

CHAPTER 52 - REPLENISHMENT2

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CHAPTER 52 - REPLENISHMENT

Synapse provides two methods to meet warehouse location replenishment demands for pick fronts.

- **Emergency Replenishment**, a system directed replenishment method, generates replenishment tasks whenever location quantities fall between a predefined min/max level.
- **Sight-Directed Replenishment**, an operator directed replenishment method, allows warehouse associates to pick from a location and then ‘top off’ the inventory at that location at the operator’s discretion. This can be to top off a location during a low activity time of the day.

Synapse enforces pre-defined inventory stock rotation requirements (e.g., FIFO) for all replenishment methods based on the allocation rule assigned to the item for replenishment.

Replenishment tasks are system generated according to the information that is on the Pick Fronts Tab of the Item Maintenance Screen. On this tab, the user specifies the minimums and maximums for the Pick Front and what the Top Off Amount should be.

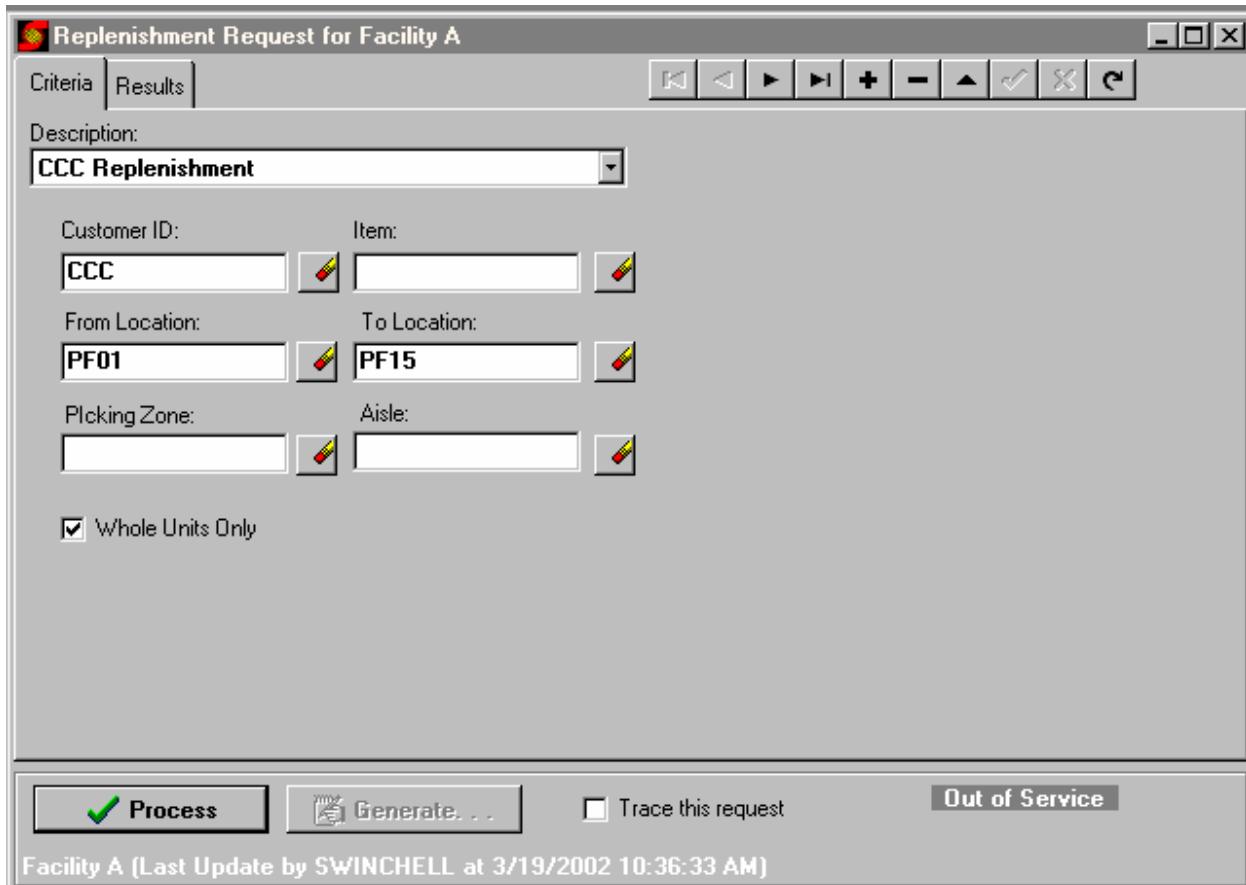
As replenishments are created by the system, they are assigned in the order in which they are created. All replenishment tasks have a priority of Normal but can be upgraded to High or Immediate if users are waiting for the location to be stocked. All replenishment tasks are completed using RF equipment.

