2021 PROJECT FUNDING REQUEST FORM

Number: 21179

Project Cost: $16,600

Project Name: **Milliken Mills C.C. Main Pool VFD Installation**

New Asset/Expansion

Commission: Community & Fire Services

Useful Life: 15 Pre Approval: ☐

Department: Recreation Services

Project Mgr: Ryan Hanna

Category: Minor

Cost Validation: Third party estimate

Requirement Validation: Condition assessment

Ward(s): CW ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☑

DETAILED DESCRIPTION (SCOPE OF PROJECT):

This project is to install a Variable Frequency Drive on the main pool filter pump at Milliken Mills C.C. VFD's work like a dimmer switch and can be programmed to start and stop slowly, eliminating high water pressure that can damage piping and equipment. Unlike "soft start" motor starters VFD's can also be programmed to adjust speed based upon flow and to reduce flow during non-use hours, which is where the electrical savings are realized.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS ($)	2021	Future Phases
Cost/Quote:	16,288	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	16,288	0
HST Impact:	287	0
Total Project Cost:	**16,600**	**0**

NOTES

A Variable Frequency Drive (VFD) is a type of motor controller that allows the operator to vary the frequency and voltage supplied to the electric motor. Funding source: Markham Energy Conservation Office (MECO).
E3:
Annual Savings on electricity $5,726, Payback 2.9 years

SOURCE(S) OF FUNDING ($)		Components					
Funding Type	Budget					TOTAL	Future Phases
Other Internal	16,600	0	0	0	0	0	0
TOTAL FUNDING	**16,600**					**0**	**0**

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
	$0	-$4,294	$0	-$4,294

DCA/LIFE CYCLE DETAILS

DCA Name	Year	Amount	Amount in Study

Life Cycle

Amount in Study: ☐

Amount Incl HST ☐

Year in the study ☐

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost: