

Proposed Changes to the RTP

This Document will highlight changes required to make the Radwaste Tracking Program (RTP) more user friendly and more flexible. The changes mentioned are suggested and opinion based on the view and operation from an RTP data capture please take note that due to restrictions from the Administrator of the program not all aspects are known and might already exist.

The Document will break the program up by Home Page main tabs and lastly the Option menu.

EXAMPLE OF PAGE AS IS IT IS SEEN FROM CURRENT VERSION:



Changes that need to be change in the entire program:

- Restore Copy and Paste.
- Remove or change Auto Search time to longer period before activating.
When entering a number into the search bar the RTP program search for the value in the search bar after a couple of seconds.
- Order number must be able to be edit and changed to add more drums to the order.
- No Negative values to be enter for surveys.

RTP Main Page \ Drum



EXAMPLE OF PAGE AS IS IT IS SEEN FROM CURRENT VERSION:

The screenshot displays the 'Drum' tab interface. At the top, there is a navigation bar with buttons for Home, Back, Forward, New, Cancel, Save, Report, and Drum History. Below this is a search bar containing '5520' and a table of search results. The table has columns for OEM No., Type Name, and Koeberg... and contains four rows of data. To the right of the table is a 'Drum info' section with various fields for Mass, Purchase Order, Steel Liner Used, Liner Number, Volume, Usable, Filled, Report Number, Activity At Shipment, Pipe Size, A2 Value, Number of A2's, TI, Shipping Status, and Shipment Number. A bar chart on the right shows the number of drums for different dates: 14 for 2014/05/24, 30 for 2014/06/13, 5 for 2016/06/01, 4 for 2022/01/17, and 5 for 2022/02/05.

OEM No.	Type Name	Koeberg...
0	S	15520
0	S	25550
5520	CI	4248
7012	CI	5550

Date	Count
2014/05/24	14
2014/06/13	30
2016/06/01	5
2022/01/17	4
2022/02/05	5

Changes required to be change in Drum Tab:

- **Split the search and Advance search.**
When entering a value in the search bar pressing the Enter button search the value in the search bar. Clicking with the mouse cursor on the Magnifying Icon activates the search advance search option. Please see example below.
- **Add an easier search function for quick search.**
The option to select between only searching for Steel Drums or Concrete Drums would help to search more efficiently and eliminating errors. A tick box is suggested for selecting between either Steel or concrete status and a drop-down box for type of Concrete Drum. Please see example below.

Error to Correct:

- When activating the Advance search in some cases and then canceling the advance search the RTP program requires reason for Drum type Change. Canceling the pop-up message does not change the drum information.

EXAMPLE:

The screenshot shows the top section of the 'Drum' application. It features a blue header with the title 'Drum' and a database icon. Below the header are navigation buttons: 'Home' (with a house icon), 'Back' (with a left arrow icon), and 'Forward' (with a right arrow icon). A search bar contains the text '5550'. To the right of the search bar are two magnifying glass icons. Below the search bar are two checkboxes: 'Steel' and 'Concrete'. To the right of these checkboxes is a dropdown menu currently showing 'C1'. A red box highlights the search bar, the checkboxes, and the dropdown menu. Below these elements is a grey bar with the text 'Drag a column here to group by this col'.

Drum info:

- Add an option to edit the Drum Number, Type and the Koeberg number. (Limitation: Changes will not be possible if the Drum was used in a survey.)
- Manual numbers to be added for steel drums.

Please see example below.

The screenshot shows a horizontal toolbar with a light blue background. It contains six buttons: 'New' (with a green plus icon), 'Edit' (with a red flower icon, highlighted by a red box), 'Cancel' (with a blue circular arrow icon), 'Save' (with a blue floppy disk icon), 'Report' (with a document icon), and 'Drum History' (with a green bar chart icon).

The screenshot shows the 'Drum Info' form. It has a light grey background. At the top, it says 'Drum Info'. Below that are two dropdown menus: 'OEM Number' and 'Koeberg Number'. To the right of the 'Koeberg Number' dropdown is a text input field. Below these fields is a 'Comments' section with an 'Important' checkbox. At the bottom is a large text area for entering comments.

Comments:

- **Comments field must be changed to add a required log type entry system.** The comment block must be changed to add a field for the Date and the name of the user entering the comment. The Comment can only be entered after the name and date is logged. When the Shipment is populated in the Simulator or Shipping package part of the RTP program the comments need to be brought up in a report view before reviewing can happen to ensure all information of the drum is reviewed.

Please see example below.

The screenshot shows a table with a light grey background. At the top, there are 'Comments' and 'Important' labels. On the right side, there is a 'Save' button with a floppy disk icon, highlighted by a red box. The table has three columns: 'Date', 'User', and 'Comment'. The first row contains the following data: '2022/06/06', 'Chris Kamfer', and 'Drum change due content change'. A red box highlights the first two columns of the first row.

Date	User	Comment
2022/06/06	Chris Kamfer	Drum change due content change

Mass:

- **Change the limitation on the RTP program to edit mass.**

The RTP program limits the change of the mass when Shipping Survey with the drum linked and review in it is loaded. The mass must be able to be change up to the Trailer survey. (Limitation: Changes will only be able to be done by Radwaste Operator and Reviewed by Shipping SRPA after a shipping survey is loaded.)

Chemistry and Tritium:

- **Fields for reflecting if Chemistry and Tritium is loaded for the drum.**

The RTP program does not reflect this information in the Drum summery. This becomes very time consuming when working with APG Drums for a shipment.

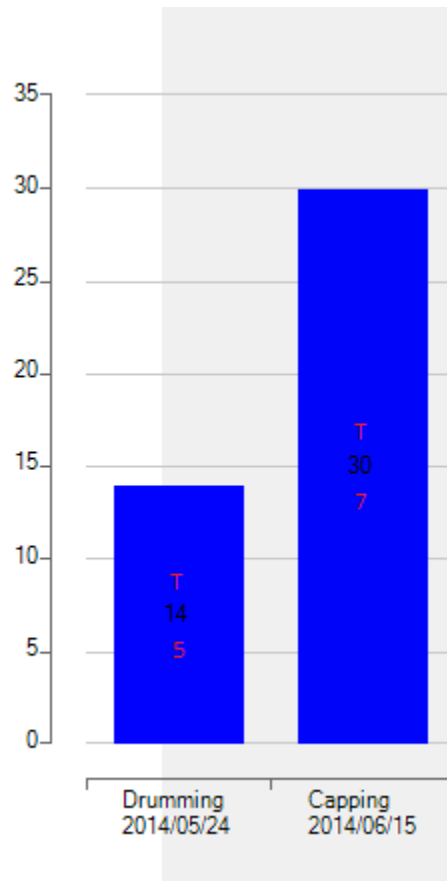
Please see example below.

Mass [kg]	<input type="text" value="4595.00"/>
Purchase Order	<input type="text" value="4501099668 C1 DRUMS"/>
Steel Liner Used	<input type="checkbox"/>
Liner Number	<input type="text"/>
Volume [m³]	<input type="text" value="0.51"/>
Usable	<input checked="" type="checkbox"/>
Filled	<input checked="" type="checkbox"/>
Report Number	<input type="text" value="851"/>
Chemistry Linked	<input checked="" type="checkbox"/>
Tritium Linked	<input checked="" type="checkbox"/>
Activity At Shipment [GBq]	<input type="text" value="7.674E+00"/>
Specific TRU [Bq/g]	<input type="text" value="1.165E-02"/>
A2 Value [GBq]	<input type="text" value="3.563E+03"/>
Number of A2's	<input type="text" value="2.154E-03"/>
TI	<input type="text" value="0.10"/>
Shipping Status	<input type="text" value="Arrived at Vaalputs"/>
Shipment Number:	<input type="text" value="V-2022-0001"/>

Chart:

- Add the location for the contact reading and the 1m reading.
- T for top, S for Side, B for Base.

Please see example below.



RTP Main Page \ Survey



EXAMPLE OF PAGE AS IS IT IS SEEN FROM CURRENT VERSION:

Survey

Home Back Forward New Cancel Save Delete Report Survey History

Survey Info
 Survey No.: 13311 Performed by: Marco October
 Type: Transfer Reviewed:
 Survey Date: 2022/06/17 Reviewed by: Grant Henry
 RPC No.: 20033260
 Description: TRANSFER OF STEEL DRUMS
 Comment: PRE AND POST PERFORMANCE CHECKS DONE USING HP29/S.TELE=140µSv/h.L9/4:54µSv/h.L-177:34000cpm

Instruments
 Import Add Remove

Serial No.	Class	Type
1763	Radiation	Ludlum 9-4
1623	Contamination	L-177
2048 L	Radiation	Tele
2048 H	Radiation	Tele

16 Drums on Survey
 Select a contamination Set Contamination to: (ccpm) Set Print Export As: Edit Add Drum Remove

Drum	Content...	Top [µSv/...]	Side [µSv...]	Base [µSv...]	At 1m [µ...	At 1m Sel...	Contam...	Contam...	Verified	Reviewed	Reviewe...
000005/27...	Trash	90.00	100.00	80.00	5.00	Side	0.00	0.00	False	True	Grant He...
000005/27...	Trash	2.00	2.00	2.00	1.00	Side	0.00	0.00	False	True	Grant He...
000005/27...	Trash	2.00	2.00	2.00	1.00	Side	0.00	0.00	False	True	Grant He...
000005/27...	Trash	2.00	2.00	2.00	1.00	Side	0.00	0.00	False	True	Grant He...
000005/27...	Trash	5.00	80.00	30.00	2.00	Side	0.00	0.00	False	True	Grant He...
000005/27...	Trash	2.00	2.00	2.00	1.00	Side	0.00	0.00	False	True	Grant He...
000005/27...	Trash	35.00	20.00	4.00	3.00	Top	0.00	0.00	False	True	Grant He...
000005/27...	Trash	5.00	330.00	140.00	5.00	Side	0.00	0.00	False	True	Grant He...
000005/27...	Trash	2.00	15.00	2.00	2.00	Side	0.00	0.00	False	True	Grant He...
000005/27...	Trash	5.00	20.00	90.00	4.00	Base	0.00	0.00	False	True	Grant He...

Results Found: 20

In this Tab:

- **Remove the limitation to transfer on the same date.**
Steel drums can't be transfer on the same date. This needs to be removed from the program.
- **Add a Shortcut to edit instruments on the main page after survey is selected.**

After "New "survey is selecting:

- **Pre-Shipment must be change to Shipment Verification Survey.**
(This has no limitations by linking the drum to the survey.)
- **Change Survey Type.**
Survey type must be able to change after the survey is saved if no drums is linked to the survey.
- **Performed by must change if the survey is edit.**
Performed by must change if any changes are made to the Survey. A message must be brought up and OK click to save changes. When cancel is clicked survey returns to original information.

- **Review all drums. (Excluding Drumming)**

By clicking the “Review all” the program reviews all the drums linked to the Survey.
Any drum linked to the survey with a more than a x% difference needs to be flagged.

(Limitation: X% to be set by Administrator)

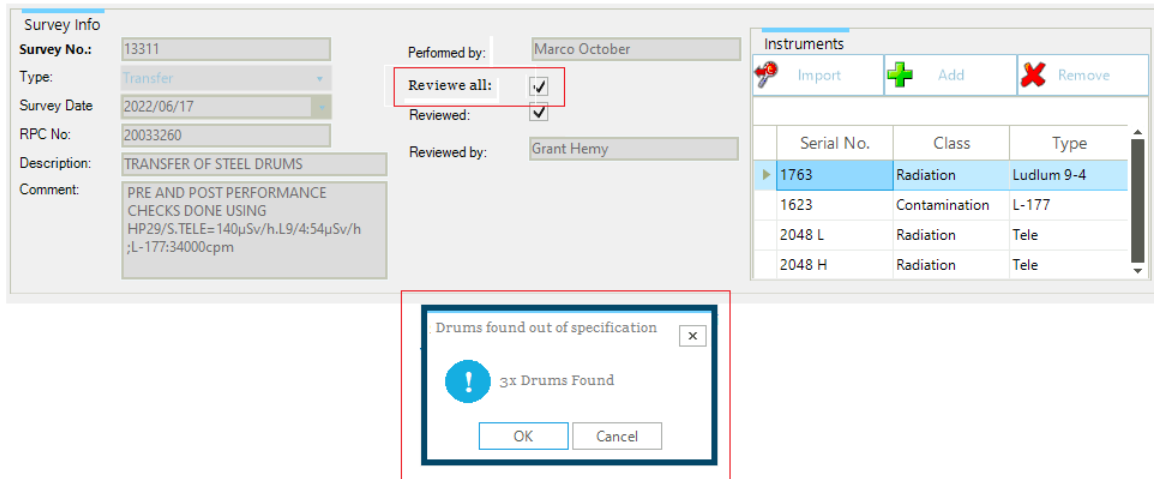
Any drum more than 1500uSv/h must be flagged.

Any drum flagged must be reviewed manually by the SRPA.

Able to review/unreview and link /delink one drum on a trailer.

Able to review/unreview more than one drum at a time on a survey by SRPA.

Please see example below.



After “Add” a drum is selected.

- **Change the Tab function to enter function.**

Pressing “Enter” the next field is selected and cleared ready to enter the value.

- **Auto select the highest contact reading location.**

The RTP program select the highest CT reading from the values entered and select automatically if it is top, side or base. Changes can be manually made if required. “Are sure message” to be add and reason entered when manually changed.

