

ELECTRIC FUND
REVENUES

ELECTRIC FUND REVENUES SUMMARY

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FUTURE	TOTAL
REVENUE SOURCES							
Electric Revenue	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 2,100,000
Interest Earned	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 3,000
TOTALS	\$ 350,500	\$ 350,500	\$ 350,500	\$ 350,500	\$ 350,500	\$ 350,500	\$ 2,103,000
HISTORICAL DATA							
Average % Capital vs. Revenue	30%	30%	30%	30%	30%	30%	30%
Capital Based on Average %	\$ 105,150	\$ 105,150	\$ 105,150	\$ 105,150	\$ 105,150	\$ 105,150	\$ 630,900
DEBT SERVICE							
Existing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Proposed	\$ -	\$ -	\$ -	\$ 15,600	\$ 15,600	\$ 124,800	\$ 156,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL	\$ -	\$ -	\$ -	\$ 15,600	\$ 15,600	\$ 124,800	\$ 156,000
Revenue Classifications							
Operating Revenues	\$ 101,000	\$ 55,000	\$ 87,000	\$ 10,000	\$ -	\$ -	\$ 253,000
Impact Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt/Financing	\$ -	\$ -	\$ -	\$ 15,600	\$ 15,600	\$ 124,800	\$ 156,000
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL	\$ 101,000	\$ 55,000	\$ 87,000	\$ 25,600	\$ 15,600	\$ 124,800	\$ 409,000
Expenditure Classifications							
Planning/Design/Engineering	\$ 40,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,000
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ 30,000	\$ 87,000	\$ 10,000	\$ -	\$ -	\$ 127,000
Equipment	\$ 61,000	\$ 25,000	\$ -	\$ 15,600	\$ 15,600	\$ 124,800	\$ 242,000
Hardware/Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL	\$ 101,000	\$ 55,000	\$ 87,000	\$ 25,600	\$ 15,600	\$ 124,800	\$ 409,000

ELECTRIC FUND
EXPENDITURES

720000 - ELECTRIC OPERATIONS

720000 - ELECTRIC OPERATIONS SUMMARY

The Town of Lake Lure's Hydroelectric Department is responsible for the Dam Hydroelectric System and the wastewater system. The primary responsibility in managing the hydroelectric system is to maximize electricity generation while controlling the level of the lake.

PROJECT DESCRIPTION	PRIORITY CODE	FY 17-18	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FUTURE	TOTAL
Dam Emergency Action Plan	1	\$ 40,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,000
Control Panel Relays	2	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000
Floodgate Motor Replacement	3	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,000
Generator #2 Turbine Bearings	4	\$ 6,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,000
Tainter Gate Cables	5	\$ 40,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,000
Penstock Repairs	C	\$ -	\$ 30,000	\$ -	\$ -	\$ -	\$ -	\$ 30,000
Butterfly Valves Automation	D	\$ -	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000
Tainter Gate Hoist Cover	D	\$ -	\$ -	\$ 87,000	\$ -	\$ -	\$ -	\$ 87,000
Aerial Lift	D	\$ -	\$ -	\$ -	\$ 15,600	\$ 15,600	\$ 124,800	\$ 156,000
Dredge Tailrace	C	\$ -	\$ -	\$ -	\$ 10,000	\$ -	\$ -	\$ 10,000
TOTALS		\$ 101,000	\$ 55,000	\$ 87,000	\$ 25,600	\$ 15,600	\$ 124,800	\$ 409,000

Expenditure Classifications

Planning/Design/Engineering	\$ 40,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,000
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ 30,000	\$ 87,000	\$ 10,000	\$ -	\$ -	\$ -	\$ 127,000
Equipment	\$ 61,000	\$ 25,000	\$ -	\$ 15,600	\$ 15,600	\$ 124,800	\$ -	\$ 242,000
Hardware/Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTALS	\$ 101,000	\$ 55,000	\$ 87,000	\$ 25,600	\$ 15,600	\$ 124,800	\$ -	\$ 409,000

Revenue Classifications

Operating Revenues - General	\$ 101,000	\$ 55,000	\$ 87,000	\$ 10,000	\$ -	\$ -	\$ -	\$ 253,000
Operating Funds - Powell Bill	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt/Financing	\$ -	\$ -	\$ -	\$ 15,600	\$ 15,600	\$ 124,800	\$ -	\$ 156,000
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTALS	\$ 101,000	\$ 55,000	\$ 87,000	\$ 25,600	\$ 15,600	\$ 124,800	\$ -	\$ 409,000

Town of Lake Lure
Capital Improvement Plan - Project Summary Form

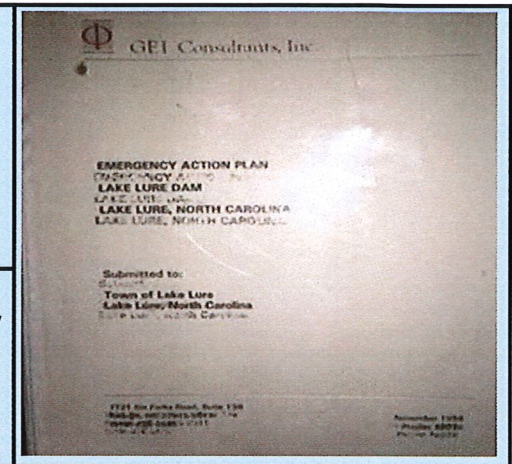
Project Title: Dam Emergency Action Plan
Department: Electric Operations
Acct. Number: 56-800000