Replenishment Request

These screens will allow you to define parameters for a replenishment request for multiple pick fronts using a template.

Step 1: From the Requests Menu, select Update Requests, and then click on Replenishment.

The screen will display as follows:



Replenishment Request/Criteria

- Step 2: Decide on whether you will be using an existing template or creating a new one.
- HINT:** To help make your decision, view existing templates by positioning the cursor in the description field and double clicking to view the drop down box.
- Step 3: Select an existing template by double clicking on your selection or create a new one by clicking on the .
- Step 4: If creating a new template, enter a description of the replenishment to be performed. This is a free text field. The description should be of some meaning of identification to the user. If you are using an existing template, skip this step.
- Step 5: Tab to the customer field. In the customer field, type in the customer ID. If the customer ID is unknown, double click and a drop down box will appear.

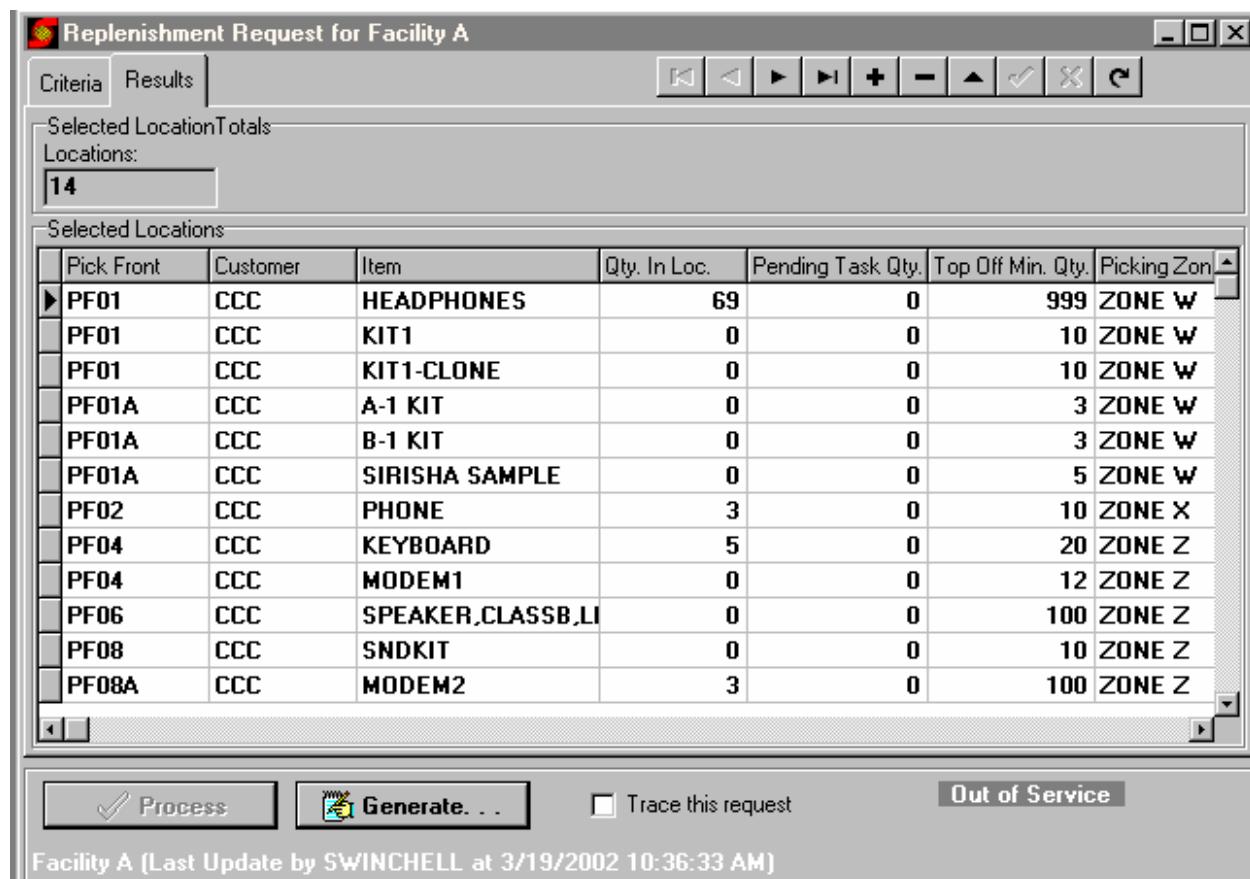
Step 6: If you want to request replenishments for a range of locations, enter location ID's in the From and To Location Boxes. Leaving the To Location field blank will only create tasks to replenish at that location.

Step 7: If you want to generate a request on a customer, specific item, zone, location type, or lot, enter that information in the specific field. Leave all the other fields blank. These are considered "more specific parameters". They have an "and" relationship. Only if all non-blank parameters are fulfilled, the results will include the location(s) entered in Step 6.

HINT: If you are using an existing template and want to change any of the criteria (item etc.), after changing the information you will need to click on the  to update the information.

Step 8: Click on the  button to have SYNAPSE handle the request.

The screen will display as follows:



The screenshot shows a software interface titled "Replenishment Request for Facility A". The window has tabs for "Criteria" and "Results", with "Criteria" selected. Below the tabs is a toolbar with various icons. The main area displays a grid of "Selected Locations". The grid columns are: Pick Front, Customer, Item, Qty. In Loc., Pending Task Qty., Top Off Min. Qty., and Picking Zon. The grid rows list various items and their details, such as HEADPHONES, KIT1, KIT1-CLONE, etc., across different pick fronts (PF01, PF02, PF04, PF06, PF08, PF08A) and customers (CCC). The bottom of the window features a toolbar with buttons for "Process", "Generate...", "Trace this request", and "Out of Service". At the very bottom, it says "Facility A (Last Update by SWINCHELL at 3/19/2002 10:36:33 AM)".

Pick Front	Customer	Item	Qty. In Loc.	Pending Task Qty.	Top Off Min. Qty.	Picking Zon
PF01	CCC	HEADPHONES	69	0	999	ZONE W
PF01	CCC	KIT1	0	0	10	ZONE W
PF01	CCC	KIT1-CLONE	0	0	10	ZONE W
PF01A	CCC	A-1 KIT	0	0	3	ZONE W
PF01A	CCC	B-1 KIT	0	0	3	ZONE W
PF01A	CCC	SIRISHA SAMPLE	0	0	5	ZONE W
PF02	CCC	PHONE	3	0	10	ZONE X
PF04	CCC	KEYBOARD	5	0	20	ZONE Z
PF04	CCC	MODEM1	0	0	12	ZONE Z
PF06	CCC	SPEAKER,CLASSB,LI	0	0	100	ZONE Z
PF08	CCC	SNDKIT	0	0	10	ZONE Z
PF08A	CCC	MODEM2	3	0	100	ZONE Z

