		Strategic Plan Relationship(s):				
Project Name:	Battery Operated E Draulics (Rescue Tools)	Priority #2 – Financial Plan (efficiently updating assets)				
Department:	Fire	Priority #3 – Process Improvements (the existing gas powered rescue tools are 30 years old and at the end of their useful life)				
Type of Project:	Equipment	Rationale: Presently, EKFD uses gas powered hydraulic pumps and rescue tools which are for the most part used to extricate individuals from motor vehicle collisions as well as forcible entry and farm machinery incidents. Many of the tools,				
Basis for Activity:	Asset Renewal	hoses and hydraulic pumps are coming to or have exceeded their serviceable life (majority are 25 years or older in age). In addition, with newer vehicle technology the tools are no longer capable of cutting newer and exotic metal				
Description:		designs. The team is proposing to convert all equipment to battery operated tools using the Hurst E Draulic tools (which are currently what our combination tools are and we would be able to use existing batteries). There are many manufacturers of this type of equipment however our members have only been trained on Hurst Equipment and there are not adequate resources available to train on a new system. From a departmental stand point and as well as a firefighter safety and response level there are many advantages and points that show the benefit of converting: Limited personnel which have become the new normal whether from time of day or lack of membership allows for 1				
Department wide transition to battery operated hydraulics includes:						
2- SP 28-inch spreaders, 2- S E3 Cutters, 2- R E3 Rams, 1- SC E3 Combination Tool, 14 – Batteries, 7 – E3 Chargers		 firefighter to carry two tools that are untethered from responding vehicle Unlimited range to remote locations without having to transport power plant and or hoses No emissions or noise which can hamper hearing and no longer require refueling which presents safety risk when refueling a hot engine when extrication is extended Removal of trip hazard and possible line ruptures in which system presently operates at 5500 psig Allows for operations within confined space or inside of building as no emissions or lines that hamper distance Cutters will meet or exceed required forces to cut all new metals encountered as well as sideload warning to protect blades from damage or injury to operator and patient 				
		 Specific to Hurst cutters they are quadruple forged are 40 percent stronger than industry standard machined blades Hurst tools are workable to a depth of 11ft underwater in which other manufacturers either cannot work or only go to a depth of 3.3 feet 				

- Hurst tools do not need disassembly after submersion just flushed with clean water which requires after

These tools will also adequately fit in the new proposed smaller rescue unit.

Staff Contact: Jeff Sargent

Project Finances

Staff Contact:		Actuals	Budget							
Description		Expensed to Current Year	Total Project	Prior Approved	2024	2025	2026	2027	2028	
211 – Capital	Expense		130000		130000					