



# Illinois Department of Transportation

Office of Finance and Administration  
2300 South Dirksen Parkway / Springfield, Illinois / 62764

## **REQUEST FOR PROPOSALS (RFP) 14-1-DPIT ADDENDUM No. #8 Multi-State Locomotive Procurement**

---

The purpose of this addendum is to present changes to sections within the Request for Proposal which will be included below.

All other terms and conditions of the original RFP Notice and any addenda are unchanged. IDOT will continue to publish addenda to provide responses to vendor questions as required.

Please check the Illinois Transportation Bulletin daily. Email Solicitation Contact Dante Watson at

Dante.Watson@Illinois.gov for questions concerning this addendum and the RFP.

**October 31, 2013**



# Illinois Department of Transportation

Office of Finance and Administration  
2300 South Dirksen Parkway / Springfield, Illinois / 62764

## Changes to Sections in the Request for Proposal

### Revised Procurement Schedule

RFP Section A.23 "Proposed Schedule for the Procurement" is revised as shown below (new information in ***bold-italic***, deleted information in ~~strikethrough~~):

Date	Activity
<b><i>8/8/13</i></b>	Request for Proposals issued
<b><i>8/22/13</i></b>	Offeror Conference (Mandatory)
<b><i>8/29/13</i></b>	First Addendum Issued and posted on the Illinois Transportation Procurement Bulletin
<b><i>9/12/13</i></b>	Last day to submit questions prior to <b><i>Draft</i></b> Offer due date
<b><i>9/24/13</i></b> <del><b><i>9/19/13</i></b></del>	Last Addendum Issued prior to <b><i>Draft</i></b> Offer due date and posted on the Illinois Transportation Procurement Bulletin
<b><i>10/3/13</i></b>	<b><i>Draft</i></b> Offers due
<b><i>10/22/13</i></b> <del><b><i>10/28/13</i></b></del>	Begin Confidential Discussions <del>(as deemed necessary by IDOT/Caltrans)</del>
<b><i>10/23/13</i></b> <del><b><i>11/1/13</i></b></del>	Last day for Confidential Discussions with Offerors <del>(if conducted)</del>
<b><i>11/7/13</i></b>	Last day to submit questions prior to <b><i>Final Revised</i></b> Offer due date <del>(if requested)</del>
<b><i>11/13/13</i></b>	Post final RFP addendum to Illinois Transportation Procurement Bulletin
<b><i>11/27/13</i></b>	<b><i>Final Revised</i></b> Offers due <del>(if requested)</del>
<b><i>December</i></b>	Evaluation Complete – Recommendation for Award to Chief Procurement Officer
<b><i>December</i></b>	CPO Determination on Recommended Award
<b><i>January</i></b>	Notice of Intent to Award
<b><i>January</i></b>	Buy America Pre-Award Audit (estimated duration 20 business days)
<b><i>February</i></b>	Notice of Award published

Please note that no changes have been made or are planned for the Final Offer due date.



# Illinois Department of Transportation

Office of Finance and Administration  
2300 South Dirksen Parkway / Springfield, Illinois / 62764

## Economic Price Adjustment

RFP Attachment EE, Appendix A, Section 13.6 “Economic Price Adjustment” is revised as shown below (new information in ***bold-italic***, deleted information in ~~strikethrough~~):

### 13.6 Economic Price Adjustment

No Economic Price Adjustment will be allowed for the base contract order or for any option orders delivered during the base locomotive production period. Option orders that allow for the contiguous production with the base order are also not subject to any Economic Price Adjustment. Options that require a remobilization by the Vendor will be subject to an adjustment ~~to be determined by the increase in the Producer Price Index for Railroad rolling stock manufacturing (Bureau of Labor Statistics Series ID PCU336510336510)~~ for the period from the Notice to Proceed on the base contract to the Notice to Proceed on any such option order. ***The Adjustment will incorporate the following:***

