Table of Contents

Introduction ........................................................................................................................................... 3
  Pre-Requisites ........................................................................................................................................ 3
  Getting Started ...................................................................................................................................... 3

Roles ......................................................................................................................................................... 4
  Regular User .......................................................................................................................................... 4
  RMS User .............................................................................................................................................. 4
  Administrator ....................................................................................................................................... 4
  ECO Admin .......................................................................................................................................... 4
  EHS Admin .......................................................................................................................................... 5

eShipGlobal Process .............................................................................................................................. 6
  Research Materials Workflow ............................................................................................................. 6
  Research Materials: Cat A, Cat B, GMOs/GMMOs Workflow ............................................................... 7
  Research Materials: Exempt Human/Animal Specimen Workflow ...................................................... 7
  Export Compliance: User Workflow .................................................................................................... 8
  Export Compliance: ECO Admin Workflow .......................................................................................... 8
  Export Compliance: EHS Admin Workflow .......................................................................................... 9

User Scenarios ....................................................................................................................................... 10
  1.0 Non-RMS Domestic Shipping ...................................................................................................... 10
  2.0 Non-RMS International Shipping ................................................................................................ 15
  3.0 Biological Hazardous Materials Shipping - Domestic .................................................................. 266
  4.0 Chemical Hazardous Materials Shipping - Domestic .................................................................. 38
  5.0 Radioactive Hazardous Materials Shipping - Domestic ................................................................. 44
  6.0 International RMS Shipping (Excluding BIO) ............................................................................... 53
  7.0 International Shipping: Biological Materials .................................................................................. 59
  8.0 EHS Admin Takeover .................................................................................................................... 665
  9.0 Shipment History ........................................................................................................................... 71
  10.0 Tracking ...................................................................................................................................... 72

Appendix B - Glossary ............................................................................................................................ 73

Table of Figures ..................................................................................................................................... 755
Introduction

This user guide will help users learn how to use the eShipGlobal transportation management software. This document will act as a reference guide for users who want to understand the difference between user roles, what value does eShipGlobal provide, what workflow to use for shipping research materials and ensuring exportation compliance. This guide includes step-by-step instructions on both domestic and international shipment of biological hazardous materials, hazardous chemicals, radioactive materials, dry ice & non-regulated materials.

Pre-Requisites

To follow this guide, you need to have access to your instance of the eShipGlobal workspace. You may also need to receive training in order to ship certain materials.

Getting Started

eShipGlobal is a completely web based tool. Simply log in from your preferred web browser (Firefox, Chrome, Internet Explorer, and Safari are all supported browsers). If you do not know the URL to access eShipGlobal, contact your Administrator.

Each user has a specific role in eShipGlobal, and when he or she logs in, he or she will see the home page with information particular to his or her role. The Home Page ensures that each and every user sees the information and menu options that they need to get their job done.

![Figure 1: Home Page](image-url)
Roles

eShipGlobal provides pre-defined roles, such as, the ECO Admin, the EHS Admin, and RMS Users. There is also an additional Administrator Role for Managing the software implementation. All roles are described in section below.

Regular User
The Regular User role is the most basic user type. This user requires no training validation, but is only able to create non-regulated domestic and international shipments.

Reports: Has access to Shipment history, International Shipment history, tracking report (can be restricted to self), and Shipment search report, Manifest report and UPS high Value report (shipments with value above $5000).

RMS User
The RMS User role is for users who will need to ship regulated research materials. This user can create regulated and non-regulated domestic and international Shipments. The system validates level of training with the material selection before allowing user to prepare the shipment.

Reports: Has access to Shipment history, International Shipment history, Research Material Shipment history, inbound shipment history, Tracking report, Shipment search report, Manifest report and UPS high Value report (shipments with value above $5000), eShipLab OP-950/ Certification report

Administrator
The Administrator role can create regulated and non-regulated domestic and international shipments. The administrator has access to additional information and reports related to billing and invoicing. This user can also manage other user accounts and access rights.

Reports: Has access to Shipment history, International Shipment history, Research Material Shipment history, inbound shipment history, Tracking report, Shipment search report, Manifest report and UPS high Value report (shipments with value above $5000), eShipLab OP-950/ Certification report

ECO Admin
The ECO Admin role is responsible for addressing any issues flagged as part of the export compliance logic on shipments created by other users. This role can also create non-regulated domestic and international shipments.

Reports: Has access to Shipment history, International Shipment history, Tracking report, Shipment search report, Manifest report and UPS high Value report (shipments with value above $5000).
**EHS Admin**

The *EHS Admin* role is responsible for addressing any issues flagged by hazardous materials and dangerous goods regulations. This user can also create regulated and non-regulated domestic and international shipments.


Shipment History - No Export
International Shipment History – No Export
Research Material Shipment history – No Export
Inbound Shipment History – No Export
Tracking Report – Can Export
Shipment Search Report – Can Export
Manifest Report – No Export
UPS High Value Report (shipments with value above $5000) – No Export
eShipLab OP-950/ Certification Report – No Export
eShipGlobal Process

There are two major workflows that are part of the overall eShipGlobal process. They are the research materials workflow and the export compliance workflow. The diagram below shows a high-level workflow of the steps a user takes to ship research materials both domestically and internationally.

![High-Level Workflow Diagram]

**Figure 2: High-Level Workflow**

**Research Materials Workflow**

The research materials workflow walks the user through preparing and shipping hazardous materials. The diagram below walks through the process at a high-level.

![Biological Research Materials High-Level Workflow Diagram]

**Figure 3: Biological Research Materials High-Level Workflow**
Research Materials: Cat A, Cat B, GMOs/GMMOs Workflow

The diagram below is a more detailed process flow walking through the shipping process for Research Materials that fall into Category A, Category B, and GMOs/GMMOs classifications.

Figure 4: Category A, Category B, & GMOs/GMMOs Workflow

Research Materials: Exempt Human/Animal Specimen Workflow

The diagram below is a more detailed process flow walking through the shipping process for Research Materials that fall into the Exempt Human or Animal Specimen classification.