Departmental Priority: 1
Organizational Priority: 1

Purpose: Health, Safety and Welfare ☒ Mandate ☒ Renovation/Replacement ☒ Expansion ☐

Description: This project revises the Emergency Action Plan (EAP) for the Lake Lure Dam. The Town is required to maintain an EAP for the hydroelectric dam. The EAP describes how the Dam is operated on a daily basis and managed during an emergency. The current plan was prepared by an engineering firm in 1999 and has been updated by Town staff regularly to ensure names and numbers were changed as appropriate. However, the proposed revision requires the assistance of an engineering firm.

Justification: The Coal Ash Management Act of 2014 requires all owners of high and intermediate hazard dams to submit an EAP to the NC Department of Environment and Natural Resources and to the NC Department of Public Safety by March 2015. NCDENR has advised the Town that our plan does not meet the current criteria and should be revised. Because the Town is out of compliance with the new law, the EAP should be updated and submitted to the State quickly.



Project Status: Unfunded ☒ Partially Funded ☐ Funded ☐

Total Appropriations To Date	Budget Year 1 2017 - 2018	Unappropriated Subsequent Years				Future Years	Total Requested Funds	Total Project Cost
		Year 2 2018 - 2019	Year 3 2019 - 2020	Year 4 2020 - 2021	Year 5 2021 - 2022			
	\$ 40,000						\$ 40,000	\$ 40,000

Milestones:	Recommended Time Schedule							Operating Budget Impact	
	2015 - 2016	2016 - 2017	2017 - 2018	2018 - 2019	2019 - 2020	2020 - 2021	2021 - 2022	2017 - 2018	
Planning/Preliminary Design	☐	☐	☒	☐	☐	☐	☐	2018 - 2019	\$ -
Engineering/Arch. Services	☐	☐	☐	☐	☐	☐	☐	2019 - 2020	\$ -
Land/ROW/Acquisition	☐	☐	☐	☐	☐	☐	☐	2020 - 2021	\$ -
Award of Contract	☐	☐	☐	☐	☐	☐	☐	2021 - 2022	\$ -
Construction/Purchase	☐	☐	☐	☐	☐	☐	☐	Future Years	\$ -
Operating Budget Impact:									
Salaries/Benefits			☐					Departmental Expenses	☐
Professional Services			☐					Capital Outlay	☐

Project Costs:	Current Estimated Cost	Prior Year Costs	Budget 2017 - 2018	Budget 2018 - 2019	Budget 2019 - 2020	Budget 2020 - 2021	Budget 2021 - 2022	Future Years	Project Total
Planning/Design/Engineering	\$ 40,000		\$ 40,000						\$ 40,000
Land/ROW Acquisition									\$ -
Construction									\$ -
Equipment									\$ -
Hardware/Software									\$ -
Total Project Costs:	\$ 40,000	\$ -	\$ 40,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,000
Total Operating Budget Costs:			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Project Estimated Costs:	\$ 40,000	\$ -	\$ 40,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,000

Source of Funds:	Percentage	Budget 2017 - 2018	Budget 2018 - 2019	Budget 2019 - 2020	Budget 2020 - 2021	Budget 2021 - 2022	Future Years	Project Total
Current Revenue ☒	100.00%	\$ 40,000						\$ 40,000
Bonds ☐								\$ -
Assessment ☐								\$ -
Lease/Purchase ☐								\$ -
Grant ☐								\$ -
Other: ☐								\$ -
Total Funding:	100.00%	\$ 40,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,000

Town of Lake Lure
Capital Improvement Plan - Project Summary Form

Project Title: Control Panel Relays Calibration
Department: Electric Operations
Acct. Number: 56-800000

Departmental Priority: 2
Organizational Priority: 2

Purpose: Health, Safety and Welfare ☒ Mandate ☒ Renovation/Replacement ☒ Expansion ☐

Description: This project recalibrates the 21 DC relays on the control panel.

Justification: It is estimated that the DC relays on the control panels are at least thirty years old. The relays protect the generators and takes them offline in the event of an emergency. During the Dam's last inspection, the insurance company mandated that the relays be recalibrated.



