup costs, and operating costs. The Communications System loans repayment will continue through 2033. The Operating Account reserve obligation was a one-time expense incurred by the Communications System to establish a Communications Systems Operating Account.

11.3.6 Imputed Tax

Pursuant to terms of a regulatory settlement, the Communications System must pay an Imputed Tax. The Imputed Tax is equivalent to paying state and local sales tax, property tax, franchise tax, and income tax. The Communications System's ILOT calculation provides for an ILOT payment up to 12 percent of Adjusted Revenues deposits (revenues less cost of goods sold). However, all or a portion of this payment is made subject to an ILOT test. The ILOT test ensures that the Communications System retains sufficient cash to meet capital obligations. The ILOT test requires that the ILOT payment be no greater than 12 percent of Adjusted Revenues deposits, or the cash balance available after the payment of operating expenses and debt service less 7.5 percent of the Adjusted Revenues deposits. The Communications System tax requirement cannot be less than that required by the Imputed Tax calculation. In 2015, the City-Parish Council approved an ordinance that revises the required ILOT payment. This ordinance

recognizes that the Communications System operates in a competitive environment and the ILOT calculation was a greater expense than Imputed Tax. With the approval of this ordinance, the Communications System pays an ILOT amount equal to Imputed Taxes. The Imputed Tax payments was made to LUS and the City through 2021 as prescribed in the ordinance. Starting in 2020, 100 percent of the Imputed Tax payments started going to the City.

11.3.7 Capital Improvement Program

The CIP includes the ongoing cost of customer installations, head-end, hut, network equipment and upgrades, and other miscellaneous items. In this Report, the capital plan for years 2022 through 2026 was based on the 2022 Budget provided to Burns & McDonnell and 2026 through 2030 was based on historical spending.

11.3.8 Cash Available

Cash available reflects remaining funds available to the Communications System once all other credit obligations of the Communications System are satisfied. For the Communications System, LUS established a financial objective that requires a minimum cash balance of \$2,250,000 to be held in an Operating Account. The Operating Account maintains a cash reserve to meet system O&M expense requirements. Once O&M expense and debt service obligations are met by the Communications System, accumulated cash balances are held in a Capital Additions Fund and are applicable to capital projects or other lawful uses. The Projected Period assumes that there are sufficient cash balances in the Capital Additions Fund to meet the entire Communications System CIP obligation.

11.3.9 Cross Reference

The following table is provided to assist in cross referencing the information contained in the Continuing Disclosures with the information contained in this Report.

Table 11-1: Communication System Revenue Bonds, Series 2012

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Table 11-2: Communication System Revenue Refunding Bonds, Series 2015

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	35	Operating Revenue Summary	Table 7-7
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	60	Electric System Projected Sales and Revenue Forecast	Table 10-13
	61	Electric System Projected Operating Expense	Table 10-14
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	62	Water System Largest Retail Customers	Table 10-10
	65	Water System Capital Improvement Plan (Five Year Plan)	Table 3-5
	66	Water System Projected Sales and Revenue Forecast	Table 10-17
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Table 11-3: Communication System Revenue Refunding Bonds, Series 2021

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	27	Projected Market Penetration	Table 11-4
	28	Operating Revenue Summary	Table 7-7
	29	Communications System Revenue Forecast	Table 11-5
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	30	Communications System Projected Operating Expenses	Table 11-6
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Operating Revenues and Expenses, pages 35-37	34	Communications System Historical Operating Results	Table 7-8
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The Utilities System, pages 38-60	50	Historical Electric Retail and Wholesale Sales	Table 4-1
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Table 11-4: Communications System Number of Customers and Market Penetration

	Number of	Increase in			Increase in LUS	
	Customer	Customer		LUS Target	Target Market	LUS Target
Year	Accounts	Accounts (%)	Market Potential	Market	(%)	Market Share
2017	18,973	4.0%	55,503	50,218	1.4%	37.8%
2018	20,412	7.6%	56,209	50,857	1.3%	40.1%
2019	21,291	4.3%	56,866	51,452	1.2%	41.4%
2020	22,053	3.6%	57,484	52,011	1.1%	42.4%
2021	22,735	3.1%	58,072	52,543	1.0%	43.3%
2022	23,593	3.8%	60,072	53,022	0.9%	44.5%
2023	24,907	5.6%	62,072	53,460	0.8%	46.6%
2024	25,904	4.0%	64,072	53,868	0.8%	48.1%
2025	26,940	4.0%	66,072	54,279	0.8%	49.6%
2026	28,018	4.0%	68,072	54,692	0.8%	51.2%
2027	29,138	4.0%	70,072	55,107	0.8%	52.9%
2028	30,304	4.0%	72,072	55,525	0.8%	54.6%
2029	31,516	4.0%	74,072	55,944	0.8%	56.3%
2030	32,777	4.0%	76,072	55,944	0.0%	58.6%
2031	34,088	4.0%	78,072	57,250	2.3%	59.5%
Average Growth	4.2%		3.0%	0.9%		

⁽¹⁾ Communications customer projections include retail customers with CATV, Internet, and telephone or some combination of the three services. The number of customers reflects the customers at the end of the year. The retail customer projection takes into consideration that the Communications System began serving customers in 2007 as a new market entrant. Historical percentage growth in customers has been significant because the Communications System was new to the market. The projection assumes that percentage increases in annual growth will gradually decline as LUS market presence matures and market penetration reflects levels that consider the presence of several competitors.

⁽²⁾ Projection includes all LUS residential electric customers inside the City limits, as well as other locations passed by LUS Fiber's fiber network.

⁽³⁾ Target market excludes apartments and other multifamily dwellings.

Table 11-5: Communications System Revenue Forecast

		Number of			
	Number of Retail	Wholesale			
Year	Customers	Customers	Retail	Wholesale	Total
2022	23,593	34	\$42,048,032	\$3,163,929	\$45,211,962
2023	24,907	34	\$42,993,085	\$3,179,749	\$46,172,834
2024	25,904	34	\$43,757,517	\$3,179,749	\$46,937,265
2025	26,940	34	\$44,451,419	\$3,179,749	\$47,631,168
2026	28,018	34	\$45,066,736	\$3,179,749	\$48,246,484
2027	29,138	34	\$45,604,693	\$3,179,749	\$48,784,442
2028	30,304	34	\$46,058,163	\$3,179,749	\$49,237,912
2029	31,516	34	\$46,419,709	\$3,179,749	\$49,599,458
2030	32,777	34	\$46,681,577	\$3,179,749	\$49,861,326
2031	34,088	34	\$48,640,485	\$3,189,101	\$51,829,586
Average Growth	4.2%	0.0%	1.6%	0.1%	1.5%

Table 11-6: Communications System Operation and Maintenance Expense

	Cost of Goods		
Year	Sold	Other Expenses	Total Expenses
2022	\$8,779,676	\$14,594,692	\$23,374,368
2023	\$8,337,302	\$15,631,331	\$23,968,633
2024	\$7,925,864	\$15,943,958	\$23,869,822
2025	\$7,468,352	\$16,262,837	\$23,731,189
2026	\$6,961,741	\$16,588,094	\$23,549,835
2027	\$6,402,837	\$16,919,855	\$23,322,693
2028	\$5,788,270	\$17,258,253	\$23,046,523
2029	\$5,114,483	\$17,603,418	\$22,717,900
2030	\$4,377,723	\$17,955,486	\$22,333,209
2031	\$4,738,320	\$18,314,596	\$23,052,916
Average Growth	-6.6%	2.6%	-0.2%

⁽¹⁾ Cost of Goods Sold predominantly consists of programming and content costs associated with service offerings.

⁽²⁾ Includes O&M expenses; other expenses include customer service, and A&G costs. Excludes depreciation.

Operating expenses do not include imputed tax, inter-utility loan payments to LUS, external loan payments, and other miscellaneous expenses.

Table 11-7: Communications System Projected Operating Results

	2022	2023	2024	2025	2026
Operating Revenues					
Retail Sales	\$42,048,032	\$42,993,085	\$43,757,517	\$44,451,419	\$45,066,736
Wholesale Sales	3,163,929	3,179,749	3,179,749	3,179,749	3,179,749
Other Revenues	901,032	970,380	997,868	1,029,345	1,063,206
Total Operating Revenues	\$46,112,994	\$47,143,214	\$47,935,134	\$48,660,513	\$49,309,691
Operating Expenses					
Cost of Goods Sold	\$8,779,676	\$8,337,302	\$7,925,864	\$7,468,352	\$6,961,741
O&M and Other	14,594,692	15,631,331	15,943,958	16,262,837	16,588,094
Total Operating Expenses	\$23,374,368	\$23,968,633	\$23,869,822	\$23,731,189	\$23,549,835
Balance Available for Debt Service	\$22,738,626	\$23,174,580	\$24,065,312	\$24,929,324	\$25,759,856
Debt Service	\$9,540,240	\$9,866,765	\$10,198,965	\$10,477,565	\$10,526,865
Debt Service Coverage Ratio	2.4	2.3	2.4	2.4	2.4
Balance After Debt Service	\$13,198,386	\$13,307,815	\$13,866,347	\$14,451,759	\$15,232,991
Other Income (Expenditures)					
Imputed Tax	(\$722,193)	(\$779,384)	(\$756,416)	(\$713,664)	(\$696,783)
Inter-utility Loan Repayment	(2,422,635)	(2,435,174)	(2,448,215)	(2,461,778)	(2,475,883)
Other Income	69,236	74,428	75,917	77,435	78,984
Total Other Income (Expenditures)	(\$3,075,592)	(\$3,140,130)	(\$3,128,714)	(\$3,098,007)	(\$3,093,682)
Balance Available for Capital	\$10,122,794	\$10,167,686	\$10,737,633	\$11,353,752	\$12,139,308

Table 11-8: Communications System Sources and Uses of Funds

Construction Fund	2022	2023	2024	2025	2026
Sources of Funds					
Beginning Balance	\$0	\$0	\$0	\$0	\$0
Deposits	0	0	0	0	0
Interest Income	0	0	0	0	0
<u>Uses of Funds</u>					
Capital Expenditures	0	0	0	0	0
Construction Fund Ending Balance	\$0	\$0	\$0	\$0	\$0
Cash Available and Capital Additions Fund					
Sources of Funds					
Beginning Balance	\$8,429,663	\$9,724,665	\$10,482,849	\$11,834,860	\$13,323,001
Deposits from Earnings	10,122,794	10,167,686	10,737,633	11,353,752	12,139,308
Other					
<u>Uses of Funds</u>					
Capital Expenditures	(\$8,827,792)	(\$9,409,502)	(\$9,385,622)	(\$9,865,610)	(\$10,379,349)
Operating Account Creation	0	0	0	0	0
Sinking Fund transfer to Refunding	0	0	0	0	0
Retained Earnings Ending Balance	\$9,724,665	\$10,482,849	\$11,834,860	\$13,323,001	\$15,082,961

Table 11-9: Utilities System Historical and Projected Number of Customers by System

Year	Electric	Water	Wastewater
Historical			
2017	66,860	56,302	44,830
2018	67,243	56,564	45,019
2019	68,495	58,316	45,623
2020	69,364	57,412	46,133
2021	70,096	57,891	46,681
Projected			
2022	70,455	58,300	47,095
2023	70,798	58,555	47,324
2024	71,117	58,793	47,538
2025	71,418	59,018	47,739
2026	71,708	59,234	47,933
2027	71,983	59,433	48,117
2028	72,238	59,623	48,287
2029	72,493	59,814	48,458
2030	72,748	60,005	48,628
2031	73,005	60,197	48,800
Average Growth	0.4%	0.4%	0.4%

⁽¹⁾ Electric System projections based on the Load Forecast for LUS developed by Burns & McDonnell.

⁽²⁾ Water System retail customer projections were based on the Electric System customer growth forecast. Wholesale customer growth was based on specific growth forecasts for wholesale customers.

⁽³⁾ Wastewater System customer projections were based on the Electric System customer growth forecast.

Table 11-10: Historical Operating Results

	Tubic II-IU.	motorioui	operating is	Courto		
Operating Revenues		2017	2018	2019	2020	2021
Electric System						
Base Rate - Electric		\$94,552,196	\$102,886,777	\$100,836,993	\$97,878,860	\$99,763,119
Fuel Charge - Electric		76,829,537	72,872,661	73,101,002	65,117,850	76,344,759
Wholesale Sales		177,166	174,622	179,515	157,404	159,823
Other Revenues (1)		4,501,605	5,021,629	5,848,375	3,313,405	3,584,203
Water						
Retail Sales		13,862,679	14,821,240	14,425,369	14,544,345	14,358,667
Wholesale Sales		5,232,452	6,038,256	5,762,507	6,355,680	6,956,818
Other Revenues (1)		727,065	877,048	1,181,598	796,531	588,817
Wastewater						
Retail Sales		29,706,376	30,977,546	29,910,672	29,861,226	30,119,770
Other Revenues (1)		1,083,931	1,401,680	2,128,101	1,261,483	1,648,552
Fiber		0	0	0	0	0
Total Operating Revenues (2)		\$226,673,006	\$235,071,461	\$233,374,132	\$219,286,785	\$233,524,527
Operating Expenses						
Electric System						
Generation		\$7,573,414	\$5,823,932	\$5,097,410	\$3,606,585	\$4,997,512
Fuel - Gas Generation		1,967,322	3,020,362	2,369,957	1,945,110	6,515,336
Purchased Power LPPA		47,753,386	50,740,877	47,202,751	37,491,409	50,049,857
Purchased Power Other		39,682,507	34,871,740	29,702,897	34,610,823	33,691,123
Other		36,370,497	36,710,947	35,027,667	34,390,320	33,832,947
Water		13,965,819	14,260,225	14,227,206	13,159,106	13,833,990
Wastewater		18,685,538	18,737,163	19,211,514	18,295,187	19,791,589
Fiber		0	0	0	0	0
Total Operating Expenses (2)		\$165,998,482	\$164,165,246	\$152,839,402	\$143,498,541	\$162,712,354
Balance Available for Debt Service		\$60,674,525	\$70,906,215	\$80,534,731	\$75,788,244	\$70,812,174
Debt Service		\$21,341,835	\$21,427,905	\$22,732,925	\$25,374,000	\$25,095,600
Debt Service Coverage Ratio (2)		2.8	3.3	3.5	3.0	2.8
Balance After Debt Service		\$39,332,690	\$49,478,310	\$57,801,806	\$50,414,244	\$45,716,574
Other Income						
Interest Income						
Water Tapping Fees		\$64,240	\$72,240	\$56,760	\$61,540	\$71,460
Communications Lease Income		25,378	0	0	11,379	0
Contributions in Aid of Construction		128,155	304,557	0	140,856	0
Misc. Non Operating Revenue		3,335,924	4,188,986	3,141,166	3,633,306	2,412,390
Total Other Income		\$3,553,697	\$4,565,784	\$3,197,926	\$3,847,081	\$2,483,850
Other Expenses						
Interest on Customer Deposits		\$1,688	\$4,307	\$5,331	\$1,834	\$1,897
Tax Collections/Non Operating		0	0	0	0	0
Misc Non Operating Expense		3,182,762	2,844,559	3,369,807	3,649,380	1,576,322
		\$3,184,450	\$2,848,867	\$3,375,138	\$3,651,214	\$1,578,218
Payment in Lieu of Tax		\$22,568,235	\$23,708,786	\$25,051,002	\$24,679,711	\$24,056,012
Available for Bond Reserve & Capital Addition	ons	\$17,133,701	\$27,486,441	\$32,573,592	\$25,930,400	\$22,566,194
Source: LUS	<u> </u>				<u> </u>	

Source: LUS

⁽¹⁾ Other Revenue includes Miscellaneous Operating Revenues and Interest Income.

⁽²⁾ Debt Service was prepared on a cash basis. Debt Service includes the Series 1996 Bonds, Series 2004 Bonds, Series 2010 Bonds, and Series 2012 Bonds. In 2014, the Series 2004 Bonds were partially refunded and defeased by the Series 2012 Bonds. The Series 1996 Bonds matured on November 1, 2017. The Series 2010 Bonds were fully redeemed in 2020 by the proceeds of the Series 2017 Bonds. The Series 2012 Bonds were refunded with the Series 2021 Bonds on November 1, 2021.

⁽³⁾ The Operating Revenues, Expenses, and Debt Service Coverage may differ slightly from LCG's Comprehensive Annual Financial Report.

⁽⁴⁾ Interest Income is included above with Operating Revenues.

			Net Available		Balance	
	Operating	Operating	Revenues for		Available After	Debt Service
FY	Revenues	Expenses	Debt Service	Debt Service	Debt Service	Coverage Ratio
2022	\$239,004,505	\$163,857,623	\$75,146,882	\$23,741,091	\$51,405,791	3.2
2023	\$248,231,074	\$170,316,484	\$77,914,590	\$23,650,100	\$54,264,490	3.3
2024	\$259,925,031	\$165,791,815	\$94,133,216	\$26,007,821	\$68,125,395	3.6
2025	\$270,591,092	\$171,264,531	\$99,326,561	\$26,801,226	\$72,525,335	3.7
2026	\$272,648,102	\$172,477,527	\$100,170,576	\$26,791,894	\$73,378,681	3.7
2027	\$278,282,535	\$179,550,882	\$98,731,653	\$26,770,335	\$71,961,318	3.7
2028	\$280,009,497	\$181,811,371	\$98,198,126	\$36,569,739	\$61,628,386	2.7
2029	\$283,059,448	\$168,418,411	\$114,641,038	\$28,569,824	\$86,071,214	4.0
2030	\$289,629,342	\$172,097,539	\$117,531,803	\$28,576,710	\$88,955,093	4.1
2031	\$295,624,654	\$175,765,141	\$119,859,512	\$28,578,823	\$91,280,689	4.2

Table 11-11: Utilities System Revenues and Debt Service Coverage Ratios

Source: LUS

- (1) Operating Revenues include interest income and other miscellaneous revenue.
- (2) Operating Expenses include O&M and other expenses such as customer service, and A&G costs. Operating Expenses do not include ILOT, normal capital and special equipment, nor other miscellaneous expenses.
- (3) LUS Debt Service was prepared on a cash basis. Debt Service includes the Series 2017 Bonds, Series 2019 Bonds, Series 2021 Bonds, and projected bond issues in 2023 and 2027. The Series 2012 Bonds were refunded with the Series 2021 Bonds in FY 2022 with the first payment due November 1, 2022.

Table 11-12: Utilities System Revenues and Debt Service Coverage Ratios
Assuming a Communications System Default

	Utilities System Net Available		Capital Additions Account,	Net Revenues Available for		Balance	Debt Service Coverage Ratio
	Revenues for	Utilities System	Minimum Capital	Communications	Communications	Available After	from Residual
FY	Debt Service	Debt Service	Requirement	Debt Service	Debt Service	Debt Service	Revenues
2022	\$74,312,080	\$23,741,091	\$12,187,205	\$38,383,783	\$9,540,240	\$28,843,543	4.0
2023	\$77,111,626	\$23,650,100	\$12,865,471	\$40,596,055	\$9,866,765	\$30,729,290	4.1
2024	\$93,382,499	\$26,007,821	\$13,569,689	\$53,804,990	\$10,198,965	\$43,606,025	5.3
2025	\$98,630,182	\$26,801,226	\$14,028,914	\$57,800,043	\$10,477,565	\$47,322,478	5.5
2026	\$99,530,708	\$26,791,894	\$14,145,598	\$58,593,215	\$10,526,865	\$48,066,350	5.6
2027	\$98,150,556	\$26,770,335	\$14,414,676	\$56,965,545	\$10,527,565	\$46,437,980	5.4
2028	\$97,678,151	\$36,569,739	\$14,722,121	\$46,386,290	\$10,531,028	\$35,855,263	4.4
2029	\$114,184,630	\$28,569,824	\$15,004,240	\$70,610,566	\$10,533,953	\$60,076,614	6.7
2030	\$117,141,505	\$28,576,710	\$15,343,247	\$73,221,548	\$10,538,448	\$62,683,101	6.9
2031	\$119,537,969	\$28,578,823	\$15,656,721	\$75,302,424	\$10,531,858	\$64,770,567	7.1

Source: LUS

- (1) LUS Debt Service was prepared on a cash basis. Debt Service includes the Series 2017 Bonds, Series 2019 Bonds, Series 2021 Bonds, and projected bond issues in 2023 and 2027. The Series 2012 Bonds were refunded with the Series 2021 Bonds in FY 2022 with the first payment due November 1, 2022.
- (2) The Bond Ordinances require a minimum amount equal to 7.5 % of the total Non-fuel Revenue deposits into the Receipts Account for the purposes of paying capital costs.
- (3) Debt Service was prepared on a cash basis. Debt Service includes the Series 2015 Bonds and Series 2021 Bonds. No future debt issues are projected to be issued for the Communications System from 2021 through 2030. The Series 2012 Bonds were refunded with the Series 2021 Bonds in FY 2022 with the first payment due November 1, 2022.

12.0 CONTINUING DISCLOSURES-FINANCIAL AND STATISTICAL DATA

12.1 Introduction

This section includes financial and statistical data. LUS provided this data to Burns & McDonnell for inclusion in this continuing disclosure.

LAFAYETTE CONSOLIDATED GOVERNMENT REVENUE BONDS CONTINUING DISCLOSURE

Population of City of Lafayette

Year	Population
1990	94,421
2000	110,257
2007	112,199
2008	111,088
2009	112,640
2010	120,623
2013	122,510
2014	126,066
2015	127,661
2016	127,626
2017	131,191
2018	132,747
2019	134,286
2020	132,333
2021	131,034

Sources: U.S. Census Bureau and Lafayette Economic Development Authority

Assessed Value of Taxable Property of the City

(All dollars in thousands)

(All dollars in thousands)				
Fiscal	Assessed	Fiscal	Assessed	
Year	Value	Year	Value	
2002	673,318	2012	1,220,334	
2003	692,626	2013	1,306,098	
2004	716,544	2014	1,381,041	
2005	785,937	2015	1,461,552	
2006	826,075	2016	1,577,908	
2007	864,797	2017	1,592,059	
2008	905,005	2018	1,586,428	
2009	1,129,670	2019	1,615,615	
2010	1,167,335	2020	1,546,875	
2011	1,178,154	2021	1,548,590	

Source: Lafayette Parish Assessor's Office

LAFAYETTE CONSOLIDATED GOVERNMENT REVENUE BONDS CONTINUING DISCLOSURE

Classification of Property

2021 Assessed Valuation (City of Lafayette)

 Real Estate
 \$1,245,814,829

 Personal Property
 273,899,470

 Public Service Property
 25,823,286

 Total
 \$1,545,537,585

Source: Lafayette Parish Assessor's Office

Millage Rates

3	2017	2018	2019	2020	2021
Parishwide Taxes:					
Schools	4.56	4.59	4.59	4.92	4.92
School District No. 1 -					
Special	7.27	7.27	7.27	7.79	7.79
Special School Improvements	5.00	5.00	5.00	5.35	5.35
School 1985 Operation	16.70	16.70	16.70	17.88	17.88
Courthouse & Jail Maintenance	2.34	2.34	2.34	2.51	2.51
Library (2007-2016)	N/A	N/A	N/A	N/A	N/A
Library (2009-2018)	1.48	1.48	N/A	N/A	N/A
Library (2003-2012)	N/A	N/A	N/A	N/A	N/A
Library (2013-2022)	1.84	1.84	1.84	1.84	1.97
Library (2017-2026)	2.68	2.68	2.91	2.91	2.91
Health Unit Maintenance	N/A	N/A	N/A	N/A	N/A
Juvenile Detention Maintenance	1.17	1.17	1.17	1.25	1.25
Lafayette Economic Development Authority	1.68	1.68	1.68	1.68	1.8
Assessment District	1.44	1.56	1.44	1.67	1.67
Law Enforcement	16.79	16.79	16.79	17.36	17.36
Airport Maintenance	1.58	1.58	1.71	1.71	1.71
Minimum Security Maintenance	1.90	1.90	2.06	2.21	2.21
Bridges and Maintenance	4.17	4.17	4.17	4.47	4.47
Lafayette Parish Bayou Vermillion -					
Bond & Interest	0.17	0.17	0.17	0.1	0.1
Maintenance	0.75	0.75	0.75	0.79	0.79
Drainage Maintenance	3.34	3.34	3.34	3.58	3.58
Public Improvement Bonds	2.75	2.75	2.00	2.00	1.85
Teche-Vermillion Water District	1.41	1.41	1.41	1.41	1.41
Mosquito Abatement & Control	N/A	N/A	N/A	N/A	N/A
Health Unit, Mosquito, Ect.	3.56	3.56	3.56	3.64	3.64
Other Parish and Municipal Taxes:					
Parish Tax (Inside Municipalities)	1.52	1.52	1.52	1.63	1.63
Parish Tax (Outside Municipalities)	3.05	3.05	3.05	3.25	3.25
Lafayette Centre Development District	11.24	12.75	12.75	13.80	15.00
City of Lafayette	17.80	17.80	17.94	17.94	18.19

Sources: Lafayette Parish Assessor and Lafayette Consolidated Government

LAFAYETTE CONSOLIDATED GOVERNMENT REVENUE BONDS CONTINUING DISCLOSURE

Leading Taxpayers

The ten largest property taxpayers of the City and their 2021 assessed valuations follow:

	Name of Taxpayer	Type of Business	2021 Assessed <u>Valuation</u>	
1.	Iberia Bank	Banking	\$17,769,046	
2.	Stuller Inc	Manufacturing	14,191,951	
3.	AT&T / Bellsouth	Telecommunica ions	9,197,796	
4.	Franks Casing	Oil & Gas Support Services	8,943,988	
5.	Wal Mart / Sams	Warehouse Clubs & Supercenters	8,416,589	
6.	Entergy Gulf States	Electric Company	7,791,230	
7.	J P Morgan Chase	Banking	7,521,079	
8.	Home Bank	Banking	7,050,968	
9.	Whitney National Bank	Banking	6,224,358	
10.	PHIInc	Oil & Gas Support Services	6,176,532	
		·· —	\$93,283,537 *	

^{*} Approximately 6.04% of the 2021 assessed valuation of the City. Source: Lafayette Consolidated Government

Sales Tax Collections

The City has collected the following amounts from its 1961 special one percent (1%) sales and use tax initially effective July 1, 1961 and 1985 special one percent sales and use tax ini ially effective July 1, 1985, each effective in perpetuity, for the periods indicated below:

City of Lafayette Combined (61 & 85) Gross Sales Tax Collections

Month Collected	FY 19-20 Actual Collections	FY 20-21 Actual Collections	FY 21-22 Actual Collections
Collected November	\$6,880,764	4.071.551	4,485,263
December	6.953.838	3.790.641	4,467,036
January	7.990.427	4,695,488	5,235,005
February	6.396.301	3,615,819	4,395,208*
March	5,919,877	3,631,288	,,
April	6,172,283	4,753,232	
May	5,276,476	4,504,199	
June	5,988,734	4,434,079	
July	7,000,724	4,857,698	
August	6,782,130	4,279,590	
September	6,480,530	4,108,196	
October	7,853,354	4,521,005	
TOTAL	\$79,695,440	\$51,262,785	\$18,582,511

Source: City of Lafayette. Figures unaudited.

