

GRANT ANALYSIS FORM OPERATING & CAPITAL GRANT PROJECTS/PROGRAMS

Department/Division: .DOA-Community Development Grants Administration

Contact Person & Phone No: Steven L. Mahan, 414-708-0973

Category of Request

New Grant

Grant Continuation

Change in Previously Approved Grant

Previous Council File No. _____

Previous Council File No. _____

Project/Program Title: Big Lake Marine Towboat Diesel Retrofit

Grantor Agency: City of Milwaukee

Grant Application: 8/01/19

Anticipated Award Date: 3/1/21

1. Description of Grant Project/Program (Include Target Locations and Populations):

This project will repower three propulsion engines and two generators set engines on two towboats operating out of the Port of Milwaukee. The towboats are used for towing, dredging operations, and construction of seawalls, harbor stone, and breakwalls from the Port of Milwaukee to Chicago. These engines run 2,000 hours and consume 20,000 gallons of diesel during an 8-month operating season from mid-April to mid-December. These boats are critical to the maintenance and operation of the Milwaukee Port, which handles over 40 million tons of cargo valued at over \$8 billion. Water transportation reduces bulk transport costs as much as 60% compared to overland shipping and move 631 ton-miles per gallon of diesel, compared to just 91 ton-miles for on-road trucking. In addition, a 1,000-foot vessel removes the equivalent of 2,340 trucks which burn diesel, impact roads, and congest traffic along Wisconsin's corridors.

See Attached Narrative

2. Relationship to City-Wide Strategic Goals and Departmental Objectives:

Page 6 in the 2035 Regional Transportation Plan specifically cites planning interregional movement of people and goods by waterway and are part of a balanced, integrated, and workable regional transportation system

3. Need for Grant Funds and Impact on Other Departmental Operations (Applies only to Programs):

Since 2010, Big Lake Marine has provided maintenance, repair, and expansion of critical port infrastructure that allow its successful operation. The current engines utilize hundreds of horsepower and date back to the 1970's and 1980's before current EPA air-emission standards. These engines last far beyond their estimated lifetime capacity and can be rebuilt and remanufactured for several decades. The new, EPA-certified Tier-3 engines will have immediate and long-lasting impacts to Port operations by reducing on-road shipping needs and drastically reducing air emissions contributing to ground-level ozone (smog) and particulate matter. The replacement of these engines will reduce an estimated 1,075 pounds of Volatile Organic Compounds, 700 pounds of carbon monoxide, 2.78 tons of nitrous oxides, and 624 pounds of particulate matter, each year.

4. Relationship to City-Wide Strategic Goals and Departmental Objectives:

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5. Need for Grant Funds and Impact on Other Departmental Operations (Applies only to Programs):

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6. Results Measurement/Progress Report (Applies only to Programs):

7. Grant Period, Timetable and Program Phase-Out Plan:

Grant Period December 2020 through December 2024

8. Provide a list of Subgrantees:

David Kaddinger (Grant beneficiary)
Big Lake Marine LLC
262-902-8528
biglakedave@yahoo.com

9. If Possible, complete Grant Budget Form and attach to back.
Attached