Project Status: Unfunded ☒ Partially Funded ☐ Funded ☐

Total Appropriations To Date	Budget Year 1 2017 - 2018	Unappropriated Subsequent Years				Future Years	Total Requested Funds	Total Project Cost
		Year 2 2018 - 2019	Year 3 2019 - 2020	Year 4 2020 - 2021	Year 5 2021 - 2022			
	\$ 5,000						\$ 5,000	\$ 5,000

Milestones:	Recommended Time Schedule							Operating Budget Impact	
	2015 - 2016	2016 - 2017	2017 - 2018	2018 - 2019	2019 - 2020	2020 - 2021	2021 - 2022	2017 - 2018	
Planning/Preliminary Design	☐	☐	☐	☐	☐	☐	☐	2017 - 2018	\$ -
Engineering/Arch. Services	☐	☐	☐	☐	☐	☐	☐	2018 - 2019	\$ -
Land/ROW/Acquisition	☐	☐	☐	☐	☐	☐	☐	2019 - 2020	\$ -
Award of Contract	☐	☐	☐	☐	☐	☐	☐	2020 - 2021	\$ -
Construction/Purchase	☐	☐	☒	☐	☐	☐	☐	2021 - 2022	\$ -
								Future Years	\$ -

Operating Budget Impact:

Salaries/Benefits

☐

Utilities

☐

Departmental Expenses

☐

Professional Services

☐

Maintenance/Repair

☐

Capital Outlay

☐

Project Costs:

Planning/Design/Engineering

Land/ROW Acquisition

Construction

Equipment

Hardware/Software

	Current Estimated Cost	Prior Year Costs	Budget 2017 - 2018	Budget 2018 - 2019	Budget 2019 - 2020	Budget 2020 - 2021	Budget 2021 - 2022	Future Years	Project Total
Planning/Design/Engineering									\$ -
Land/ROW Acquisition									\$ -
Construction									\$ -
Equipment	\$ 5,000		\$ 5,000						\$ 5,000
Hardware/Software									\$ -
Total Project Costs:	\$ 5,000	\$ -	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000
Total Operating Budget Costs:			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Project Estimated Costs:	\$ 5,000	\$ -	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000

Source of Funds:

Current Revenue

☒

Bonds

☐

Assessment

☐

Lease/Purchase

☐

Grant

☐

Other: _____

☐

Total Funding:

	Percentage	Budget 2017 - 2018	Budget 2018 - 2019	Budget 2019 - 2020	Budget 2020 - 2021	Budget 2021 - 2022	Future Years	Project Total
Current Revenue	100.00%	\$ 5,000						\$ 5,000
Bonds								\$ -
Assessment								\$ -
Lease/Purchase								\$ -
Grant								\$ -
Other: _____								\$ -
Total Funding:	100.00%	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000

**Town of Lake Lure
Capital Improvement Plan - Project Summary Form**

Project Title: Floodgate #3 Motor Replacement
Department: Electric Operations
Acct. Number: 56-800000

Departmental Priority: 3
Organizational Priority: 3

Purpose: Health, Safety and Welfare ☒ Mandate ☐ Renovation/Replacement ☒ Expansion ☐

Description: This project replaces the motor on Floodgate #3. Floodgate #1 and #2 were replaced within the last thirty years.

Justification: Of the three floodgate motors, #3 is still using the original motor from the 1920's. Due to its age and normal wear, the motor is unsafe, has no modern protection equipment, and needs to be replaced.



Project Status: Unfunded ☒ Partially Funded ☐ Funded ☐

Total Appropriations To Date	Budget Year 1 2017 - 2018	Unappropriated Subsequent Years				Future Years	Total Requested Funds	Total Project Cost
		Year 2 2018 - 2019	Year 3 2019 - 2020	Year 4 2020 - 2021	Year 5 2021 - 2022			
		\$ 10,000					\$ 10,000	\$ 10,000

Milestones:	Recommended Time Schedule							Operating Budget Impact	
	2015 - 2016	2016 - 2017	2017 - 2018	2018 - 2019	2019 - 2020	2020 - 2021	2021 - 2022	2017 - 2018	
Planning/Preliminary Design	☐	☐	☐	☐	☐	☐	☐	2017 - 2018	\$ -
Engineering/Arch. Services	☐	☐	☐	☐	☐	☐	☐	2018 - 2019	\$ -
Land/ROW/Acquisition	☐	☐	☐	☐	☐	☐	☐	2019 - 2020	\$ -
Award of Contract	☐	☐	☐	☐	☐	☐	☐	2020 - 2021	\$ -
Construction/Purchase	☐	☐	☒	☐	☐	☐	☐	2021 - 2022	\$ -
								Future Years	\$ -

Operating Budget Impact:	Salaries/Benefits	☐	Utilities	☐	Departmental Expenses	☐
	Professional Services	☐	Maintenance/Repair	☐	Capital Outlay	☐

Project Costs:	Current Estimated Cost	Prior Year Costs	Budget 2017 - 2018	Budget 2018 - 2019	Budget 2019 - 2020	Budget 2020 - 2021	Budget 2021 - 2022	Future Years	Project Total
Planning/Design/Engineering									\$ -
Land/ROW Acquisition									\$ -
Construction									\$ -
Equipment	\$ 10,000		\$ 10,000						\$ 10,000
Hardware/Software									\$ -
Total Project Costs:	\$ 10,000	\$ -	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,000
Total Operating Budget Costs:			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Project Estimated Costs:	\$ 10,000	\$ -	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,000

Source of Funds:	Percentage	Budget 2017 - 2018	Budget 2018 - 2019	Budget 2019 - 2020	Budget 2020 - 2021	Budget 2021 - 2022	Future Years	Project Total
Current Revenue ☒	100.00%	\$ 10,000						\$ 10,000
Bonds ☐								\$ -
Assessment ☐								\$ -
Lease/Purchase ☐								\$ -
Grant ☐								\$ -
Other: ☐								\$ -
Total Funding:	100.00%	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,000