- **Remove: “Are you sure message.”**

The message is brought up when the user is finished editing the drum info and the drum needs to be linked by the user to the survey by clicking “Add”.

Also, when the Reviewer is done reviewing.

Home Page \ Chemistry.



Most of this page and functions need to be automated and revamped.

EXAMPLE OF PAGE AS IS IT IS SEEN FROM CURRENT VERSION:

The screenshot shows the "Chemistry" application window. At the top is a menu bar with options: Home, Back, Forward, New, Cancel, Save, Delete, Import, and Tritium. Below the menu is a search bar and a table of report entries. The main area is titled "Chemistry Report Info" and contains several input fields for report details. Below this is a "Comments" text area and an "Isotopes [Bq/m³]" table. The table has a "1.00" multiplier and "Edit" and "Cancel" buttons. The table contains 28 columns, each representing an isotope with its name and a numerical value in scientific notation.

Chemistry Report Info	
Report Number: 22053480	Sampling Date: 2022/06/22
Chemistry Type: Gamma Spec	Report Date: 2022/06/23
Linked Drums: 0	Substance: APG Resin

Isotopes [Bq/m ³]																																																																																							
Ag-108m	0.000E+00	Ag-110m	0.000E+00	Ba-133	0.000E+00	Be-10	0.000E+00	Be-7	0.000E+00	C-14	0.000E+00	Ca-41	0.000E+00	Ce-141	0.000E+00	Ce-144	0.000E+00	Cl-36	0.000E+00	Co-57	0.000E+00	Co-58	0.000E+00	Co-60	0.000E+00	Cr-51	0.000E+00	Cs-134	0.000E+00	Cs-135	0.000E+00	Cs-137	0.000E+00	Cs-138	0.000E+00	Fe-55	0.000E+00	Fe-59	0.000E+00	H-3	0.000E+00	I-129	0.000E+00	Mn-54	0.000E+00	Mo-93	0.000E+00	Nb-94	0.000E+00	Nb-95	0.000E+00	Ni-59	0.000E+00	Ni-63	0.000E+00	Pd-107	0.000E+00	Ru-106	0.000E+00	Sb-124	0.000E+00	Sb-125	0.000E+00	Se-79	0.000E+00	Sm-151	0.000E+00	Sn-113	0.000E+00	Sn-121m	0.000E+00	Sn-126	0.000E+00	Sr-90	0.000E+00	Tc-99	0.000E+00	TRU	0.000E+00	Y-88	0.000E+00	Zn-65	0.000E+00	Zr-93	0.000E+00	Zr-95	0.000E+00

Changes to the format of the page:

- **Report and Chemistry Type need to be changed.**

Report number needs to be changed to the Drumming Survey numbers requiring Chemistry and tritium to be linked.

Chemistry needs to be changed to Linked and not Linked.

Please see example below.

The screenshot shows the 'Chemistry' software interface. The top navigation bar includes 'Home', 'Back', 'Forward', 'New', 'Cancel', 'Save', 'Delete', 'Import', and 'Tritium'. The main area is divided into two sections: 'Chemistry Report Info' and 'Isotopes [Bq/m³]'. The 'Chemistry Report Info' section contains fields for Report Number (22053480), Sampling Date (2022/06/22), Chemistry Total [Bq/m³], Chemistry Type (Gamma Spec), Report Date (2022/06/23), ID Numeric, Linked Drums (0), and Substance (APG Resin). The 'Isotopes [Bq/m³]' section displays a grid of isotopes with their respective activity values, all set to 0.000E+00. A table on the left lists survey numbers, types, and linked status.

Survey N...	Type Na...	Linked
13312	Drumming	False
13298	Drumming	True
13297	Drumming	True
13296	Drumming	True
13295	Drumming	True
13294	Drumming	True
13292	Drumming	True
13290	Drumming	True
13288	Drumming	True
13287	Drumming	True
13285	Drumming	True
13282	Drumming	True
13281	Drumming	True
13271	Drumming	True
13270	Drumming	True
13268	Drumming	True
13264	Drumming	True
13256	Drumming	True
13253	Drumming	False
13249	Drumming	True
13248	Drumming	True