Figure 5: Exempt Human or Animal Specimen Workflow
Export Compliance: User Workflow
The diagram below shows the export compliance process flow, walking through the shipping process for the user.

![Figure 6: Export Compliance: User Workflow](image)

Export Compliance: ECO Admin Workflow
The diagram below shows the workflow for the ECO Admin, in order to support Export Compliance.

![Figure 7: Export Compliance: ECO Admin Workflow](image)
Export Compliance: EHS Admin Workflow

The diagram below shows the workflow for the EHS Admin, in order to support Export Compliance. This also allows the EHS admin to override and approve research material shipments for users who lack the proper training.

Figure 8: Export Compliance: EHS Admin Workflow
User Scenarios

The following sections walk the user through the most common scenarios of the eShipGlobal application. Each section includes a short description of the scenario and then a step-by-step walkthrough of the scenario with screenshots from the application.

1.0 Non-RMS Domestic Shipping

The purpose of this scenario is to show the user how to ship domestic packages without any regulated materials. The user will create a new domestic shipment. This scenario walks through address selection, package and billing information, special instructions, rate shopping and email notifications.

Let’s look at that in eShipGlobal:

1. Select Ship>Ship To from top navigation menu. Select “No” where it asks to determine if this shipment contains research materials.

2. Identify if this as a domestic or international shipment. For purpose of this scenario we will select Domestic.

3. You can use a “Quick Ship” saved profile or enter the shipping information. The first section is the “Ship From” section. This will default to the logged in user’s profile information. You can add a new sender, by clicking on the “Add Sender” button and entering in that sender’s information. The Shipping Date defaults to today’s date and can only be edited to a future date.

Figure 9: Shipping Selection: Domestic
4. In the “Ship To” section, the user can load an address from the address book, by clicking the “Load from Address Book” button and selecting the contact from the address book. If the address does not exist, the user can enter in the contact information in the “Ship To” section. Check the “Add to Address Book” checkbox to save this information in the address book for reuse at a later time.

5. In the “Package Information” section, enter information about the package including number of packages, package type, weight, dimensions, and service. You can leave the “Service” field blank and use the “Show Quote” button to select the best service based on timing and price. If in the Billing section you are going to use a Third-Party account or bill the Recipient, you must select a Service in this section, because the Show Quote tool will not be available. If there is more than one package, the user must mark the packages as identical or Non-Identical. If “Non-Identical” the user will need to enter package information for all packages.
6. In the “Billing References” section, enter account information and select how to bill the shipment. Select “Prepaid” if you’re going to use your organizations account information. The user can select “Recipient” or “Third Party” to enter in someone else’s account to be billed. If you do not use “Prepaid” option, then you will need to select a “Service” in the Package Information section. *Note: Show Quote feature will not be available for Third Party or Recipients accounts so you will only have an option to “Ship”. If you select “Prepaid” you will be required to enter the cost object code and assign the cost allocation.

7. In the “Special Instructions” section, select any special services or instructions for the package, such as, “Saturday Delivery”, “Signature Required”, or “Hold at Station”. Some special services have additional charges. *Note: FedEx does not hold packages for Saturday Delivery, as they deliver as soon as they can. So, if the shipping date is a Monday-Thursday, FedEx will not show up on the quote page, only UPS when you choose Saturday Delivery. If you want FedEx options, you would need to be shipping it out closer to Saturday. You can change shipping date to see if it would be cheaper to ship FedEx and wait to ship it a few days so it can be delivered on Saturday.
8. Select any email notifications desired for this shipment.

![Figure 14: Special Instructions Section](image)

9. Click “Show Quote” button to review multiple carrier options. Choose the carrier and service desired for this shipment, and click on the “Ship” button.

![Figure 15: Email Notifications Section](image)

![Figure 16: Show Quote](image)
10. The “My Shipment” screen is displayed automatically once the “Ship” button is selected. From this screen, the user can print the airway bill, schedule a pickup, upload supporting documentation and create a return order.

![Image of the Domestic Shipment History screen]

**Figure 17: My Shipment**
2.0 Non-RMS International Shipping

The purpose of this scenario is to show the user how to ship international packages without any regulated materials with Export Compliance. The user will create a new international shipment. This scenario walks through item classification, item selection, ECCN, address selection, package and billing information, customs information, special instructions, rate shopping, email notifications and the compliance checker.

Let’s look at that in eShipGlobal:

1. Select **Ship>Ship To** from top navigation menu. Determine if this shipment contains research materials. For this scenario, we will select “No”.
2. Identify if this as a domestic or international shipment. For purpose of this scenario we will select International.

![Shipping Selection: International](image)

Figure 18: Shipping Selection: International

3. Select the type of item you want to ship internationally and click “Continue”. If you don’t know which item to select, hover over the links to see descriptions. For purpose of this scenario we will select “Documents”.

Headquarters: eShipGlobal, Inc., 17304 Preston Rd., Suite 280, Dallas, TX 75252, USA, Phone: +1 972 518 1775, Fax: +1 972 518 1765
Web: www.eshipglobal.com, E-mail: info@eshipglobal.com
4. Answer the license check questions.

5. On the “Item Selection” form, fill in all required fields for “Documents”. The “Item Name” field is where you type the name of the item, as you type a drop-down menu will appear of all previous shipments. Enter the weight, quantity and select metrics for both. Finally enter the net value of the item. If you select “Yes” or “I Don’t know” to the above question, then this shipment will be routed to the ECO admin for approval once the shipping form is completed. For “Documents”, the system will default the ECCN to “EAR99”. The user may click on “Add another item” to add another item to the shipment. Click “Continue” to go to the “International Shipping” form.
6. On the item selection form for Technical Data (software), and tangible item products, there is one additional optional field called “Schedule B Number” and the ECCN does not have a default value.
7. For “Products” on the items classification page, begin by typing the name of the item in the “Item Name” field. If the item already exists in the item database, you can select it and all needed information will be filled out for you. You will only need to enter the “Gross Weight”, “Quantity”, and “Net Value in USD”. If the item is not in the database please leave the Schedule B Number and ECCN# fields blank and they will be filled out by your ECO Admin if necessary.