Town of Lake Lure
Capital Improvement Plan - Project Summary Form

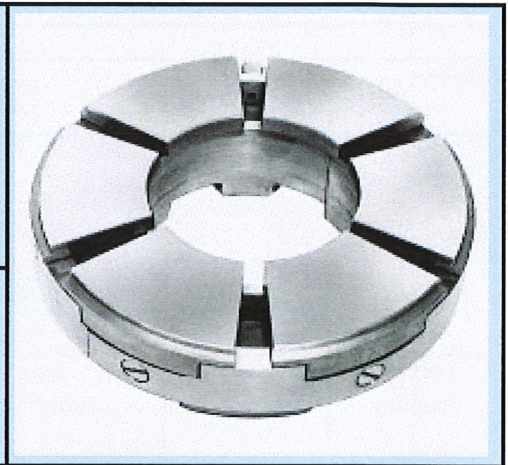
Project Title: Generator #2 Turbine Bearings Replacement
Department: Electric Operations
Acct. Number: 56-800000

Departmental Priority: 4
Organizational Priority: 4

Purpose: Health, Safety and Welfare ☐ Mandate ☐ Renovation/Replacement ☒ Expansion ☐

Description: This project replaces the turbine bearings on Generator #2.

Justification: The babbitt bearings on Generator #2 are wearing out due to the use and number of hours run on the machine. When the bearing wear down, the machine runs hotter, the seal is tougher to tighten and will ultimately fail to stop the water.



Project Status: Unfunded ☒ Partially Funded ☐ Funded ☐

Total Appropriations To Date	Budget Year 1 2017 - 2018	Unappropriated Subsequent Years				Future Years	Total Requested Funds	Total Project Cost
		Year 2 2018 - 2019	Year 3 2019 - 2020	Year 4 2020 - 2021	Year 5 2021 - 2022			
	\$ 6,000						\$ 6,000	\$ 6,000

Milestones:	Recommended Time Schedule							Operating Budget Impact	
	2015 - 2016	2016 - 2017	2017 - 2018	2018 - 2019	2019 - 2020	2020 - 2021	2021 - 2022	2017 - 2018	
Planning/Preliminary Design	☐	☐	☐	☐	☐	☐	☐	2018 - 2019	\$ -
Engineering/Arch. Services	☐	☐	☐	☐	☐	☐	☐	2019 - 2020	\$ -
Land/ROW/Acquisition	☐	☐	☐	☐	☐	☐	☐	2020 - 2021	\$ -
Award of Contract	☐	☐	☐	☐	☐	☐	☐	2021 - 2022	\$ -
Construction/Purchase	☐	☐	☒	☐	☐	☐	☐	Future Years	\$ -
Operating Budget Impact:									
Salaries/Benefits			☐	Utilities		☐	Departmental Expenses		☐
Professional Services			☐	Maintenance/Repair		☐	Capital Outlay		☐

Project Costs:	Current Estimated Cost	Prior Year Costs	Budget 2017 - 2018	Budget 2018 - 2019	Budget 2019 - 2020	Budget 2020 - 2021	Budget 2021 - 2022	Future Years	Project Total
Planning/Design/Engineering									\$ -
Land/ROW Acquisition									\$ -
Construction									\$ -
Equipment	\$ 6,000		\$ 6,000						\$ 6,000
Hardware/Software									\$ -
Total Project Costs:	\$ 6,000	\$ -	\$ 6,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,000
Total Operating Budget Costs:			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Project Estimated Costs:	\$ 6,000	\$ -	\$ 6,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,000

Source of Funds:	Percentage	Budget 2017 - 2018	Budget 2018 - 2019	Budget 2019 - 2020	Budget 2020 - 2021	Budget 2021 - 2022	Future Years	Project Total
Current Revenue ☒	100.00%	\$ 6,000						\$ 6,000
Bonds ☐								\$ -
Assessment ☐								\$ -
Lease/Purchase ☐								\$ -
Grant ☐								\$ -
Other: ☐								\$ -
Total Funding:	100.00%	\$ 6,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,000

Town of Lake Lure
Capital Improvement Plan - Project Summary Form

Project Title: Tainter Gate Cables Replacement
Department: Electric Operations
Acct. Number: 56-800000

Departmental Priority: 5
Organizational Priority: 5

Purpose: Health, Safety and Welfare ☐ Mandate ☐ Renovation/Replacement ☒ Expansion ☐

Description: This project replaces the six tainter gate cables on the floodgates. This cable stretches from the block to the bottom of the tainter gate.

Justification: This cable is the last underwater mechanism at the floodgates that have not been replaced. When inspected, both cables on each gate were corroded and crimped at the cable ends. This is the weakest point on the gates and if those were to fail, there would not be a way to open or close the floodgates. The inspector recommended replacement of the cables, as well as an updated design to the crimped-style cable.



