CHAPTER 47 - COMPONENT TEMPLATE KITTING 2

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CHAPTER 47 - COMPONENT TEMPLATE KITTING

Component Template Kitting is a kit that can be produced on a re-occurring basis using different items for each order. An example of component template kitting would be a mass solicitation mailing where the steps would be the same on a repeated basis but the components of the mailing (for example, the specific letter, envelope and brochure) would be different item codes based on the target audience of the mailing. Often in this type of mailing, one of the input components needs to be personalized with a name and address. The overpick quantity combined with the spoilage option allows for test print runs, etc.

Current Make-to-Stock and Make-to-Order kitting require the same component items to be used to make the kitted item. At the end of Make-to-Stock and Make-to-Order kitting, the inventory of the input components is decremented and the inventory of the output component is incremented.

Component template kitting differs in two major ways:

1. Component Kitting allows the user to select the items to be kitted via the order entry process.

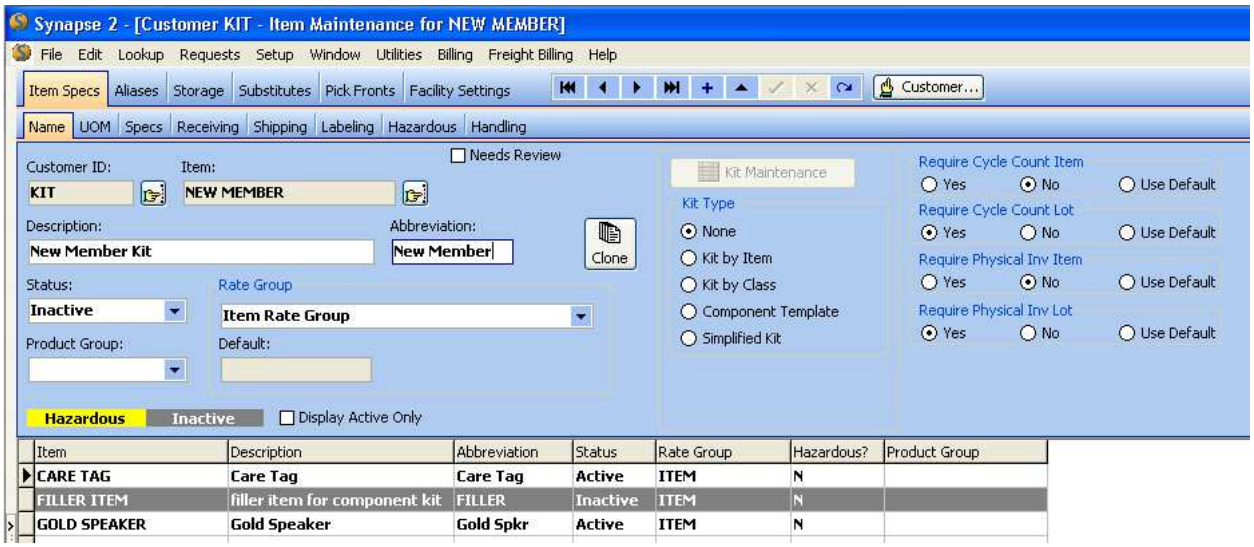
2. At the end of Component Kitting, the inventory of the input components is split between:

    - Inventory to be picked for shipping
    - Inventory to be spoiled
    - Unused inventory to be returned to storage.

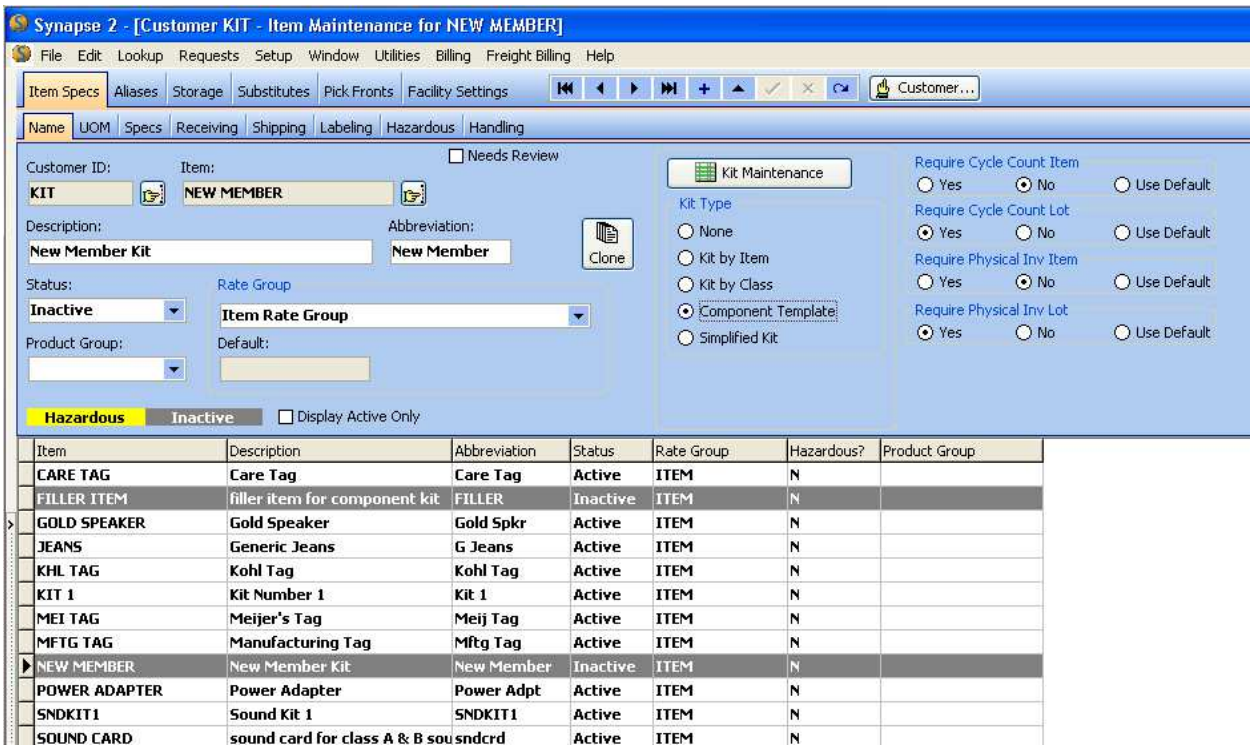
    There is no inventory created or shipped for the output component.