<b><i>% of Adjustment Factor</i></b>	<b><i>Item</i></b>	<b><i>Source</i></b>
<b><i>15%</i></b>	<b><i>Iron and Steel</i></b>	<b><i>Bureau of Labor Statistics Series WPU101</i></b>
<b><i>10%</i></b>	<b><i>Wire and Cable</i></b>	<b><i>Bureau of Labor Statistics Series WPU10260301</i></b>
<b><i>25%</i></b>	<b><i>Labor (Avg Hourly Earnings of Production and Non-supervisory Employees)</i></b>	<b><i>Bureau of Labor Statistics Series CEU3133610008</i></b>
<b><i>50%</i></b>	<b><i>Industrial Commodities (less fuel)</i></b>	<b><i>Bureau of Labor Statistics Series WPU03thru15MO5</i></b>

***The Adjustment will be calculated as follows:***

***Economic Price Adjustment = (Change in the Iron and Steel Index\*15%) + (Change in the Wire and Cable Index\*10%) + (Change in the Labor Index\*25%) + (Change in the Industrial Commodities Index\*50%)***

In addition, a one-time remobilization cost will be allowed for each option order requiring remobilization. Please include the remobilization cost that will be used for each option order throughout the contract period in the “Informational Price Items” (see RFP Section 2.1 “Format of



# Illinois Department of Transportation

Office of Finance and Administration  
2300 South Dirksen Parkway / Springfield, Illinois / 62764

Pricing”). The remobilization cost will NOT be part of the Pricing Offer evaluation. Remobilization costs will only apply to those option orders that require actual remobilization by the vendor to manufacture the option order.

## Page Limits (RFP Section 1.3 “Format of Offeror’s Proposed Solution to Meet the State’s Requirements”)

Please note the following changes to the Page Limit requirements for the Final Offer:

- RFP Section A.21.5.1, Subsection 1.1.2 “Locomotive P2 Force and Weight Schedule” will be increased to five (5) total pages on letter sized paper, although 11x17 paper can be used for drawings or diagrams as needed.
- RFP Section A.21.5.1, Subsection 1.1.3 “Service and Performance Requirements, and Route Simulations:” Per Addendum 5, Q&A #136 “The page limitation regarding Attachment EE, Appendix G, ‘Service and Performance Requirements, and Route Simulations’ is 25 total pages on letter-sized paper, although 11x17 paper can be used for drawings or diagrams as needed.” This has been added to the table below.
- RFP Section A.21.5.1, Subsection 1.2 “Vehicle Major Systems” will be increased to 140 pages total on letter-sized paper, although 11x17 paper can be used for drawings as necessary.
- RFP Section A.21.5.1, Subsection 1.3.2 “Manufacturing Capacity and Capability” will be increased to 15 pages total on letter sized paper and two drawings on 11x17 paper.

Please see the revised page limits table below:

Offer Packet/Section	Description	# of Pages - Maximum
Packet 1: Technical Proposal Overall Vehicle Information	General Arrangement Drawings	12 pages
Packet 1: Technical Proposal Overall Vehicle Information	Locomotive P2 Force and Weight Schedule	<del>1 page</del> <b>5 pages</b>



# Illinois Department of Transportation

Office of Finance and Administration  
2300 South Dirksen Parkway / Springfield, Illinois / 62764

Offer Packet/Section	Description	# of Pages - Maximum
<b><i>Packet 1: Technical Proposal</i></b> <b><i>Overall Vehicle Information</i></b>	<b><i>Service and Performance Requirements, and Route Simulations</i></b>	<b><i>25 pages</i></b>
Packet 1: Technical Proposal Vehicle Major Systems	Detailed description of each system	<del>120</del> <b>140</b> pages (including drawings)
Packet 1: Technical Proposal Qualifications	Previous Similar Experience	1 page per referenced vehicle order (no limit on # of orders)
Packet 1: Technical Proposal Qualifications	Manufacturing Capacity and Capability	<del>10</del> <b>15</b> pages and 2 drawings
Packet 1: Technical Proposal Qualifications	Staffing Plan and Resumes	1 organization chart, 3 pages of narrative, 1 page per resume (no limit on # of resumes)
Packet 1: Technical Proposal Qualifications	Program Management, Design, Testing and Quality Assurance Plans and Work Flow Diagram	15 total pages including 1 flow chart
Packet 1: Technical Proposal Schedule and Narrative	Critical Path Method Schedule and accompanying narrative	15 pages for schedule and 4 pages of narrative
Packet 2: Offeror Pricing Offer	Pricing Offer	No limit
Packet 3 – Tab 1	Offer form and Attachments	No limit
Packet 3 – Tab 2	Supplemental Provisions Certifications and Letters	No limit



