EPA

United States Environmental Protection Agency
Washington, DC 20460

Work Assignment

Work Assignment Number: 2-24

☐ Other ☒ Amendment Number: 000001

Contract Number	Contract Period	Title of Work Assignment/SF Site Name
EP-D-14-032	09/16/2014 To 09/15/2017 Base Option Period Number 2	Transport for 2015 Ozone NAAQS

Contractor: INDUSTRIAL ECONOMICS, INCORPORATED

Specify Section and paragraph of Contract SOW: 1,5,6,7,9,10,11,12,13

Purpose:
- ☐ Work Assignment
- ☒ Work Assignment Amendment
- ☒ Work Plan Approval
- ☐ Work Assignment Close-Out
- ☐ Incremental Funding

Period of Performance: From 09/16/2016 To 09/15/2019

Comments:
The revised work plan dated 7/13/2017 has been reviewed and is hereby approved for a decrease of 29 hours and increase of $6.52 (cumulative increase: LOE/455; Cost_Fee/$58,023.57). No previously performed work shall be duplicated.

☐ Superfund — Accounting and Appropriations Data — ☒ Non-Superfund

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

SFO (*Max 2*) ☐

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

	Cost/Fee:	LOE:
Contract Period: 09/16/2014 To 09/15/2017	$58,017.05	484
This Action:	$6.52	-29
Total:	$58,023.57	455

Work Plan / Cost Estimate Approvals

Contractor WP Dated: 07/13/2017	Cost/Fee	$6.52	LOE: -29
Cumulative Approved:	Cost/Fee	$58,023.57	LOE: 455

Work Assignment Manager Name: Christopher Werner	(Signature)	(Date)	Branch/Mail Code: Phone Number: 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	(Signature)	(Date) Digitally signed by NATALIA FISHER-JACKSON DN: c=US, o=U.S. Government, ou=USEPA, ou=Staff, cn=NATALIA FISHER-JACKSON, dnQualifier=0000016076 Date: 2017.08.01 09:12:17 -04'00'	Branch/Mail Code: Phone Number: 919-541-3564 FAX Number:

EPA

United States Environmental Protection Agency
Washington, DC 20460

Work Assignment

Work Assignment Number: 2-24

☐ Other ☐ Amendment Number:

Contract Number	Contract Period	Title of Work Assignment/SF Site Name
EP-D-14-032	09/16/2014 To 09/15/2019 Base Option Period Number 2	Transport for 2015 Ozone NAAQS

Contractor: INDUSTRIAL ECONOMICS, INCORPORATED

Specify Section and paragraph of Contract SOW: 1,5,6,7,9,10,11,12,13

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

Period of Performance: From 09/16/2016 To 09/15/2019

Comments:
The work plan and cost estimate dated 9/30/2016 have been received, reviewed, and are hereby approved for 484 hours and $58,017.05. No previously performed work shall be duplicated.

☐ 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

	Cost/Fee	LOE
Contract Period: 09/16/2014 To 09/15/2019	$0.00	0
This Action:	$58,017.05	484
Total:	$58,017.05	484

Work Plan / Cost Estimate Approvals

	Cost/Fee	LOE
Contractor WP Dated: 09/30/2016	$58,017.05	484
Cumulative Approved:	$58,017.05	484

Work Assignment Manager Name: Christopher Werner	(Signature)	(Date)	Branch/Mail Code: Phone Number: 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	(Signature)	(Date)	Branch/Mail Code: Phone Number: 919-541-3564 FAX Number:

Digitally signed by NATALIA FISHER-JACKSON
DN: c=US, o=U.S. Government, ou=USEPA, ou=Staff, cn=NATALIA FISHER-JACKSON, dnQualifier=0000016076
Date: 2016.11.03 14:59:19 -04'00'

EPA

United States Environmental Protection Agency
Washington, DC 20460

Work Assignment

Work Assignment Number: 2-24

☐ Other ☒ Amendment Number: 000001

Contract Number	Contract Period	Title of Work Assignment/SF Site Name
EP-D-14-032	09/16/2014 To 09/15/2017 Base Option Period Number 2	Transport for 2015 Ozone NAAQS

Contractor: INDUSTRIAL ECONOMICS, INCORPORATED

Specify Section and paragraph of Contract SOW: 1,5,6,7,9,10,11,12,13

Purpose:
- ☐ Work Assignment
- ☒ Work Assignment Amendment
- ☐ Work Plan Approval
- ☐ Work Assignment Close-Out
- ☐ Incremental Funding

Period of Performance: From 09/16/2016 To 09/15/2019

Comments:
SOW has been revised/descoped (attached - changes can be seen in "track changes"). Contractor shall provide a revised work plan/cost estimate in response to these changes. No previously performed work shall be duplicated.