![Figure 23: Item Database Lookup on Entry](image-url)
8. The first section is the “Ship From” section. This will default to the logged in user’s profile information. You can add a new sender, by clicking on the “Add Sender” button and entering in that sender’s information. The Shipping Date defaults to today’s date and can only be edited to a future date.

9. In the “Ship To” section, the user can load an address from the address book, by clicking the “Load from Address Book” button and selecting the contact from the address book. If the address does not exist, the user can enter in the contact information in the “Ship To” section. Check the “Add to Address Book” checkbox to save this information in the address book for reuse at a later time.
10. In the “Package Information” section, enter information about the package including number of packages, package type, weight, dimensions and service. If the user chooses “Customer Packaging”, then the dimensions are required. If the user chooses a Carrier package type such as “Carrier Box”, “Carrier Tube”, “Carrier PAK”, the dimensions are defaulted and not editable. If the package type is “Carrier Letter”, the weight and dimensions are defaulted and not editable. You can leave the “Service” field blank and use the “Show Quote” button to select the best service based on timing and price. This option is not available if you use a “Third Party” or “Recipient” account for billing. If either of those are used, you will need to select a “Service”.

11. In the “Billing References” section, enter account information and select how to bill the shipment and duties/taxes. Select “Prepaid” if you’re going to use your organizations account information. The user can select “Recipient” or “Third Party” to enter in someone else’s account to be billed. In the Billing Information section, select the accounts to be charged.
12. Select special instructions for the shipment. In some cases, additional charges may apply. Complete the “Customs Information” section for the shipment. All shipments carry a default value of $100. The value entered in the “Item Selection” will be populated here. If this is wrong, you'll need to edit the item by clicking on the item name in the “Item Name” section. For shipments valued at $100 or less, leave the default value as $0. It is always rounded up to the next $100. If SED method is “Included”, a valid ITN is required. If SED method is “Exempted”, then a FTSR Number is required. Select any email notifications desired for the shipment.

13. When you click on “Show Quote” for international shipments, the compliance checker will validate address against the RPS database and ECCN for Export Compliance. If the shipment fails either of these checks, the shipper can submit the shipment for approval by the ECO Admin. Details of failure can be viewed by using scroll bar.
Compliance Checker

Please wait while we check this shipment for Compliance ...

Validating address with RPS database...

Compliance check failed. Please click on the Submit for approval button below to submit this shipment for approval.

The receiver address matched one or more entries in the RPS database as shown below:

AGNESE, Helene AKA AGNESE, Saba
37 Rue de la Quintinie
75015
Paris
France
Start Date: 7/11/1985
End Date: 12/30/2099
Alert Type: DR

Submit for approval

Figure 30: Failed Export Compliance

<table>
<thead>
<tr>
<th>Service</th>
<th>Commitment</th>
<th>Contracted Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>FedEx International Economy</td>
<td>STD: 2 to 3 business days, ACT: 2017-02-27 by 18:00:00</td>
<td>$41.28</td>
</tr>
<tr>
<td>FedEx International Priority</td>
<td>STD: Bus. centers in 24 to 48 hours, ACT: 2017-02-24 by 12:00:00</td>
<td>$44.02</td>
</tr>
<tr>
<td>UPS Standard</td>
<td>STD: End of 5th business day, ACT: Click here for Actual Commitment</td>
<td>$98.21</td>
</tr>
<tr>
<td>UPS Worldwide Saver</td>
<td>STD: End of 3rd business day, ACT: Click here for Actual Commitment</td>
<td>$110.77</td>
</tr>
<tr>
<td>UPS Worldwide Express</td>
<td>STD: 3rd business day by 12 PM, ACT: Click here for Actual Commitment</td>
<td>$117.97</td>
</tr>
<tr>
<td>UPS Worldwide Express Plus</td>
<td>STD: 3rd business day by 9 AM, ACT: Click here for Actual Commitment</td>
<td>$160.31</td>
</tr>
</tbody>
</table>

Recipient
John Smith
1 Island Street
London
WC1E 1HQ
GB

Package Information
Ship Date: 02/23/2017
OSU7004 - 2 lbs
5 x 6 x 7

Special Instructions
Email - 5 DC
Remi

Figure 31 Continued: Rate Shopping
14. If shipment is submitted for approval, you will see the International Shipment History Page, giving you an overview of the shipment information. The ECO admin will have either approve or edit your shipment for you to continue.

Figure 32: Shipment History: Submitted for ECO Approval

15. If shipment passes the RPS check and Export Compliance, the “My Shipments” page will display the shipment information. Click on “Complete Shipment” to review the final checklist and complete the shipment.

Figure 33: Shipment Details
16. Review the checklist. Once you have finished reviewing the checklist, click “Continue” to complete shipment.

**Figure 34: Checklist Review**

17. The “My Shipment” screen will then be updated. From this screen, the user can print the “Print Airwaybill”, “Print Documents”, view “Export Checklist” or “Schedule Pickup”.

**Figure 35: Shipment Details**
18. If the user selects the “Print Docs” button, the system will print the Commercial Invoice with all the information pre-populated from the shipment form.

![Commercial Invoice](image1)

**Figure 36: Commercial Invoice**

19. Once the Commercial Invoice has been printed and signed, you can upload it to the Supporting Documents for future reference.

![Upload Supporting Documents](image2)

**Figure 39: Upload Supporting Documents**
3.0 Biological Hazardous Materials Shipping - Domestic

The purpose of this scenario is to show the user how to ship biological hazardous materials. This scenario walks through material classification, Category A materials, Category B materials, GMOs/GMMOs materials, Exempt Human/Animal Specimens, material selection and shipping.

