



March 31, 2016

James Bouquet, P.E.  
Engineering Director  
City of Key West, Florida  
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Key West, Florida 33040

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Re: **Scope of Engineering and Environmental Services for Key West Diesel Plant Property Assessment**

Dear Mr. Bouquet:

### 1. Project Description:

The proposed scope of work shall include the following disciplines:

- Project Management
- Structural Engineering
- Environmental

### Below are the City provided design specifics for the project:

Amec Foster Wheeler was provided a copy of the City of Key West (City) acquisition memorandum dated October 23<sup>rd</sup>, 2015 which outlined the property assessment recommendations. The memorandum was broken into three sections Environmental, Architectural/Engineering and Planning and Development. Upon receipt of this memorandum, the City and Amec Foster Wheeler had a site visit to determine City objectives for this project:

- 1) Structural Engineering Assessment
- 2) Environmental Assessment
- 3) Engineer Cost Estimate for demolition and rehabilitation "white box" of existing structure

Amec Foster Wheeler used this data to prepare the below scope of work and associated costing.

### 2. Work Objective

This project will consist of a property assessment which will include structural engineering and environmental services. The tasks for the project are: (1) structural and environmental assessments; (2) prepare written report and recommendation for additional services, if required; and (3) engineer cost estimate. Work will be performed in accordance with the General Engineering Services Agreement under Resolutions 12-280 and 15-208 between Amec Foster Wheeler and the City. Acceptance of this proposal by the City will represent approval to utilize Atlantic Engineering Services as a structural engineering subconsultant (per Agreement paragraph 7.6).

Amec Foster Wheeler E&I, Inc.  
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### 3. Scope of Work

#### I. Property Assessments

- Amec Foster Wheeler has retained Atlantic Engineering Services to complete a structural assessment, which include the following tasks:
  1. Review existing documents that may be available including, but not limited to, construction drawings, specifications, agreements, and change orders.
  2. Site Visit to observe and record the existing structural conditions.
  3. During survey, we will collect fresh spall samples and perform up to fifteen (15), depth of carbonation tests and package up to eight (8) of the fresh samples for chloride testing by Amec Foster Wheeler Environment & Infrastructure, Inc. in Jacksonville, Florida. If concrete compression testing is required with independent carbonation and chloride testing, AES will outline a testing program to be performed by Amec Foster Wheeler in Miami, Florida, and evaluate the findings of the testing. We anticipate that no more than eight (8) samples will be required for compression testing.
  4. Perform structural analysis based on 1 and 3 above.
  5. Prepare a written report providing a description of findings and conclusions with regard to the above work.
  6. Based on 3 through 5, make recommendations for structural rehabilitation, if required.
- Amec Foster Wheeler will prepare an environmental assessment, which will include the following tasks:
  1. Review existing documents that may be available including, but not limited to, Phase 1 reports, water quality sampling results, and soil sampling results.
  2. A site visit to observe and record the existing soil conditions and any potential contamination loading areas.
  3. Prepare a written report providing a description of findings and conclusions with regard to the above work.
  4. Make recommendations for additional environmental sampling and analysis, if required.
- Amec Foster Wheeler will prepare an engineer cost estimate that will include recommendations from the structural and environmental assessments. The estimate will be a preliminary estimate to white box the structure. This estimate will need to be refined upon completion of additional design analysis not covered under this proposal.

#### 4. Work Products Required

Unless otherwise stated below all documents will be submitted electronically:

- Summary of kick-off meeting, progress meeting minutes, and bi-weekly status reports.
- Structural Assessment Report
- Environmental Assessment Report

#### 5. Performance Schedule

The following tasks are proposed to be completed within the number of months indicated below as counted from the date the City issues the notice to proceed.

<u>Activity</u>	<u>Months</u>
Structural Assessment Report	2



amec foster wheeler



Client City of Key West

Date: 3/31/2016

Scope: Key West Diesel Plant Property Assessment

AMEC Labor Classifications		Hourly Rate	1				TOTAL	
			Task 1 - Property Assessments					
			Structural Assessment		Environmental Assessment			
			HOURS	COST	HOURS	COST	HOURS	COST
Senior Principal/Senior Project Manager		\$176.00		\$0	8	\$1,408	8	\$1,408
Senior		\$123.00		\$0	32	\$3,936	32	\$3,936
Staff II		\$88.00		\$0	16	\$1,408	16	\$1,408
Admin II		\$60.00		\$0	8	\$480	8	\$480
<b>LABOR SUBTOTAL</b>			<b>0</b>	<b>\$0</b>	<b>64</b>	<b>\$7,232</b>	<b>64</b>	<b>\$7,232</b>
II. UNIT RATES SUBMIT ACTUALS only		COST PER UNIT	Structural Assessment		Environmental Assessment		TOTAL	
			UNITS	COST	UNITS	COST	UNITS	COST
Vehicle Rentals		\$75.00		\$0	1	\$75	1	\$75
Lodging		\$167.00		\$0		\$0	0	\$0
Lodging Tax		\$16.70		\$0		\$0	0	\$0
Meals		\$36.00		\$0	1	\$36	1	\$36
Gas (\$0.445/mile)		\$0.45		\$0	330	\$147	330	\$147
Copies (black and white)		\$0.10		\$0	15	\$2	15	\$2
Copies (color)		\$0.80		\$0		\$0	0	\$0
Report Binders and Tabs		\$7.00		\$0		\$0	0	\$0
<b>IN-HOUSE RECOVERABLES SUBTOTAL</b>				<b>\$0</b>		<b>\$259</b>	<b>347</b>	<b>\$259</b>
III. SUBCONTRACTORS		COST PER UNIT	Structural Assessment		Environmental Assessment		TOTAL	
			UNITS	COST	UNITS	COST	UNITS	COST
Atlantic Engineering Services		\$1.00	1	\$13,190			1	\$13,190
<b>SUBCONTRACTOR SUBTOTAL</b>				<b>\$13,190</b>			<b>1</b>	<b>\$13,190</b>
G&A Subcontracted Items		10%		1,319				1,319
<b>SUBCONTRACTOR TOTAL</b>				<b>\$14,509</b>			<b>0</b>	<b>\$14,509</b>
<b>TOTAL BY TASK</b>				<b>\$14,509</b>		<b>\$ 7,491.35</b>		<b>\$22,000</b>
<b>Total Cost for Property Assessment:</b>							<b>\$</b>	<b>22,000</b>