Isotopes [Bq/m ³]											
Ag-108m	0.000E+00	Ag-110m	0.000E+00	Ba-133	0.000E+00	Be-10	0.000E+00	Be-7	0.000E+00	C-14	0.000E+00
Ca-41	0.000E+00	Ce-141	0.000E+00	Ce-144	0.000E+00	Cl-36	0.000E+00	Co-57	0.000E+00	Co-58	0.000E+00
Co-60	0.000E+00	Cr-51	0.000E+00	Cs-134	0.000E+00	Cs-135	0.000E+00	Cs-137	0.000E+00	Cs-138	0.000E+00
Fe-55	0.000E+00	Fe-59	0.000E+00	H-3	0.000E+00	I-129	0.000E+00	Mn-54	0.000E+00	Mo-93	0.000E+00
Nb-94	0.000E+00	Nb-95	0.000E+00	Ni-59	0.000E+00	Ni-63	0.000E+00	Pd-107	0.000E+00	Ru-106	0.000E+00
Sb-124	0.000E+00	Sb-125	0.000E+00	Se-79	0.000E+00	Sm-151	0.000E+00	Sr-113	0.000E+00	Sr-121m	0.000E+00
Sn-126	0.000E+00	Sr-90	0.000E+00	Tc-99	0.000E+00	TRU	0.000E+00	Y-88	0.000E+00	Zn-65	0.000E+00
Zr-93	0.000E+00	Zr-95	0.000E+00								

After selecting "New" report.

New

Program brings up the following Information block:

The screenshot shows the 'Survey To Chemistry Import' dialog box. It features a text input field for 'Survey No.' containing the value '13311'. Below the input field is a green plus sign icon and the text 'Add Drum'.

Users enter survey number and add.

RTP Program import Survey to the Report.

Chemistry Report Info

Report Number: Sampling Date: Chemistry Total [Bq/m³]:

Chemistry Type: Report Date:

Linked Drums: Substance:

Drag a column here to group by this column.

Drum	Content...	Top [µSv/h]	Side [µSv...	Base [µSv...	At 1m [µ...	At 1m Sel...	Contam...	Contam...	Verified	Reviewed	Reviewe...
Contains: ▼	Contains: ▼	No filter: ▼	No filter: ▼	No filter: ▼	No filter: ▼	Contains: ▼	No filter: ▼	No filter: ▼	No filter: ▼	No filter: ▼	Contai... ▼
▶ 06563C2F/...	Filters	15500.00	250.00	290.00	2300.00	Top			True	True	Achmat C...

RT program auto select **Drumming date** from the drumming survey (Allow manual change.)

Program auto select **Substance** from drum information.

a) For Fractional Contribution for Concrete:

Sampling: Auto fill with date of drumming from the survey. (Allow manual change.)

Report Date: Report Date auto fill with date of the day. (Allow manual change.)

Substance: Auto fill from drum information.

Report number: Auto fill with next available number.

Chemistry Type: Auto fill due to type of container. (Allow manual change)

Linked drums: Auto fill from survey linked.

Please see example below.

Chemistry Report Info

Report Number: **AUTO** Sampling Date: **AUTO** Chemistry Total [Bq/m³]:

Chemistry Type: **AUTO** Report Date: **AUTO**

Linked Drums: Substance: **AUTO**

Comments

Users selects "Import".

Drum Date: Auto Select from Drumming date entered at Chemistry report info.

Calculation Date: Auto Select from Calculation date entered at Chemistry report info.

Report number: Auto select from Report number from Chemistry report info.

Content type: Auto select from Substance type from Chemistry report info.

Users verify information and click Get report. (Any changes on the Fractional Contribution Import must also make the applicable change on the Chemistry Report info.)

Users verify information and click Import.

RTP program auto links to all drums on the linked survey.

Please see example below.

The screenshot displays the 'Fractional Contribution Import' interface. At the top right, there is a 'Cancel Import' button with a circular arrow icon. The interface is divided into two main sections: 'Report Details' and 'Report info'.
The 'Report Details' section contains:
- 'Report Number' with a text input field containing '900' and a red 'Auto' label to its right.
- 'Content Type' with a dropdown menu showing 'Resin' and a red 'Auto' label to its right.
- 'Drum Date' with a date input field containing '2022/06/23' and a red 'Auto' label to its right.
- 'Calculation Date' with a date input field containing '2022/06/23' and a red 'Auto' label to its right.
Below these fields are two buttons: 'Get Report' (with a green download icon) and 'Import' (with a red and green download icon).
The 'Report info' section contains:
- 'Delay:', 'Decay:', and 'Elapsed:' each followed by an empty text input field.
- 'Start Date:' and 'End Date:' each followed by a date selection dropdown menu.
At the bottom of the 'Report info' section, there is a note: '* Dates are Inclusive'.

b) For Gamma Spec:

Sampling: Auto fill with date of drumming from the survey. (Allow manual change.)

Report Date: Report Date auto fill with date of the day. (Allow manual change.)

Substance: Auto fill from drum information.

Report number: Manual enter by users with Report number from Chemistry Result.

