EPA

United States Environmental Protection Agency
Washington, DC 20460

Work Assignment

Work Assignment Number: 2-32

☐ Other ☐ Amendment Number:

Contract Number: EP-D-14-032

Contract Period: 09/16/2014 To 09/15/2019

Base Option Period Number: 2

Title of Work Assignment/SF Site Name: Tech&Mod Resilient Infrast

Contractor: INDUSTRIAL ECONOMICS, INCORPORATED

Specify Section and paragraph of Contract SOW: Section 4 and 6

Purpose:
- [X] Work Assignment
- [ ] Work Assignment Amendment
- [ ] Work Plan Approval
- [ ] Work Assignment Close-Out
- [ ] Incremental Funding

Period of Performance: From 09/16/2016 To 09/15/2017

Comments:

THE WORK ASSIGNMENT INCLUDES 250 HOURS FOR PREPARATION OF THE WORKPLAN/COST ESTIMATE AND TO BEGIN THE WORK ASSIGNMENT. THE CONTRACTOR SHALL PROPOSE THE HOURS NECESSARY TO COMPLETE ALL TASKS. NO PREVIOUSLY PERFORMED WORK SHALL BE DUPLICATED. SEE ATTACHED SOW.

☐ Superfund

Accounting and Appropriations Data

[X] Non-Superfund

SFO (Max 2) ☐

Note: To report additional accounting and appropriations date use EPA Form 1900-69A.

Line	DCN (Max 6)	Budget/FY (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class (Max 4)	Amount (Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code
1										
2										
3										
4										
5										

Authorized Work Assignment Ceiling

Contract Period: 09/16/2014 To 09/15/2019 Cost/Fee: LOE:

This Action:

Total:

Work Plan / Cost Estimate Approvals

Contractor WP Dated: Cost/Fee LOE:

Cumulative Approved: Cost/Fee LOE:

Work Assignment Manager Name: Jeremy Martinich
(Signature) (Date)
Branch/Mail Code:
Phone Number: 202-343-9871
FAX Number:

Project Officer Name: Carolyn Blake
(Signature) (Date)
Branch/Mail Code:
Phone Number: 919-541-5256
FAX Number:

Other Agency Official Name
(Signature) (Date)
Branch/Mail Code:
Phone Number:
FAX Number:

Contracting Official Name: Natalia Fisher-Jackson
NATALIA FISHER-JACKSON
Digitally signed by NATALIA FISHER-JACKSON
DN: c=US, o=U.S. Government, ou=USEPA, ou=Staff, cn=NATALIA FISHER-JACKSON, dnQualifier=0000016076
Date: 2017.05.04 11:26:09 -04'00'
(Signature) (Date)
Branch/Mail Code:
Phone Number: 919-541-3564
FAX Number:

Statement of Work

I.	Title:	**Technical and Modeling Support for Resilient Infrastructure Analysis**
	Contractor Name:	**Industrial Economics, Inc (IEc)**
	Contract #:	**IEc EP-D-14-032**
	WA #:	**2-32**

II. Work Assignment Manager (WAM):

Jeremy Martinich
U.S. Environmental Protection Agency
Office of Atmospheric Programs
Climate Change Division (6207-A)
1200 Pennsylvania Ave, NW
Washington, DC 20460
(202) 343-9871
martinich.jeremy@epa.gov

This purpose of this new Work Assignment (WA) #2-32 is to conduct infrastructure resilience modeling in the U.S.

III. Description and Tasks:

Task #1: Develop Workplan and Project Management

The Contactor shall provide a workplan outlining the approach, resources, timeline, and estimated costs for all tasks listed below. Estimates of costs and hours shall be presented by professional level and month. The WAM will review the workplan and will request revisions and or changes as needed. If necessary, the Contractor shall incorporate EPA comments into the final workplan.

The Contractor shall provide project management under this task. During the period of performance, the Contractor shall immediately inform the WAM, PO and CO by telephone and/or email of any problems that may impede performance along with any corrective actions needed by the EPA or the Contractor to solve the problem.

Under this task, the Contractor shall also attend a kick-off meeting via conference call to discuss the goals and strategy for completing future deliverables. This kick-off meeting will serve as a discussion to clarify the EPA's requirements, solicit ideas and feedback from the Contractor, as well as formulate ideas for work to be completed by the Contractor under the Tasks listed below.

Deliverables:

- Participate in Kick-off Meeting
- Workplan and cost estimate to EPA
- Monthly Status Reports

- Providing technical expert support for the NCA4 mitigation chapter.
- Paying open access publication fees for publications.
- Small technical analysis related to the subjects of this work assignment.

As stated above, this work will be initiated through technical direction, and these communications will include specific details regarding the work, including delivery dates.

Task 3 Deliverables:

- As described in technical direction from the WAM

IV. Deliverables:

The Contractor shall adhere to the following schedule:

Task	Deliverable	Delivery Schedule
1	Kickoff call	Within 5 days of effective date of WA
1	Work plan	20 days after effective date of WA
1	Monthly status reports	TBD based on coordination with CO/WAM
2	Detailed modeling plan	45 days after effective date of WA
2	Spreadsheets of data and modeling results	TBD based on WAM-approved plan
2	Manuscript(s) for publication	30 days after completion of modeling
3	Quick turnaround deliverables	TBD based on technical direction

V. Reporting Requirements:

The Contractor shall provide monthly progress reports in accordance with the terms of the contract. The Contractor shall submit work products in electronic as well as hard copy form. In addition, the Contractor shall deliver to the WAM each draft and final report in electronic format that is readable by windows-based word-processing (Microsoft Word 2003), graphics (Microsoft PowerPoint 2003), spreadsheet (Excel 2003), and database (Access 2003) programs. The Contractor shall also provide electronic copies of reports in PDF format.

VI. QA Requirements:

The Contractor shall include a quality assurance section in the final deliverable discussing the data used with respect to precision, accuracy, representativeness, comparability, completeness, sensitivity and appropriateness as it applies to this use and its source. The QA section will