☐ Superfund — **Accounting and Appropriations Data** — ☒ 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 09/15/2017 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: Christopher Werner (Signature) (Date)	Branch/Mail Code: Phone Number: 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: 2017.06.20 09:23:18 -04'00' (Signature) (Date)	Branch/Mail Code: Phone Number: 919-541-3564 FAX Number:	

I. TITLE:

Technical Support for Transport for the 2015 Ozone NAAQS and Visibility Transport
WA#: 2-24

II. CONTRACT OFFICER REPRESENTATIVE (COR):

Christopher Werner (mail code C539-04)
Geographic Strategies Group
Air Quality Policy Division
U.S. EPA, OAQPS
Research Triangle Park, North Carolina 27711
Telephone: (919) 541-5133

III. LEVEL OF EFFORT:

Labor hours:	XX
Duration:	Through September 15, 2017

IV. BACKGROUND:

EPA is currently involved in efforts addressing transported ozone under the "good neighbor" provision, section 110(a)(2)(D)(i) of the Clean Air Act, for the newly revised ozone NAAQS of 70 ppb established in fall 2015 (hereinafter referred to as "the 2015 ozone NAAQS"). For these efforts, a number of undertakings are required~~, including but not limited to development of best available estimates of control costs and available reductions to inform the identification of upwind states' "significant contribution" to downwind nonattainment~~.

In addition, EPA is currently involved in undertakings related to implementation of the visibility protection provisions (section 169A) of the Clean Air Act, including but not limited to a review of SIP and FIP actions taken during, and controls required under, the first implementation period (2007-2018) of the regional haze rule.

The objective of this work assignment is to provide logistical, technical and policy support for~~ a number of~~ efforts related to transport for the 2015 ozone NAAQS~~, including but not limited to ensuring the overall credibility of current emissions reduction estimates and cost estimates associated with these reductions~~) and for efforts related to visibility transport including but not limited to the regional haze rule (including but not limited to a detailed technical and/or policy review of actions taken).~~.~~

V. STATEMENT OF WORK (SOW):

The WACOR is authorized to provide technical direction in accordance with the contract. The contractor shall perform the following tasks:

1. Provide logistical and technical support for stakeholder meeting(s)
2. Provide technical and administrative support in the preparation of regulatory actions

~~3. Conduct a technical review of non-EGU emission inventories and controls~~

3. ~~Provide other support as identified~~Provide support for review of implementation actions under visibility transport, including the regional haze rule

4. Provide other support as identified for visibility transport

Task 1. Work Plan

Work plan in accordance with the contract.

Task 2. Support for Stakeholder Meeting(s)

As directed by the WACOR, the contractor shall provide logistical and technical support for one or more stakeholder meeting(s) during 2016 or 2017. The WACOR will arrange to use federal government facilities for the meetings, if available. In the event that no federal facilities are available, the contractor shall assist in securing the facilities and necessary audiovisual aids as directed by the WACOR. The contractor shall make arrangements for a court reporter, translation services (if requested), and a security detail (if needed), as requested by the WACOR.

As directed by the WACOR, the contractor shall also provide the technical support needed to provide for a final transcript of each of the meeting(s) to the WACOR no later than ten (10) business days after the meeting(s). The contractor shall be responsible for pre-registration and on-site registration of attendees. The contractor shall provide the EPA with a final list of speakers who provided oral feedback at each meeting, including their affiliations, no later than two (2) business days after the meeting. The contractor shall summarize the number of speakers by stakeholder group (e.g., state and local agencies, tribes, industry, agricultural industry, environmental group, public health or medical organization, academia) and identify the number of attendees from the press as well as number of observers (including EPA attendees). The contractor shall provide the EPA all written comments submitted during the meetings immediately following the meetings.

~~**Task 3. Technical Support for Regulatory Actions Concerning Transport for the 2015 Ozone NAAQS**~~

~~As directed by the WACOR, the contractor shall compile, review and summarize background materials, supplemental documents, guidance materials and other related technical products for WACOR review and approval to support initiatives related to regulatory actions concerning transport for the 2015 ozone NAAQS, which initiatives may include, but are not limited to, one or more guidance document(s), model rule(s) and/or federal rulemaking(s).~~

~~**Task 4. Estimate Emission Reductions and Costs of Non-EGU Sources**~~

~~As directed by the WACOR, the contractor shall identify non-EGU sources with existing controls that are not reflected in EPA calculations (for which costs would likely be under- or overestimated, and emissions reductions under- or overestimated). To identify such sources, the contractor shall review available information such as the EPA databases or other federal data~~

~~sources, state rules and/or permits, continuous monitoring data reported to EPA or states, whether sources are located in nonattainment counties with NOx rules and other readily available information.~~

~~As directed by the WACOR, the contractor shall also review the results to identify likely erroneous emission reductions or costs in EPA work products based on the contractor's knowledge of emission reductions and costs expected, including reductions and costs for federal and other rule(s) not yet fully implemented, for various types and sizes of non-EGU sources.~~

~~The contractor shall prioritize the efforts described above on non-EGU source sizes and types that are the greatest contributors to the overall NOx emissions inventory, and on non-EGU source sizes and types that have the greatest likelihood for cost-effective controls.~~

~~As directed by the WACOR, the contractor shall also address whether it is feasible and useful to calculate the NOx emissions for non-EGU sources by using combined information from the NEI and from other data sources such as the greenhouse gas reporting program data.~~

Task ~~5~~3. Additional Support for Transport for the 2015 Ozone NAAQS, As Identified

As directed by the WACOR, the -contractor shall undertake other technical and/or policy support initiatives related to transport for the 2015 ozone NAAQS.