# Illinois Department of Transportation

Office of Finance and Administration  
2300 South Dirksen Parkway / Springfield, Illinois / 62764

Offer Packet/Section	Description	# of Pages - Maximum
Packet 3 – Tab 3	Confidential Documents	No limit
Packet 4	Small Business Enterprises Participation and Utilization Plan – SBE Commitment Document only	No limit

Also, please note that if a Final Offer contains pages in excess to the page limits shown above for any section, the excess pages will be removed from the Final Offer (including all copies) and any information presented on the excess pages will not be evaluated.

In addition, please note that Offer “Overviews,” “Introductions,” “Cover letters,” or similar sections provided in Final Offers will not be reviewed and any information presented in these sections will not be evaluated.

## Major System – Additional Information (RFP Section A.21.5.1 – subsection 1.2 “Vehicle Major Systems and Suppliers”)

Offerors must include the following information in their Final Offer:

Major System	Additional Information
Braking System (Chapter 7)	Please provide estimated brake rates and stopping distances from 125 mph for a light locomotive during a full service stop with friction only, and, with blended braking.
Locomotive Propulsion System (Chapter 9)	Describe an engine preheating system which shall be part of the layover system.  Please describe the preventive, daily, and periodic maintenance requirements of the Tier 4 emissions package in order to maintain certification.



# Illinois Department of Transportation

Office of Finance and Administration  
2300 South Dirksen Parkway / Springfield, Illinois / 62764

Major System	Additional Information
Fuel System (Chapter 17)	As applicable, please specify the consumption rate for Diesel Exhaust Fluid (DEF), the size of the DEF tank, and the comparison between fuel consumption and DEF consumption. The rate should be expressed as a fractional ratio of DEF to Diesel in gallons. Please also verify that the range of the locomotive is defined by the fuel capacity and not the DEF capacity. Please also describe the logistics required to re-fill the DEF tank (e.g. the volume of the re-fill and how the DEF is dispensed).
Safety Accessories - PTC (I-ETMS, ITCS/X-ITCS) (Chapter 24)	Please explain your approach for the application of the ITCS/X-ITCS/ETMS safety systems to the offered locomotive and their ability to be configured for each state's use upon delivery and into the future. (i.e. all systems fully functional, IETMS only, IETMS and X-ITCS only, etc.)

## CER 4 – Essential Patent Disclosure Form

Please note that if an Offeror does not have any Essential Patents to disclose, please submit CER 4 “Essential Patent Disclosure Form” and check Box 2 in Section D which states “After a reasonable and good faith inquiry, the Offeror is not aware of any patent claims that the Offeror may own, control or have the ability to license that might be or become Essential Patents.”

## CDRL Table Update

Per Addendum 6, Q&A 156, the CDRL List for CDRL #14 and #20 (RFP Section 1.4, page 48) will be changed as follows:

CDRL #	Section - TS	Description	Due Date	Milestone
14	Attach EE, Appendix A, Section 1	Domestic Content Improvement Plan (DCIP)	<del>120</del> 30 days NTP	A



# Illinois Department of Transportation

Office of Finance and Administration  
2300 South Dirksen Parkway / Springfield, Illinois / 62764

CDRL #	Section - TS	Description	Due Date	Milestone
20	Attach EE, Appendix A, Section 18.1	Inspection and Test Plan	<del>120</del> 30 days NTP	A

## RFP Section A.21.5.1 – subsection 1.1.2 “Locomotive P2 Force and Weight Schedule”

Each Offeror must complete the following table and include it in the section regarding “Locomotive P2 Force and Weight Schedule.”