* Latest month for which figures are available

LAFAYETTE CONSOLIDATED GOVERNMENT CASH AND INVESTMENTS BALANCES AS OF OCTOBER, 2021

CASH AND INVESTMENTS

General Operating Funds:

101	General Fund-City	\$ 52,480,220
	Property Tax Escrow Fund	53,480
105	General Fund-Parish	3,495,458
126	Grants-Federal	367,097
127	Grants-State	45,767
128	Grants-Other	145,559
162	Community Development	(278,216)
163	Home Programs	140,390
165	Emergency Shelter Grant	0
166	HUD Home Loan Program	11,626
171	HUD Housing Loan Prog	224,779
185	FHWA I-49 Grant	0
187	FTA Capital	19,789
189	DOTD Travel Management	(89,895)
201	Recreation and Parks	0
203	Municipal Transit System	0
204	Heymann Performing Arts Center	1,691,813
206	Animal Control Shelter	1,781,870
207	Traffic Safety	13,420
209	Combined Golf Courses	0
210	Laf Develop & Revitaliz	33,336
241	Parish Parks & Rec	65,180
252	State Seized/Forfeited Property	76,357
253	Fed Narc Seized /Forfeited Property	15,053
	Criminal Non-support	(41,561)
260	Road & Bridge Maintenance	22,772,692
	Drainage Maintenance	11,723,769
262	Correctional Center	1,146,413
263	Library Fund	30,423,216
	Courthouse Complex	14,672,901
265	Juvenile Detention Facility	4,198,660
266	Public Health Unit	2,703,840
	Criminal Court	0
	Combined Public Health	599,675
271	Mosquito Abatement	713,812

LAFAYETTE CONSOLIDATED GOVERNMENT CASH AND INVESTMENTS BALANCES AS OF OCTOBER, 2021

	CASH AND INVESTMENTS
272 Justice Department Federal Equitable Sharing Fund	69,867
273 Storm Water Management	8,377,021
274 Cultural Economy	700,341
275 Parishwide Street, Drainage, Bridge	8,125,378
276 Parishwide Parks & Rec Proj	668,554
278 Police & Fire Resiliency	10,033,463
279 Parishwide Fire Protection	88,476
297 Parking Program	0
299 Codes & Permits	372,526
550 Environmental Services	5,498,357
551 CNG Service Station	580,514
601 Payroll	3,963,848
605 Unemployment Compensation	(5,739)
607 Group Hospitalization	24,475,863
640 Hurricane Katrina	0
641 Hurricane Rita	0
643 Hurricane Gustav	(136,997)
644 Hurricane Isaac	0
645 2016 August Flood	(274,937)
646 Hurricane Barry	(215,238)
647 COVID19 Emer Preparedness	(31,305)
648 Hurricane Laura	(973,045)
649 Hurricane Delta	(4,530,204)
650 American Rescue Plan /21-City	19,128,329
651 American Rescue Plan /21-Parish	23,734,947
652 Hurricane Ida	(130,333)
701 Central Printing	0
702 Central Vehicle Maintenance	 338,585
Total General Operating Funds	\$ 249,064,770
Debt Service Funds:	
215 1961 City Sales Tax Trust Fund	\$ 700
222 1985 City Sales Tax Trust Fund	0
290 1986 City Sales Tax Trust Fund	658,313
291 1987 City Sales Tax Trust Fund	3,529,917
302 1988 City Sales Tax Trust Fund	6,526,444
303 1989 City Sales Tax Trust Fund	8,292,023
304 1990 City Sales Tax Trust Fund	3,525,050
305 1991 City Sales Tax Trust Fund	7,922,639
356 1992 City Sales Tax Trust Fund	5,532,645
357 1993 City Sales Tax Trust Fund	237,352
358 1994 City Sales Tax Trust Fund	512,286
801 1995 City Sales Tax Trust Fund	1
821 1996 City Sales Tax Trust Fund	0

36,737,369

Total Debt Service Funds

LAFAYETTE CONSOLIDATED GOVERNMENT CASH AND INVESTMENTS BALANCES AS OF OCTOBER, 2021

CASH AND INVESTMENTS

Construction Funds:

 401 Sales Tax Capital Improvement Fund 407 2010 Parish General Obligation Bonds 438 2010 Sales Tax Bond Construction 440 2013 Sales Tax Bond Construction 441 City Combined Bond Fund 	\$ 74,806,566 0 33 0 42,072,996
Total Construction Funds	\$ 116,879,595
Other:	
602 Firemen Pension & Relief603 Police Pension & Relief614 Risk Management	\$ 0 0 5,921,334
Total Other	\$ 5,921,334

LAFAYETTE CONSOLIDATED GOVERNMENT CASH AND INVESTMENTS BALANCES AS OF OCTOBER, 2021

CASH AND INVESTMENTS

Economic	Deve	lopment	Funds:
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\$	593,923
·	539,699
	53,305
	463,959
	32,791
\$	1,683,676
\$	989,277
	6,977,884
	0
	112,194,129
	9,810,601
	17,182,973 54,710,438
	34,710,430
\$	201,865,302
\$	12,346,746
	9,607,472
	4,500,054 9,518,590
	5,283,380
	0
\$	41,256,241
\$	157,149
	2,206,914
	0
	12,638,854
	168,475
\$	15,171,392
\$	668,579,681
	\$ \$ \$

LAFAYETTE CONSOLIDATED GOVERNMENT REVENUE BONDS CONTINUING DISCLOSURE ECONOMIC INDICATORS

Per Capita Personal Income

	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u> 2019</u>	<u>2020</u>
Lafayette Parish \$	44,347 \$	47,603 \$	48,707 \$	49,629 \$	52,507
Louisiana	42,298	43,932	46,207	47,460	50,874
United States	49,246	52,118	54,606	56,490	59,510

Source: U.S. Bureau of Economic Analysis

Effective Buying Income

Median Household Effective Buying Income

Year	Lafay	ette Parish	City	of Lafayette	Louisiana	Nation
2020	\$	58,761	\$	54,139	\$ 50,800	\$ 64,994

Sources: U.S. Census Bureau

Employment

Year	Labor Force	Employment	Unemployment	Parish Rate	State Rate
2002	98,002	93,450	4,552	4.6	6.1
2003	97,675	92,904	4,771	4.9	6.4
2004	98,439	94,047	4,392	4.5	5.9
2005	104,121	98,670	5,451	5.2	7.1
2006	107,716	104,316	3,400	3.2	4.5
2007	110,161	106,874	3,287	3.0	4.3
2008	113,129	109,279	3,850	3.4	4.9
2009	111,996	106,294	5,702	5.1	6.8
2010	113,571	106,487	7,084	6.2	8.0
2011	113,869	107,117	6,752	5.9	7.8
2012	116,591	110,733	5,858	5.0	7.1
2013	118,870	113,007	5,863	4.9	6.7
2014	122,466	116,444	6,022	4.9	6.4
2015	120,075	113,260	6,815	5.7	6.3
2016	114,348	107,348	7,000	6.1	6.0
2017	113,028	107,513	5,515	4.9	5.1
2018	113,337	108,265	5,072	4.5	4.9
2019	113,607	108,685	4,922	4.3	4.8
2020	113,811	105,742	8,069	7.1	8.8

Source: Louisiana Workforce Commission

LAFAYETTE CONSOLIDATED GOVERNMENT REVENUE BONDS CONTINUING DISCLOSURE

The final figures for the Parish for December 2021 were reported as follows:

Year	Labor Force	Employment	Unemployment	Parish Rate	State Rate
December 2021	115,073	111,863	3,210	2.8	*4.4

^{*} The seasonally adjusted rate was 4.4

Source: Louisiana Workforce Commission

The final figures for the Lafayette Metropolitan Statistical Area ("MSA") for December 2021 were reported as follows:

Year	Labor Force	Employment	Unemployment	Parish Rate	State Rate
December 2021	211.668	204.960	6.708	3.2	*4.4

^{*} The seasonally adjusted rate was 4.4

Source: Louisiana Workforce Commission

The following table show the composition of the employed work force in the Lafayette MSA.