Chemistry Type: Auto fill due to type of container.

Linked drums: Auto fill from survey linked.

Please see example below.

The screenshot shows a form titled "Chemistry Report Info" with the following fields and values:

Report Number	22053438 MANUAL ENTER	Sampling Date	2022/05/23 AUTO	Chemistry Total [Bq/m ²]:	
Chemistry Type:	Gamma Spec AUTO	Report Date	2022/05/25 MANUAL ENTER	ID Numeric	12252150
Linked Drums:	9	Substance:	APG Resin AUTO		

Comments

Use selects "Import".

Users enter LIMS number form Chemistry Report.

Users verify information and click Get report.

Users verify information and click Import.

RTP program auto links to all drums on the linked survey.

Please see example below.

The screenshot shows a form titled "Gamma Spec Import" with the following fields and values:

Report Import	Report Information	
Sample ID Numeric: 12252150 MANUAL ENTER	Sample Title: <input type="text"/>	Sample Date: 2022/06/23 4:25 PM
Sample Identification: 22053438	Sample Identification: <input type="text"/>	Sample Acquisition Date: <input type="text"/>
<input type="button" value="Get Report"/>	Analysed By: <input type="text"/>	

Nuclide Information | Other Info | To Be Imported

User Select "Tritium"

Tritium Tab must be gray out if the drumming survey is of the same month. (Manual edit by SRPA)

Use selects "Import".

Drum auto search and select highest Tritium value for the month. RTP program select date from the beginning of the month to the last day of the month in the month the drum was drummed.

RTP program select all tritium results for the month but highlights the highest value.

Users select and click import.

RTP program imports to all drums linked to the survey.

Please see example below.

Date	Unit	Tritium Value [Bq/m ³]
2022/05/0...	1	23600000000.00
2022/05/0...	1	20700000000.00
2022/05/3...	1	20300000000.00
2022/05/2...	1	19900000000.00
2022/05/1...	1	19700000000.00

If no value is found.

RTP program brings up manual list.

A manual list needs to change to the following lay out.

- Add function to edit or remove tritium sample if incorrectly loaded. This must only be possible if the sample is not linked to drums.
- Add information block to what surveys the report is linked to.

Please see example below.

ID	Drumming	True
13298	Drumming	True
13297	Drumming	True
13296	Drumming	True
13295	Drumming	True
13294	Drumming	True

Home Page \ Simulator



The Simulator is a new part of the program that needs to be developed.

This is a new part of the program that a user can import a trailer survey and authorise himself to run calculation.

- The program will then check that all surveys are completed.
- The drumming dates and chemistry dates is correct.
- The mass of the drums is in the limit.
- If any drum is above limit.
- And Calculations

The Simulation program give you the option to manually enter any drum or number of drums or import a trailer survey (reviewed or not reviewed) as mentioned above.

The Simulator must allow to Import a survey but remove drums and add other drums manually to check calculations. This must not impact any original survey. Any values for drums manually added will be seen by the program as a shipping and a trailer survey and run calculations. The Simulator will only run calculation if the Drumming to Transfer surveys are complete and loaded on the RTP as reviewed.

Any Changes that are made to the drums will blank or highlight the survey to indicate a change. When opening the report, a log needs to show any changes made and when. The survey will have to be review and rerun of the calculations before it can be use or imported to the final Shipping survey.

Simulator does not have to be used to load a Shipping package.

The Shipping number can be saved and reviewed if required but will be saved as SIM (User enters number.) Example:

SIM V-2022-0011.

The save Sim Surveys can be later imported as a shipment after the Verifier (SRPA) verification checks was passed. A review block will be use and saved.

Home Page\Ship



EXAMPLE OF PAGE AS IS IT IS SEEN FROM CURRENT VERSION:

The screenshot shows the "Shipment" application interface. The top menu bar includes Home, Back, Forward, New, Cancel, Save, Delete, Report, and Shipment History. The main area is divided into several sections:

- Shipment Info:** Shipment Number (V-2022-0006), Shipment Date (2022/06/06), Shipping Trailer (Concrete Trailer 2), UN Serial Number (3321), UN Class Number (7), and various review and approval fields.
- Vehicle Survey:** Cabin reading (0.60), At 2m reading (3.00), Contact reading (8.00), and Performed By (Chris Kamfer).
- Activity Fields:** TI (9.20), Concrete Drums (5), Steel Drums (0), Total Activity [GBq] (5.249E-01), A2 Value [GBq] (3.117E+02), Category Name (III - Yellow), Mass [kg] (23625), Specific TRU [Bq/g] (7.081E+01), and Number of A2s (1.684E-01).
- Group:** LOW SPECIFIC ACTIVITY (LSA-II)
- Name:** RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-II) Non Fissile