Let's look at that in eShipGlobal:

1. Select Ship>Ship To from top navigation menu. Determine if this shipment contains research materials.

2. Identify if this as a domestic or international shipment. For purpose of this scenario we will select Domestic.

![Shipping Selection: Biological](image)

**Figure 40: Shipping Selection: Biological**

3. Select the “Biological Materials” checkbox from the Material Classification screen.
Figure 41: Material Classification: Biological

4. Answer the first set of questions in material classification questionnaire to determine if it is a "Category A" material affecting Humans. This identifies the material as an infectious substance affecting humans (UN2814). Depending on your systems configuration, all Category A shipments are submitted to EHS admin for approval.

Figure 37: Category A, Affecting Humans
5. Answer the second set of questions in material classification questionnaire to determine if it is a “Category A” material affecting animals. This identifies the material as an infectious substance affecting animals (UN2900). Depending on your systems configuration, all Category A shipments are submitted to EHS admin for approval.

![Figure 38: Category A, Affecting Animals](Image)

6. If you answer “No” to the Category A questions, answer the next set of questions to determine if it is a “Category B” material. This identifies the material as an infectious substance affecting humans or animals (UN3373) that is not included in Category A. “Category B and Exempt Human or Animal Specimen” training is required to ship these materials (Category A training would also fulfill this training requirement). If you do not have the required training, you can complete the shipment and it will be submitted to the EHS Admin for approval.
Figure 39: Category B Infectious Substance

7. The next question will determine if the material is a “GMOs/GMMOs”. This identifies the material as genetically modified microorganisms (UN3245). “Category B and Exempt Human or Animal Specimen” training is required to ship this material. “Infectious Substance, Category A” training also fulfills the training requirement. If you do not have the required training, you can complete the shipment and it will be submitted to the EHS Admin for approval.

Figure 40: GMOs/GMMOs
8. The next question will determine if the material is an “Exempt Human or Animal Specimen”. “Category B and Exempt Human or Animal Specimen” training is required to ship this material. “Infectious Substance, Category A” training also fulfills the training requirement. If you do not have the required training, you can complete the shipment and it will be submitted to the EHS Admin for approval.

![EXEMPT HUMAN OR ANIMAL SPECIMEN]

9. If you answered no to all questions than this is not a regulated dangerous good. Continue to next form to complete shipment.

![Non-Regulated]

10. For “Category A” materials, you need to select whether it is liquid or solid as the first step in Material selection.
11. Material selection allows the user to identify the specific material being shipped. Based on the material classification, many of the fields are already populated. There are three required fields on this form: “Material Name”, “Total Quantity in Package”, and “Net Value in USD”.

![Material Selection Form]

12. Begin typing the name of the material in the “Material Name” field. Based on the materials database, a drop-down list will display the possible materials to ship. Select the appropriate material.
13. Enter the Total Quantity of materials in the package and the Net Value of the package. You can add another material or continue to the shipping form. If you add another material, you will be asked to go through the same questions as above and then select another material name. When done, click the “Continue” button to go to the shipping form.
14. Complete the shipping form. Since this shipment contains research materials, the “Special Instructions” section has some default values such as “Dangerous Goods” or “Dry Ice” being automatically checked and un-editable.
15. See **1.0 Domestic Shipping** to complete shipment. If you are shipping Category A materials, FedEx will be the only carrier available on the “Show Quote” screen.

16. For items requiring EHS Admin approval, you will see the below message on the Research Material History Shipment page. An EHS admin will review, edit and approve your shipment and or will work with you to complete the shipment.
17. For items where you have the required training, you can complete the shipment.

18. You will be asked to check the box on the shipment confirmation page after reviewing the shipping requirements for a Category B shipment.
Figure 52: Print Labels
4.0 Chemical Hazardous Materials Shipping - Domestic

The purpose of this scenario is to show the user how to ship Chemical Hazardous Materials. This scenario walks through material classification, material selection and shipping.

Let’s look at that in eShipGlobal:

1. Select **Ship>Ship To** from top navigation menu. Determine if this shipment contains research materials.
2. Identify if this as a domestic or international shipment. For purpose of this scenario we will select Domestic.

![Figure 538: Shipping Selection: Chemicals](image)

3. Select the “Chemicals” checkbox from the Material Classification screen.

![Figure 54: Material Classification: Chemicals](image)
4. You will see this message explaining that you either have the necessary training to complete Chemical Shipments or that you require training and that you will have to submit this shipment to the Chemical EHS Admin for completion.

![Figure 55: Training Message: Chemical](image)

5. Enter the Chemical Material information. The “Material Name”, “Total Quantity in Package”, and “Net Value in USD” are required fields. Begin typing the name in the “Material Search” field and a drop down of materials will be displayed. Most of the other fields will prepopulate based on the material selected. You must first do a material search and then add quantity and net value.
Figure 56: Material Search: Chemicals

Figure 57: Material Entry: Chemicals
6. Complete the shipping form. “Package Type”, “Total Pkg. Weight”, and “Dimensions” and “Shipment DLC” are all required fields for RMS shipments. All shipments require at least one Cost Object unless the shipment is being billed to a Third Party or Recipient. Since the shipment contains research materials, the “Special Instructions” section has some default values such as “Dangerous Goods”.

![Domestic Shipping Form: Chemicals](image)

**Figure 58: Domestic Shipping Form: Chemicals**
7. Select “Show Quote” to select the desired service and cost for the shipment. Once you select the desired service, click on the “Ship” button to submit the shipment to an EHS Admin. The shipment confirmation form below will be displayed to the user and the EHS admin will be notified. The EHS admin will then take over the shipment and print off all necessary labels and paperwork.

Figure 59: Submitted for Approval: Chemicals
8. For items where you have the required training, you can complete the shipment.

![Figure 65: Complete Shipment]

9. You will be asked to check the box on the shipment confirmation page after reviewing the shipping requirements for a Chemical Shipment.

