

EXPLANATION OF CONSENT AGENDA ITEM E.2.c.(5) – January 18, 2017

ITEM:

Consideration of approving additional 204(f) funds in an amount not to exceed of \$400,000 to the U.S. Army Corps of Engineers for review and coordination of the 21st Century Section 204 Harbor Deepening Feasibility Study Project. (Bob Musser/Jim Dubea)

EXPLANATION:

Background: In early 2013, the Canaveral Port Authority entered into a Memorandum of Agreement (MOA) with the US Army Corps of Engineers (ACOE) for the Section 204 Harbor Deepening and Widening project to facilitate review of the project designs, to ensure they were in accordance with ACOE standards, and pursue future federal channel maintenance once the project was completed.

To continue the federal review of 21st Century Section 204 Harbor Deepening Feasibility Study Project ACOE economic modeling (HarborSym), NEPA coordination, and technical and policy reviews will need to be conducted. With approximately \$16,000 in leftover funds additional funding is necessary to complete HarborSym, estimated at \$92,000 (see attached estimate), and for the NEPA and technical and policy review/coordination estimate of between \$150,000 - \$250,000. According to our ACOE project manager, Corps counsel stated the current 204b MOA covers this action and it would be memorialized through a work order approved by both parties, once a final estimate for the review and coordination is completed. To cover any unforeseen expenses staff is requesting an amount not to exceed \$400,000 be approved.

Funding Review by Finance (Pat Poston): The total amount of NTE amount of \$400,000 is included in the FY17 Capital Budget and no increase is required. [Budget item 2128 - WTB Channel Entrance-21st Century Project]

**Staff Recommends Approval
Prepared by Bob Musser**



ACOE - HarborSym Cost Estimate

Study Tasks	Hours	Costs
Meetings	16	\$2,000
PDT Meetings (assumes PDT meetings biweekly)		
Model Input database and vessel call database	80	\$10,000
Develop Input database for Port Canaveral - Existing Condition		
Use W-DAPP tool to obtain historical commodity/vessel call database		
Build input databases to include 5 alternative depths (46 through 50 feet)		
Establish baseline/existing condition		
Coordinate with Pilots/Port		
Model Vessel Call Database	96	\$12,000
VCDB database for Existing Base Fleet		
Build vessel calls database for		
Without project and with project condition using Bulk Loading Tool		
Load Factor Analysis - based on DWT		
Base Condition Model Runs	48	\$6,000
Model runs provided to Port Authority		
model outputs for existing condition		
calibration. Verified by Port Authority and Harbor Pilots.		
Meetings with PA and Pilots		
Model Runs - 162 model runs (6 alternatives, 3 fleets, 3 scenarios, 3 years analyzed)	120	\$15,000
Analyze output data	40	\$5,000
Analyze transiting times for vessel calling on Port Canaveral		
conduct model runs for 2023, 2033, and 2043 (subject to change depending on base year		
Analyze deleted vessels, wait times,		
vessel class statistics and vessel call output		
Build output tables - Economic Reporter		
Sensitivity Model Runs	64	\$8,000
Develop HarborSym vessel call database based on NED plan		
with containers - larger than Panamax		
no growth scenario		
lower anticipated growth scenario for new cargo		
Evaluate HarborSym outputs of risk/uncertainty scenarios		
Calculate benefits for risk/uncertainty scenarios		
Document HarborSym outputs from Model Runs	40	\$5,000
HarborSym/Economic appendix (this task to be performed throughout the analysis)		
Total	488	\$61,000
	Round	\$61,000
	Contingency 15%	\$9,150
Total Cost		\$70,000
	Review	
	Agency Technical Review (as needed)	\$ 5,000
	Independent External Peer Review (as needed)	\$ 5,000
Total Review Cost		\$ 10,000
	Total	\$80,000
Rounded Total		\$80,000
Contingency (15%)		\$12,000
Final Total		<u>\$92,000</u>