Non-Farm Wage and Salary Employment by Major Industry (Employees in Thousands)

	December 2017	December 2018	December 2019	December 2020	December 2021
Mining	13.5	12.9	12.8	9.9	9.9
Construction	9.0	9.7	9.4	9.0	10.7
Manufacturing	15.7	15.7	16.6	14.6	14.8
Trade, Transporation, & Utilities	41.4	42.5	42.7	43.7	41.6
Information	2.5	2.4	2.3	2.3	2.5
Financial Activities	10.4	11	10.9	10.0	10.7
Professional And Business Services	20.2	21.7	21	19.0	21.7
Educational and Health Services	30.5	32.5	33.1	31.3	33.2
Leisure and Hospitality	22.1	22.0	22.0	24.1	21.3
Other Services	7.2	7.1	7.2	6.7	6.8
Government	26.8	27.5	27.8	27.0	26.9
Total	199.3	205.0	205.8	197.6	200.1

Source: U.S. Bureau of Labor Statistics

LAFAYETTE CONSOLIDATED GOVERNMENT REVENUE BONDS CONTINUING DISCLOSURE ANNUAL AVERAGE LAFAYETTE PARISH CONCURRENT ECONOMIC INDICATORS 2017, 2018, 2019, 2020 AND THIRD QUARTER 2021

(All data not seasonally adjusted)

