



**SmartWay Technology  
Application Reporting System  
(STARS)**

**Submission User Guide**

Environmental Protection Agency  
Office of Air and Radiation (OAR)

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## 1 Introduction

The SmartWay Technology Application Reporting System (STARS) is the electronic, web-based tool provided by the Environmental Protection Agency's (EPA's) Office of Air and Radiation (OAR) for the electronic submission of SmartWay technology verification applications to EPA. The STARS tool is available to users through EPA's Central Data Exchange (CDX), a web-based system used for various electronic environmental data submissions to EPA. Under EPA's "E-Reporting" rules, users wishing to submit SmartWay applications to EPA must register for access to the STARS program service through CDX. More information about CDX is available at <https://cdx.epa.gov/>.

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### 1.1 Purpose

The purpose of this document is to help users submit Smartway technology applications using STARS. This user guide is intended for the 'Primary Applicant' and 'Applicant' users of the STARS program service. Users wishing to submit SmartWay technology applications first need to register for the STARS program service within CDX (see CDX STARS Registration User Guide for assistance).

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### 1.2 Background

EPA's SmartWay program helps companies advance supply chain sustainability by measuring, benchmarking, and improving freight transportation efficiency.

Through SmartWay technology verification and branding, EPA has accelerated availability, adoption and market penetration of fuel-saving technologies and operational practices while helping companies save fuel, lower costs and reduce adverse environmental impacts. [Learn how to use the SmartWay brand.](#)

For questions concerning CDX, please contact the CDX Help Desk at [helpdesk@epacdx.net](mailto:helpdesk@epacdx.net) or call 1-888-890-1995 between the hours of 8a.m. – 6p.m. Eastern Standard Time (EST).

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### 1.3 Technology Applications Supported by STARS

STARS can be used to submit applications for verification of two technology categories: Low Rolling Resistance Tires (LRR) and Idle Reduction Technologies (IRT). Application forms for Aerodynamics technologies and Retrofit technologies will be added in the near future.

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### 1.4 System Requirements

In order to use CDX and STARS, the following is required:

- An email account
- Java Script enabled web browser
- Internet access

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#### 1.4.1 Supported Browsers

- Internet Explorer 9 or above
  - Go to the following link to download:

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<http://windows.microsoft.com/en-US/internet-explorer/downloads/ie>

- Mozilla Firefox 3.5 or above
  - Go to the following link to download:  
<http://www.mozilla.com/en-US/firefox/all-older.html>
- Safari 4 or above
  - Go to the following link to download:  
<http://support.apple.com/kb/dl877>
- Google Chrome
  - Go to the following link to download:  
<http://www.google.com/chrome>

**Note – Browsers not supported:**

Microsoft Edge browser should not be used to access the STARS program service.

## 2 STARS Tasks

The following sections describe the tasks a user performs when submitting applications to EPA using the STARS program service:

- Access the STARS Program Service: (see Section 2.1)
- Create a STARS Application: (see Section 2.2)
- Submit a STARS Application: (see Section 2.9)
- Work on a ‘Draft’ Application: (see Section 2.10)
- Review a Submitted STARS Application: (see Section 2.11)
- Download ‘Approved’ Application Approval Letter: (see Section 2.6)
- Resubmit a ‘Pushed Back’ Application: (see Section 2.7)
- Amend an ‘Approved’ Application: (see Section 2.8)
- Withdraw an ‘Approved’ Application: (see Section 2.9)

### 2.1 Access the STARS Program Service

Once logged in to CDX, the ‘STARS: SmartWay Technology Application Reporting System’ is listed in the ‘Services’ section of the page. Select the ‘Primary Applicant’ or ‘Applicant’ Role hyperlink to access the STARS application (see Figure 2-1).

**Figure 2-1 Accessing STARS from CDX**

The screenshot shows the EPA CDX Central Data Exchange interface. At the top, there is the EPA logo and navigation links: Home, About, Recent Announcements, Terms and Conditions, FAQ, and Help. Below this is the CDX logo and 'Central Data Exchange' text, along with a 'Contact Us' link and a user login status: 'Logged in as STARSUSERGUIDE06 (Log out)'. The main content area has tabs for 'MyCDX', 'Inbox', 'My Profile', and 'Submission History'. A 'Services' table is displayed with columns for 'Status', 'Program Service Name', and 'Role'. The 'Role' column for 'STARS: SmartWay Tire Application Reporting System' has 'Applicant' highlighted with a red box. To the right of the table are sections for 'CDX Service Availability' (with a link to 'See the status for all program services') and 'News and Updates' (with the text 'No news/updates.'). At the bottom of the main content area are two buttons: 'Add Program Service' and 'Manage Your Program Services'. The footer contains the CDX Help Desk contact information (888-890-1995 | (970) 494-5500 for International callers), links for 'EPA Home', 'Privacy and Security Notice', 'Accessibility', 'About CDX', 'Frequently Asked Questions', 'Terms and Conditions', and 'Contact Us', and the EPA logo.

After clicking the Applicant (or Primary Applicant) hyperlink, you enter the STARS application where you see the STARS home page (See Figure 2-2). All applications that have been created for the CDX Organization that you registered with are displayed (see CDX STARS Registration User Guide).

From the STARS home page you can:

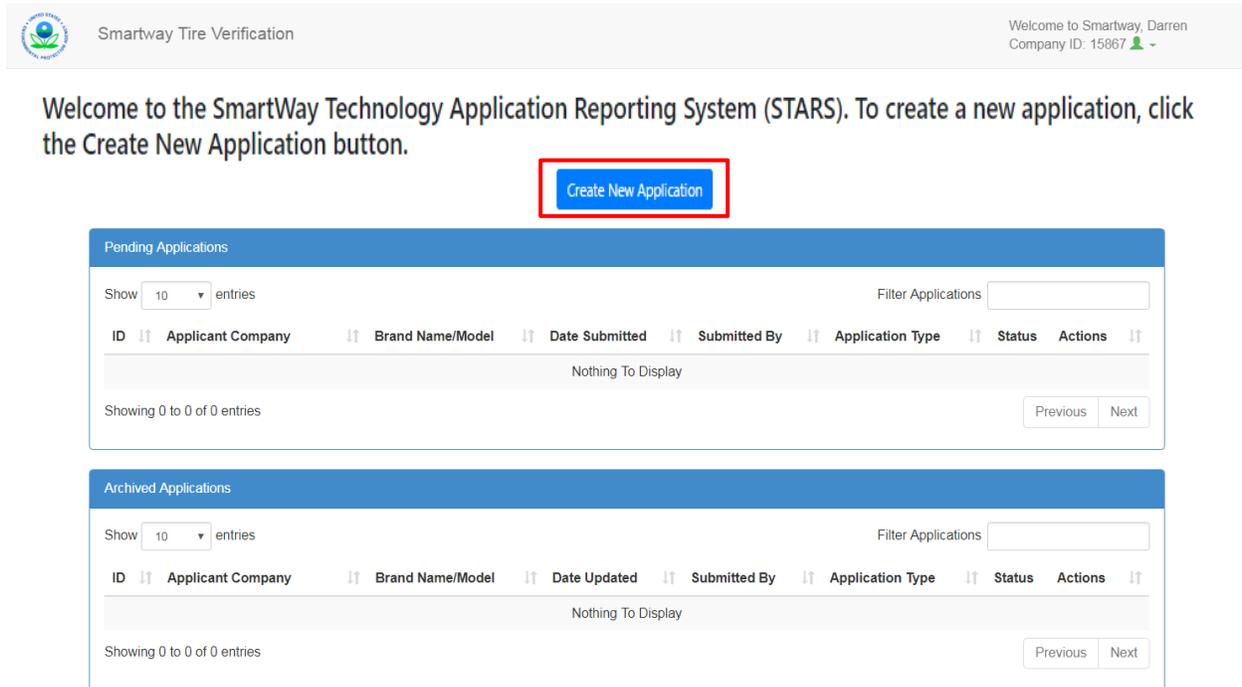
- Create a new STARS application (see Section 2.2)
- Continue a ‘Draft’ application (see Section 2.10.2)
- Delete a ‘Draft’ application (see Section 2.10.3)
- Review a Submitted application (see Section 2.11)
- Download ‘Approved’ Application Approval Letter: (see Section 2.6)
- Resubmit a ‘Pushed Back’ Application: (see Section 2.7)
- Amend an ‘Approved’ Application: (see Section 2.8)
- Withdraw an ‘Approved’ Application: (see Section 2.9)
- Navigate back to MyCDX
- Log out of CDX

At any time, you can return to MyCDX by selecting ‘MyCDX’ in the ‘Welcome to Smartway’ drop-down.