Setting up the Component Template

Each component template kit requires one “dummy” or “filler” item for kit set up. This item will have no inventory but needs to exist in the database for the customer. The same dummy or filler item can be used for multiple component templates. In the example below, the item, “FILLER ITEM”, is added with the Kit Attribute set to None. The status should be set as INACTIVE to prevent regular orders using this as an item.

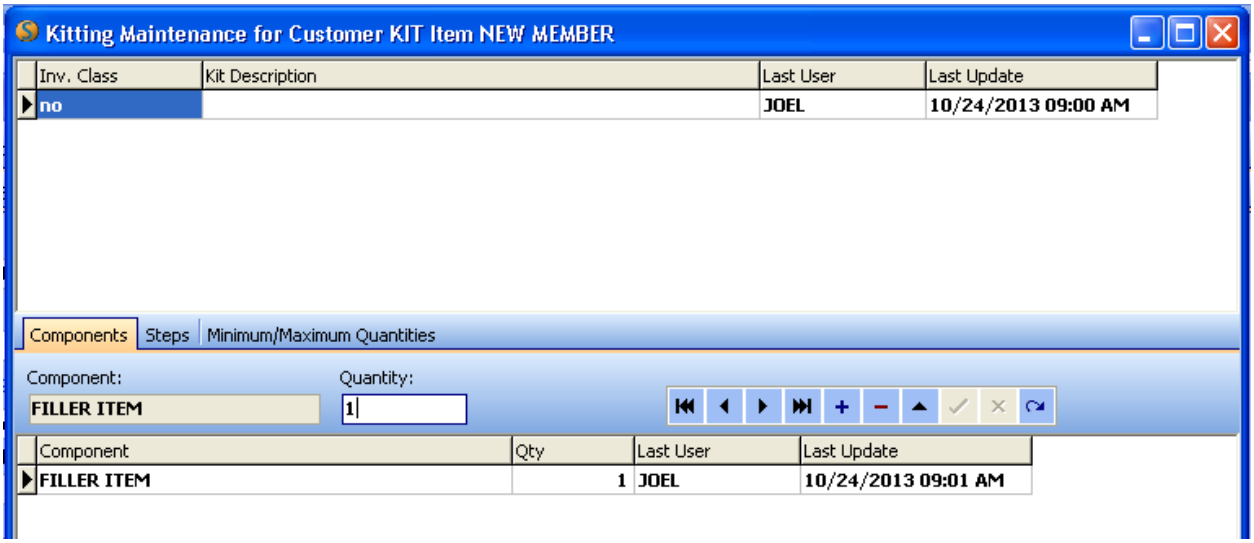


Each Component Template is set up as an item for the customer. In the example below, the item, "NEW MEMBER", is added as a kit with the Kit Attribute set to Component Template. This item will have no inventory but needs to be in the item file to link the Component Template instructions with the specific outbound order. The status should be set as INACTIVE.



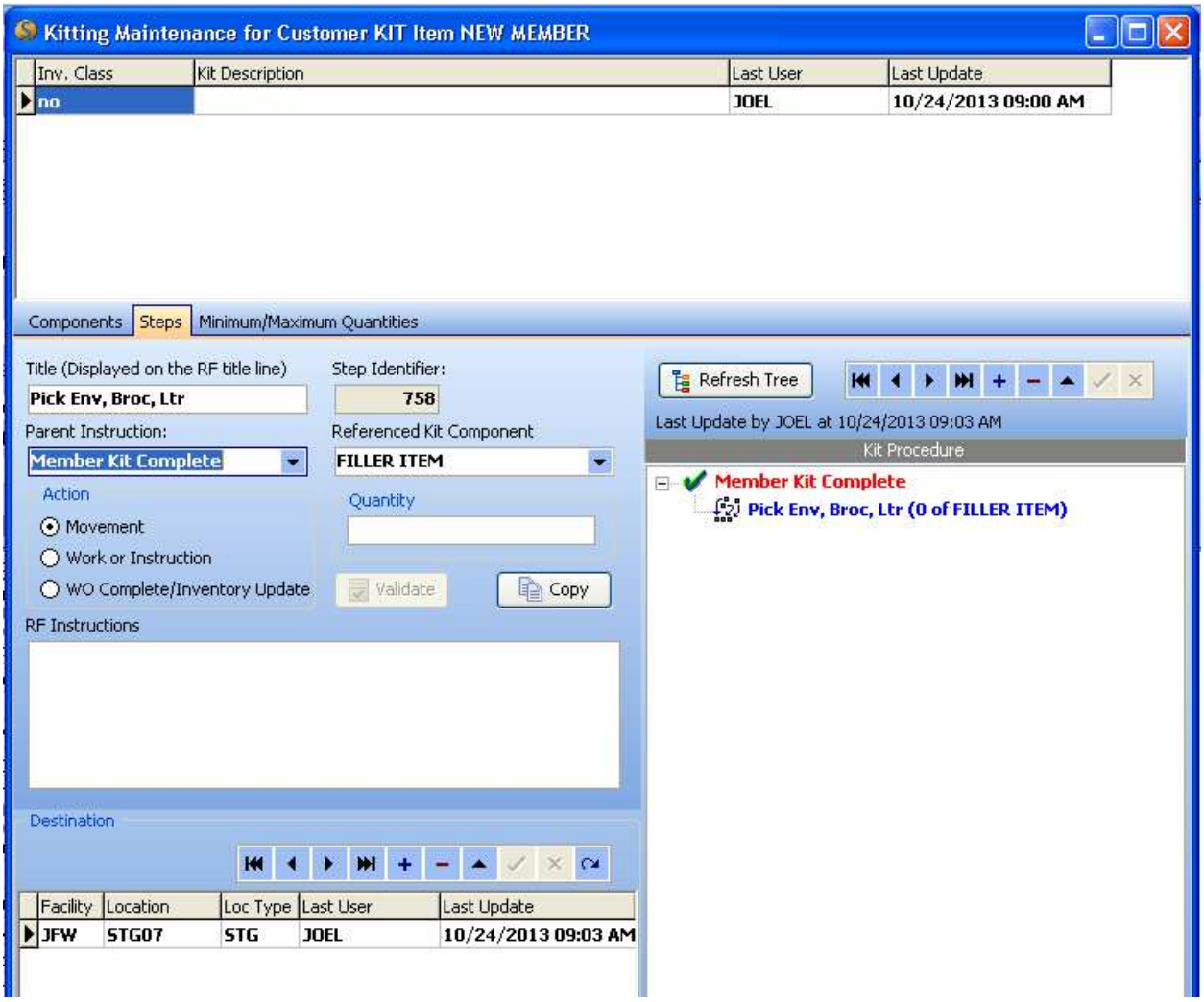
Setting up the component kit.