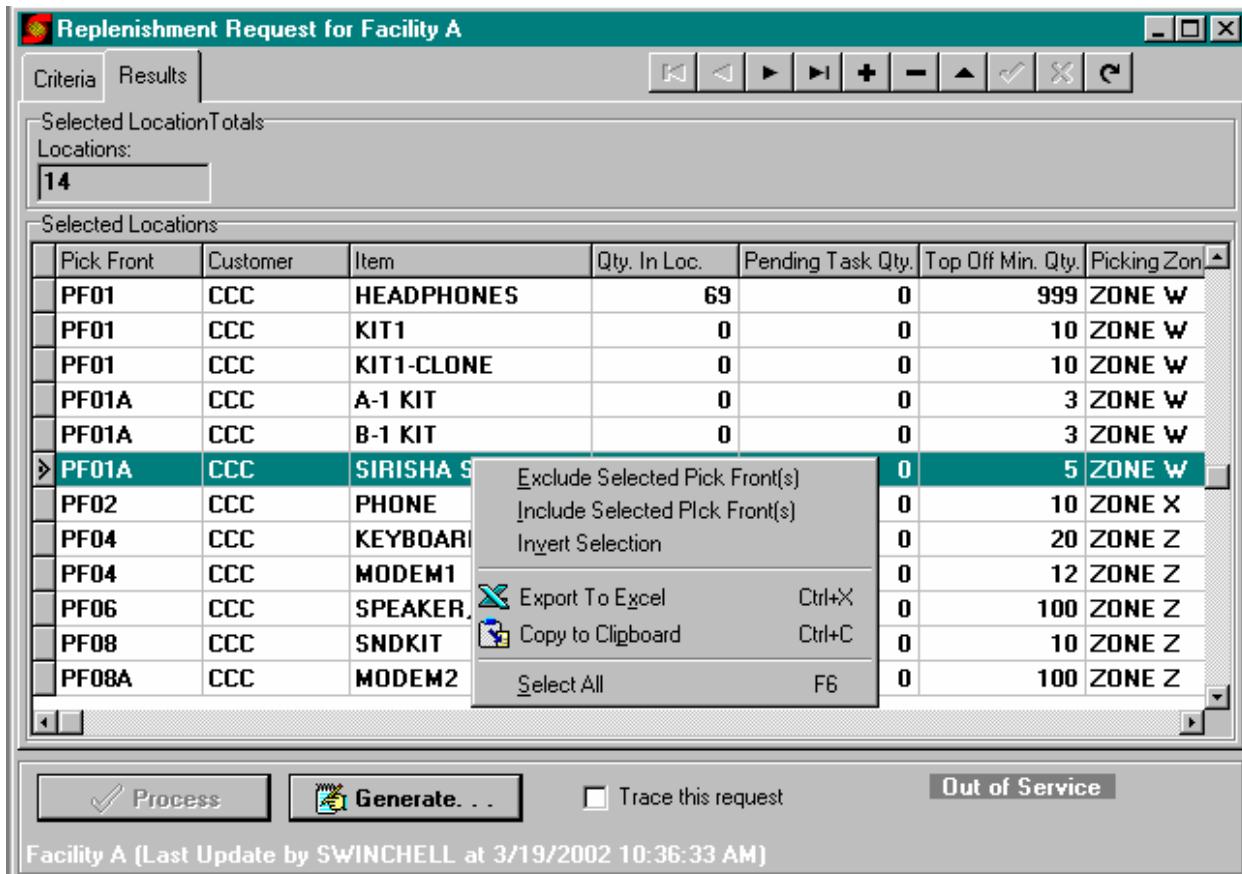
Replenishment Request/Results

Step 9: On the Results Tab, SYNAPSE will display the outcome of the request.

Step 10: Review the results. Note that the shaded Locations box in the upper left will display the total number of locations returned by SYNAPSE processing.

Step 11: To include or exclude locations to be replenished, highlight the row on the grid and right click the mouse.

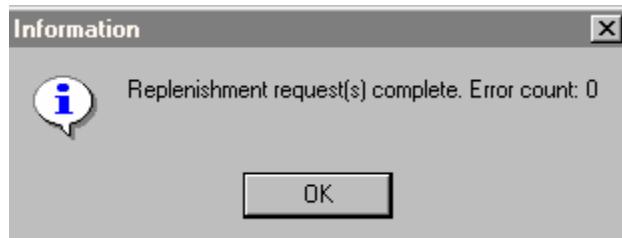
The screen will appear as follows:



Step 12: Select the Exclude Selected Locations(s) options. Continue until desired rows are processed. To do the reverse, select the Invert Selection option and then highlight a row on the grid, and select the Include Selected Location(s) option. Continue until desired rows are processed.

Step 13: Review the results of the request. If acceptable, click on the **Generate...** button to build the replenishment tasks.

A message window will display stating the generation of replenishments is complete:



Creating a Manual Replenishment Task for a Single Pick Front

A user can create a manual replenishment task if the inventory for the Pick Front has not decreased enough to have a system generated task.

Step 1: From the Setup Menu, select Customer/Item Maintenance.

Step 2: Click on the Pick Front Tab.

The screen will display as follows:

The screenshot shows the 'Customer CCC - Item Maintenance for ORANGE MOUSE' window. The 'Pick Fronts' tab is selected. On the left, under 'Facility', '107' is selected. Under 'Pick Front', '1AB132A' is selected. Under 'Pick UOM', 'EA' is selected. Under 'Replenish With UOM', 'CS' is selected. In the center, there are three input fields: 'Minimum UOM: EA Each', 'Top Off UOM: CS Case', and 'Maximum UOM: EA Each'. The 'Top Off' field contains 'Quantity: 1'. The 'Maximum' field contains 'Quantity: 100'. At the top center, there is a 'Replenish' button with a blue arrow icon. To its right are two checkboxes: 'Whole Units Only' (checked) and 'Trace this request' (unchecked). On the right side of the screen, there is a 'Status' section with fields for 'Last Picked Date:' and 'Pending Item:', both currently empty. Below the main input area is a table with one row, showing the same data as the input fields: Facility 107, Pick Front 1AB132A, Pick UOM EA, Minimum Qty 10, Replenish With UOM Case, Maximum Qty 100, Last User SWINCHELL, Last Update 11/19/02 2:40:02, and Facility Name Zethcon.