Project Status: Unfunded ☒ Partially Funded ☐ Funded ☐

Total Appropriations To Date	Budget Year 1 2017 - 2018	Unappropriated Subsequent Years				Future Years	Total Requested Funds	Total Project Cost
		Year 2 2018 - 2019	Year 3 2019 - 2020	Year 4 2020 - 2021	Year 5 2021 - 2022			
	\$ 40,000						\$ 40,000	\$ 40,000

Milestones:	Recommended Time Schedule							Operating Budget Impact	
	2015 - 2016	2016 - 2017	2017 - 2018	2018 - 2019	2019 - 2020	2020 - 2021	2021 - 2022	2017 - 2018	
Planning/Preliminary Design	☐	☐	☐	☐	☐	☐	☐	2018 - 2019	\$ -
Engineering/Arch. Services	☐	☐	☐	☐	☐	☐	☐	2019 - 2020	\$ -
Land/ROW/Acquisition	☐	☐	☐	☐	☐	☐	☐	2020 - 2021	\$ -
Award of Contract	☐	☐	☐	☐	☐	☐	☐	2021 - 2022	\$ -
Construction/Purchase	☐	☐	☒	☐	☐	☐	☐	Future Years	\$ -

Operating Budget Impact:	Salaries/Benefits	☐	Utilities	☐	Departmental Expenses	☐
	Professional Services	☐	Maintenance/Repair	☐	Capital Outlay	☐

Project Costs:	Current Estimated Cost	Prior Year Costs	Budget 2017 - 2018	Budget 2018 - 2019	Budget 2019 - 2020	Budget 2020 - 2021	Budget 2021 - 2022	Future Years	Project Total
Planning/Design/Engineering									\$ -
Land/ROW Acquisition									\$ -
Construction									\$ -
Equipment	\$ 40,000		\$ 40,000						\$ 40,000
Hardware/Software									\$ -
Total Project Costs:	\$ 40,000	\$ -	\$ 40,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,000
Total Operating Budget Costs:			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Project Estimated Costs:	\$ 40,000	\$ -	\$ 40,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,000

Source of Funds:	Percentage	Budget 2017 - 2018	Budget 2018 - 2019	Budget 2019 - 2020	Budget 2020 - 2021	Budget 2021 - 2022	Future Years	Project Total
Current Revenue ☒	100.00%	\$ 40,000						\$ 40,000
Bonds ☐								\$ -
Assessment ☐								\$ -
Lease/Purchase ☐								\$ -
Grant ☐								\$ -
Other: ☐								\$ -
Total Funding:	100.00%	\$ 40,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,000

**Town of Lake Lure
Capital Improvement Plan - Project Summary Form**

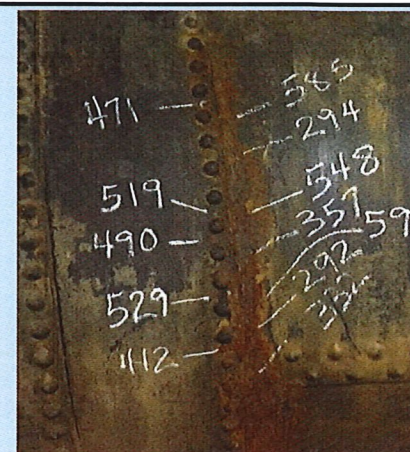
Project Title: Penstock Repairs
Department: Electric Operations
Acct. Number: 56-800000

Departmental Priority: 6
Organizational Priority: C

Purpose: Health, Safety and Welfare ☐ Mandate ☐ Renovation/Replacement ☒ Expansion ☐

Description: This project repairs areas of the penstock.

Justification: Due to age and the environment, the penstock is deteriorating at some of the joints. During the last inspection, it was determined that sections of the penstock would have to be repaired by welding in place rolled steel, adding bulk to the weakened areas. After this work is completed, epoxy must be reapplied to the areas within the penstock.



Project Status: Unfunded ☒ Partially Funded ☐ Funded ☐

Total Appropriations To Date	Budget Year 1 2017 - 2018	Unappropriated Subsequent Years				Future Years	Total Requested Funds	Total Project Cost
		Year 2 2018 - 2019	Year 3 2019 - 2020	Year 4 2020 - 2021	Year 5 2021 - 2022			
		\$ 30,000					\$ 30,000	\$ 30,000

Milestones:	Recommended Time Schedule							Operating Budget Impact	
	2015 - 2016	2016 - 2017	2017 - 2018	2018 - 2019	2019 - 2020	2020 - 2021	2021 - 2022	2017 - 2018	
Planning/Preliminary Design	☐	☐	☐	☐	☐	☐	☐	2017 - 2018	\$ -
Engineering/Arch. Services	☐	☐	☐	☐	☐	☐	☐	2018 - 2019	\$ -
Land/ROW/Acquisition	☐	☐	☐	☐	☐	☐	☐	2019 - 2020	\$ -
Award of Contract	☐	☐	☐	☐	☐	☐	☐	2020 - 2021	\$ -
Construction/Purchase	☐	☐	☐	☒	☐	☐	☐	2021 - 2022	\$ -
								Future Years	\$ -

Operating Budget Impact:

Salaries/Benefits

☐

Utilities

☐

Departmental Expenses

☐

Professional Services

☐

Maintenance/Repair

☐

Capital Outlay

☐

Project Costs:

Planning/Design/Engineering
Land/ROW Acquisition
Construction
Equipment
Hardware/Software