- a) Predicted P2 Force, as required by Section 5.7.3 of the Technical Specification, with 0.5 degree dip angle and up to 125 mph. This item will be evaluated as Pass/Fail, as part of the evaluation of the offers.
- b) As supplemental information, Offerors are requested to include calculations and results for:
  - 1 – Section 5.7.4 of the Technical Specification for Class 1 through Class 5 Track up to 90 mph.
  - 2 - Section 5.7.5 of the Technical Specification for Class 6 and Class 7 Track up to 125 mph.

Maximum P2 Force per Section 5.7.3	Maximum P2 Force per Section 5.7.4	Maximum P2 Force per Section 5.7.5



# Illinois Department of Transportation

Office of Finance and Administration  
2300 South Dirksen Parkway / Springfield, Illinois / 62764

## RFP Section A.21.5.1 – subsection 1.1.3 “Service and Performance Requirements, and Route Simulations”

Each Offeror must complete the following tables and include them in the section regarding “Service and Performance Requirements, and Route Simulations.”

### Locomotive Performance Input & Output Data Tables

Offeror:

Date:

#### Performance Simulations Input Data

##### Train 1

Throttle Position	Engine Speed RPM	Brake HP BHP	Tractive Effort LBS*	Fuel Consumption gal/hr	Sound Level dBA***
Idle - No HEP					
Idle - 45kW HEP/Car **					
1					
2					
3					
4					
5					
6					
7					
8					
DB					

##### Train 2



# Illinois Department of Transportation

Office of Finance and Administration  
 2300 South Dirksen Parkway / Springfield, Illinois / 62764

Throttle Position	Engine Speed RPM	Brake HP BHP	Tractive Effort LBS*	Fuel Consumption gal/hr	Sound Level dBA***
Idle - No HEP					
Idle - 45kW HEP/Car **					
1					
2					
3					
4					
5					
6					
7					
8					
DB					

## Train 3

Throttle Position	Engine Speed RPM	Brake HP BHP	Tractive Effort LBS*	Fuel Consumption gal/hr	Sound Level dBA***
Idle - No HEP					
Idle - 45kW HEP/Car **					
1					
2					
3					
4					
5					
6					
7					
8					
DB					

**Notes:**

Train 1 = 1 locomotive & 3 Bi-Level Coach Cars + 1 Cab Car

Train 2 = 1 locomotive & 4 Bi-Level Coach Cars + 1 Cab Car

Train 3 = 2 locomotives & 8 Bi-Level Coach Cars

\* Furnish Speed - TE Curves

\*\* Minimum Engine Speed Required to Meet Load



# Illinois Department of Transportation

Office of Finance and Administration  
2300 South Dirksen Parkway / Springfield, Illinois / 62764

## \*\*\* Simulated Estimate of FRA 210 Method

### Common Inputs:

- 1) Use baseline horsepower, 1800 gallons onboard fuel and HEP ratings – no exceptions
- 2) Include all variable supplies – 1800 gallons fuel, water, sand, DEF (if used), etc.
- 3) 45 kW per car HEP load
- 4) Include allowance for actual auxiliaries/cooling required at AAR standard conditions
- 5) 50% duty cycle for air compressor
- 6) Battery fully charged
- 7) Use actual engine load time (Ramp-Rate) and acceleration
- 8) Cab HVAC and heat off
- 9) Assume no Fairing
- 10) Propulsion system maintained as needed to maintain 45 kW per car and necessary auxiliaries at AAR standard conditions during all dwell times:
  - a) Include 2 minutes per station stop and 1 hour layover time between outbound and inbound segments.
  - b) During station stop and layover dwell times, include fuel consumed for main engine idle as well as fuel for 45kW/car HEP & auxiliary loads.