On the Components tab, select the dummy/filler item. Set the quantity = 1.

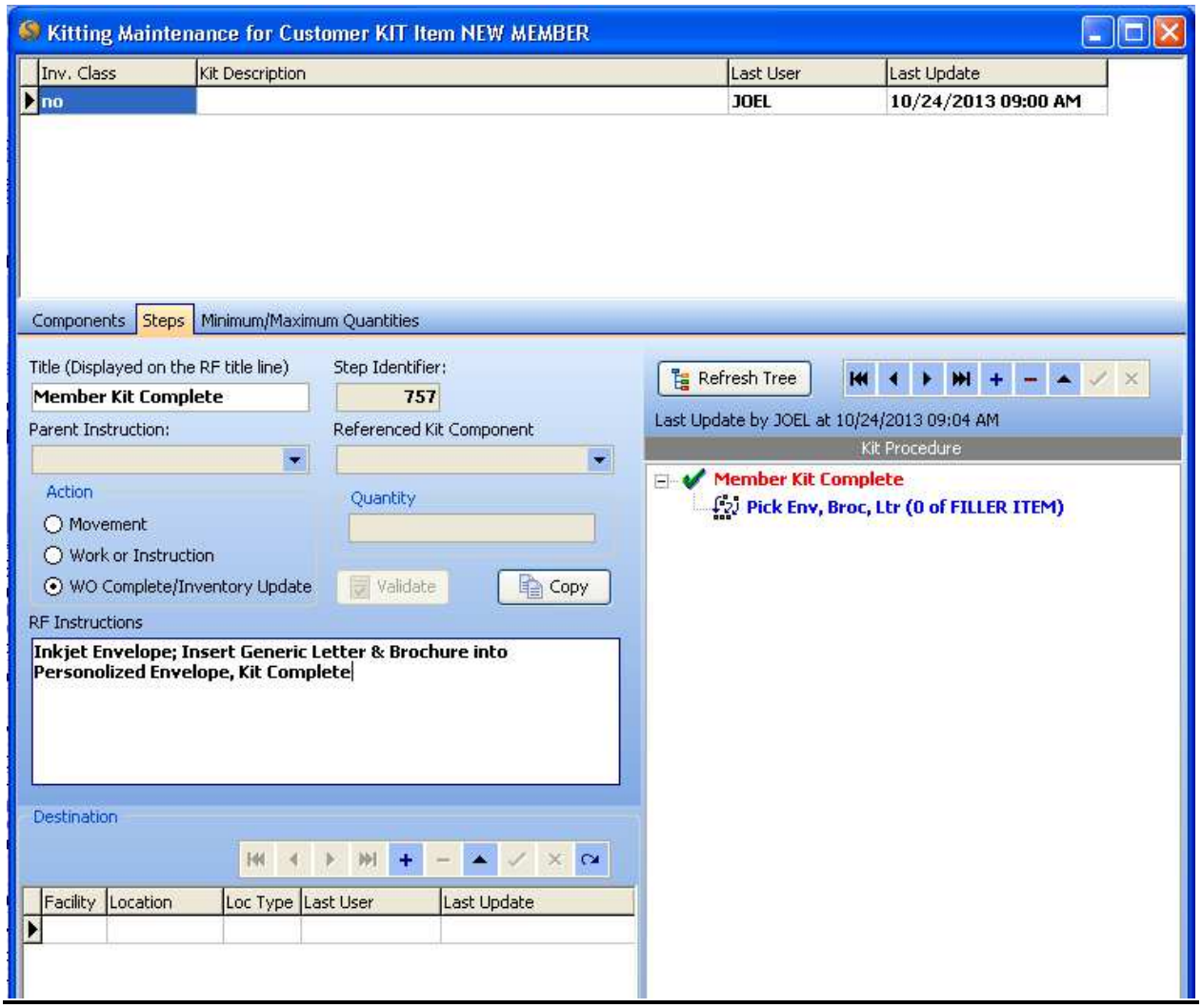


Each kit consists of only 2 instructions to be added on the Components tab:

- 1 Movement Action (example in the panel below)
  - No RF instructions need to be added here.
  - The Referenced Work Order Component is the dummy/filler item that was added on the Components tab.
  - The parent step will be the WO Complete/Inventory Update.
  - If the Component Kit always uses the same destination location for the kitting operation, enter it here.



- 1 WO Complete/Inventory Update Action (as shown in the panel below)
  - Add the RF instructions here
  - This becomes the parent instruction for the Movement.