Current Estimated Cost	Prior Year Costs	Budget 2017 - 2018	Budget 2018 - 2019	Budget 2019 - 2020	Budget 2020 - 2021	Budget 2021 - 2022	Future Years	Project Total
								\$ -
								\$ -
\$ 30,000			\$ 30,000					\$ 30,000
								\$ -
								\$ -
\$ 30,000	\$ -	\$ -	\$ 30,000	\$ -	\$ -	\$ -	\$ -	\$ 30,000
Total Project Costs:			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Operating Budget Costs:			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Project Estimated Costs:	\$ 30,000	\$ -	\$ -	\$ 30,000	\$ -	\$ -	\$ -	\$ 30,000

Source of Funds:

Current Revenue
Bonds
Assessment
Lease/Purchase
Grant
Other:

☒
☐
☐
☐
☐
☐

Percentage	Budget 2017 - 2018	Budget 2018 - 2019	Budget 2019 - 2020	Budget 2020 - 2021	Budget 2021 - 2022	Future Years	Project Total
100.00%		\$ 30,000					\$ 30,000
							\$ -
							\$ -
							\$ -
							\$ -
							\$ -
100.00%	\$ -	\$ 30,000	\$ -	\$ -	\$ -	\$ -	\$ 30,000

Total Funding:

Town of Lake Lure
Capital Improvement Plan - Project Summary Form

Project Title: Butterfly Valves Automation
Department: Electric Operations
Acct. Number: 56-800000

Departmental Priority: 7
Organizational Priority: D

Purpose: Health, Safety and Welfare ☐ Mandate ☐ Renovation/Replacement ☐ Expansion ☒

Description: This project automates the closing of the butterfly valves on Generators #1 and #2.

Justification: Closing the water to the generators requires two staff members. In an emergency, it would be difficult to close them quickly especially when working alone. The valves need rehabilitating and the addition of an automated emergency control that would allow one staff member to shut the water down in case of an emergency.



Project Status: Unfunded ☒ Partially Funded ☐ Funded ☐

Total Appropriations To Date	Budget Year 1 2017 - 2018	Unappropriated Subsequent Years				Future Years	Total Requested Funds	Total Project Cost
		Year 2 2018 - 2019	Year 3 2019 - 2020	Year 4 2020 - 2021	Year 5 2021 - 2022			
		\$ 25,000					\$ 25,000	\$ 25,000

Milestones:	Recommended Time Schedule							Operating Budget Impact	
	2015 - 2016	2016 - 2017	2017 - 2018	2018 - 2019	2019 - 2020	2020 - 2021	2021 - 2022	2017 - 2018	
Planning/Preliminary Design	☐	☐	☐	☐	☐	☐	☐	2017 - 2018	\$ -
Engineering/Arch. Services	☐	☐	☐	☐	☐	☐	☐	2018 - 2019	\$ -
Land/ROW/Acquisition	☐	☐	☐	☐	☐	☐	☐	2019 - 2020	\$ -
Award of Contract	☐	☐	☐	☐	☐	☐	☐	2020 - 2021	\$ -
Construction/Purchase	☐	☐	☐	☒	☐	☐	☐	2021 - 2022	\$ -
								Future Years	\$ -

Operating Budget Impact:

Salaries/Benefits	☐	Utilities	☐	Departmental Expenses	☐
Professional Services	☐	Maintenance/Repair	☐	Capital Outlay	☐

Project Costs:	Current Estimated Cost	Prior Year Costs	Budget 2017 - 2018	Budget 2018 - 2019	Budget 2019 - 2020	Budget 2020 - 2021	Budget 2021 - 2022	Future Years	Project Total
Planning/Design/Engineering									\$ -
Land/ROW Acquisition									\$ -
Construction									\$ -
Equipment	\$ 25,000			\$ 25,000					\$ 25,000
Hardware/Software									\$ -
Total Project Costs:	\$ 25,000	\$ -	\$ -	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000
Total Operating Budget Costs:			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Project Estimated Costs:	\$ 25,000	\$ -	\$ -	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000

Source of Funds:	Percentage	Budget 2017 - 2018	Budget 2018 - 2019	Budget 2019 - 2020	Budget 2020 - 2021	Budget 2021 - 2022	Future Years	Project Total
Current Revenue	☒	100.00%	\$ 25,000					\$ 25,000
Bonds	☐							\$ -
Assessment	☐							\$ -
Lease/Purchase	☐							\$ -
Grant	☐							\$ -
Other:	☐							\$ -
Total Funding:		100.00%	\$ -	\$ 25,000	\$ -	\$ -	\$ -	\$ 25,000

Town of Lake Lure
Capital Improvement Plan - Project Summary Form

Project Title: Tainter Gate Hoist Cover
Department: Electric Operations
Acct. Number: 56-800000

Departmental Priority: 8
Organizational Priority: D

Purpose: Health, Safety and Welfare ☐ Mandate ☐ Renovation/Replacement ☐ Expansion ☒

Description: This project constructs a cover over the floodgate hoists, chains and motors and installs lighting on the platform.

Justification: The hoists, chains and motors to the floodgates are out in the open and subjected to the weather. In order to protect the equipment from the elements and increase its longevity, as well as to protect the employees when working at the floodgates, it is recommended that the area be covered and sufficient lighting be installed.