![Figure 66: Confirmation Page]

![Shipment Information Page](image)

**Figure 607: Shipment Information Page**

### 5.0 Radioactive Hazardous Materials Shipping - Domestic

The purpose of this scenario is to show the user how to ship Radioactive Materials. This scenario walks through material classification, material selection, shipping and the dangerous goods form.

Let’s look at that in eShipGlobal:

12. Select **Ship>Ship To** from top navigation menu. Determine if this shipment contains research materials.

13. Identify if this as a domestic or international shipment. For purpose of this scenario we will select Domestic.

15. You will see this message explaining that Radioactive Material shipments require training and that you will have to submit the shipment to a Radioactive EHS Admin for completion. If you have training, then you will see the message asking you to select which Radioactive Classification this shipment belongs to.
Figure 70: Training Message: Radioactive
16. Enter the Radioactive Material information by first typing an “R” in the Material Search field. This will allow you to classify the radioactive agent you will be shipping.

![Material Search: Radioactive](image)

**Figure 631: Material Search: Radioactive**

17. You then need to select the appropriate “Radioactive Agent”. Begin typing in this field and select the material from the drop-down.

![Radioactive Agent Search](image)

**Figure 72: Radioactive Agent Search**

18. The “Chemical Form”, “Physical Form”, “Activity”, “Total Quantity in Package” and “Net Value in USD” are required fields. The “Additional Comment” field can be used to give additional information to the Radioactive EHS Admin.
Information about the type of inner receptacles and number could be included here. Click “Add another material” button to add more than one material to this shipment or click on “Continue” to move to the shipping form.

<table>
<thead>
<tr>
<th>Material Classification: Radioactive material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radioactive Classification: Type A Package</td>
</tr>
<tr>
<td>Material Search (UNNO/Name):</td>
</tr>
<tr>
<td>*Material Name: Radium-226</td>
</tr>
<tr>
<td>UN NO: 2915</td>
</tr>
<tr>
<td>Proper Shipping Name: Radioactive material, Type A package</td>
</tr>
<tr>
<td>Class Or Division: 7</td>
</tr>
<tr>
<td>Packing Group:</td>
</tr>
<tr>
<td>Labels: Radioactive</td>
</tr>
<tr>
<td>Packing Instructions: See 10.3</td>
</tr>
<tr>
<td>*Chemical Form: Metal</td>
</tr>
<tr>
<td>*Physical Form: Solid</td>
</tr>
<tr>
<td>*Transport Index: mSv/h</td>
</tr>
<tr>
<td>*Activity 1</td>
</tr>
<tr>
<td>Required Label: White I</td>
</tr>
<tr>
<td>Special Provisions: A23, A78, A139</td>
</tr>
<tr>
<td>Authorization:</td>
</tr>
<tr>
<td>Special Permit:</td>
</tr>
<tr>
<td>Dangerous goods in excepted quantities?</td>
</tr>
<tr>
<td>Dangerous goods in limited quantities? (Max. Net Only, FORBIDDEN)</td>
</tr>
<tr>
<td>Cargo aircraft only? (Max. Net Only, NA)</td>
</tr>
<tr>
<td>Maximum Quantity Per Inner Receptacle:</td>
</tr>
<tr>
<td>(Max. Inner Qty, NA)</td>
</tr>
<tr>
<td>*Total Quantity in Package: 1 ml</td>
</tr>
<tr>
<td>*Net Value in USD (Min. 1): 1</td>
</tr>
</tbody>
</table>

![Material Entry](image)

**Figure 73: Material Entry: Radioactive**

19. Complete the shipping form. The following fields are required on the shipping form: “Type” “Total Pkg. Weight”, “Dimensions”, Shipment DLC and “Cost Object”. If you are billing to a “Third Party” or “Recipient”, select them in the Bill To field. When you do this, the Cost Object field is no longer required. You will need to enter an account number to be billed along with the related Zip Code. When not using the “Prepaid” option, you will have to select a “Service” in the Package Information section. The “Show Quote” functionality is not enabled when using Third Party/Recipient billing since we do not know negotiated rates of the account you are using. You will need to click “Ship” at the bottom of page to continue. If you are using the default “Prepaid” option, then click on “Show Quote” at bottom of page. The “Special Instructions” section has some default values such as “Dangerous Goods” checked by default.
Figure 644: Domestic Shipping Form: Radioactive
20. Select the desired service and cost from the available services.

![Service and Cost Table]

**Figure 65: Quotes: Radioactive**

21. The shipment confirmation form below will be displayed once the user has clicked on “Ship”. This shipment has now been submitted to a Radioactive EHS Admin for completion.
Figure 666: Submitted for Approval: Radioactive

22. For items where you have the required training, you can complete the shipment.

Figure 677: Complete Shipment
23. You will be asked to check the box on the shipment confirmation page after reviewing the shipping requirements for a Radioactive Shipment.

![Figure 688: Confirmation Page](image)

6.0 International RMS Shipping (Excluding BIO)

The purpose of this scenario is to show the user how to ship Hazardous Chemicals and Radioactive Materials internationally. The process is the same as RMS domestic shipments except for requiring the ECCN and license information.

Let’s look at that in eShipGlobal:

1. Select **Ship>Ship To** from top navigation menu. Determine if this shipment contains research materials.

2. Identify if this as a domestic or international shipment. For purpose of this scenario we will select International.

Figure 80: Shipping Selection: International
3. Select the “Chemicals” checkbox from the Material Classification screen.

![Image of Material Classification: Chemicals](image)

**Figure 81: Material Classification: Chemicals**

25. You will see this message explaining that you either have the necessary training to complete Chemical Shipments or that you require training and that you will have to submit this shipment to the Chemical EHS Admin for completion. If required, the shipment may need to go to ECO Admin for approval prior to going to the EHS admin.