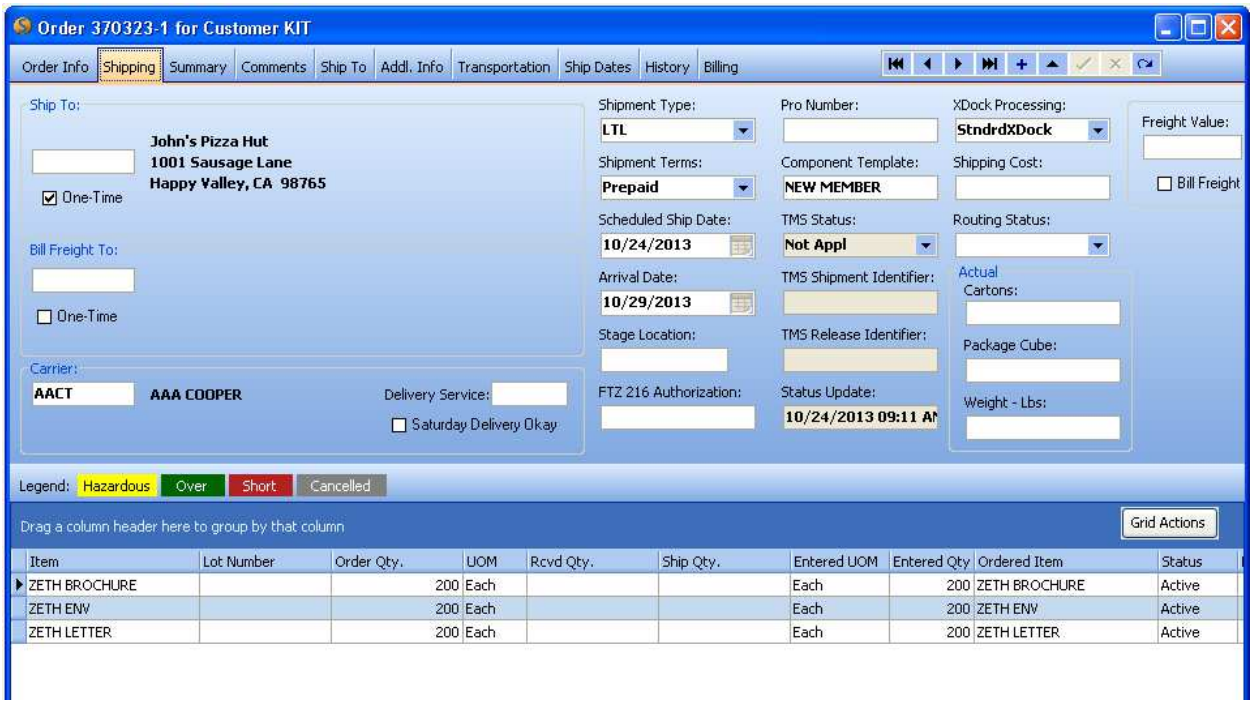


No Minimum/Maximum Quantities tab values are filled in as this applies to Make to Stock regular kitting.

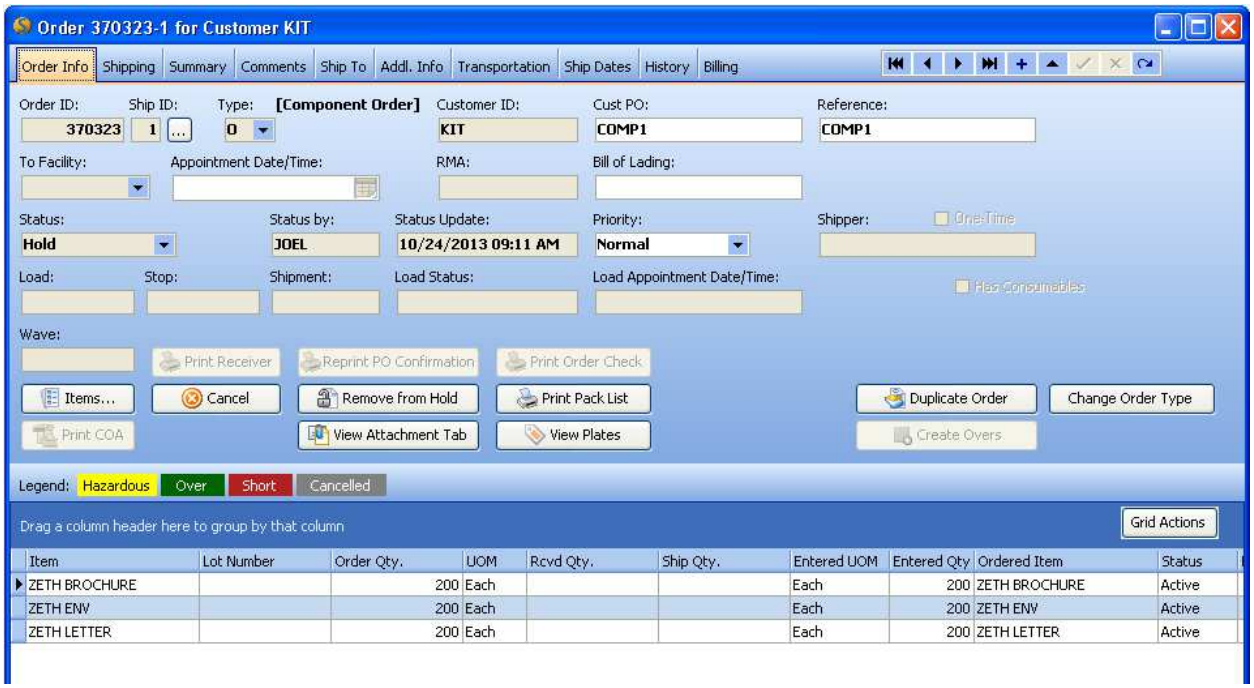
Sample Order

The order is entered as an outbound order.

When entering the order, on the shipping tab select the appropriate template in the Component Template box. The Component Template for this order is “NEW MEMBER”. This will flag the order for component processing.