**Warning: Application Forms are not Automatically Saved!**

Remember to save any ‘Draft’ applications before leaving the STARS system (see Section 2.10.1).

**Figure 2-2 STARS Home Page**



## 2.2 Create a STARS application

These sections take you through the steps to complete a STARS application. The STARS application consists of seven pages:

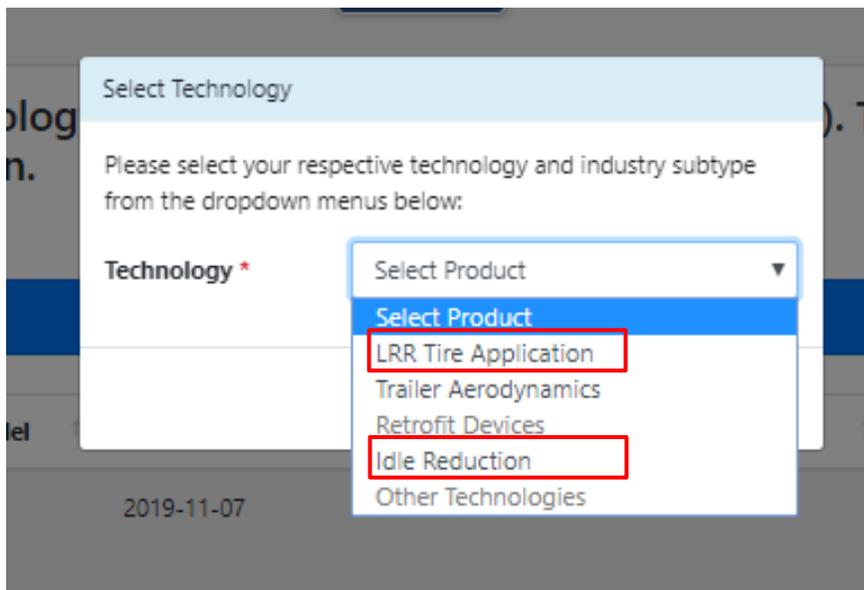
- Applicant Company Information (see Section 2.3).
- Product Information (see Section 2.4)
- Manufacturer Information (see Section 2.6)
- Lab Test Results (see Section 2.7)
- Additional Information (see Section 2.7.2)
- General Comments (see Section 2.8.1)
- Application Review (see Section 2.8.2)

The following pages are common across all technology applications:

- Applicant Company Information
- Manufacturer Information
- Additional Information
- General Comments
- Application Review (Preview of completed application. Product Information and Lab Test Results pages are Technology specific.)

From the STARS home page, select ‘Create New Application’ (Figure 2-2). This opens the ‘Select Technology’ window where you select the ‘Technology’ for which you are submitting an application (see Figure 2-3). Regardless of technology selected an application is created and the Applicant Company Information page displays (see Figure 2-4).

**Figure 2-3 Create New Application – Select Technology**



## 2.3 Applicant Company Information

The Applicant Company Information page allows you to associate two contacts with the application. The ‘Primary Contact’ should be the point of contact for the company submitting the application. The ‘Secondary Contact’ is included in the case that the Primary Contact cannot be reached.

Provide the following information for both the Primary and Secondary contact (see Figure 2-4):

- Title
- First Name
- Last Name
- Position at Company
- Email
- Telephone
- Company

**Note:** The Primary Contact Information is required. If you do not see your company in the ‘Company Selection’ drop-down, you will need to add your company (see Section 2.3.1).

The Secondary Contact Information is not required but is suggested if you would like someone else to be contacted when you are unavailable. Once you have entered all the required information, click the ‘Save and Continue’ button to continue to the ‘Product Information’ page.

## Figure 2-4 Applicant Company Information

Home / Applicant Company Information

### Applicant Company Information

Please provide the contact information requested below. Please note, the primary contact information has been provided via your CDX profile. Once you submit an application, your contact information will be saved for use in all future applications.

#### Primary Contact Information (Applicant)

<b>Title *</b> Mr. ▾	<b>First Name *</b> <input type="text"/>	<b>Last Name *</b> <input type="text"/>
<b>Position at Company *</b> <input type="text"/>	<b>Email *</b> <input type="text"/>	<b>Telephone *</b> <input type="text"/>
<b>Applicant Company Selection *</b> Darren's Test Co - 26922 ▾		<input type="button" value="I Don't See My Company"/>
<b>Address</b> 538 Cajundome Blvd	<b>Address Line 2</b> <input type="text"/>	<b>City</b> Lafayette
<b>State or Province</b> LA	<b>ZIP</b> 70506	<b>Country</b> US

#### Secondary Contact Information

<b>Title</b> Mr. ▾	<b>First Name</b> <input type="text"/>	<b>Last Name</b> <input type="text"/>
<b>Position at Company</b> <input type="text"/>	<b>Email</b> <input type="text"/>	<b>Telephone</b> <input type="text"/>
<b>Secondary Company Name</b> <input type="text"/>		
<b>Country</b> Select Country ▾		
<b>Street Address Mailing Address of Manufacturer Address of Factory</b> <input type="text"/>		
<b>Street Address (Line 2)</b> <input type="text"/>		
<b>City</b> <input type="text"/>	<b>State or Province</b> <input type="text"/>	<b>Zip or Postal Code</b> <input type="text"/>

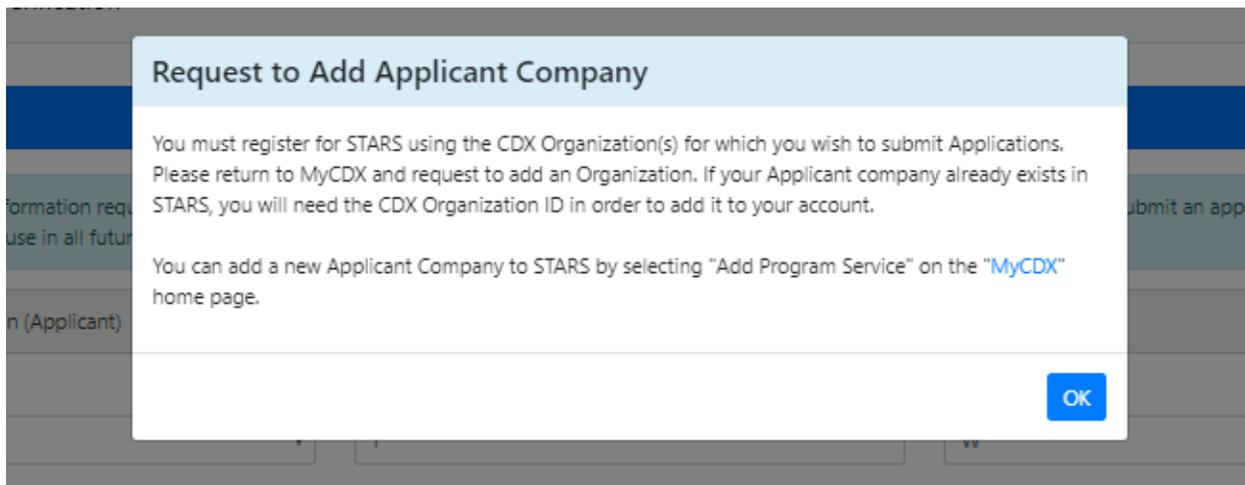
### 2.3.1 Add a New Company

If you do not see your company in the ‘Company Selection’ drop-down menu for the Primary Contact, you can add a new company by selecting ‘I Don’t See My Company’.

The STARS application uses your CDX Organization as your Applicant Company. If you would like to submit the application for another company, you will need to add that company to your CDX profile as an alternative CDX Organization.

Once you have selected ‘I Don’t See My Company’, select the ‘CDX’ link in the ‘Request to Add Applicant Company’ pop up (see Figure 2-5).