![Image of Material Classification: Chemicals](image)
Figure 82: Training Message: Chemical

4. Enter the Chemical Material information following same process as Domestic Material Shipping. Begin typing the name in the "Material Search" field and a drop down of materials will be displayed. Most of the other fields will autopopulate based on the material selected. The “Material Name”, “Total Quantity in Package” and “Net Value in USD” are required fields. For International Shipping, the “Schedule B Number” and “ECCN” fields are displayed. If you do not know the ECCN, you can still create shipment and submit it to the ECO Admin. Click “Continue” to go to International Shipping form.
Figure 83: Material Selection: Chemicals International

5. Complete the shipping form. For international shipments, you will be asked to provide billing options for Duties/Taxes in addition to normal freight charges. The only difference between RMS and Non-RMS international shipping is the Dangerous Goods form, and if the shipment fails compliance, the ECO admin will have to approve before shipment goes to the EHS Admins.
6. The Compliance Checker will check compliance for RPS (Restricted Party Screening) or valid ECCN. If the shipment fails either of these two, you can submit the shipment to the ECO Admin for approval. Otherwise you can select a service and then submit the shipment to the EHS Admin for approval and completion.
Figure 705: Compliance Checker

7. The shipment from this point is routed to ECO Admin for approval if there are any export compliance issues and then to EHS Admin for final approval and shipping.

Figure 716: Submitted for Approval: RMS International
7.0 International Shipping: Biological Materials

The purpose of this scenario is to show the user how to ship Hazardous Biological Materials internationally. The process is the same as RMS domestic shipments except for requiring the ECCN and license information.

Let's look at that in eShipGlobal:

1. Select **Ship>Ship To** from top navigation menu. Determine if this shipment contains research materials.

2. Identify if this is a domestic or international shipment. For this scenario select International.

![Shipping Selection: Bio International](image)

Figure 727: Shipping Selection: Bio International

3. Select the “Biological Materials” checkbox from the Material Classification screen.
4. Follow same steps as when shipping Biological Materials domestically to determine the material classification. For this scenario, we will ship a Category A Material internationally. On the Material Entry form, start typing in the “Material Name” field and select the appropriate material from the dropdown. Most of the other fields will prepopulate based on the material selected. The “Material Name”, “Total Quantity in Package”, and “Net Value in USD” are required fields. For international shipping, the “Schedule B Number” and “ECCN” fields are displayed. The Schedule B Number is prepopulated for Category A shipments. “ECCN” is a required field for Biological international shipments.
Figure 749: Material Classification: Bio International

5. If you do not know the ECCN, click on the ECCN lookup link and answer the questionnaire.

Figure 90: ECCN Lookup: Bio International
6. Based on your response the ECCN will be filled out for you. The only valid entries for ECCN are “ITAR”, “1C351”, “1C352”, “1C354” or “EAR99”. Click on “Continue” to go to the international shipping form.

![Material Entry Form]

Figure 91: ECCN Value: Bio International

7. Complete the shipping form. For international shipments, you will be asked to provide billing options for Duties/Taxes in addition to normal freight charges. The only difference between RMS and Non-RMS international shipping is the Dangerous Goods form, and if it fails compliance the ECO Admin will have to approve before shipment goes to the EHS Admins.
8. The Compliance Checker will check compliance for RPS (Restricted Party Screening) or valid ECCN. If the shipment fails either of these two you can submit to ECO Admin for approval. In this case, because of the ECCN of “1C351” and shipment destination of France, the shipment will need to be submitted to ECO Admin for approval. Otherwise you can select a service and then submit shipment to EHS Admin for approval and completion.
9. The shipment from this point is routed to the ECO Admin for approval if there are any export compliance issues and then to the EHS Admin for final approval and shipping.

Figure 754: Submitted for Approval: Bio International
8.0 EHS Admin Takeover

The purpose of this scenario is to show the user how EHS Admins review shipments that have been submitted for approval, and take them over to complete the shipments and generate all required documentation.

Let’s look at that in eShipGlobal:

1. Select **My Shipments > Research Material Shipment History** from the top navigation menu.

2. Filter by date range and choose status of “Pending”. Click on the shipment you wish to review.

   ![Figure 95: Research Material Shipment History: EHS Admin](image)

3. Review the shipment information, to understand why it was submitted for approval. Review the materials being shipped. Click on “Takeover Shipment” to take this shipment over and complete it.
4. Make any necessary changes by clicking on the Material Name in the Research Materials section to edit. If you do not need to make changes, then click on “Show Quote” at the bottom of the screen.
5. The service the user selected will be selected by default. If after discussing with the original shipper you need to change the service type, you can change it on this screen. Once the service is selected, click on “Ship”.

![Figure 777: EHS Admin Takeover](image-url)
6. You will be taken to Shipment History page where you can “Print Airwaybill”, “Print Documents”, “Print Dangerous Goods Form”, print “Address Labels”, view “Packaging Instructions”, “Schedule Pickup”, “File AES” and upload “Supporting Documents”.

Figure 788: Show Quote: EHS Admin
Figure 799: Shipment History: EHS Takeover
9.0 Shipment History

The purpose of this scenario is to show the user how to view his or her past shipments. Let's look at that in eShipGlobal:

1. Select **My Shipments > Shipment History** from the top navigation menu.
2. Filter by date range and choose status of “All”, “Inbound”, “Approved”, “Pending” or “Cancelled”. Click on the shipment you wish to review.
3. Users can also view Shipment History for International Shipments, Research Material Shipments and many more reports.
10.0 Tracking
The purpose of this scenario is to show the user how to track a package.

Let’s look at that in eShipGlobal:

1. Select **Track** from the top navigation menu.
2. Enter the Tracking or Order # associated with the shipment you would like to track.

![Tracking](image1)

**Figure 102: Tracking**

![Tracking](image2)

**Figure 103: Tracking**
Appendix B - Glossary

**Hazardous Material**
A substance or material, that when transported in commerce, is capable of posing a risk to health, safety or property. Hazardous materials include biological, chemical & radioactive materials.

**Infectious Substances, Affecting Humans, Category A (UN2814)**
A pathogen (infectious substance) capable of causing permanent disability, life-threatening or fatal disease in otherwise healthy humans or animals. Cultured or amplified stocks of human or animal pathogens, genetically modified organisms/microorganisms. UN2814 can cause disease in humans.