	2017	2018	2019	2020	2021:3
EMPLOYMENT	400.004	400 =00	404.440	101010	400 =00
Total	129,061	130,728	131,140	124,940	126,769
Accommodation and Food Services	14,084	82	13,756	12,527 6,974	13,774 6.624
Administrative and Waste Services Agriculture,Forestry, Fishing, and Hunting	5,733 70	8,598 419	6,205 87	6,974 69	0,024 74
Arts, Entertainment, and Recreation	2,088	5,478	1,948	1,594	74 1.764
Construction	2,000 5,685	5,476 8,270	5,518	5,953	6,463
Educational Services	7,961	6,030	8,365	8,299	7,942
Finance & Insurance	3,501	17,968	3,618	3,587	3,481
Health Care and Social Services	22,078	3,832	23,620	24,010	24,147
Information	2,279	2,146	2,220	1,926	1,968
Management of Companies and Enterprises	2,622	3,608	2,474	1,688	2,206
Manufacturing	7,808	3,149	8,672	7,353	7,963
Mining	8,877	8,477	8,592	6,332	6,432
Other Services, except Public Administration	3,156	2,582	3,200	3,048	3,061
Professional & Technical Services	7,645	6,090	8,717	8,281	8,202
Public Administration	3,685	8,245	3,724	3,668	3,483
Real Estate and Rental and Leasing	3,060	22,727	3,135	2,611	2,689
Retail Trade	18,356	2,013	17,125	17,077	16,537
Transportation & Warehousing.	3,509	14,088	3,982	4,049	4,015
Utilities	424	3,237	420	447	438
Wholesale Trade	6,428	3,689	5,761	5,446	5,507
	Annual	Annual	Annual	Annual	Quarterly
EARNINGS (\$ in Thousands)					
Total	\$5,931,890	\$6,195,914	\$6,318,157	1,698,685,746	1,593,016,421
Total Accommodation and Food Services	\$5,931,890 230,580	\$6,195,914 3,052	\$6,318,157 235,558	1,698,685,746 57,496,272	1,593,016,421 69,808,936
Total Accommodation and Food Services Administrative and Waste Services	\$5,931,890 230,580 209,685	\$6,195,914 3,052 764,490	\$6,318,157 235,558 238,549	1,698,685,746 57,496,272 78,953,362	1,593,016,421 69,808,936 74,155,687
Total Accommodation and Food Services Administrative and Waste Services Agriculture,Forestry, Fishing, and Hunting	\$5,931,890 230,580 209,685 2,482	\$6,195,914 3,052 764,490 27,084	\$6,318,157 235,558 238,549 3,353	1,698,685,746 57,496,272 78,953,362 809,254	1,593,016,421 69,808,936 74,155,687 756,812
Total Accommodation and Food Services Administrative and Waste Services Agriculture, Forestry, Fishing, and Hunting Arts, Entertainment, and Recreation	\$5,931,890 230,580 209,685 2,482 35,087	\$6,195,914 3,052 764,490 27,084 293,123	\$6,318,157 235,558 238,549 3,353 33,910	1,698,685,746 57,496,272 78,953,362 809,254 8,010,542	1,593,016,421 69,808,936 74,155,687 756,812 8,389,170
Total Accommodation and Food Services Administrative and Waste Services Agriculture, Forestry, Fishing, and Hunting Arts, Entertainment, and Recreation Construction	\$5,931,890 230,580 209,685 2,482 35,087 295,648	\$6,195,914 3,052 764,490 27,084 293,123 490,361	\$6,318,157 235,558 238,549 3,353 33,910 295,091	1,698,685,746 57,496,272 78,953,362 809,254 8,010,542 100,872,454	1,593,016,421 69,808,936 74,155,687 756,812 8,389,170 101,480,154
Total Accommodation and Food Services Administrative and Waste Services Agriculture, Forestry, Fishing, and Hunting Arts, Entertainment, and Recreation Construction Educational Services	\$5,931,890 230,580 209,685 2,482 35,087 295,648 330,665	\$6,195,914 3,052 764,490 27,084 293,123 490,361 353,203	\$6,318,157 235,558 238,549 3,353 33,910 295,091 365,194	1,698,685,746 57,496,272 78,953,362 809,254 8,010,542 100,872,454 95,890,828	1,593,016,421 69,808,936 74,155,687 756,812 8,389,170 101,480,154 93,661,998
Total Accommodation and Food Services Administrative and Waste Services Agriculture, Forestry, Fishing, and Hunting Arts, Entertainment, and Recreation Construction Educational Services Finance & Insurance	\$5,931,890 230,580 209,685 2,482 35,087 295,648 330,665 239,273	\$6,195,914 3,052 764,490 27,084 293,123 490,361 353,203 525,883	\$6,318,157 235,558 238,549 3,353 33,910 295,091 365,194 261,533	1,698,685,746 57,496,272 78,953,362 809,254 8,010,542 100,872,454 95,890,828 71,663,801	1,593,016,421 69,808,936 74,155,687 756,812 8,389,170 101,480,154 93,661,998 65,210,120
Total Accommodation and Food Services Administrative and Waste Services Agriculture, Forestry, Fishing, and Hunting Arts, Entertainment, and Recreation Construction Educational Services Finance & Insurance Health Care and Social Services	\$5,931,890 230,580 209,685 2,482 35,087 295,648 330,665 239,273 973,111	\$6,195,914 3,052 764,490 27,084 293,123 490,361 353,203 525,883 192,881	\$6,318,157 235,558 238,549 3,353 33,910 295,091 365,194 261,533 1,083,972	1,698,685,746 57,496,272 78,953,362 809,254 8,010,542 100,872,454 95,890,828 71,663,801 347,438,321	1,593,016,421 69,808,936 74,155,687 756,812 8,389,170 101,480,154 93,661,998 65,210,120 300,317,046
Total Accommodation and Food Services Administrative and Waste Services Agriculture,Forestry, Fishing, and Hunting Arts, Entertainment, and Recreation Construction Educational Services Finance & Insurance Health Care and Social Services Information	\$5,931,890 230,580 209,685 2,482 35,087 295,648 330,665 239,273 973,111 113,650	\$6,195,914 3,052 764,490 27,084 293,123 490,361 353,203 525,883 192,881 113,095	\$6,318,157 235,558 238,549 3,353 33,910 295,091 365,194 261,533 1,083,972 119,024	1,698,685,746 57,496,272 78,953,362 809,254 8,010,542 100,872,454 95,890,828 71,663,801 347,438,321 29,737,370	1,593,016,421 69,808,936 74,155,687 756,812 8,389,170 101,480,154 93,661,998 65,210,120 300,317,046 29,775,748
Total Accommodation and Food Services Administrative and Waste Services Agriculture,Forestry, Fishing, and Hunting Arts, Entertainment, and Recreation Construction Educational Services Finance & Insurance Health Care and Social Services Information Management of Companies and Enterprises	\$5,931,890 230,580 209,685 2,482 35,087 295,648 330,665 239,273 973,111 113,650 228,492	\$6,195,914 3,052 764,490 27,084 293,123 490,361 353,203 525,883 192,881 113,095 255,300	\$6,318,157 235,558 238,549 3,353 33,910 295,091 365,194 261,533 1,083,972 119,024 193,100	1,698,685,746 57,496,272 78,953,362 809,254 8,010,542 100,872,454 95,890,828 71,663,801 347,438,321 29,737,370 40,636,154	1,593,016,421 69,808,936 74,155,687 756,812 8,389,170 101,480,154 93,661,998 65,210,120 300,317,046 29,775,748 40,216,494
Total Accommodation and Food Services Administrative and Waste Services Agriculture,Forestry, Fishing, and Hunting Arts, Entertainment, and Recreation Construction Educational Services Finance & Insurance Health Care and Social Services Information Management of Companies and Enterprises Manufacturing	\$5,931,890 230,580 209,685 2,482 35,087 295,648 330,665 239,273 973,111 113,650 228,492 437,437	\$6,195,914 3,052 764,490 27,084 293,123 490,361 353,203 525,883 192,881 113,095 255,300 194,582	\$6,318,157 235,558 238,549 3,353 33,910 295,091 365,194 261,533 1,083,972 119,024 193,100 530,626	1,698,685,746 57,496,272 78,953,362 809,254 8,010,542 100,872,454 95,890,828 71,663,801 347,438,321 29,737,370 40,636,154 114,553,767	1,593,016,421 69,808,936 74,155,687 756,812 8,389,170 101,480,154 93,661,998 65,210,120 300,317,046 29,775,748 40,216,494 116,079,580
Total Accommodation and Food Services Administrative and Waste Services Agriculture,Forestry, Fishing, and Hunting Arts, Entertainment, and Recreation Construction Educational Services Finance & Insurance Health Care and Social Services Information Management of Companies and Enterprises Manufacturing Mining	\$5,931,890 230,580 209,685 2,482 35,087 295,648 330,665 239,273 973,111 113,650 228,492 437,437 769,080	\$6,195,914 3,052 764,490 27,084 293,123 490,361 353,203 525,883 192,881 113,095 255,300 194,582 560,014	\$6,318,157 235,558 238,549 3,353 33,910 295,091 365,194 261,533 1,083,972 119,024 193,100 530,626 782,913	1,698,685,746 57,496,272 78,953,362 809,254 8,010,542 100,872,454 95,890,828 71,663,801 347,438,321 29,737,370 40,636,154 114,553,767 146,035,942	1,593,016,421 69,808,936 74,155,687 756,812 8,389,170 101,480,154 93,661,998 65,210,120 300,317,046 29,775,748 40,216,494 116,079,580 141,443,052
Total Accommodation and Food Services Administrative and Waste Services Agriculture,Forestry, Fishing, and Hunting Arts, Entertainment, and Recreation Construction Educational Services Finance & Insurance Health Care and Social Services Information Management of Companies and Enterprises Manufacturing Mining Other Services, except Public Administration	\$5,931,890 230,580 209,685 2,482 35,087 295,648 330,665 239,273 973,111 113,650 228,492 437,437 769,080 116,670	\$6,195,914 3,052 764,490 27,084 293,123 490,361 353,203 525,883 192,881 113,095 255,300 194,582 560,014 241,813	\$6,318,157 235,558 238,549 3,353 33,910 295,091 365,194 261,533 1,083,972 119,024 193,100 530,626 782,913 122,363	1,698,685,746 57,496,272 78,953,362 809,254 8,010,542 100,872,454 95,890,828 71,663,801 347,438,321 29,737,370 40,636,154 114,553,767 146,035,942 32,866,913	1,593,016,421 69,808,936 74,155,687 756,812 8,389,170 101,480,154 93,661,998 65,210,120 300,317,046 29,775,748 40,216,494 116,079,580 141,443,052 32,262,286
Accommodation and Food Services Administrative and Waste Services Agriculture,Forestry, Fishing, and Hunting Arts, Entertainment, and Recreation Construction Educational Services Finance & Insurance Health Care and Social Services Information Management of Companies and Enterprises Manufacturing Mining Other Services, except Public Administration Professional & Technical Services	\$5,931,890 230,580 209,685 2,482 35,087 295,648 330,665 239,273 973,111 113,650 228,492 437,437 769,080 116,670 492,294	\$6,195,914 3,052 764,490 27,084 293,123 490,361 353,203 525,883 192,881 113,095 255,300 194,582 560,014 241,813 226,378	\$6,318,157 235,558 238,549 3,353 33,910 295,091 365,194 261,533 1,083,972 119,024 193,100 530,626 782,913 122,363 577,816	1,698,685,746 57,496,272 78,953,362 809,254 8,010,542 100,872,454 95,890,828 71,663,801 347,438,321 29,737,370 40,636,154 114,553,767 146,035,942 32,866,913 167,251,741	1,593,016,421 69,808,936 74,155,687 756,812 8,389,170 101,480,154 93,661,998 65,210,120 300,317,046 29,775,748 40,216,494 116,079,580 141,443,052 32,262,286 132,495,516
Total Accommodation and Food Services Administrative and Waste Services Agriculture,Forestry, Fishing, and Hunting Arts, Entertainment, and Recreation Construction Educational Services Finance & Insurance Health Care and Social Services Information Management of Companies and Enterprises Manufacturing Mining Other Services, except Public Administration Professional & Technical Services Public Administration	\$5,931,890 230,580 209,685 2,482 35,087 295,648 330,665 239,273 973,111 113,650 228,492 437,437 769,080 116,670 492,294 183,885	\$6,195,914 3,052 764,490 27,084 293,123 490,361 353,203 525,883 192,881 113,095 255,300 194,582 560,014 241,813 226,378 348,028	\$6,318,157 235,558 238,549 3,353 33,910 295,091 365,194 261,533 1,083,972 119,024 193,100 530,626 782,913 122,363	1,698,685,746 57,496,272 78,953,362 809,254 8,010,542 100,872,454 95,890,828 71,663,801 347,438,321 29,737,370 40,636,154 114,553,767 146,035,942 32,866,913 167,251,741 55,658,442	1,593,016,421 69,808,936 74,155,687 756,812 8,389,170 101,480,154 93,661,998 65,210,120 300,317,046 29,775,748 40,216,494 116,079,580 141,443,052 32,262,286 132,495,516 52,396,566
Accommodation and Food Services Administrative and Waste Services Agriculture,Forestry, Fishing, and Hunting Arts, Entertainment, and Recreation Construction Educational Services Finance & Insurance Health Care and Social Services Information Management of Companies and Enterprises Manufacturing Mining Other Services, except Public Administration Professional & Technical Services	\$5,931,890 230,580 209,685 2,482 35,087 295,648 330,665 239,273 973,111 113,650 228,492 437,437 769,080 116,670 492,294	\$6,195,914 3,052 764,490 27,084 293,123 490,361 353,203 525,883 192,881 113,095 255,300 194,582 560,014 241,813 226,378	\$6,318,157 235,558 238,549 3,353 33,910 295,091 365,194 261,533 1,083,972 119,024 193,100 530,626 782,913 122,363 577,816 191,421	1,698,685,746 57,496,272 78,953,362 809,254 8,010,542 100,872,454 95,890,828 71,663,801 347,438,321 29,737,370 40,636,154 114,553,767 146,035,942 32,866,913 167,251,741 55,658,442 43,033,846	1,593,016,421 69,808,936 74,155,687 756,812 8,389,170 101,480,154 93,661,998 65,210,120 300,317,046 29,775,748 40,216,494 116,079,580 141,443,052 32,262,286 132,495,516
Total Accommodation and Food Services Administrative and Waste Services Agriculture,Forestry, Fishing, and Hunting Arts, Entertainment, and Recreation Construction Educational Services Finance & Insurance Health Care and Social Services Information Management of Companies and Enterprises Manufacturing Mining Other Services, except Public Administration Professional & Technical Services Public Administration Real Estate and Rental and Leasing	\$5,931,890 230,580 209,685 2,482 35,087 295,648 330,665 239,273 973,111 113,650 228,492 437,437 769,080 116,670 492,294 183,885 175,155	\$6,195,914 3,052 764,490 27,084 293,123 490,361 353,203 525,883 192,881 113,095 255,300 194,582 560,014 241,813 226,378 348,028 1,023,179	\$6,318,157 235,558 238,549 3,353 33,910 295,091 365,194 261,533 1,083,972 119,024 193,100 530,626 782,913 122,363 577,816 191,421 193,183	1,698,685,746 57,496,272 78,953,362 809,254 8,010,542 100,872,454 95,890,828 71,663,801 347,438,321 29,737,370 40,636,154 114,553,767 146,035,942 32,866,913 167,251,741 55,658,442	1,593,016,421 69,808,936 74,155,687 756,812 8,389,170 101,480,154 93,661,998 65,210,120 300,317,046 29,775,748 40,216,494 116,079,580 141,443,052 32,262,286 132,495,516 52,396,566 40,610,149 144,754,780
Total Accommodation and Food Services Administrative and Waste Services Agriculture,Forestry, Fishing, and Hunting Arts, Entertainment, and Recreation Construction Educational Services Finance & Insurance Health Care and Social Services Information Management of Companies and Enterprises Manufacturing Mining Other Services, except Public Administration Professional & Technical Services Public Administration Real Estate and Rental and Leasing Retail Trade	\$5,931,890 230,580 209,685 2,482 35,087 295,648 330,665 239,273 973,111 113,650 228,492 437,437 769,080 116,670 492,294 183,885 175,155 525,066	\$6,195,914 3,052 764,490 27,084 293,123 490,361 353,203 525,883 192,881 113,095 255,300 194,582 560,014 241,813 226,378 348,028 1,023,179 33,426	\$6,318,157 235,558 238,549 3,353 33,910 295,091 365,194 261,533 1,083,972 119,024 193,100 530,626 782,913 122,363 577,816 191,421 193,183 518,698	1,698,685,746 57,496,272 78,953,362 809,254 8,010,542 100,872,454 95,890,828 71,663,801 347,438,321 29,737,370 40,636,154 114,553,767 146,035,942 32,866,913 167,251,741 55,658,442 43,033,846 148,480,596	1,593,016,421 69,808,936 74,155,687 756,812 8,389,170 101,480,154 93,661,998 65,210,120 300,317,046 29,775,748 40,216,494 116,079,580 141,443,052 32,262,286 132,495,516 52,396,566 40,610,149

Source: Louisiana Department of Labor

LAFAYETTE CONSOLIDATED GOVERNMENT REVENUE BONDS CONTINUING DISCLOSURE

The names of the largest employers located in Lafayette Parish are as follows:

	Name of Employer	Type of Business	Approximate No. of Employees
1.	Lafayette Parish School System	Education	4,322
2.	Ochsner Lafayette General	Health Care	4,078
3.	Our Lady of Lourdes Reg Med Ctr	Health Care	2,800
4.	Lafayette Consolidated Government	Public Administration	2,500
5.	University of Louisiana-Lafayette	Education	2,426
6.	WHC Inc.	Oil and Gas Pipeline Construction	1,505
7.	Wal-Mart Stores Inc.	Retail Trade	1,165
8.	Stuller Inc.	Manufacturing	1,061
9.	Lafayette Parish Government	Public Administration	1,031
10.	Superior Energy Services	Oil and Gas Services	834

Source: Lafayette Economic Development Authority

Banking Facilities

The Lafayette Parish are is served by the following banks:

Banks

1st Heritage Credit 3rd District Highway FCU Acadian Federal Credit Union Acadiana Medical Federal Credit Union Advancial Federal Credit Union American Bank & Trust Company Aurora Ranch Mitigation Bank BancorpSouth Bank Bank of Sunset & Trust Company Bayou Federal Credit Union **Business First Bank** Capital One, National Association Chase Bank Commercial Business Loans LLC Community First Bank Cornerstone Financial Credit Union Crescent Bank & Trust **CUSA Federal Credit Union** Family Savings Credit Union Farmers-Merchants Bank & Trust Company Farmers State Bank & Trust Company First Bank & Trust First National Bank First National Developments First Pioneers FCU

Gulf Coat Bank Hancock Whitney Bank Heritage Credit Union Home Bank **HPES IBERIABANK** Investar Bank JD Bank LA Dotd Federal Credit Union Lafayette Schools Federal Credit Union M C Bank & Trust Co. Maple Federal Credit Union MidSouht Bank, N.A. Pedestal Bank Pelican State Credit Union PHI Federal Credit Union Rayne State Bank & Trust Co Regions Bank Section 705 Credit Union South Louisiana Bank St. Landry Bank & Trust Company St. Martin Bank & Trust Company University of LA Credit Union Washington State Bank Woodforest National Bank

Source: Lafayette Economic Development Authority

STATEMENT OF DIRECT AND UNDERLYING BONDED DEBT AS OF NOVEMBER 2, 2021

(The accompanying notes are an integral part of this statement.)

<u>Notes</u>	Name of Issuer & Issue	Interest Rates (%)	Dated <u>Date</u>	Final Maturity <u>Date</u>	Principal Outstanding	Principal Amount Due Within One Year
(1)	Direct Debt of the City of Lafavette, State of Louis	siana				
(2)	Certificates of Indebtedness, Series 2011	3.65	5/11/11	5/01/26	\$ 2,435,000	\$ 445,000
(3)	Utilities Revenue Refunding Bonds, Series 2012	5.0	1/11/13	11/01/28	88,765,000	11,050,000
(3)	Utilities Revenue Refunding Bonds, Series 2017	4.0-5.0	10/13/17	11/01/35	56,685,000	2,915,000
(3)	Utilities Revenue Bonds, Series 2019	5.0	5/01/19	11/01/44	55,605,000	1,320,000
(4)	Public Improvement Sales Tax Refunding Bonds, Series ST-2011C	3.125-5.0	12/08/11	3/01/27	3,730,000	560,000
(4)	Public Improvement Sales Tax Refunding Bonds, Series ST-2012A	3.0-3.125	6/01/12	3/01/28	2,980,000	370,000
(4)	Public Improvement Sales Tax Bonds, Series 2013	3.125-5.0	6/21/13	3/01/38	12,165,000	515,000
(4)	Public Improvement Sales Tax Refunding Bonds,					
(4)	Series 2014A Public Improvement Sales Tax Refunding Bonds,	5.0	10/17/14	3/01/30	11,775,000	1,075,000
(4)	Series 2014C Public Improvement Sales Tax Refunding Bonds,	5.0	12/05/14	3/01/24	7,980,000	3,115,000
(4)	Series 2015A Public Improvement Sales Tax Refunding Bonds,	2.43	12/18/15	3/01/25	2,135,000	300,000
	Series 2016D	2.0-4.0	2/26/16	3/01/32	10,085,000	740,000
(4)	Public Improvement Sales Tax Refunding Bonds, Series 2017A	3.0-5.0	7/18/17	3/01/32	9,490,000	725,000
(4)	Public Improvement Sales Tax Refunding Bonds, Series 2018A	4.0-5.0	12/06/18	3/01/33	17,845,000	1,205,000
(4)	Public Improvement Sales Tax Refunding Bonds, Series 2020	4.0	9/18/20	3/01/34	2,940,000	0
(4)	Taxable Public Improvement Sales Tax Refunding Bonds, Series 2020A	0.562-1.744	9/18/20	3/01/30	7,800,000	0
(4)	Public Improvement Sales Tax Bonds, Series 2020B	1.0-5.0	9/18/20	3/01/45	25,000,000	0
(5)	Public Improvement Sales Tax Refunding Bonds, Series ST-2011D	3.125-5.0	12/08/11	5/01/27	5,340,000	870,000
(5)	Public Improvement Sales Tax Refunding Bonds, Series ST-2012B	3.0-5.0	6/01/12	5/01/28	7,710,000	995,000
(5)	Public Improvement Sales Tax Refunding Bonds, Series 2014B	3.0-3.375	9/26/14	5/01/30	1,205,000	115,000
(5)	Public Improvement Sales Tax Refunding Bonds,	5.0	2/06/15	5/01/24	2,385,000	755,000
(5)	Series 2015 Public Improvement Sales Tax Refunding Bonds,					
(5)	Series 2016A Public Improvement Sales Tax Refunding Bonds,	3.0-5.0	2/26/16	5/01/25	7,245,000	3,120,000
(5)	Series 2016E Public Improvement Sales Tax Refunding Bonds,	2.63	2/26/16	5/01/32	1,340,000	105,000
(5)	Series 2018B Public Improvement Sales Tax Refunding Bonds,	4.0-5.0	12/06/18	5/01/34	16,550,000	960,000
(5)	Series 2019A Taxable Public Improvement Sales Tax Refunding	2.5-5.0	4/11/19	5/01/44	25,950,000	120,000
•	Bonds, Series 2020C	0.562-1.744	9/18/20	5/01/30	5,500,000	0
(5)	Public Improvement Sales Tax Bonds, Series 2020D	1.0-5.0	9/18/20	5/01/45	25,000,000	0
(6)	Communications System Revenue Bonds, Series 2021A	2.75-3	11/18/21	11/01/31	7,000,000	235,000
(6)	Taxable Communications System Revenue Bonds, Series 2021B	2.0-2.3	11/18/21	11/01/31	7,140,000	270,000
(6)	Communications System Revenue Refunding					•
	Bonds, Series 2015	3.5-5.0	8/21/15	11/01/31	67,540,000	5,375,000
(7)	Taxable Limited Tax Refunding Bonds, Series 2020	0.482-1.824	9/18/20	5/01/32	25,835,000	0

				Final		Amount		
		T., 4 4	Datad	Final	Duin ain al	Due		
Madan	N 0 I	Interest	Dated	Maturity	Principal	Within		
<u>Notes</u>	Name of Issuer & Issue	Rates (%)	<u>Date</u>	<u>Date</u>	Outstanding	One Year		
(8)	Underlying Debt of the Parish of Lafayette, State of Louisiana							
(9)	General Obligation Refunding Bonds, Series 2012	3.0-4.0	5/03/12	3/01/28	\$ 9,325,000	\$ 1,180,000		
(9)	General Obligation Refunding Bonds, Series 2014	3.0-4.0	8/01/14	3/01/30	7,415,000	695,000		
(9)	General Obligation Refunding Bonds, Series 2020	3.0-5.0	12/29/20	3/01/35	20,070,000	1,685,000		
(10)	Underlying Debt of the Parish School Board of the Parish of Lafayette, State of Louisiana							
(2)	Refunding Certificates of Indebtedness,							
	Series 2010	3.06	12/29/10	11/01/23	616,000	303,000		
(2)	Certificate of Indebtedness, Series 2015	2.20	8/17/15	11/01/22	1,550,000	1,550,000		
(11)	Sales Tax Revenue Bonds, Series 2018	3.0-5.0	2/27/18	4/01/43	45,380,000	1,290,000		
(11)	Sales Tax Revenue Bonds, Series 2018A	3.0-3.625	7/31/18	4/01/43	19,535,000	630,000		
(11)	Sales Tax Revenue Bonds, Series 2019	2.0-5.0	4/18/19	4/01/49	24,800,000	100,000		
(11)	Taxable Sales Tax Revenue Refunding Bonds,				,,	,		
(11)	Series 2020	0.361-2.83	10/15/20	4/01/48	31,820,000	255,000		
(12)	Limited Tax Bonds (Taxable QSCB), Series 2009	0.8	12/11/09	10/01/24	2,000,001	666,667		
(12)	Limited Tax Bonds (Taxable QSCB), Series 2001	0	3/01/11	10/01/26	3,333,340	666,666		
(12)	Limited Tax Bonds (Taxable QSCB), Series 2012	0	4/03/12	3/01/27	584,310	97,385		
(12)	Limited Tax Bonds (Taxable QSCB), Series 2012 Limited Tax Revenue Bonds, Series 2012A	2.0-4.0	1/04/13	3/01/27	5,805,000	1,510,000		
				12/21/56				
(12)	Limited Tax Revenue Bonds, Series 2016	2.375	12/21/16	12/21/30	74,157,163	1,379,965		
(13)	Taxable Limited Tax Revenue Refunding Bonds,	0.001.1.005	10/15/20	2/01/22	14005000	205.000		
	Series 2020	0.381-1.825	10/15/20	3/01/32	14,905,000	205,000		
(14)	Underlying Debt of the Law Enforcement Distric							
(15)	Limited Tax Revenue Bonds, Series 2012	3.0	3/01/12	3/01/22	1,000,000	1,000,000		
(16)	Taxable Limited Tax Revenue Refunding Bonds,							
	Series 2020	0.4-1.9	10/20/20	3/01/32	13,405,000	160,000		
(17)	Underlying Debt of Lafayette Public Power Authority							
(18)	Electric Revenue Bonds, Series 2012	5.0	12/21/12	11/01/22	2,995,000	2,995,000		
(18)	Electric Revenue Refunding Bonds, Series 2015	3.0-5.0	11/13/15	11/01/32	25,525,000	900,000		
(18)	Taxable Electric Revenue Refunding Bonds,							
	Series 2021	2.0-2.45	11/18/21	11/01/32	38,755,000	395,000		
(19)	Underlying Debt of Lafayette Parish Bayou Vermilion District, State of Louisiana							
(9)	General Obligation Bonds, Series 2016	2.0-2.625	8/30/16	3/01/36	3,395,000	155,000		
(20)	Underlying Debt of Lafayette Parish Waterworks District North, Lafayette Parish, Louisiana							
(3)	Water Revenue Refunding Bonds, Series 2013	2.95	1/29/13	10/01/27	1,864,000	395,000		
(21)	Underlying Debt of Lafayette Parish Waterworks District South, Lafayette Parish, Louisiana							
(3)	Water Revenue Bonds, Series 2018	1.675-3.35	7/26/18	8/01/30	355,000	56,000		
(3)	Water Revenue Bonds, 2021	2.0	3/25/21	8/01/31	2,993,000	283,000		
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Principal