**Figure 2-5 Request to Add Applicant Company**



For more information on adding CDX Organizations to your CDX Profile, reference the CDX STARS Registration User Guide.

If your mailing address is outside of the United States (U.S.), the page will expand to display instructions instructing you to upload an image or text file containing your mailing address in your native language and characters (see Figure 2-6). This will make it easier for EPA to mail certification letters to you through your country’s postal service. Select ‘Upload’ to add an image or text file containing your address to your application.

**Figure 2-6 Foreign Address File Upload**

**Country \***

**Street Address \***

**Street Address (Line 2)**

**City \***

**State or Province \***

**Zip or Postal Code \***

You have indicated that your company address is outside the United States. To better ensure the delivery of the confirmation letter if your application is approved, please first provide your address in English above and also attach a file that contains your address information written in the language and character used by your country's postal service. The following file types can be uploaded: .jpeg, .pdf, .doc, .docx, .pdf, .txt, .xls, .xlsx

Upload a File

Upload Foreign Address Information

File Name	File Size	Actions
No Files Uploaded		

Showing 0 to 0 of 0 entries

## 2.4 Product Information

After providing the Applicant Company Information, you proceed to the ‘Product Information’ page where you provide the following information about the technology you are applying to certify:

- Brand Name and Model
- Technology Specific Product Information
- Laboratory and Testing Information

### 2.4.1 Low Rolling Resistance Tires (LRRT) Product Information

#### 2.4.1.1 LRRT Brand Name and Model Information

You need to provide the Brand Name and Model for the tire you wish to certify (see Figure 2-7). To add a Brand Name and Model, click the ‘Add Brand Name and Model’ button and fill out the displayed fields with the requested information (see Figure 2-8). If you intend to sell your tire under more than one Brand Name and Model, you must provide all alternate Brand Names and Models and specify the Brand Name and Model the tire will be primarily sold as by answering ‘Yes’ to the question “is this your primary brand name and model?”

The primary Brand Name and Model should be the Brand Name and Model that appears on the laboratory test report. If your tire is to be sold under one Brand Name and Model, specify that Brand Name and Model as ‘Primary.’

**Figure 2-7 LRRT Brand Name and Model Information**

**Brand Name and Model**

Please provide the Brand Name and Model for the tire you wish to verify by clicking the Add Brand Name and Model button below. If you intend to sell your tire under more than one Brand Name and Model, you must provide all alternate Brand Names and Models and specify which Brand Name and Model are the primary brand/model. The primary brand/model should be the brand/model that appears on the laboratory test report. If you have added more than one Brand Name and Model, you will be required to acknowledge the statement below certifying that all alternate brands and models are identical to the primary brand/model.

Show 10 entries Search:

Brand Name(s)	Model(s)	Primary?	Retailer Address	Retailer Contact	Actions
Bad Brand	Okay Tire	No	Test Tire Co 5566 Testing Rd. Okayville, AK 77441	JaneDoe jane.doe@testtire.com 8887942563 testtire.com	<a href="#">Edit</a> <a href="#">Delete</a>
Best Brand	Cooler Tire	Yes	Acme Retailer 3344 Acme Dr. Awesome, ND 36963	JohnDoe john.doe@acme.com 8003798456 acmetimeco.com	<a href="#">Edit</a> <a href="#">Delete</a>

Showing 1 to 2 of 2 entries Previous 1 Next

I certify that the alternate tire brand/models are identical to the tested brand/model in all respects except for the branding. **Add Brand Name and Model**

**Figure 2-8 Adding a Brand Name and Model**

**New Brand Name and Model**

**Brand Name \***

**Model \***

Is this your primary brand name and model?  
 Yes  No

Please provide the retailer information requested. In order the tire to be approved, EPA must be able to purchase each brand from a retailer in the United States, EPA chooses tires at random to test and confirm compliance.

**Retailer Address**

**Retailer Company Name \***

**Mailing Address of Retailer \***

**Mailing Address of Retailer (Line 2)**

**City \***  **State or Province \*** Select State **Postal Code \***

In addition to providing your Brand Name, Model, and Primary specification, you are asked to provide the Retailer Information indicating where your tire can be purchased in the United States:

- Retailer Company Name
- Mailing Address of Retailer
- Mailing Address of Retailer (Line 2) – Not required
- City
- State or Province
- Postal Code

You are also asked to provide information for a contact at the Retailer:

- First Name
- Last Name
- Email
- Telephone
- Retailer Website – Not required

EPA requests this information so the tire can easily be purchased for quality assurance testing.

Once you have finished providing the required information, click the save button to add the Brand Name and Model to your application. The entry is added to the table where you can edit or delete it by selecting the ‘Edit’ or ‘Delete’ buttons in the ‘Actions’ column. If you have entered more than one Brand Name and Model, you are required to check the following statement before proceeding:

*I certify that the alternate brands/models are identical to the tested brand/model in all respects except for the branding.*

### 2.4.1.2 Product, Size, and Position Information

In this section, you provide more details about the tire for which you are submitting the application. You must provide the following information about your tire (see Figure 2-9):

- Product

- Size Tested
- Requested Axle Positions
- Tread Depth\*
- Tread Pattern Photo\*
- Tread Model Designation Stamping Photo\*

\*only required if the selected product type is a retread (see Figure 2-10)

**Figure 2-9 Product, Size, and Position Information (New Tire)**

Product, Size and Position Information

Tires tested in sizes 295/75R22.5 and 275/80R22.5 qualify for verification in all sizes. Tires tested in other listed sizes qualify for verification only for the size tested.

**Product \***  **Size Tested \***

Tires that qualify for trailer position also qualify for steer and drive, and drive, and tires that qualify for steer also qualify for drive. Steer and trailer tires qualify for verification for use on the unpowered (tag) axle of a 6 X2 tractor configuration. Multiposition verification must be requested by the applicant.

**Requested Axle Positions \***

**Figure 2-10 Product, Size, and Position Information (Retread Tire)**

Product, Size and Position Information

Tires tested in sizes 295/75R22.5 and 275/80R22.5 qualify for verification in all sizes. Tires tested in other listed sizes qualify for verification only for the size tested.

**Product \***  **Size Tested \***  **Tread Depth (inches) \***

You have indicated that you tire is a retread. All retread applications must include a photo of the tread pattern and a photo of the tread model designation stamping on the tread edge. Please upload both photos below. The uploaded file must be either a .JPEG or .PNG.

Uploaded Retread Photos

File Name	File Size	Actions
No Files Uploaded		

Showing 0 to 0 of 0 entries

## 2.4.2 Idle Reduction Technology (IRT) Product Information

### 2.4.2.1 IRT Brand and Model Information

You may include one or more IRT applications per submission by adding multiple Technology Types to your application (see Figure 2-11). For each technology:

1. Select a 'Technology Type' from the dropdown list (see Figure 2-12)
2. Enter the Brand Name and Model for the technology selected.
3. Click the 'Add Technology' button.
4. Indicate if the technology is designed for class 8 long haul heavy duty sleeper tractors (see Figure 2-13). Select 'Yes' or 'No' and then click 'OK'.

**Figure 2-11 IRT Brand Name and Model Information (1 of 3)**

Product Information

Please provide all product information requested.