## Performance Simulations Output Data

		AAR	AAR	AAR				AAR	AAR	AAR
		Time hr:min:sec	Time hr:min:sec	Time hr:min:sec				Fuel Gal	Fuel Gal	Fuel gal
BHP		Train 1	Train 2	Train 3				Train 1	Train 2	Train 3

		Site	Site	Site				Site	Site	Site
		Time hr:min:sec	Time hr:min:sec	Time hr:min:sec				Fuel Gal	Fuel Gal	Fuel gal
BHP		Train 1	Train 2	Train 3				Train 1	Train 2	Train 3



# Illinois Department of Transportation

Office of Finance and Administration  
2300 South Dirksen Parkway / Springfield, Illinois / 62764

--	--	--	--	--	--	--

**Notes:**

Train 1 = 1 locomotive & 3 Bi-Level Coach Cars + 1 Cab Car

Train 2 = 1 locomotive & 4 Bi-Level Coach Cars + 1 Cab Car

Train 3 = 2 locomotives & 8 Bi-Level Coach Cars

AAR = Standard AAR conditions w/ AW1 Load

Site = AAR standard conditions & actual Elevation at TTCl w/ AW0



# Illinois Department of Transportation

Office of Finance and Administration  
2300 South Dirksen Parkway / Springfield, Illinois / 62764

## CER 2.6 Buy America Worksheet – Explanation of “N/A” responses

Please provide an explanation of each “N/A” response in the Buy America Worksheet (CER 2.6). The explanation should clearly describe why the Buy America Component is not applicable to your Offer. Please include these explanations in Offer Packet 3, Tab 2 with the Buy America information. Note that there is no page limit to Offer Packet 3, Tab 2, which includes the Buy America information.

### 1. Buy America CER Forms – Samples

Offers must meet the following requirements when completing form CER 2.7 “Buy America Component Supplier Certification Form.” Please note the directions in *shaded italic* on the sample form below:

- Enter the Offeror name, not the supplier name on the “Offeror’s Company Name” line.
- Enter the Supplier’s name on the “Component Supplier Company Name” line. The Supplier Name should also appear on form CER 2.6 “Buy America Diesel Electric Locomotive Component Worksheet” (Buy America Worksheet) for each component manufactured by this supplier.
- Enter a complete street address on the “Component Supplier Address” line, not a PO Box. This address may be different from the “US Location of Manufacturing” in the table at the bottom of CER 2.7 (i.e. a company headquarters address) and may be outside the United States, but **THE US LOCATION OF MANUFACTURING ADDRESS SHOWN IN THE TABLE AT THE BOTTOM OF CER 2.7 BE IN THE UNITED STATES.**
- Enter the Supplier phone, fax, and email in the spaces indicated.
- Regarding the table at the bottom of CER 2.7, please do the following:
  - In the column “Component No. (Reference to Form CER 2.6),” enter the Component Number from CER 2.6 Buy America Worksheet (the Buy America Component). The Component Number is the only information required in this column and the only information that will be evaluated. Additional information (i.e. part numbers, etc) will not be considered and should not obscure or take the place of the Component Number. If a Supplier is manufacturing multiple Buy America Components, enter each Component Number on a separate line in the table.
  - In the column “Name of Component,” enter the Locomotive Component name from CER 2.6 Buy America Worksheet. The Component Name is the only information required in this column and the only information that will be evaluated. Additional information (i.e. part names, etc) will not be considered and should not obscure or take the place of the Component Name. If a Supplier is manufacturing multiple Buy America Components, enter each Component Name on a separate line in the table.



# Illinois Department of Transportation

Office of Finance and Administration  
2300 South Dirksen Parkway / Springfield, Illinois / 62764

- In the column “U.S. Location of Manufacturing (Street Address, City, State),” enter the street address of the manufacturing location. The following must be included:
  - The location address must be a domestic location in the United States;
  - The city and state of the manufacturing location must be the same as the city and state on shown on CER 2.6 Buy America Worksheet for each Buy America Component;
  - If the manufacturer at the manufacturing location is a sub-supplier of the Supplier shown in the “Component Supplier Company Name” line on CER 2.7, include the sub-supplier name in this column;
  - If a Component has an identified steel element described in CER 2.6 Buy America Worksheet, include the identified steel element on a separate line IF the manufacturing location of the steel is different than the Component. Also, if the manufacturer of the identified steel element is a sub-supplier of the Supplier shown in the “Component Supplier Company Name” line on CER 2.7, include the sub-supplier name in this column.
- At the bottom of the CER 2.7, enter the name and title of person providing the “Authorizing Signature” for the Supplier, and sign and date the form.