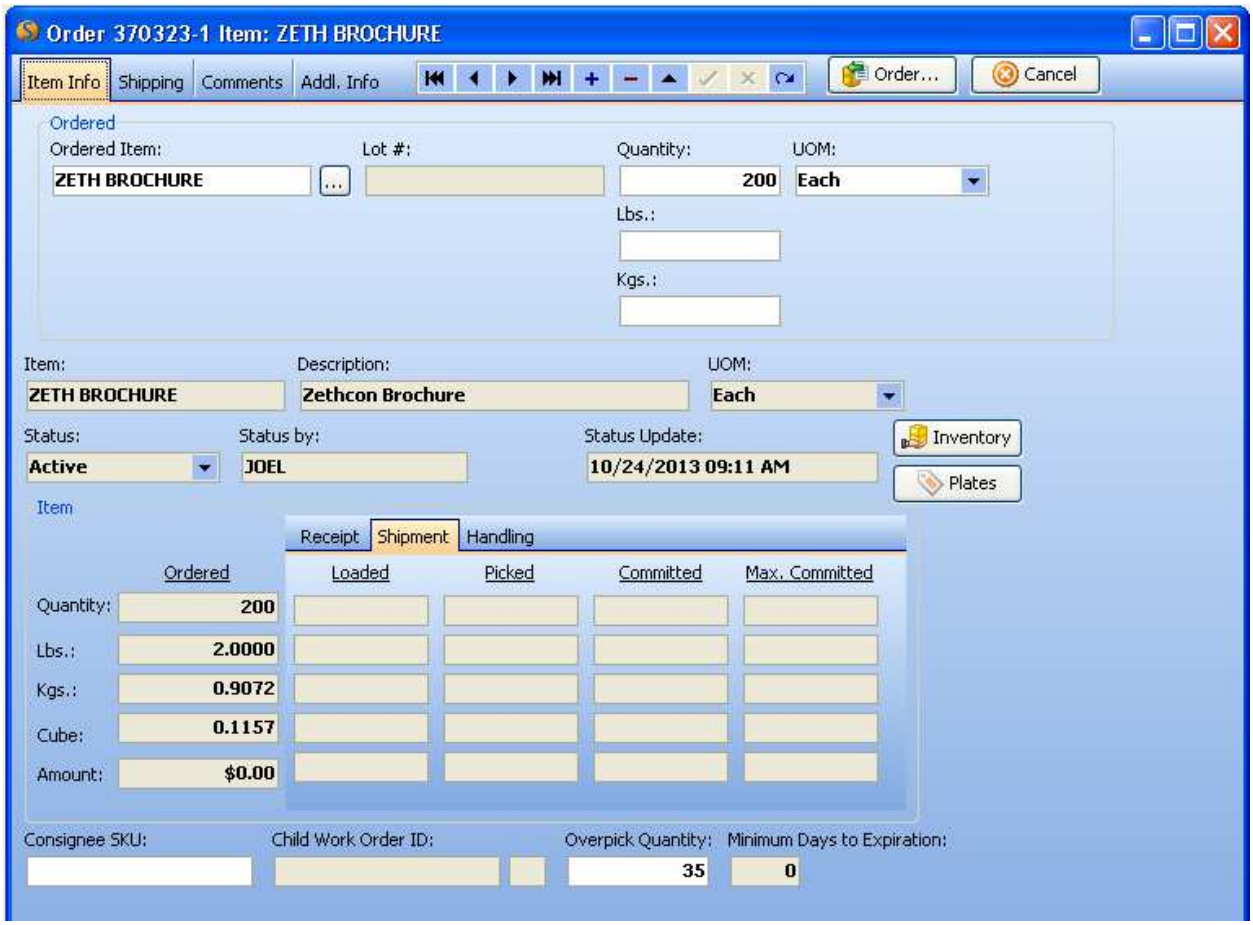
After the order is linked to a component template, the message, [Component Order] will appear to the right of the title, "Type:", in the upper left quadrant.



- Add all the item detail lines that are part of the kit and enter the quantity for the kit in the normal quantity field in the top entry row. (As shown on the panel below).
    - The quantity for each order detail should be the same.

- The final quantity for the outbound order cannot be higher than the quantity entered in the order detail lines.
- It is assumed that there is a 1 to 1 relationship of the items ordered.
- Component Template Kitting does not support Lot # and Serial # tracked items.

- Each item allows an overpick quantity that may be used for print run testing, etc. This quantity will be picked as part of the order. Enter the Overpick Quantity in field in the bottom row – right side. (As shown on the panel below) If no overpick quantity is entered, 0 is assumed. The overpick quantities for all the items in the order do not need to be the same.



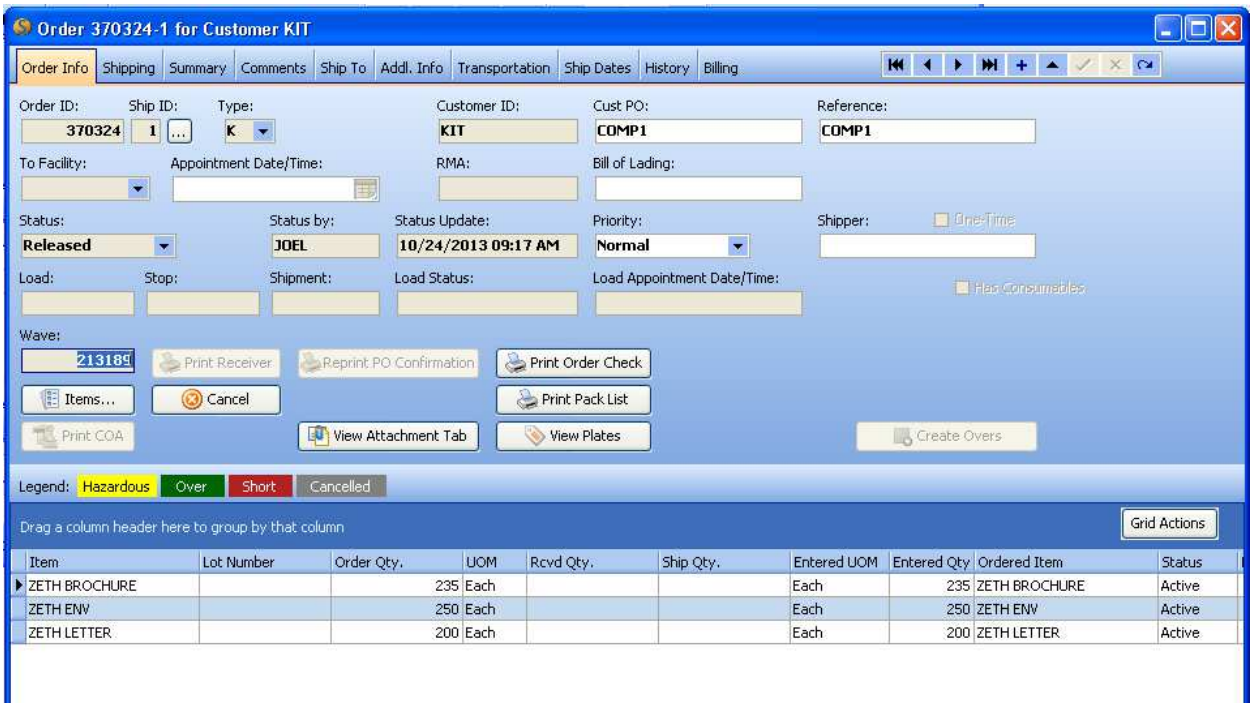
The order should be wave planned and released.