Product Information and Specifications

Add Technology

Sector: Class 8 Long Haul Tractor Trailer

Technology Type \*: APU/GS (Auxiliary Power L)

Brand Name \*: APU/GS Brand

Model \*: APU/GS Model

Add Technology

▶ APU/GS Brand APU/GS Model Remove Technology

Cancel Back Save Save and Continue

**Figure 2-12 IRT Brand Name and Model Information (2 of 3)**

Add Technology

Sector: Class 8 Long Haul Tractor Trailer

Technology Type \*: Select Technology

Brand Name \*:

Model \*:

Add Technology

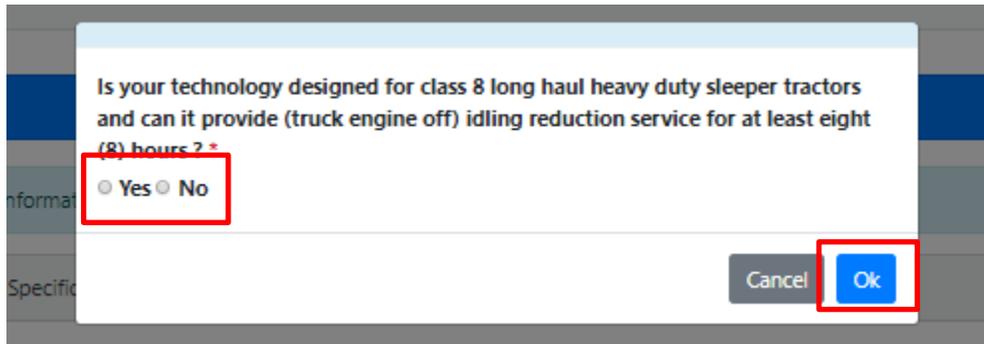
▶ Testing Brand Testing Mode Remove Technology

Select Technology

- APU/GS (Auxiliary Power Units and Generator Sets)
- BAC (Battery Air Conditioning Systems)
- EPS/TSE (Electrified Parking Spaces/Truck Stop Electrification)
- FOH aka DFH (Fuel Operated Heaters aka Direct Fired Heaters)
- TSS (Thermal Storage Systems)
- Other Idling Reduction Technology
- Multi Technology

**Note:** If you answer “No” that your technology is not designed for class 8 long haul heavy duty sleeper tractors and can provide (truck engine off) idle reduction services for at least 8 hours, you will not be permitted to submit an application to EPA using STARS.

**Figure 2-13 IRT Brand Name and Model Information (3 of 3)**



Each technology added appears in an expandable section below the ‘Product Information and Specification’ section labeled with the Brand Name and Model specified. To enter product information for each technology click the triangle to the left of the Brand Name/Model to open the ‘Product Information’ window.

#### 2.4.2.2 IRT Product Information

The sector, technology type, brand name, and model of the technology displays at the top of the ‘Product Information section. You will need to provide the following information about your technology (see Figure 2-14). Fields marked with an asterisk are required:

- Engine Family Name

**Specifications:**

- Engine Off Duration (min 8 hrs)
- Length (in)\*
- Height (in)\*
- Width (in)\*
- Weight (lbs)\*
- Fuel Savings (gallons/hr)\*
- Heat Output (Btu/hr)\*
- Electrical Output (watts/hr)\*
- Air Conditioning Output(Btu/hr)\*
- Heats Truck Coolant or Engine Pre-heating\*
- Diesel Engine or Alternative Source of Ignition and continuous operation of IRT\*
  - Diesel Engine
  - Alternative Source of Ignition

**Sales & Warranty**

- Retail Cost\*
- Length and Terms of Warranty
- Sales and Service Location\*
- Return On Investment (Months)\*

- You may use the 'Browse' button to attach a file containing 'Sales and Service Location' information.

Figure 2-14 IRT Brand / Model Information (1 of n)

▼ APU/GS Brand APU/GS Model
Remove Technology

Product Information

<b>Sector</b>	<b>Technology Type</b>	<b>Engine Family Name *</b>
Class 8 Long Haul Tractor Trailer	APU/GS (Auxiliary Power Units and Generator Sets)	<input type="text"/>
<b>Brand Name</b>	<b>Model</b>	
APU/GS Brand	APU/GS Model	

### Specifications

Engine Off Duration (min 8 hrs)	Length (in) *	Height (in) *	Width (in) *	Weight (lbs) *
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Fuel Savings (gallons/hr) *	Heat Output (Btu/hr) *
<input type="text"/>	<input type="text"/>

Electrical Output (watts/hr)	Air Conditioning Output(Btu/hr)
<input type="text"/>	<input type="text"/>

Heats Truck Coolant or Engine Pre-heating \*

▼

Diesel Engine or Alternative Source of Ignition and continuous operation of IRT \*

Diesel Engine  Alternative Source of Ignition

### Sales And Warranty

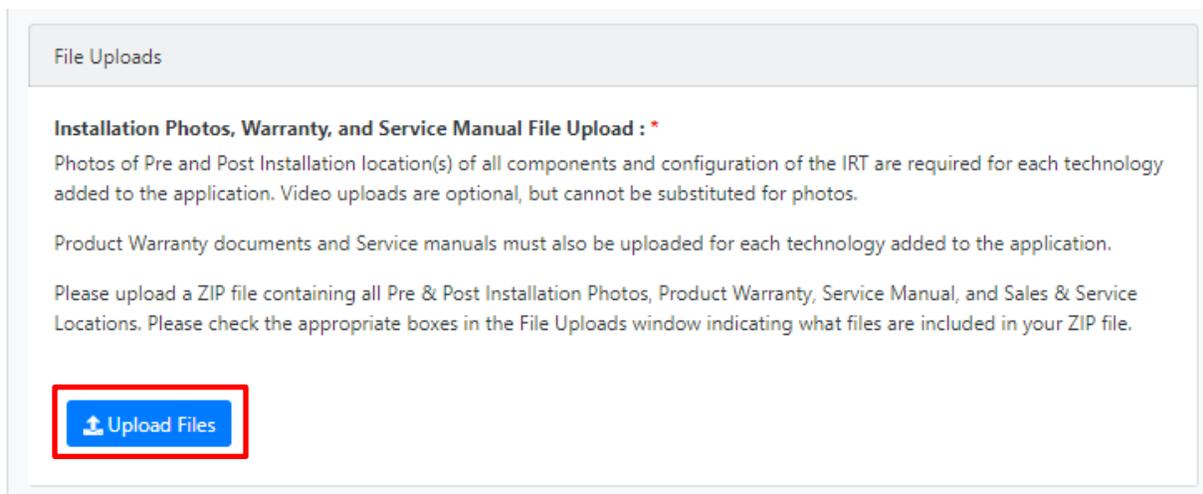
Retail Cost *	Length and Terms of Warranty
<input type="text"/>	<input type="text"/>

Sales and Service Location *	Return On Investment (Months) *
<input type="text" value="Enter Text"/>	<input type="text"/>

### 2.4.2.3 IRT File Uploads

Use the 'File Uploads' section of the application to attach a ZIP file containing product photos of all components in a pre- and post-installation configuration. Click the 'Upload Files; button to open the 'File Upload' dialog box to attach your ZIP file (see Figure 2-15).

**Figure 2-15 IRT File Uploads (1 of 2)**



Documents to include in the ZIP file are listed below (Required files are marked with an asterisk):

**Installation Photos and Videos:**

- Pre-Installation Photo\*
- Pre-Installation Video
- Post-Installation Photo\*
- Post-Installation Video
- Device Schematic
- Test Report
- Additional Documentation

**Warranty and Service Manuals:**

- Product Warranty\*
- Service Manual\*

**Sales and Service Information:**

- Sales Locations\*
- Service Locations\*

**Note:** You must include all required files in your ZIP file and check all required files before you can proceed to the next section

Click the 'Upload Files' button to browse your local file system. Double click the file you wish to upload or click the 'Open' button. Click the 'Done' button to close the File Uploads window and proceed to the 'Additional Questions' section.

Figure 2-16 IRT File Uploads (1 of 2) (6 of n)

File Uploads

When uploading your .zip files, please indicate what files are included in the upload below.

**Installation Photos and Videos:**

Pre-Installation Photo \*       Pre-Installation Video  
 Post-Installation Photo \*       Post-Installation Photo  
 Installation Instructions \*  
 Device Schematic  
 Test Report  
 Additional Documentation

**Warranty and Service Manuals:**

Product Warranty \*       Service Manual \*

**Sales and Service Information:**

Sales Locations \*       Service Locations \*

Upload Files

Done

#### 2.4.2.4 IRT Additional Questions

Additional questions, not previously captured in the ‘Product Information’ section are asked in this section (see Figure 2-17). All questions are ‘Yes’ / ‘No’ questions and all questions in this section are required to be answered.