Project Status: Unfunded ☒ Partially Funded ☐ Funded ☐

Total Appropriations To Date	Budget Year 1 2017 - 2018	Unappropriated Subsequent Years				Future Years	Total Requested Funds	Total Project Cost
		Year 2 2018 - 2019	Year 3 2019 - 2020	Year 4 2020 - 2021	Year 5 2021 - 2022			
			\$ 87,000				\$ 87,000	\$ 87,000

Milestones:	Recommended Time Schedule							Operating Budget Impact	
	2015 - 2016	2016 - 2017	2017 - 2018	2018 - 2019	2019 - 2020	2020 - 2021	2021 - 2022	2017 - 2018	
Planning/Preliminary Design	☐	☐	☐	☐	☐	☐	☐	2017 - 2018	\$ -
Engineering/Arch. Services	☐	☐	☐	☐	☐	☐	☐	2018 - 2019	\$ -
Land/ROW/Acquisition	☐	☐	☐	☐	☐	☐	☐	2019 - 2020	\$ -
Award of Contract	☐	☐	☐	☐	☐	☐	☐	2020 - 2021	\$ -
Construction/Purchase	☐	☐	☐	☐	☒	☐	☐	2021 - 2022	\$ -
								Future Years	\$ -

Operating Budget Impact:

Salaries/Benefits

☐

Utilities

☐

Departmental Expenses

☐

Professional Services

☐

Maintenance/Repair

☐

Capital Outlay

☐

Project Costs:

Planning/Design/Engineering
Land/ROW Acquisition
Construction
Equipment
Hardware/Software

Current Estimated Cost	Prior Year Costs	Budget 2017 - 2018	Budget 2018 - 2019	Budget 2019 - 2020	Budget 2020 - 2021	Budget 2021 - 2022	Future Years	Project Total
								\$ -
								\$ -
\$ 87,000				\$ 87,000				\$ 87,000
								\$ -
								\$ -
\$ 87,000	\$ -	\$ -	\$ -	\$ 87,000	\$ -	\$ -	\$ -	\$ 87,000
Total Project Costs:		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Operating Budget Costs:		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Project Estimated Costs:	\$ 87,000	\$ -	\$ -	\$ 87,000	\$ -	\$ -	\$ -	\$ 87,000

Source of Funds:

Current Revenue
Bonds
Assessment
Lease/Purchase
Grant
Other:

☒
☐
☐
☐
☐
☐

Percentage	Budget 2017 - 2018	Budget 2018 - 2019	Budget 2019 - 2020	Budget 2020 - 2021	Budget 2021 - 2022	Future Years	Project Total
100.00%			\$ 87,000				\$ 87,000
							\$ -
							\$ -
							\$ -
							\$ -
							\$ -
100.00%	\$ -	\$ -	\$ 87,000	\$ -	\$ -	\$ -	\$ 87,000

Total Funding:

Town of Lake Lure
Capital Improvement Plan - Project Summary Form

Project Title: Aerial Lift
Department: Electric Operations
Acct. Number: 56-800000

Departmental Priority: 9
Organizational Priority: D

Purpose: Health, Safety and Welfare ☐ Mandate ☐ Renovation/Replacement ☐ Expansion ☒

Description:

This project proposes the purchase of an aerial lift for the hydroelectric dam. The lift would be used for inspections, repairs, and installation of new equipment. The lift proposed, could also be shared with other departments. The aerial lift is estimated to cost approximately \$125,000 and is financed at four percent over a ten year period.

Justification:

Operating and maintaining a ninety year old dam requires the use of unique pieces of equipment. The aerial lift would be used to perform inspections of the hoist, repair and paint the walls, and help with the installation of new lighting and other smaller equipment. The aerial lift proposed, is unique also in that it has to be light enough to be placed on the existing concrete floor.



Project Status: Unfunded ☒ Partially Funded ☐ Funded ☐

Total Appropriations To Date	Budget Year 1 2017 - 2018	Unappropriated Subsequent Years				Future Years	Total Requested Funds	Total Project Cost
		Year 2 2018 - 2019	Year 3 2019 - 2020	Year 4 2020 - 2021	Year 5 2021 - 2022			
				\$ 15,600	\$ 15,600	\$ 124,800	\$ 156,000	\$ 156,000

Milestones:	Recommended Time Schedule							Operating Budget Impact	
	2015 - 2016	2016 - 2017	2017 - 2018	2018 - 2019	2019 - 2020	2020 - 2021	2021 - 2022	2017 - 2018	
Planning/Preliminary Design	☐	☐	☐	☐	☐	☐	☐	2017 - 2018	\$ -
Engineering/Arch. Services	☐	☐	☐	☐	☐	☐	☐	2018 - 2019	\$ -
Land/ROW/Acquisition	☐	☐	☐	☐	☐	☐	☐	2019 - 2020	\$ -
Award of Contract	☐	☐	☐	☐	☐	☒	☐	2020 - 2021	\$ 100
Construction/Purchase	☐	☐	☐	☐	☐	☒	☐	2021 - 2022	\$ 100
								Future Years	\$ 100