Upon wave planning, the commitments will be shown on the outbound order.

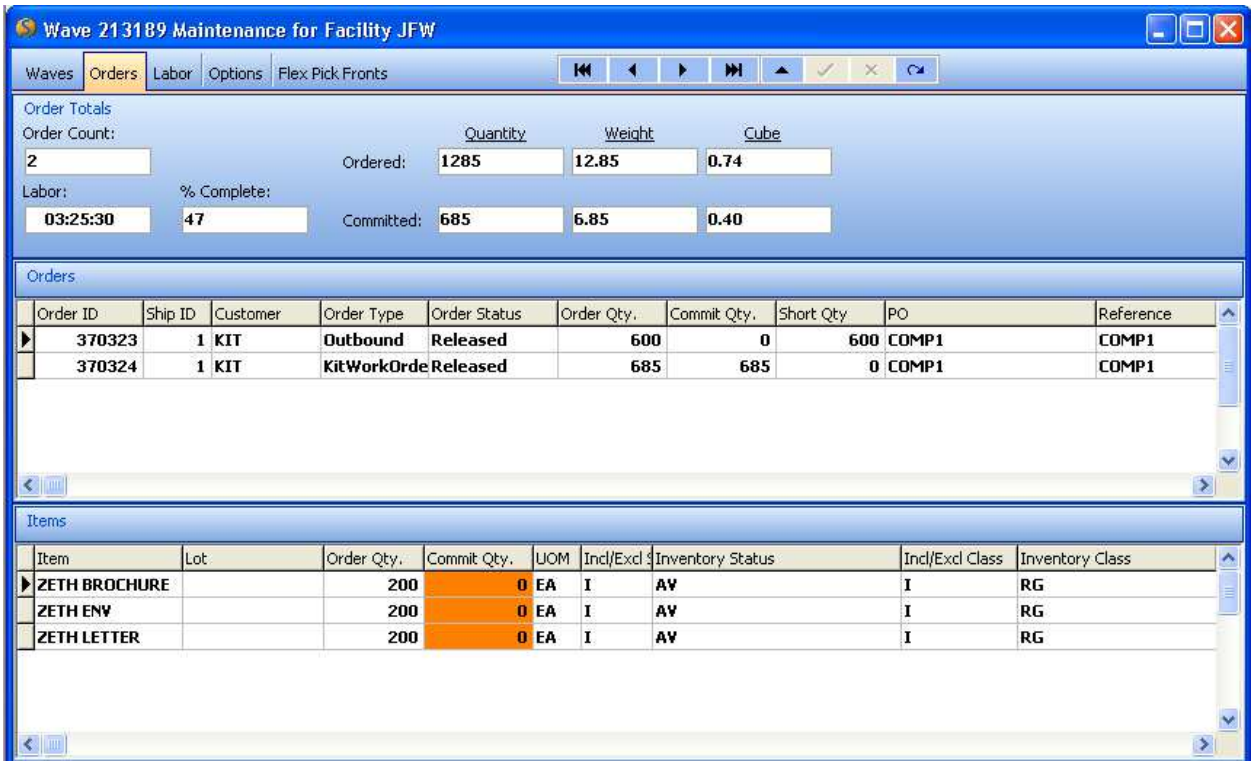
Releasing the Wave/Creating the Kit Work Order

When the wave is released, a Kit Work Order is created.

- The commitments from the outbound order are transferred to the Kit Work Order.
- The order lines of the Kit Work Order reflect the ordered quantity and the Overpick quantity.