Each question, depending on the response requires further explanation in the comment box that displays when you answer the question. Further explanation are required for the following responses:

- Does your technology have federal regulatory requirements that supersede verification?  
**Yes**
- Does your company offer full warranty over the sale of this product? **No**

- Is this the first time you have submitted this technology for EPA verification? **No**
- Does your technology have any health or safety concerns? **Yes**
- Does your technology have any existing durability, emissions, or overall performance data? **Yes**
- Is your technology beyond the research and development stage and currently available commercially? **No**

**Figure 2-17 IRT Additional Questions**

Additional Questions

Does your technology have federal regulatory requirements that supersede verification? \*  Yes  No

Does your company offer full warranty over the sale of this product? \*  Yes  No

Is this the first time you have submitted this technology for EPA verification? \*  Yes  No

Does your technology have any health or safety concerns? \*  Yes  No

Does your technology have any existing durability, emissions, or overall performance data? \*  Yes  No

Is your technology beyond the research and development stage and currently available commercially? \*  Yes  No

#### 2.4.2.5 IRT Laboratory Information

Laboratory testing information is provided in this section for technologies that already have a Smartway certification. For technologies not yet certified testing requirements can be found at: [Testing for SmartWay Verification of Idling Reduction Technologies \(IRTs\) for Trucks](#)

**Figure 2-18 IRT Laboratory Information (1 of 2)**

Laboratory Information

If your technology is already certified and has an engine, please provide a copy of the engine certification as well as the engine family. Please also provide the engine family name, year, and model of the device after selecting 'Yes' in the prompt below.

If your technology does not have any applicable testing information, select the appropriate option below and continue with your application.

**This technology does not have any applicable testing laboratory information.**

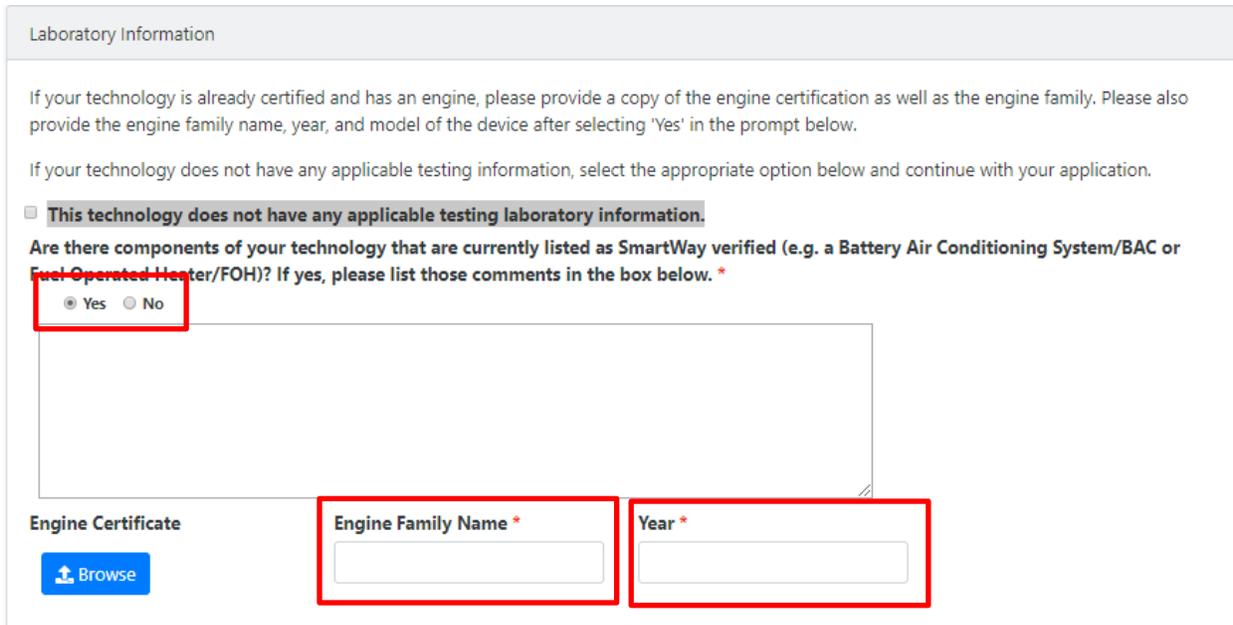
Are there components of your technology that are currently listed as SmartWay verified (e.g. a Battery Air Conditioning System/BAC or Fuel Operated Heater/FOH)? If yes, please list those comments in the box below. \*  Yes  No

✕ Close
⏪ Back
📄 Save
➡ Save and Continue

Checking the ‘This technology does not have any applicable testing laboratory information’ checkbox opens the *EPA Testing SmartWay Verification of Idling Reduction Technologies (IRT) for Truck* web page for your reference.

If your technology is already certified select ‘Yes’, provides comments in the comment box, upload a copy of your Engine Certificate, and enter the Engine Family Name and Year from the certificate (see Figure 2-19).

**Figure 2-19 IRT Laboratory Information (2 of 2)**



Laboratory Information

If your technology is already certified and has an engine, please provide a copy of the engine certification as well as the engine family. Please also provide the engine family name, year, and model of the device after selecting 'Yes' in the prompt below.

If your technology does not have any applicable testing information, select the appropriate option below and continue with your application.

**This technology does not have any applicable testing laboratory information.**

Are there components of your technology that are currently listed as SmartWay verified (e.g. a Battery Air Conditioning System/BAC or Fuel Operated Heater/FOH)? If yes, please list those comments in the box below. \*

Yes  No

Engine Certificate

Engine Family Name \*

Year \*

## 2.5 Laboratory and Testing Information

Select the Test Laboratory that tested the compliance of your product (see Figure 2-20). If you do not see the test lab you used in the ‘Test Laboratory selections’ drop-down menu, you can select ‘I Don’t See My Test Lab’ to add your test lab’s information (see Figure 2-21).

You will need to provide the following information:

- Test Laboratory Name
- Laboratory Accreditation
- Country
- State or Province
- City
- Laboratory Accreditation Certificate

You can add the laboratory accreditation certificate by selecting ‘Upload Files’. Once you have uploaded the certificate, it is added to the Uploaded Files table where you can delete it if necessary by selecting delete in the action column.

**Note:** If you selected your test lab from the ‘Test Laboratory selections’ drop-down menu, no additional test lab information is required. All information pertaining to these test labs, including the Laboratory Accreditation Certificate, is already stored in EPA’s database.

**Figure 2-20 Laboratory and Testing Information**

Laboratory and Testing Information

To select your test laboratory, type in the first few letters in the dropdown menu below and click on a lab. If you don't see your test lab, click the I Don't See My Test Lab button to provide your lab's information.

Test Laboratory selections

Test Lab 1

I Don't See My Test Lab

**Figure 2-21 Add a New Test Lab**

Test Laboratory selections

Test Lab 1

I Don't See My Test Lab

Please provide the name and location of your test laboratory, the laboratory's testing method, and accreditation certificate.

Test Laboratory Name \*

Laboratory Accreditation \*

Country \*

State or Province \*

City \*

Select Accreditation

Select My Test Lab From List

Select Country

Please include a copy of the current laboratory accreditation certificate. The file uploaded must be either a .PDF or .JPEG.

Upload a File

Uploaded Files

File Name	File Size	Actions
No Files Uploaded		

Showing 0 to 0 of 0 entries

Previous Next

Once you have completed the Brand Name and Model Information and the Laboratory and Testing Information, select ‘Save and Continue’ to proceed to the Manufacturer Information page.