NOTE: When a replenishment is manually created, the system looks at the Top Off field to determine what amount should be replenished.

Step 3: Click on the Replenish Tab in the upper center of the screen.

If the location should be replenished in whole units only, place a check mark next to that field.

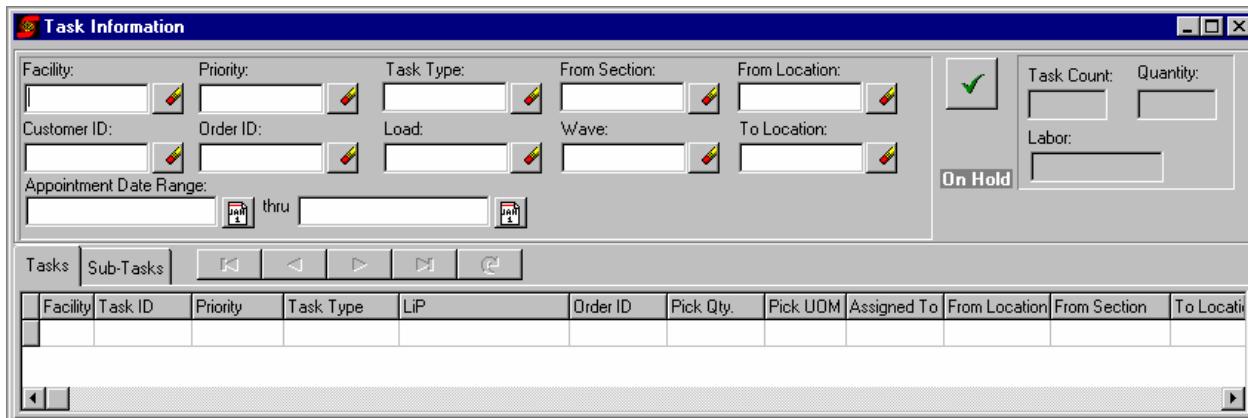
Upgrading the Priority of a Replenishment

Manual Upgrade

There will be times when a replenishment task is system generated but the location is completely empty and users are waiting for the location to be stocked. In order to optimize the user's time, the priority can be upgraded from Normal to High, which will put the task at the top of the list.

Step 1: From the Lookup Menu, select Tasks.

The Task screen will display as follows:



Step 2: Type the Facility ID in the Facility field.

- If the ID is not known, double click in this field to view a complete listing of Facility ID's. Double click on the correct one to carry it over to the Task Information screen.

Step 3: Press the Tab key to move to the Customer ID field.

Step 4: Type the Customer ID in the Customer ID field.

- This is an optional field and does not need to be entered to view the tasks.
- If the ID is not known, double click in this field to view a complete listing of Customer ID's. Double click on the correct one to carry it over to the Task Information screen.

Step 5: Press the Tab key to move to the Task Type field.

Step 6: Type RP for Replenishment Pick.

- This will tell the system to only display tasks that are for replenishment.

Step 7: An appointment date range can be entered to further limit the tasks displayed.

Step 8: Click the green check mark to view the specified information.

The information will display as follows:

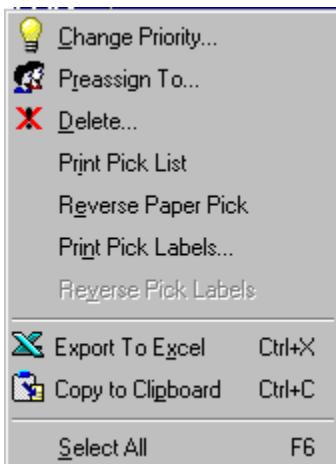
Task Information

Facility:	Priority:	Task Type:	From Section:	From Location:	<input checked="" type="checkbox"/>	Task Count: 49	Quantity: 1668				
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>							
Customer ID:	Order ID:	Load:	Wave:	To Location:		Labor:	03:17:42				
Appointment Date Range: <input type="text"/> thru <input type="text"/>						On Hold					
<input type="button" value="Tasks"/> <input type="button" value="Sub-Tasks"/> <input type="button" value="<"/> <input type="button" value="<<"/> <input type="button" value=">"/> <input type="button" value=">>"/> <input type="button" value="?"/>											
Facility	Task ID	Priority	Task Type	LIP	Order ID	Pick Qty.	Pick UOM	Assigned To	From Location	From Section	To Loc
107	21067	Active	Order Pick		3056	1	PAPER	1AB130A	1AB6		
107	21085	Active	Order Pick		3072	6	PAPER	1AB132D	1AB6		

Step 8: Right click on the line for the replenishment task that needs to be upgraded.