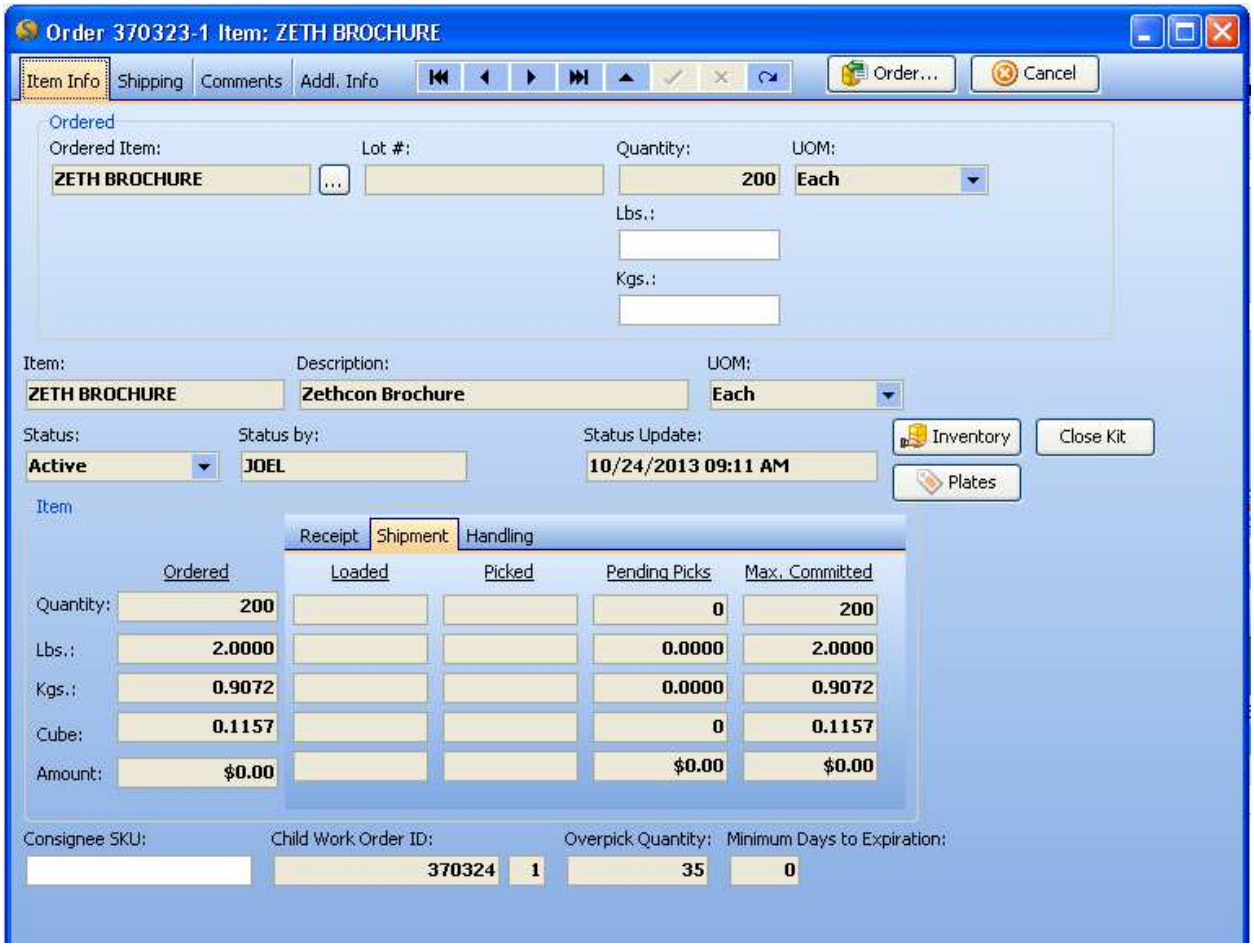


Above is a sample of KitWorkOrder created by wave release.

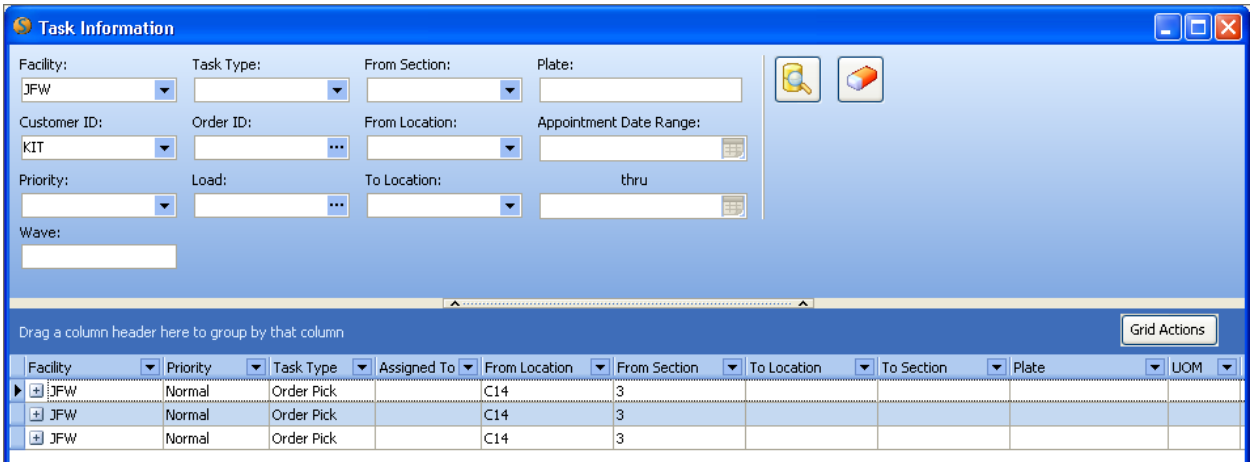


Above is a sample of the Wave Release Orders tab.

- To lookup the kit work order that is associated with the Outbound order, look on the Outbound Order Item Tab in the lower Line in the “Child Work Order ID:” Display box. (Shown on the panel below) or the Wave Release Orders tab.



- Order Pick tasks are created for each item in the KitWorkOrder. (Shown on the panel below)



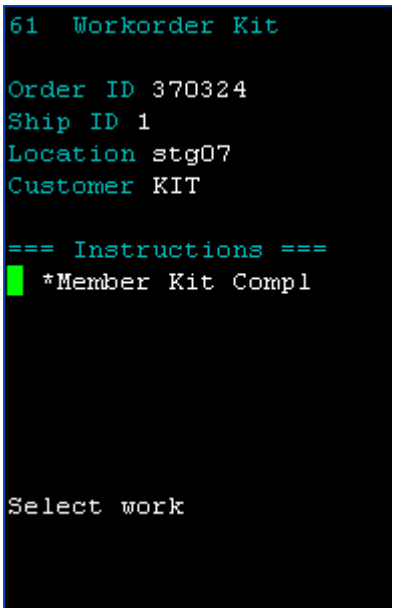
In this example, all three items had an order quantity = 200.

Overpick quantities were:

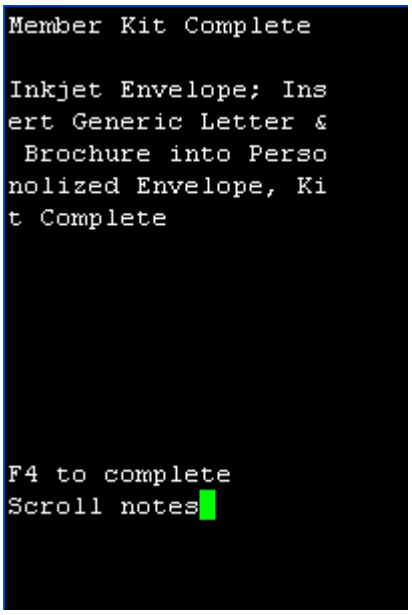
ZETH BROCHURE	35
ZETH ENV	50
ZETH LETTER	0

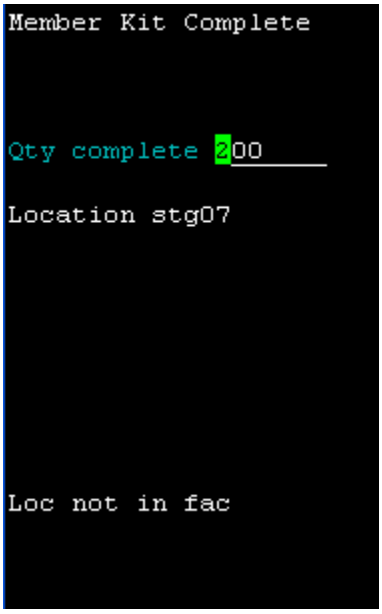
Complete the order picks for the KitWorkOrder for all the items and stage the items at the Kitting location.