## 2.6 Manufacturer Information

This section takes you through the steps to provide Manufacturer Information. You need to provide the Manufacturer and Factory used to produce your product. If your Manufacturer or

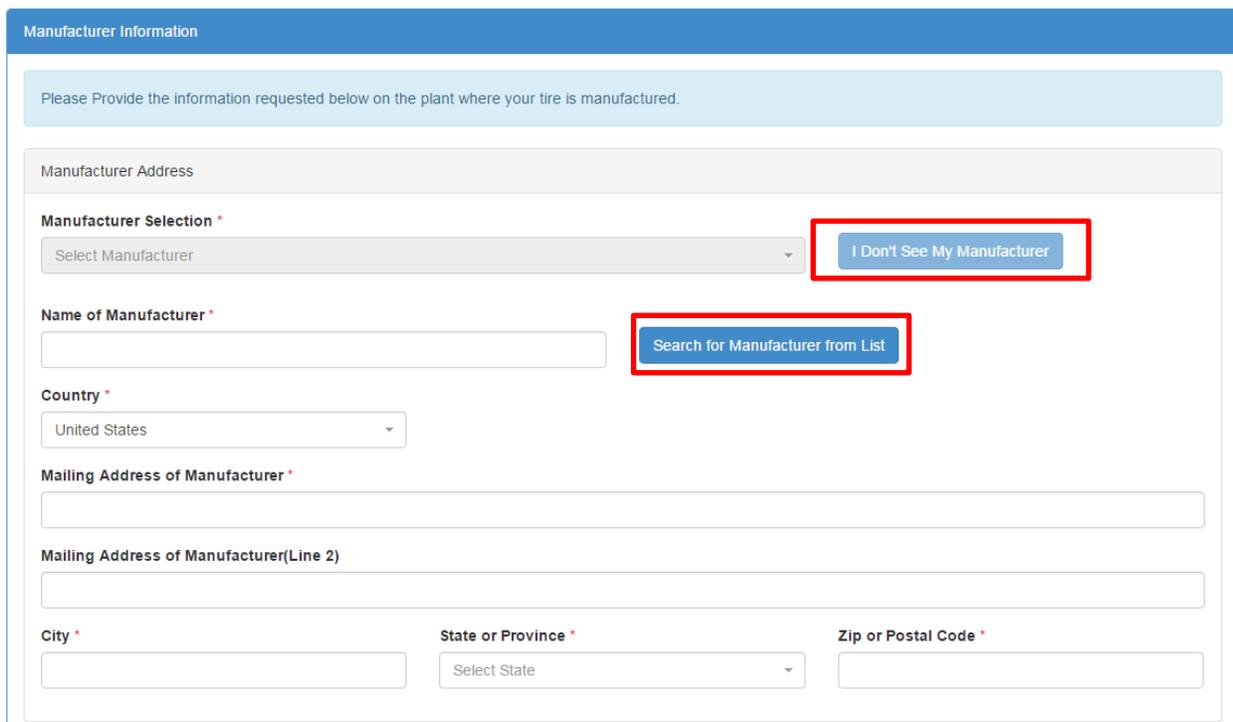
Factory is not listed in the drop-down, you must provide additional information. You will also need to describe your relationship with the manufacturer.

### 2.6.1 Manufacturer Address

Select your manufacturer from the ‘Manufacturer Selection’ drop-down and proceed to Factory Selection. If you do not see your manufacturer in the list, select ‘I Don’t See My Manufacturer’ and provide the following information (see Figure 2-22):

- Name of Manufacturer
- Country
- Mailing Address of Manufacturer
- Mailing Address of Manufacturer (Line 2) – not required
- City
- State or Province
- Zip or Postal Code

**Figure 2-22 Manufacturer Information**



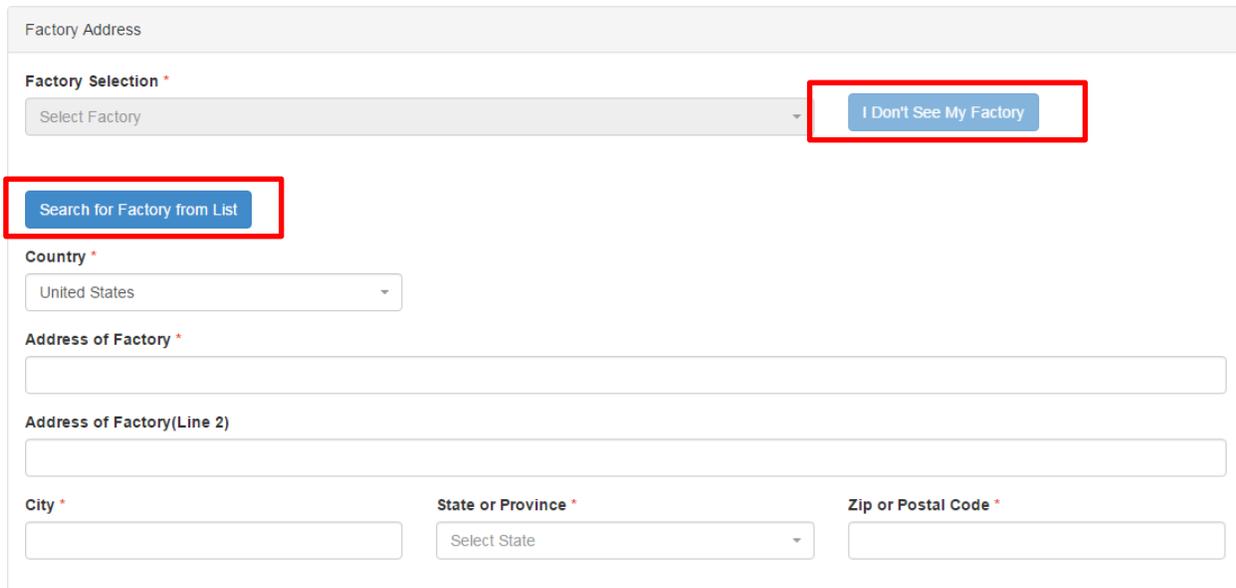
If you would like to return and search through the list of manufacturers in the ‘Manufacturer Selection’ drop-down menu, select ‘Search for Manufacturer from List’.

### 2.6.2 Factory Address

Select your factory from the ‘Factory Selection’ drop-down and proceed to Applicant/Manufacturer Relationship. If you do not see your factory in the list, select ‘I Don’t See My Factory’ and provide the following information (see Figure 2-23):

- Country
- Address of Factory
- Address of Manufacturer (Line 2) – not required
- City
- State or Province
- Zip or Postal Code

**Figure 2-23 Factory Information**



If you would like to return and search through the list of factories in the ‘Factory Selection’ drop-down menu, select ‘Search for Factory from List’.

### 2.6.3 Applicant/Manufacturer Relationship

Describe the relationship between you (the applicant) and the manufacturer in the ‘Please Describe the Relationship Between Applicant and Manufacturer’ field (see Figure 2-24). An example of a relationship would be “Applicant is the same as the Manufacturer.” Once you have provided the Manufacturer, Factory, and the Applicant/Manufacturer Relationship, select ‘Save and Continue’ to proceed to the Laboratory Test Results page.

**Figure 2-24 Applicant/Manufacturer Relationship**



## 2.7 Laboratory Test Results

### 2.7.1 Low Rolling Resistance Tires (LRRT) Lab Test Results

In this section, you provide the results from your product's laboratory tests. To begin, you need to provide the following for the three (3) tires the laboratory tested (see Figure 2-25):

- Date Tested (mm/dd/yyyy)
- Test Tire DOT Code
- Rolling Resistance Coefficient (kg/ton)

**Figure 2-25 Tire Test Results**

Laboratory Test Results

Please provide the results of all laboratory tests.

Results of Laboratory Tests

<b>Tire 1:</b>	Date Tested (mm/dd/yyyy) * <input type="text"/>	Test Tire DOT Code * <input type="text"/>	Rolling Resistance Coefficient (kg/ton) * <input type="text" value="0"/>																																										
<b>Tire 2:</b>	<div style="border: 1px solid #add8e6; padding: 5px; margin-bottom: 5px;">                     January 2017                 </div> <table border="1" style="font-size: small; border-collapse: collapse; width: 100%;"> <thead> <tr> <th>Su</th><th>Mo</th><th>Tu</th><th>We</th><th>Th</th><th>Fr</th><th>Sa</th></tr> </thead> <tbody> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr> <tr><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td></tr> <tr><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td></tr> <tr><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td></tr> <tr><td>29</td><td>30</td><td>31</td><td></td><td></td><td></td><td></td></tr> </tbody> </table>	Su	Mo	Tu	We	Th	Fr	Sa	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					Test Tire DOT Code * <input type="text"/>	Rolling Resistance Coefficient (kg/ton) * <input type="text" value="0"/>
Su	Mo	Tu	We	Th	Fr	Sa																																							
1	2	3	4	5	6	7																																							
8	9	10	11	12	13	14																																							
15	16	17	18	19	20	21																																							
22	23	24	25	26	27	28																																							
29	30	31																																											
<b>Tire 3:</b>		Test Tire DOT Code * <input type="text"/>	Rolling Resistance Coefficient (kg/ton) * <input type="text" value="0"/>																																										

**Average Rolling Resistance Coefficient: 0 kg/ton**

If applicable, you need to specify the 'Test Method' your test laboratory used.