NOTES

- (1) The 2021 total assessed valuation of the City of Lafayette is approximately \$1,545,537,585, all of which is taxable for municipal purposes.
- (2) Secured by and payable solely from an irrevocable pledge and dedication of the excess of annual revenues of the issuer above statutory, necessary and usual charges in each of the fiscal years during which the obligations are outstanding.
- (3) Payable solely from the income and revenues derived or to be derived from the operation of the utility system of the issuer, subject only to the prior payment of the reasonable and necessary expenses of operating and maintaining the system.
- (4) Payable solely from and secured by an irrevocable pledge and dedication of the net avails or proceeds of the 1% sales and use tax being levied and collected by the issuer, pursuant to elections held therein on May 13, 1961, November 20, 1965, March 22, 1977, and July 21, 2001, subject only to the prior payment of the reasonable and necessary costs and expenses of collecting and administering the tax.
- Payable solely from and secured by an irrevocable pledge and dedication of the net avails or proceeds of the 1% sales and use tax being levied and collected by the city, pursuant to elections held therein on May 4, 1985, November 15, 1997, and July 21, 2001, subject only to the prior payment of the reasonable and necessary costs and expenses of collecting and administering the tax.

- (6) The bonds shall be special obligations of the issuer, payable first, from the net income and revenues of the communications system and second, to the amount necessary, from a secondary or subordinance pledge of the revenues of the utilities system.
- (7) Secured by and payable from an irrevocable pledge and dedication of the funds to be derived by the issuer from the levy and collection of a special tax of 5.42 mills (such rate being subject to adjustment from time to time due to reassessment), which the issuer is authorized to impose and collect in each year on all the property subject to taxation within the corporate boundaries of the issuer.
- (8) The 2021 total assessed valuation of the Parish of Lafayette is approximately \$2,632,598,034, of which approximately \$2,214,956,938 is taxable.
- (9) Secured by and payable from unlimited *ad valorem* taxation.
- (10) The 2021 total assessed valuation of the Parish School Board of the Parish of Lafayette is approximately \$2,632,598,034, of which approximately \$2,214,956,938 is taxable.
- (11) Payable solely from and secured by an irrevocable pledge and dedication of the avails or net proceeds of the 1% sales and use tax being levied and collected by the issuer, authorized at an election held on September 18, 1965, subject only to the prior payment of the reasonable and necessary costs and expenses of collecting and administering the tax.
- (12) Secured by and payable from an irrevocable pledge and dedication of the funds to be derived by the issuer from the levy and collection of a special tax of 4.59 mills (such rate being subject to adjustment from time to time due to reassessment), authorized to be levied each year on all the property subject to taxation within the corporate boundaries of the issuer.
- (13) Secured by and payable from an irrevocable pledge and dedication of the funds to be derived by the issuer from the levy and collection of a special tax of 4.92 mills (such rate being subject to adjustment from time to time due to reassessment), authorized to be levied each year on all the property subject to taxation within the corporate boundaries of the issuer.
- (14) The 2021 total assessed valuation of the Law Enforcement District of the Parish of Lafayette is approximately \$2,632,598,034, of which approximately \$2,214,956,938 is taxable.
- (15) Secured by and payable from an irrevocable pledge and dedication of the annual revenues of a special *ad valorem* tax of 8.03 mills (such rate being subject to adjustment from time to time due to reassessment), authorized to be imposed and collected each year on all the property subject to taxation within the boundaries of the issuer.
- (16) Secured by and payable from an irrevocable pledge and dedication of the annual revenues of a special *ad valorem* tax of 8.06 mills (such rate being subject to adjustment from time to time due to reassessment), authorized to be imposed and collected each year on all the property subject to taxation within the boundaries of the issuer.
- (17) The Lafayette Public Power Authority is citywide and levied no ad valorem taxes in 2021.
- (18) Secured by a pledge of project power revenues of the Lafayette Public Power Authority attributable to the project after payment of operating expenses.
- (19) The 2021 total assessed valuation of the Lafayette Parish Bayou Vermilion District is approximately \$2,632,598,034, of which approximately \$2,214,956,938 is taxable.
- (20) Lafayette Parish Waterworks District North, Lafayette Parish, includes an area lying to the North of the Township line between Township 9 South and Township 10 South, except those areas included in any municipality or other water district, and except certain areas adjacent to the City of Lafayette. The district levied no *ad valorem* taxes in 2021.
- (21) Lafayette Parish Waterworks District South, Lafayette Parish, includes an area lying to the South of the Township line between Township 9 South and Township 10 South, except those areas included in any municipality or other water district and/or certain water systems, and except certain areas adjacent to the City of Lafayette. The district levied no *ad valorem* taxes in 2021.

(NOTE: The above statement excludes the outstanding indebtedness of the Lafayette Airport Commission, the Lafayette Economic Development Authority [formerly the Lafayette Harbor, Terminal and Industrial Development District], the I-49 Corridor Economic Development District, the Lafayette Public Trust Financing Authority, Lafayette I-10 Corridor District at Mile Marker 103, the Lafayette Parish Industrial Development Board, District No. 4 Regional Planning and Development Commission, all operating and capital leases and any and all short-term cash flow borrowings.)

SUMMARY DEBT STATEMENT AS OF NOVEMBER 2, 2021

A. <u>Debt of the City of Lafayette</u>

Type of Obligation	Principal Outstanding
Sales Tax Bonds	\$212,150,000
Utilities Revenue Bonds	\$201,055,000
Communications System Revenue Bonds	\$81,680,000
Taxable Revenue Bonds	\$25,835,000
Certificates of Indebtedness	\$2,435,000

B. Debt of the Parish of Lafayette

Type of Obligation Principal Outstanding
Unlimited Ad Valorem Tax Bonds \$40,205,000

C. <u>Debt of the Lafayette Parish School Board</u>

Type of ObligationPrincipal OutstandingSales Tax Bonds\$222,319,814Certificates of Indebtedness\$2,166,000

D. <u>Debt of The Lafayette Parish Law Enforcement District</u>

Type of ObligationPrincipal OutstandingLimited Tax Revenue Bond\$1,000,000Taxable Revenue Bond\$13,405,000

E. <u>Debt of the Lafayette Public Power Authority</u>

Type of Obligation Principal Outstanding
Electric Revenue Bonds \$67,275,000

F. Partially Underlying Debt of the Lafayette Parish Waterworks District North

Type of Obligation
Water Revenue Bonds
Principal Outstanding
\$1,864,000

G. Partially Underlying Debt of the Lafayette Parish Waterworks District South

Type of Obligation Principal Outstanding
Water Revenue Bonds \$3,348,000

(NOTE: The above statement excludes the outstanding indebtedness of the Lafayette Airport Commission, the Lafayette EconomicDevelopment Authority [formerly the Lafayette Harbor, Terminal and Industrial Development District], the Lafayette Public TrustFinancing Authority, Lafayette Industrial Development Board, Lafayette I-10 Corridor District at Mile Marker 103, District No. 4Regional Planning and Development Commission, and all operating and capital leases.)



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