Below the info section, there is a table titled "No drums in shipment" with columns: OEM Number, Type Name, Koeberg Number, Content Name, Mass [kg], and Location. The table contains 6 rows of data:

OEM Number	Type Name	Koeberg Number	Content Name	Mass [kg]	Location
3959	C2F	4058	Filters	4805.00	Vaalputs
3965	C2F	4188	Filters	4790.00	Vaalputs
5733	C2F	4878	Filters	4740.00	Vaalputs
6540	C2F	5143	Filters	4840.00	Vaalputs
3805	C2F	5570	Filters	4450.00	Vaalputs

- Change the Tab to Package and not Ship.
This is to eliminating communication errors between Shipping surveys and Shipping package.
Ensure the manual delinking of one drum from a trailer and shipment

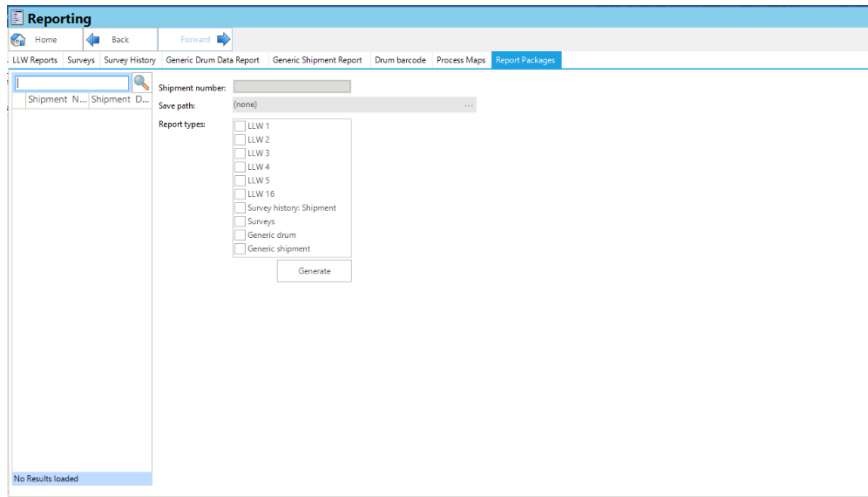
Error to Correct:

- RTP program does not allow to ship on the last day of the month (or to add instruments on the 31st.)
- NCW Steel Drum Calculations to be added.

Home Page\Report



EXAMPLE OF PAGE AS IS IT IS SEEN FROM CURRENT VERSION:



- **Add Monthly Report.**

Users click monthly report.

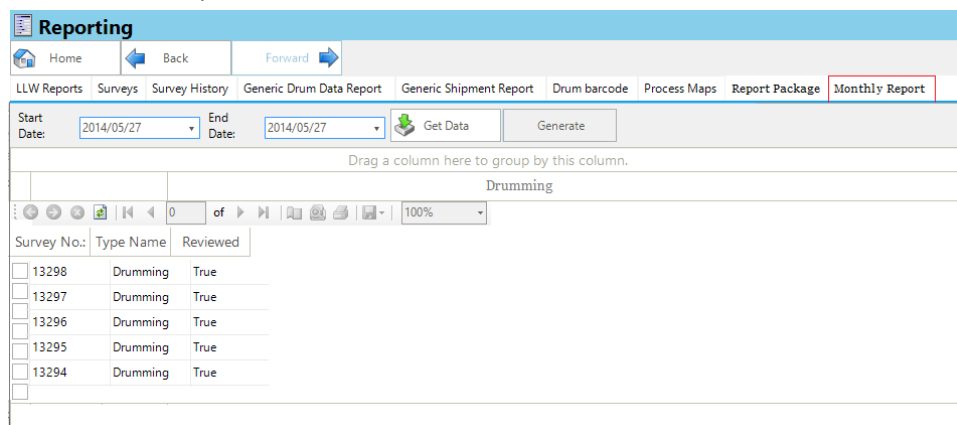
Users select start of the month and RTP program auto fill in the last date of the month. (Manual edit by Users allowed.)

Users click "Get data"

RTP program search and select all Drumming surveys according to the date of the drumming performed.

Users deselect unwanted surveys and click "Generate."

Please see example below.



- **Add Label extractor.**

Users enter survey number of shipping survey and click” Get Data”

RTP program bring up the following information:

Drumming Date.

Contents.

Transfer Date.

CT Reading of the drums Transfer Survey.

One Meter Reading of the Transfer Survey.

CT Reading of the drum Shipping Survey.