Note: If your product is a retread type, the 'ISO28580' test method is selected for you. The final laboratory test information you need to provide are your original laboratory test sheets. Select 'Upload' to add the necessary attachments to the application (see Figure 2-26). Once completed, select 'Save & Continue' to proceed to the Additional Information page.

**Figure 2-26 Test Method and Test Sheet Upload**

Results of Laboratory Tests

**Test Method**

Select Test Method ▾

Please attach the original laboratory test sheets \*

Please attach the original laboratory test sheets. The file uploaded must be either a .JPEG or .PDF

Upload

Uploaded Files

File Name	File Size	Actions
File 1.pdf	20 KB	<a href="#">Delete</a>
File 2.pdf	30 KB	<a href="#">Delete</a>

Showing 1 to 2 of 2 entries

Previous 1 Next

## 2.7.2 Idle Reduction Technology (IRT) Lab Test Results

Laboratory test results must be provided for each device (technology) specified (see Figure 2-27). For each device the following information is required:

- Date Tested (yyyy-mm-dd)\*
- Device DOT Code\*
- Fuel Savings Percentage\*

Stars calculates Average Fuel Savings Percentage across all devices.

EPA laboratory testing procedures can be found at: [Draft Test Protocol for Idling Reduction Technologies \(IRTs\) for Trucks](#). This page can be accessed by clicking the ‘[here](#)’ hyperlink in the Results of Laboratory Test section.

The following laboratory testing information and documentation is required to be provided:

- Test Method: select from dropdown list (see Figure 2-28).
  - ISO 28580
  - SAE J1269 5-point average
  - SAE J1269 Test point 2
  - SAE J1269 Application test point
- Copy of Engine Certification Information and Emissions Data
- Copy of original laboratory test sheets

**Figure 2-27 Results of Laboratory Test – IRT (1 of 2)**

Laboratory Test Results

Please provide the results of all laboratory tests.

Results of Laboratory Tests

<b>Device 1:</b>	Date Tested (yyyy-mm-dd) * 2019-10-20	Device DOT Code * 111111111	Fuel Savings Percentage * 12
------------------	--	--------------------------------	---------------------------------

Average Fuel Savings Percentage: 12

Results of Laboratory Tests

EPA recommended laboratory testing procedures for Idle Reduction technologies can be downloaded [here](#).

**Test Method \*** Please attach photocopy of engine certification info and emissions data

Test.jpg

Please attach the original laboratory test sheets (if applicable), as well as a photocopy of your engine certification information and emissions data for each technology \*

Uploaded Files

File Name	Size	Actions
Test.jpg	800	<input type="button" value="Delete"/>

1

**Figure 2-28 Results of Laboratory Test – IRT (2 of 2)**

Results of Laboratory Tests

EPA recommended laboratory testing procedures for Idle Reduction technologies can be downloaded [here](#).

**Test Method \*** Please attach photocopy of engine certification info and emissions data

ISO28580

Select Test Method

ISO28580

SAE J1269 5-point average

SAE J1269 Test point 2

SAE J1269 Application test point

Test.jpg

Please attach the original laboratory test sheets (if applicable), as well as a photocopy of your engine certification information and emissions data for each technology \*

## 2.8 Additional Information

Once you have provided all of the details on your product, you need to answer some additional questions. The following questions will require a ‘Yes’ or ‘No’ answer:

- Does your technology have U.S. Federal regulatory requirements that supersede verification?
- Is your technology currently available?
- Does your technology have any existing durability, emissions, or overall performance data?
- Does your technology have any health or safety concerns?
- Is this the first time you have submitted this technology for EPA verification?
- Does your company offer a full warranty over the sale of this product?
- Do you accept full responsibility in attesting to EPA that all submitted information is correct?

Note: If you answered ‘Yes’ to ‘Is your technology currently available?’ you will also be required to answer:

- Does the technology have in-use experience in the intended market?

Once you have answered all of the questions, select ‘Save and Continue’ to proceed to the General Comments page.

### 2.8.1 General Comments

This section allows you to provide EPA with any additional information, comments, statements, or files you would like to include in your application. The section is not required. To upload additional documents to your application, select ‘Upload a File’ (see Figure 2-29). Once completed, select ‘Save and Continue’ to proceed to the Review Page.

**Figure 2-29 General Comments and Attachments**

General Comments

Please record any general comments or attach any additional information you would like to provide below. The following file types may be uploaded: .doc, .docx, .pdf, .txt, .xls, .xlsx, .ppt, .pptx, .jpeg

**Upload a File**

Uploaded Files

File Name	File Size	Actions
File 1.pdf	20 KB	Delete
File 2.pdf	30 KB	Delete

Showing 1 to 2 of 2 entries

Previous 1 Next

Comments

comments

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## 2.8.2 Technology Application Review

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On this page, you have the chance to review all of the information you have provided in the application. If you need to make any changes, you can navigate back to any section of the application by clicking the 'Back' button at the bottom of the page.

Once you have verified that all of the information you provided is correct, select 'Sign and Submit' at the bottom of the page to electronically sign and submit your application.

---

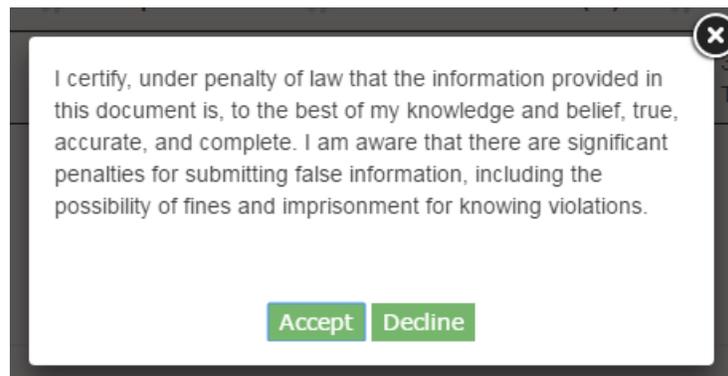
## 2.9 Submit a STARS Application

---

Once you have completed and reviewed your STARS application and you are ready to submit your report, select 'Sign and Submit' to electronically sign and submit your application.

After clicking the 'Sign and Submit' button, you are required to certify the submission package. The first step in certification is to accept the certification statement. Click the 'Accept' button to proceed with certification (see Figure 2-30)

**Figure 2-30 Accuracy Statement**



If the 'Decline' button is selected, you are returned to the 'Tire Application Review' screen. You may then update the application and attempt to submit again.

After clicking the 'Accept' button, the Cross-Media Electronic Reporting Regulation (CROMERR) eSignature Widget is launched. At any time, you may cancel the signature process by clicking the 'X' button on the eSignature Widget. Cancelling the process displays a message informing you that you have cancelled the signature dialog and returns you to the 'Tire Application Review' screen.

To complete the electronic signature process, you must provide the password for the CDX account you are logged-in with and the answer to a randomly selected security question (see Figure 2-31). After clicking the 'Sign' button, the CROMERR eSignature Widget closes and you are navigated to the STARS Home screen where you can see your submitted application in the Tire Applications table. Contact the CDX Helpdesk if you do not.

Figure 2-31 Electronic Signature Process

The screenshot shows an 'eSignature Widget' with three main sections:

- 1. Authentication:** Includes the text 'Log into CDX', 'User: STARS\_TEST', and a 'Password:' field with masked characters. Below this is a green message: 'Welcome Colin Taylor'.
- 2. Verification:** Includes a 'Question:' 'Who is your favorite author?' and an 'Answer:' field containing the text 'author'. Below the answer field is a green message: 'Correct Answer'.
- 3. Sign File:** Features a green 'Sign' button.

After submitting an application package, a confirmation message is emailed to the email address registered in your CDX account and is also placed in your CDX Inbox.

## 2.10 Work on a 'Draft' Application

If you have created a STARS application but have not submitted the application, it is considered 'Draft.' This section walks you through the 3 actions you can perform with a 'Draft' application:

- Save a 'Draft' Application (see Section 2.10.1)
- Continue a 'Draft' Application (see Section 2.10.2)
- Delete a 'Draft' Application (see Section 2.10.3)

### 2.10.1 Save a 'Draft' Application

If you have started a STARS application but are not ready to complete the application, you may consider saving your work and returning to it later.