Operating Budget Impact:

Salaries/Benefits	☐	Utilities	☐	Departmental Expenses	☒
Professional Services	☐	Maintenance/Repair	☒	Capital Outlay	☐

Project Costs:	Current Estimated Cost	Prior Year Costs	Budget 2017 - 2018	Budget 2018 - 2019	Budget 2019 - 2020	Budget 2020 - 2021	Budget 2021 - 2022	Future Years	Project Total
Planning/Design/Engineering									\$ -
Land/ROW Acquisition									\$ -
Construction									\$ -
Equipment	\$ 156,000					\$ 15,600	\$ 15,600	\$ 124,800	\$ 156,000
Hardware/Software									\$ -
Total Project Costs:	\$ 156,000	\$ -	\$ -	\$ -	\$ -	\$ 15,600	\$ 15,600	\$ 124,800	\$ 156,000
Total Operating Budget Costs:	\$ 300		\$ -	\$ -	\$ -	\$ 100	\$ 100	\$ 100	\$ 300
Total Project Estimated Costs:	\$ 156,300	\$ -	\$ -	\$ -	\$ -	\$ 15,700	\$ 15,700	\$ 124,900	\$ 156,300

Source of Funds:	Percentage	Budget 2017 - 2018	Budget 2018 - 2019	Budget 2019 - 2020	Budget 2020 - 2021	Budget 2021 - 2022	Future Years	Project Total
Current Revenue	☐							\$ -
Bonds	☐							\$ -
Assessment	☐							\$ -
Lease/Purchase	☒	100.00%			\$ 15,600	\$ 15,600	\$ 124,800	\$ 156,000
Grant	☐							\$ -
Other:	☐							\$ -
Total Funding:	100.00%	\$ -	\$ -	\$ -	\$ 15,600	\$ 15,600	\$ 124,800	\$ 156,000

Town of Lake Lure
Capital Improvement Plan - Project Summary Form

Project Title: Dredge Tailrace
Department: Electric Operations
Acct. Number: 56-800000

Departmental Priority: 10
Organizational Priority: C

Purpose: Health, Safety and Welfare ☐ Mandate ☐ Renovation/Replacement ☒ Expansion ☐

Description: This project dredges the tailrace area of the river in front of the powerhouse.

Justification: By removing rocks and silt from the tailrace area in front of the powerhouse, the generators will be able to discharge water easier and produce more electricity. It is anticipated that this project could result in a one to two percent increase in revenue. Over time, the additional revenue generated from the project will pay for the completed work.



Project Status: Unfunded ☒ Partially Funded ☐ Funded ☐

Total Appropriations To Date	Budget Year 1 2017 - 2018	Unappropriated Subsequent Years				Future Years	Total Requested Funds	Total Project Cost
		Year 2 2018 - 2019	Year 3 2019 - 2020	Year 4 2020 - 2021	Year 5 2021 - 2022			
				\$ 10,000			\$ 10,000	\$ 10,000

Milestones:	Recommended Time Schedule							Operating Budget Impact	
	2015 - 2016	2016 - 2017	2017 - 2018	2018 - 2019	2019 - 2020	2020 - 2021	2021 - 2022	2017 - 2018	
Planning/Preliminary Design	☐	☐	☐	☐	☐	☐	☐	2017 - 2018	\$ -
Engineering/Arch. Services	☐	☐	☐	☐	☐	☐	☐	2018 - 2019	\$ -
Land/ROW/Acquisition	☐	☐	☐	☐	☐	☐	☐	2019 - 2020	\$ -
Award of Contract	☐	☐	☐	☐	☐	☒	☐	2020 - 2021	\$ -
Construction/Purchase	☐	☐	☐	☐	☐	☒	☐	2021 - 2022	\$ -
								Future Years	\$ -

Operating Budget Impact:	Salaries/Benefits	☐	Utilities	☐	Departmental Expenses	☐
	Professional Services	☐	Maintenance/Repair	☐	Capital Outlay	☐

Project Costs:	Current Estimated Cost	Prior Year Costs	Budget 2017 - 2018	Budget 2018 - 2019	Budget 2019 - 2020	Budget 2020 - 2021	Budget 2021 - 2022	Future Years	Project Total
Planning/Design/Engineering									\$ -
Land/ROW Acquisition									\$ -
Construction	\$ 10,000					\$ 10,000			\$ 10,000
Equipment									\$ -
Hardware/Software									\$ -
Total Project Costs:	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ 10,000	\$ -	\$ -	\$ 10,000
Total Operating Budget Costs:			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Project Estimated Costs:	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ 10,000	\$ -	\$ -	\$ 10,000

Source of Funds:	Percentage	Budget 2017 - 2018	Budget 2018 - 2019	Budget 2019 - 2020	Budget 2020 - 2021	Budget 2021 - 2022	Future Years	Project Total
Current Revenue ☒	100.00%				\$ 10,000			\$ 10,000
Bonds ☐								\$ -
Assessment ☐								\$ -
Lease/Purchase ☐								\$ -
Grant ☐								\$ -
Other: ☐								\$ -
Total Funding:	100.00%	\$ -	\$ -	\$ -	\$ 10,000	\$ -	\$ -	\$ 10,000