- This will display a menu of options.

The menu will display as follows:



Step 9: Click on Change Priority.

Step 10: Click on the down arrow at the end of the Value field.

Step 11: In the menu of options, click on High or Immediate Priority.

Step 12: Click the OK button

- This will change the priority and the next person to request a replenishment task will be assigned.

Automatic Upgrade

When a wave is released, the task priority for existing replenishment tasks will increase by one level (i.e., Low (4) to Normal (3), etc.) If the replenishment task is on hold, no priority changes will be made.

Trace Request

The **Replenish Request** and **Customer Item forms** contain a "Trace this request" checkbox. If the box is checked prior to a replenishment request, the system will generate "trace" messages (which will appear on the Messages Form under type 'T'race Message). The checkbox will only appear on the screen if the user has 'S'upervisor security, since these checkboxes are intended to be used for support/debug purposes.

Whole Units Only

When checked, the "Whole Units Only" box informs the Replenishment process that only 'F'ull picks should be generated when the Top-Off is requested via the Replenish button.

This field is NOT on the database. It is an option on the screen just use at the time of the request. The system does not "save" this setting for each item (or for each customer for that matter).

Creating a Top Off via RF

An RF user can create a top off replenishment task if the inventory for the Pick using the Top Off (option 83) function.

Step 1: From the RF Miscellaneous (Option 80) menu, Select Location Topoff (Option 83).

The screen will display as follows:

83 Location Topoff
Facility A
Location _____
Enter location

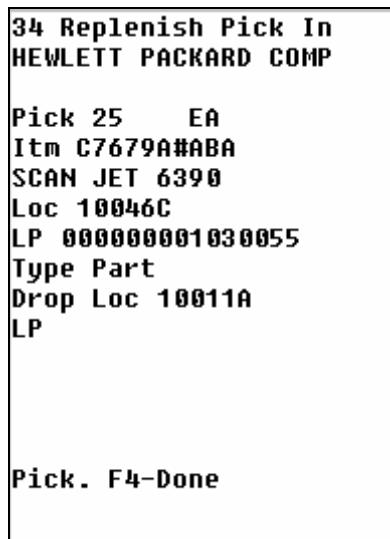
The location entered must be a Pick Front in the facility.

A replenishment task will be generated based on the top off rules set on the Item Maintenance Pick Front screen. This process will consider all possible items for the pick front even if no inventory currently exists there.

Completing a Replenishment Task on the RF

Step 1: From the Picking Menu on the RF (Option 50), select Replenishment (Option 57).

The system will search for the closest task to the user's current location. The screen will display as follows:



NOTE: The screen will display the amount to pick, Item ID, the Location to Pick from, the LiP to Pick and the To Location. Once the user has the LiP, it needs to be scanned to verify the correct LiP is being used.

Step 2: In the LP field at the bottom of the screen, scan the LP # of the plate that is being used to replenish the Pick Front.

- This number should match the LP # at the top of the screen.

Step 3: Press the Enter key.

NOTE: A message may appear at the bottom of the screen asking if the location is empty. If it is, type a 'Y' and press Enter. If it is not, type an 'N' and press Enter.

Step 4: The system will then prompt with a message 'Pick/Drop?' Type a 'D' for Drop to take the inventory to the new location.

Step 5: Press the Enter key.

The Drop Replenishments screen will display as follows:



Step 6: In order to verify the inventory is being placed in the correct location, the Check ID for the new location (Pick Front) needs to be entered. Type or scan the Check ID.

Step 7: Press the Enter key.

NOTE: Once the drop is completed, the system will assign another replenishment task. If the user is finished and will not be doing any more tasks, press the F1 key to back out of the replenishment window.

Other Notes:

- If a manual move is performed to replenish a pick front and there is a replenishment task already outstanding to replenish that pickfront, Synapse will delete the replenishment pick task if that is now not needed. Sufficient tasks are deleted to drop the quantity at the location plus the quantity coming from replenishment tasks below the max capacity of the location.
- Emergency (System Generated) Replenishments Requests are processed via the Oracle dbms-jobs facility. This must be running for these replenishment requests to process. Both types of requests (manual and emergency) use the same replenishment routines for the allocation of inventory and generation of tasks.