At the bottom-right of every page in the application is a 'Save' button. This button allows you to save your work in progress without continuing to the next section of the application.

Select 'Save' and all the information you have entered is saved in your 'Draft' application on the STARS Home page. However, you must identify the Applicant Company and Brand Name and Model in order for your 'Draft' application to be saved.

### 2.10.2 Continue a 'Draft' Application

If you have saved a 'Draft' application and you would like to continue working on the application, navigate to the STARS Home page. Find the 'Draft' application you would like to continue in the 'Pending Applications' table. Select 'Continue' in the 'Actions' column to proceed with your application (see Figure 2-32).

**Figure 2-32 Continuing a Draft Application**

Create New Application

Pending Applications

Show 10 entries

Filter Applications

ID	Applicant Company	Brand Name/Model	Date Submitted	Submitted By	Application Type	Status	Actions
3981	Darren's Test Co	Orange/Whitewall	01/31/2018	DARREN.ALDERMAN	NEW	Awaiting EPA Review	<div style="padding: 5px;"> <span style="font-size: 1.2em;">☰</span> Summary                             </div> <div style="padding: 5px;"> <span style="font-size: 1.2em;">▶</span> Continue                             </div> <div style="padding: 5px;"> <span style="font-size: 1.2em;">🗑️</span> Delete                             </div>
4161	Darren's Test Co	Best Brand/Cooler Tire			NEW	Draft	

Showing 1 to 2 of 2 entries

Previous 1 Next

### 2.10.3 Delete a 'Draft' Application

If you have a 'Draft' application that you no longer wish to submit or you have created another application in its place, you may delete the application. To delete a 'Draft' application, navigate to the STARS Home page. Find the 'Draft' application you would like to delete in the 'Pending Applications' table. Select 'Delete' in the 'Actions' column to permanently delete your 'Draft' application (see Figure 2-32).

### 2.11 Review a Submitted STARS Application

If you would like to review a STARS application that you have already submitted to EPA, navigate to the STARS Home page. Find the application in the 'Pending Applications' table that is in the status 'Awaiting EPA Review' or 'Resubmitted Awaiting EPA Review' and select 'Summary' in the 'Actions' column of the table (See Figure 2-32).

The review page from your application is displayed. Note: The application is not be editable since it has already been submitted.

### 2.12 Download 'Approved' Application Approval Letter

When your application is approved by EPA, you receive an email notifying you of the approval with a link to the approved application. Once an application is approved, it is moved to the 'Archived Applications' section.

To download the approval letter, you can follow the link provided in the notification email or go the STARS Home page, locate the 'Approved' application in the 'Archived Applications' section, and select 'Summary' (see Figure 2-33).

**Figure 2-33 Review Approved Application**

Archived Applications									
Show	10	entries	Filter Applications						
ID	Applicant Company	Brand Name/Model	Date Updated	Submitted By	Application Type	Status	Actions		
13061	CGI Federal	Test/Single Model	02/01/2018	DARREN.ALDERMAN	NEW	Approved	<a href="#">Summary</a> <a href="#">Amend</a> <a href="#">Withdraw</a>		
12781	CGI Federal	Brand1/ModelA	02/01/2018	DARREN.ALDERMAN	NEW	Approved	<a href="#">Summary</a> <a href="#">Amend</a> <a href="#">Withdraw</a>		

On the application review page if the application is approved you have the option to ‘Download Approval Letter’ (see Figure 2-34). Select ‘Download Approval Letter’ to download the approval letter PDF verifying that your technology has been approved by the SmartWay program office.

**Figure 2-34 Download Approval Letter**

Application Approval Letter

Application Status : Approved

Download Approval Letter

---

Technology Application Review

### 2.13 Resubmit a ‘Pushed Back’ Application

In the event that EPA would like you to make changes to your application before they approve the application, EPA returns the application to you for resubmission. When this occurs you receive an email notification that includes EPA’s comments. You can also review these comments on the STARS Home page by clicking the linked ‘Pushed Back for Resubmission’ text in the Status column (see Figure 2-35).

**Figure 2-35 Review EPA Comments**

Pending Applications									
Show	10	entries	Filter Applications						
ID	Applicant Company	Brand Name/Model	Date Submitted	Submitted By	Application Type	Status			
12683	ONE AMERICAN ROAD	Better Brand/Best Tire	02/05/2018	DARREN.ALDERMAN	NEW	Pushed Back for Resubmission	<div style="border: 1px solid #ccc; padding: 5px; width: fit-content;">           EPA Comment            Please upload the additional document 'test.pdf' referenced in your Laboratory Test Sheet.         </div>		

Showing 1 to 1 of 1 entries

Previous 1 Next

To update the application, select ‘Revise & Resubmit’ in the ‘Actions’ column (see Figure 2-36). This takes you through the pages you completed when you originally filled out the application. Once you have made all required changes, you can resubmit the application (see section 2.9 Submit a STARS Application).

**Figure 2-36 Revise Pushed Back Application**

Pending Applications								
Show	10	entries	Filter Applications					
ID	Applicant Company	Brand Name/Model	Date Submitted	Submitted By	Application Type	Status	Actions	
12683	ONE AMERICAN ROAD	Better Brand/Best Tire	02/05/2018	DARREN.ALDERMAN	NEW	Pushed Back for Resubmission	Delete Revise & Resubmit	

Showing 1 to 1 of 1 entries

Previous 1 Next

## 2.14 Amend an ‘Approved’ Application

In the event that you need to update an application for a tire that has already been approved by EPA, you can choose to ‘Amend’ the application. On the STARS Home page, locate the ‘Approved’ application in the ‘Archived Applications’ section. Select ‘Amend’ in the ‘Actions’ column (see Figure 2-37).

**Figure 2-37 Amend Approved Application**

Archived Applications									
Show	10	entries	Filter Applications						
ID	Applicant Company	Brand Name/Model	Date Updated	Submitted By	Application Type	Status	Actions		
13061	CGI Federal	Test/Single Model	02/01/2018	DARREN.ALDERMAN	NEW	Approved	Summary Amend Withdraw		
12781	CGI Federal	Brand1/ModelA	02/01/2018	DARREN.ALDERMAN	NEW	Approved	Summary Amend Withdraw		

This creates a copy of the original application. The ‘Application Type’ is set to ‘Amendment’ and the ‘Status’ to ‘Draft’. The original ‘Approved’ application is not retracted until EPA has approved the new amendment.

Once you have made all required changes to the amendment application, you can submit the application to EPA application (see section 2.9 Submit a STARS Application).

## 2.15 Withdraw an ‘Approved’ Application

In the event you would like to remove your technology from the list of SmartWay approved technologies, you can choose to ‘Withdraw’ the approved application and technology. This action must be approved by EPA and is not reversible.

To withdraw your application, go to the STARS Home page, locate your approved technology in the ‘Archived Applications’ section, and select ‘Withdraw’ (see Figure 2-38).

**Figure 2-38 Withdraw Approved Application**

Archived Applications									
Show	10	entries	Filter Applications						
ID	Applicant Company	Brand Name/Model	Date Updated	Submitted By	Application Type	Status	Actions		
13061	CGI Federal	Test/Single Model	02/01/2018	DARREN.ALDERMAN	NEW	Approved	Summary	Amend	Withdraw
12781	CGI Federal	Brand1/ModelA	02/01/2018	DARREN.ALDERMAN	NEW	Approved	Summary	Amend	Withdraw

Upon selecting ‘Withdraw’, you are asked to specify why you would like to withdraw the approved technology. Once you have provided this information, select ‘Continue’ to proceed to the review page (See Figure 2-39).

**Figure 2-39 Specify Reason for Withdrawal**

You are brought to a review page that summarizes your original approved application and your reason for requesting the withdrawal. If you would like to continue, select ‘Sign and Submit’ to submit the request to EPA (see section 2.9 Submit a STARS Application).

**Note:** Your original approved application will not be retracted until EPA has approved the withdraw request. The ‘Application Type’ of the request is set to ‘Withdrawal’ and appears in your ‘Pending Applications’ section.

EPA may determine that an application needs to be marked as withdrawn, and has the ability to withdraw any approved application if the users are not able to submit the request themselves. In the event that EPA marks your application as withdrawn, you will receive an email notification explaining the withdrawal action.