**Infectious Substances, Affecting Animals, Category A (UN2900)**
A pathogen (infectious substance) capable of causing permanent disability, life-threatening or fatal disease in otherwise healthy humans or animals. Cultured or amplified stocks of human or animal pathogens, genetically modified organisms/microorganisms. UN2900 can cause disease in animals.

**Biological Substance, Category B (UN3373)**
An infectious substance that is not in a form generally capable of causing permanent disability or life-threatening or fatal disease in otherwise healthy humans or animals when exposure to it occurs. Assigned UN identification number: UN3373.

**Export**
An item sent from the United States to a foreign destination such as biological, chemical and radioactive materials. These items are generally sent using a carrier such as FedEx, USPS, UPS, DHL or World Courier.

**GMOs/GMMOs (UN3245)**
Genetically modified microorganisms (GMMOs) and organisms (GMOs) not meeting the definition of infectious substance are classified in Class 9 (Miscellaneous dangerous substances and articles, including environmentally hazardous substances). GMMOs and GMOs are not subject to dangerous goods regulations when authorized for use by the competent authorities of the countries of origin, transit and destination. Genetically modified live animals shall be transported under terms and conditions or the competent authorities of the countries of origin and destination. GMMOs or GMOs that do not meet the definition of toxic substances or infectious substances shall be assigned to UN 3245.

**Exempt Human or Animal Specimen**
A specimen may be EXEMPT from the regulations if there is a minimal likelihood that pathogens are present according to professional judgment based on known medical history, symptoms and individual circumstances or the source. Some examples of exempt specimens are: blood or urine tests to monitor things like cholesterol levels or glucose levels, non-pathogenic cultures, pathogen free cells, recombinant DNA and other non-pathogenic biological items.

**Export Compliance**
Export Compliance is a specialized multidisciplinary framework, which provides support to Organizations in Compliance Risk Management, i.e. the risk of legal or administrative sanctions, financial losses or reputation deterioration for failing to comply with laws, regulations and legislation, codes of conduct and good practice.

**Export Administration Regulations (EAR)**
United States export control law that affect the manufacturing, sales and distribution of technology. The legislation seeks to control access to specific types of technology and the associated data. Its goal is to prevent the disclosure or transfer of sensitive information to a foreign national. EAR contains a Commerce Control List (CCL) of regulated commercial items, including those items that have both commercial and military applications. Regulates items designed for commercial purpose which could have military applications such as computers or software. Covers both the goods and the technology. Licensing addresses competing interests and foreign availability. Combines commercial and research objectives with national security.

**International Traffic in Arms Regulations (ITAR)**
United States export control law that affect the manufacturing, sales and distribution of technology. The legislation seeks to control access to specific types of technology and the associated data. Its goal is to prevent the disclosure or transfer of sensitive information to a foreign national. ITR contains a United States Munitions List (USML) of restricted articles and services. Covers military items or defense articles. Regulates goods and technology designed to kill or defend against death in a military setting. Includes space related technology because of application to missile technology. Includes technical data related to defense articles and services. Strict regulatory licensing - does not address commercial or research objectives.

**Restricted Party Screening (RPS)**
The Departments of State, Commerce and Treasury each issue lists of individuals, companies, or other organizations whose US export privileges have been restricted or revoked. The lists include both US and foreign individuals and organizations. Screening foreign sponsors, subcontracts, vendors and other foreign parties is a critical component of an organization’s efforts to prevent violations of US export control laws.

**Dangerous Goods Regulations (DGR)**
Dangerous goods are solids, liquids, or gases that can harm people, other living organisms, property, or the environment. They are often subject to chemical regulations. In the United States, dangerous goods are more commonly known as hazardous materials, (abbreviated as HAZMAT or HazMat). The United Nations Economic and Social Council issues the UN Recommendations on the Transport of Dangerous Goods, which form the basis for most regional, national, and international regulatory schemes. Individual airline and governmental requirements are incorporated with this by the International Air Transport Association to produce the widely used IATA Dangerous Goods Regulations (DGR).

**Foreign Trade Statistics Regulations (FTSR)**
Is an official issuance of the Bureau of the Census and U.S. Department of Commerce. It is a compilation of regulations governing the reporting of statistical information on U.S. trade with foreign countries, Puerto Rico, and U.S. Possessions.

**Shipper’s Export Declaration (SED)**
The Shipper’s Export Declaration (SED), Commerce Form 7525-V, is used for compiling the official U.S. export statistics for the United States and for export control purposes. The regulatory provisions for preparing, signing and filing the SED are contained in the Foreign Trade Statistics Regulations (FTSR), Title 15 Code of Federal Regulations (CFR) Part 30.
# Table of Figures