## CER 2.7: Buy America Component Supplier Certification Form

Offerors Company Name: \_\_\_\_\_ *OFFEROR NAME (Not Supplier/Subcontractor)*

Component Supplier Company Name: \_\_\_\_\_ *SUPPLIER NAME (Same as on CER 2.6)*

Component Supplier Address: \_\_\_\_\_ *SUPPLIER ADDRESS (street address, not PO Box – may be different than manufacturing address shown in component table below)*

Phone: \_\_\_\_\_ *SUPPLIER PHONE* Fax: \_\_\_\_\_ *SUPPLIER FAX*

Email: \_\_\_\_\_ *SUPPLIER EMAIL*

The above named supplier hereby certifies that all Buy America Components listed in the table below are manufactured in the United States.



# Illinois Department of Transportation

Office of Finance and Administration  
2300 South Dirksen Parkway / Springfield, Illinois / 62764

Component No. (Reference to Form CER 2.6)	Name of Component	U.S. Location of Manufacturing (Street Address, City, State)
# from CER 2.6	Component Name from CER 2.6	<ul style="list-style-type: none"> <li>• Must be in US</li> <li>• Must be same City/State as CER 2.6</li> <li>• If using sub-supplier, name the sub-supplier</li> </ul>
	If Component has an identified steel element, include on a separate line IF the manufacturing location of the steel is different than the Component	

Authorizing Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Offers must meet the following requirements when completing form CER 2.6 "Buy America Diesel Electric Locomotive Component Worksheet." Please note the directions in *shaded italic* on the sample form below:

In the column for "name and location of manufacturer(s)," please follow these instructions:

- Enter name of Supplier, sub-supplier (if applicable), and city/state of Manufacturing Location. The Manufacturing Location must be a US location and must match the city/state shown for this component in the table at the bottom of the Supplier's CER 2.7.
- If Component has an identified steel element, enter the city/state of the Manufacturing Location of the steel, if different than the Manufacturing Location of the component. If the identified steel element is manufactured by a sub-supplier, enter the name of the sub-supplier of the steel. The Manufacturing Location must be a US location and must match the city/state shown for this identified steel element in the table at the bottom of the Supplier's CER 2.7.



# Illinois Department of Transportation

Office of Finance and Administration  
2300 South Dirksen Parkway / Springfield, Illinois / 62764

## CER 2.6: Buy America Diesel Electric Locomotive Component Worksheet

Part I - Buy America Certification					
No	Locomotive Component	Points Available for Domestic Content	Manufactured in the US? Enter Yes or No	If "Yes" name and location of manufacturer(s) (Please complete form CER 2.7 "Buy America Component Supplier Certification Form" for each Supplier identified below)	If Yes, Domestic Component Points Earned
<b>STEEL AND STEEL FABRICATIONS USED IN MANUFACTURE OF LOCOMOTIVE DECK, FLOOR, SHELL, AND CEM ELEMENTS</b>					
# of component	Locomotive Component Name (and its steel, if applicable)	# of points	Yes or No	<ul style="list-style-type: none"> <li>Enter name of Supplier, sub-supplier (if applicable), and city/state of Manufacturing Location. Must be US location and match the city/state shown in the table at the bottom of CER 2.7.</li> <li>If Component has an identified steel element, enter the city/state of the Manufacturing Location of the steel, if different than the Manufacturing Location of the component. If the identified steel element is manufactured by a sub-supplier, enter the name of the sub-supplier of the steel.</li> </ul>	# of points