One Meter Reading of the Shipping Survey.

Please see example below.

Drumming Date	Contents	Transfer Date	CT Reading	One Meter	Shipping CT Reading	One meter

- Add Transport Sticker Report.

Users enter survey number of Shipment Number and click” Get Data”

RTP program bring up the following information:

Drum Number

Restrictive Nuclides for Contents

Activity for the Drum

Transport index

RTP auto select Radioactive 2 or 3 Label.

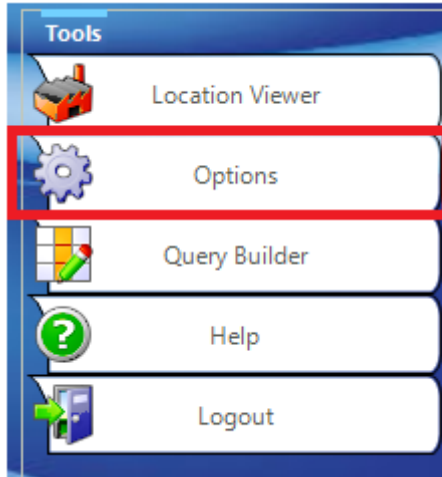
Users click print and print labels on Sticker paper.

Please see example below.



- Add Report generator
 - for info during a specific range
 - only preselected
 - a field where the activity shipped is calculated over a selected period
 - the selected drum type shipped for a set period
 - identify drums from the programme that is within a selected criteria, e.g. activity level, dose rate level, etc.

Main Page \ Tools \ Options



EXAMPLE OF PAGE AS IS IT IS SEEN FROM CURRENT VERSION:

Administrative Options

Home | Back | Forward

Types & Content | Instruments

Instruments [New] [Cancel] [Save] [Delete]

Search Instrument

Serial No.	Type
▶ 2057	Radeye_SX
2045H	Tele
2045	Tele
2049H	Tele
2049	Tele
2044 H	Tele
2044	Tele
2048 H	Tele
2048 L	Tele
2046H	Tele
2043H	Tele
2043L	Tele
1625	L-177
263	L-177
2046	Tele
7777	L-177
8888	Smart-ION
9999 H	Tele

Results found: 20

Instrument Information

Instrument: Instrument Class | Instrument Type | Calibration Source

Serial No.: 2057 | Calibration Due Date: 2022/11/15 23:59

Type: Radeye_SX | Class: Contamination

Sent To Callab | Edit Calibration Certificate

Calibration History

Calibration Due Date	Efficiency Rating	BCF	Source Name	Source Nuclide	Source Reading
▶ 2022/11/15	17.6	0	HP 36/S	Pu-239	0
2022/11/15	17.6	0	HP 36/S	Pu-239	0

Surveys

Survey Date	Survey No:	Performed By
▶ 2022/06/07 12:00:00 AM	13261	Chris Kamfer
2022/06/05 12:38:58 PM	13280	Chris Kamfer
2022/05/30 10:02:19 AM	13259	Achmat Christian
2022/05/09 10:26:16 AM	13221	Chris Kamfer
2022/04/28 9:46:23 AM	13260	Chris Kamfer
2022/04/13 4:48:29 PM	13309	Chris Kamfer
2022/04/13 2:18:02 PM	13178	Chris Kamfer
2022/04/13 11:54:41 AM	13279	Chris Kamfer

- **Instruments**

Drop down for alpha instruments should be added.

Teletectors must be split to in a High and low rage category.

- **Edit Calibration Certificate**

When editing the Certificate, the changes must only apply to surveys selected manually.

Surveys that are already reviewed must have a pop-up message: "Are you sure?"

Add default options to add Sources to certain instruments so that the Sources does not auto reset when edit to HP28/S.

A Tab should be added to allowing the Physicist to edit and change values and calculations when required.

Example:

Contamination smears for surveys should be able to be change from 100cm² to 300cm²

Weight for the trailer must be able to increased and decreased.

Able to determine the Restrictive Nuclide

NOTE: The drums are listed as 1, 2 ,3 , 4 and 5 like in the LLW 1 and LLW 4 forms. This avoids writing the drum numbers each time the sheet is used.

1. Copy the activity values from either the LLW 1 or LLW 4 form into columns C to G.
2. In columns M to Q, the restrictive number of A2s will be indicated as "A", "B" or "C".
3. "A" = Most Restrictive, "B" = Second Most Restrictive and "C" = Third Most Restrictive.
4. Look in column A for the corresponding nuclides and write them on the radioactive labels.

NOTE: The size of the label will determine the number of radionuclides that can be written in the allocated space.