<table>
<thead>
<tr>
<th>Figure</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Home Page</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>High-Level Workflow</td>
<td>6</td>
</tr>
<tr>
<td>3</td>
<td>Biological Research Materials High-Level Workflow</td>
<td>6</td>
</tr>
<tr>
<td>4</td>
<td>Category A, Category B, &amp; GMOs/GMMOs Workflow</td>
<td>7</td>
</tr>
<tr>
<td>5</td>
<td>Exempt Human or Animal Specimen Workflow</td>
<td>7</td>
</tr>
<tr>
<td>6</td>
<td>Export Compliance: User Workflow</td>
<td>8</td>
</tr>
<tr>
<td>7</td>
<td>Export Compliance: ECO Admin Workflow</td>
<td>8</td>
</tr>
<tr>
<td>8</td>
<td>Export Compliance: EHS Admin Workflow</td>
<td>9</td>
</tr>
<tr>
<td>9</td>
<td>Shipping Selection: Domestic</td>
<td>10</td>
</tr>
<tr>
<td>10</td>
<td>“Ship From” Section</td>
<td>11</td>
</tr>
<tr>
<td>11</td>
<td>“Ship To” Section</td>
<td>11</td>
</tr>
<tr>
<td>12</td>
<td>Package Information Section</td>
<td>12</td>
</tr>
<tr>
<td>13</td>
<td>Billing References Section</td>
<td>12</td>
</tr>
<tr>
<td>15</td>
<td>Special Instructions Section</td>
<td>13</td>
</tr>
<tr>
<td>16</td>
<td>Email Notifications Section</td>
<td>13</td>
</tr>
<tr>
<td>17</td>
<td>Show Quote</td>
<td>13</td>
</tr>
<tr>
<td>18</td>
<td>My Shipment</td>
<td>14</td>
</tr>
<tr>
<td>19</td>
<td>Shipping Selection: International</td>
<td>15</td>
</tr>
<tr>
<td>20</td>
<td>Item Classification: International Shipping</td>
<td>166</td>
</tr>
<tr>
<td>21</td>
<td>Export Questionnaire: Documents</td>
<td>166</td>
</tr>
<tr>
<td>22</td>
<td>Item Selection: Documents</td>
<td>17</td>
</tr>
<tr>
<td>23</td>
<td>Item Selection: Technical Data/Software</td>
<td>17</td>
</tr>
<tr>
<td>26</td>
<td>Item Database Lookup on Entry</td>
<td>18</td>
</tr>
<tr>
<td>27</td>
<td>Item Database Populated Fields</td>
<td>19</td>
</tr>
<tr>
<td>28</td>
<td>Ship From Section: International</td>
<td>19</td>
</tr>
<tr>
<td>29</td>
<td>Ship To Section: International</td>
<td>20</td>
</tr>
<tr>
<td>30</td>
<td>Package Info Section: International</td>
<td>200</td>
</tr>
<tr>
<td>31</td>
<td>Billing References Section: International</td>
<td>21</td>
</tr>
<tr>
<td>32</td>
<td>Customs Information Section</td>
<td>21</td>
</tr>
<tr>
<td>33</td>
<td>Failed Export Compliance/Rate Shopping</td>
<td>222</td>
</tr>
<tr>
<td>34</td>
<td>Shipment History: Submitted for ECO Approval</td>
<td>23</td>
</tr>
</tbody>
</table>

75 of 78
<table>
<thead>
<tr>
<th>Figure</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>35</td>
<td>Shipment Details</td>
<td>23</td>
</tr>
<tr>
<td>36</td>
<td>Checklist Review</td>
<td>24</td>
</tr>
<tr>
<td>37</td>
<td>Shipment Details</td>
<td>24</td>
</tr>
<tr>
<td>38</td>
<td>Commercial Invoice</td>
<td>24</td>
</tr>
<tr>
<td>39</td>
<td>Upload Supporting Documents</td>
<td>24</td>
</tr>
<tr>
<td>40</td>
<td>Shipping Selection: Biological</td>
<td>266</td>
</tr>
<tr>
<td>41</td>
<td>Material Classification: Biological</td>
<td>27</td>
</tr>
<tr>
<td>42</td>
<td>Category A, Affecting Humans</td>
<td>27</td>
</tr>
<tr>
<td>43</td>
<td>Category A, Affecting Animals</td>
<td>28</td>
</tr>
<tr>
<td>44</td>
<td>Category B Infectious Substance</td>
<td>29</td>
</tr>
<tr>
<td>45</td>
<td>GMOs/GMMOs</td>
<td>29</td>
</tr>
<tr>
<td>46</td>
<td>Exempt Human or Animal Specimen</td>
<td>30</td>
</tr>
<tr>
<td>47</td>
<td>Non-Regulated</td>
<td>30</td>
</tr>
<tr>
<td>48</td>
<td>Material Selection: Liquid/Solid</td>
<td>30</td>
</tr>
<tr>
<td>49</td>
<td>Material Selection Form</td>
<td>31</td>
</tr>
<tr>
<td>50</td>
<td>Material Name Lookup</td>
<td>32</td>
</tr>
<tr>
<td>51</td>
<td>Adding another Material</td>
<td>33</td>
</tr>
<tr>
<td>52</td>
<td>Domestic Bio Shipping Form</td>
<td>35</td>
</tr>
<tr>
<td>53</td>
<td>Submitted to EHS Admin for Approval</td>
<td>35</td>
</tr>
<tr>
<td>54</td>
<td>Complete Shipment</td>
<td>36</td>
</tr>
<tr>
<td>55</td>
<td>Confirmation Page</td>
<td>36</td>
</tr>
<tr>
<td>56</td>
<td>Shipment Info Page</td>
<td>37</td>
</tr>
<tr>
<td>57</td>
<td>Print Labels</td>
<td>Error! Bookmark not defined.</td>
</tr>
<tr>
<td>58</td>
<td>Shipping Selection: Chemicals</td>
<td>38</td>
</tr>
<tr>
<td>59</td>
<td>Material Classification: Chemicals</td>
<td>38</td>
</tr>
<tr>
<td>60</td>
<td>Training Message: Chemical</td>
<td>39</td>
</tr>
<tr>
<td>61</td>
<td>Material Search: Chemicals</td>
<td>40</td>
</tr>
<tr>
<td>62</td>
<td>Material Entry: Chemicals</td>
<td>40</td>
</tr>
<tr>
<td>63</td>
<td>Domestic Shipping Form: Chemicals</td>
<td>41</td>
</tr>
<tr>
<td>64</td>
<td>Submitted for Approval: Chemicals</td>
<td>42</td>
</tr>
<tr>
<td>65</td>
<td>Complete Shipment</td>
<td>453</td>
</tr>
<tr>
<td>66</td>
<td>Confirmation Page</td>
<td>45</td>
</tr>
</tbody>
</table>
Figure 99: Shipment History: EHS Takeover .................................................. 69
Figure 100: Dangerous Goods Form: EHS Admin ........................................... 70
Figure 101: Shipment History: Domestic ......................................................... 70
Figure 102: Tracking ................................................................................. 70
Figure 103: Tracking ................................................................................. 70