Task 4. Support for Review of Implementation Actions Under Visibility Transport, Including the Regional Haze Rule

As directed by the WACOR, the contractor shall undertake technical and/or policy support initiatives related to regional haze, including, but not limited to, a review of SIP and FIP actions taken during, and controls required under, the first implementation period (2007-2018) of the regional haze rule.

Task 5. Additional Support for Visibility Transport, As Identified

As directed by the WACOR, the contractor shall undertake other technical and/or policy support initiatives related to visibility transport, including but not limited to regional haze.

VI. Quality Assurance Project Plan (QAPP)

The contractor shall include a quality assurance section in the final report 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 discuss how the contractor ensured that the environmental data were of acceptable quality and that they were being used for the purpose for which they were collected.

VII. Work Assignment Deliverable

Task	Date Due	Comments

1. Work plan	Within 20 days of effective date of WA	
2. Support for Stakeholder Meeting(s)	TBD	As directed by WACOR
~~3. Technical Support for Regulatory Actions Concerning Transport for the 2015 Ozone NAAQS~~	~~TBD~~	~~As directed by WACOR~~
~~4. Estimate Emission Reductions and Costs of Non-EGU Sources~~	~~TBD~~	~~As directed by WACOR~~
3~~5~~. Additional Support for Transport for the 2015 Ozone NAAQS, As Identified	TBD	As directed by WACOR
4. Support for Review of Implementation Actions Under the Regional Haze Rule	TBD	As directed by WACOR
5. Additional Support for Visibility Transport, As Identified	TBD	As directed by WACOR

VIII. Reporting Requirements

Reports shall be in accordance with the reporting requirements of the contract as well as the following:

1. The contractor shall be required to present, (a) if requested, and (b) at a site chosen by the WACOR, an informal briefing and review of all work performed under this WA.

2. The contractor shall provide computer files on CDs in Word format of all written draft or final reports deliverable under this WA to the WACOR. The disks shall be scanned for all known computer viruses prior to delivery to the WACOR.

I. TITLE:

Technical Support for Transport for the 2015 Ozone NAAQS and Visibility Transport
WA#: 2-24

II. CONTRACT OFFICER REPRESENTATIVE (COR):

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The objective of this work assignment is to provide logistical, technical and policy support for ~~a number of~~ efforts related to transport for the 2015 ozone NAAQS~~, including but not limited to ensuring the overall credibility of current emissions reduction estimates and cost estimates associated with these reductions~~) and for efforts related to visibility transport including but not limited to the regional haze rule (including but not limited to a detailed technical and/or policy review of actions taken).~~.~~

V. STATEMENT OF WORK (SOW):

The WACOR is authorized to provide technical direction in accordance with the contract. The contractor shall perform the following tasks:

1. Provide logistical and technical support for stakeholder meeting(s)
2. Provide technical and administrative support in the preparation of regulatory actions

~~3. Conduct a technical review of non-EGU emission inventories and controls~~
3. ~~Provide other support as identified~~Provide support for review of implementation actions under visibility transport, including the regional haze rule
4. Provide other support as identified for visibility transport

Task 1. Work Plan

Work plan in accordance with the contract.

Task 2. Support for Stakeholder Meeting(s)

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~~**Task 3. Technical Support for Regulatory Actions Concerning Transport for the 2015 Ozone NAAQS**~~

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~~**Task 4. Estimate Emission Reductions and Costs of Non-EGU Sources**~~

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Task ~~5~~3. Additional Support for Transport for the 2015 Ozone NAAQS, As Identified

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Task 4. Support for Review of Implementation Actions Under Visibility Transport, Including the Regional Haze Rule

As directed by the WACOR, the contractor shall undertake technical and/or policy support initiatives related to regional haze, including, but not limited to, a review of SIP and FIP actions taken during, and controls required under, the first implementation period (2007-2018) of the regional haze rule.

Task 5. Additional Support for Visibility Transport, As Identified

As directed by the WACOR, the contractor shall undertake other technical and/or policy support initiatives related to visibility transport, including but not limited to regional haze.

VI. Quality Assurance Project Plan (QAPP)

The contractor shall include a quality assurance section in the final report 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 discuss how the contractor ensured that the environmental data were of acceptable quality and that they were being used for the purpose for which they were collected.

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~~4. Estimate Emission Reductions and Costs of Non-EGU Sources~~	~~TBD~~	~~As directed by WACOR~~
3~~5~~. Additional Support for Transport for the 2015 Ozone NAAQS, As Identified	TBD	As directed by WACOR
4. Support for Review of Implementation Actions Under the Regional Haze Rule	TBD	As directed by WACOR
5. Additional Support for Visibility Transport, As Identified	TBD	As directed by WACOR

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