When the inventory is staged at the kitting location, start the kitting. The order id for the kitting is the KitWorkOrder.

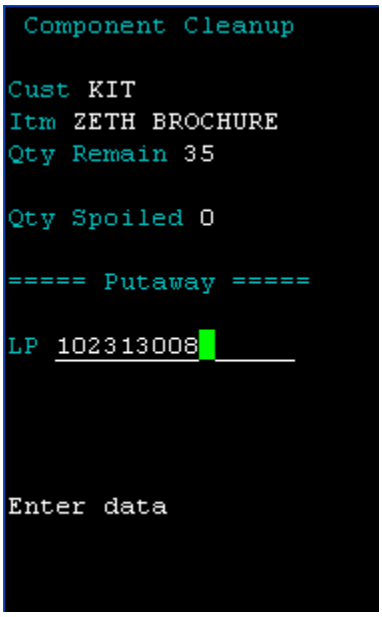


The example above shows the workorder available at location INKJET.

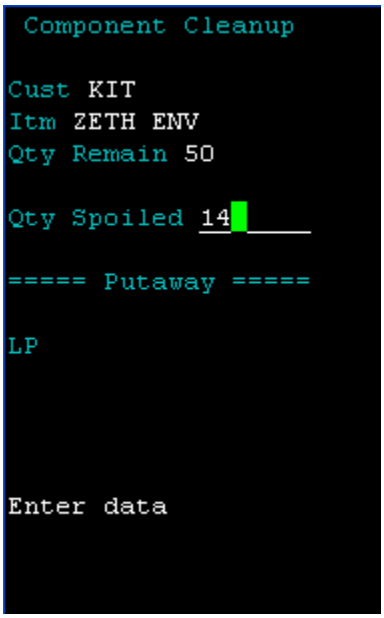




The example above shows a completed quantity of 200. This includes 200 of each component item.



The example above shows that there were 35 left for item “ZETH BROCHURE”. No inventory was spoiled for “ZETH BROCHURE” so all 35 will be placed on a Lip and a putaway task will be generated.



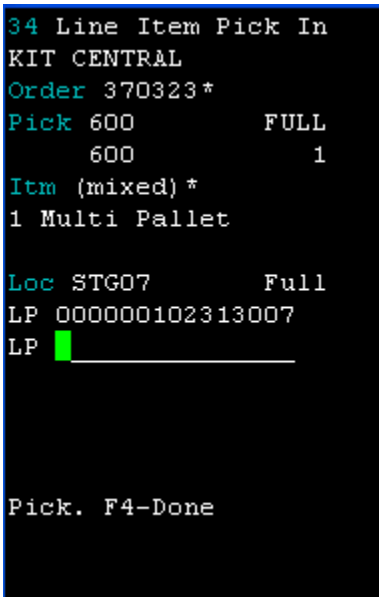
The example above shows that there is a quantity of 14 for ZETH ENV that is spoiled.

At this point there are:

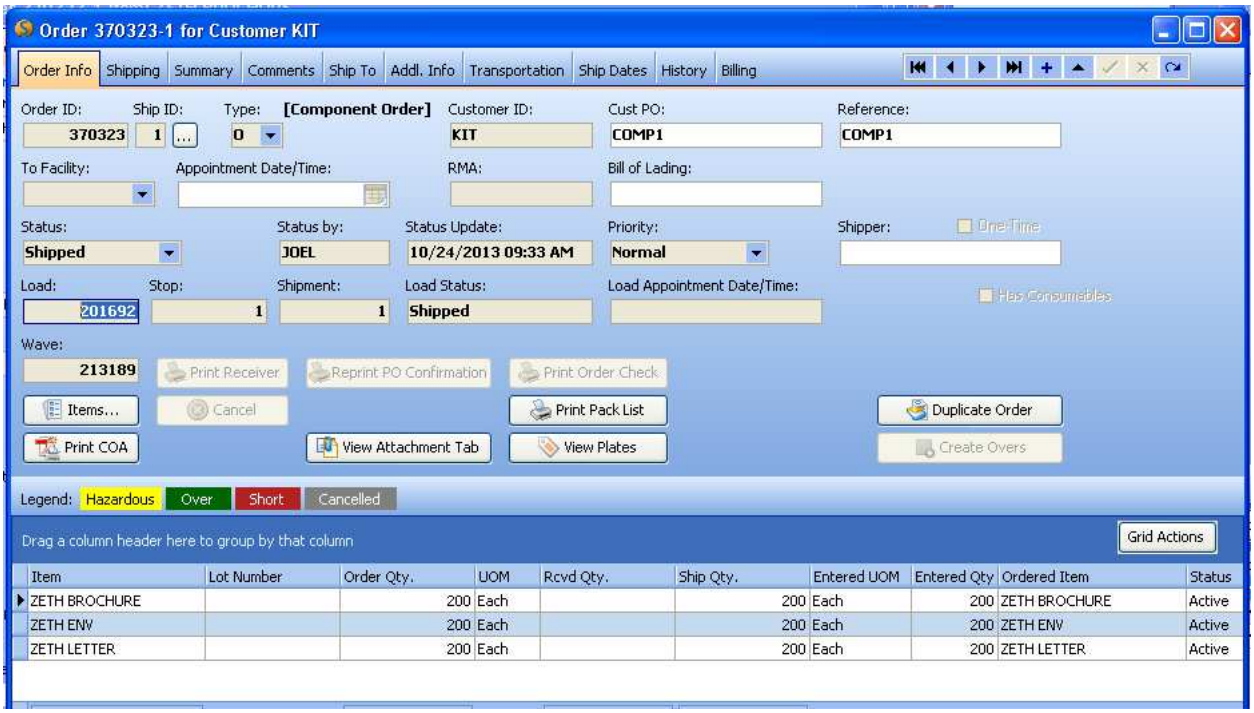
- 2 putaway tasks for non spoiled inventory -- ZETH ENV (QTY 36 (50 – 14 spoiled – example shows LP 60844 created for non-spoiled inventory to be returned to stock)) and ZETH BROCHURE (QTY 35)
- No putaway tasks for ZETH LETTER as it had no overpick quantity and thus any spoilage or overpick.
- 1 Line pick task for the original order (3441) for lip 61810. This order will be picked and shipped normally.

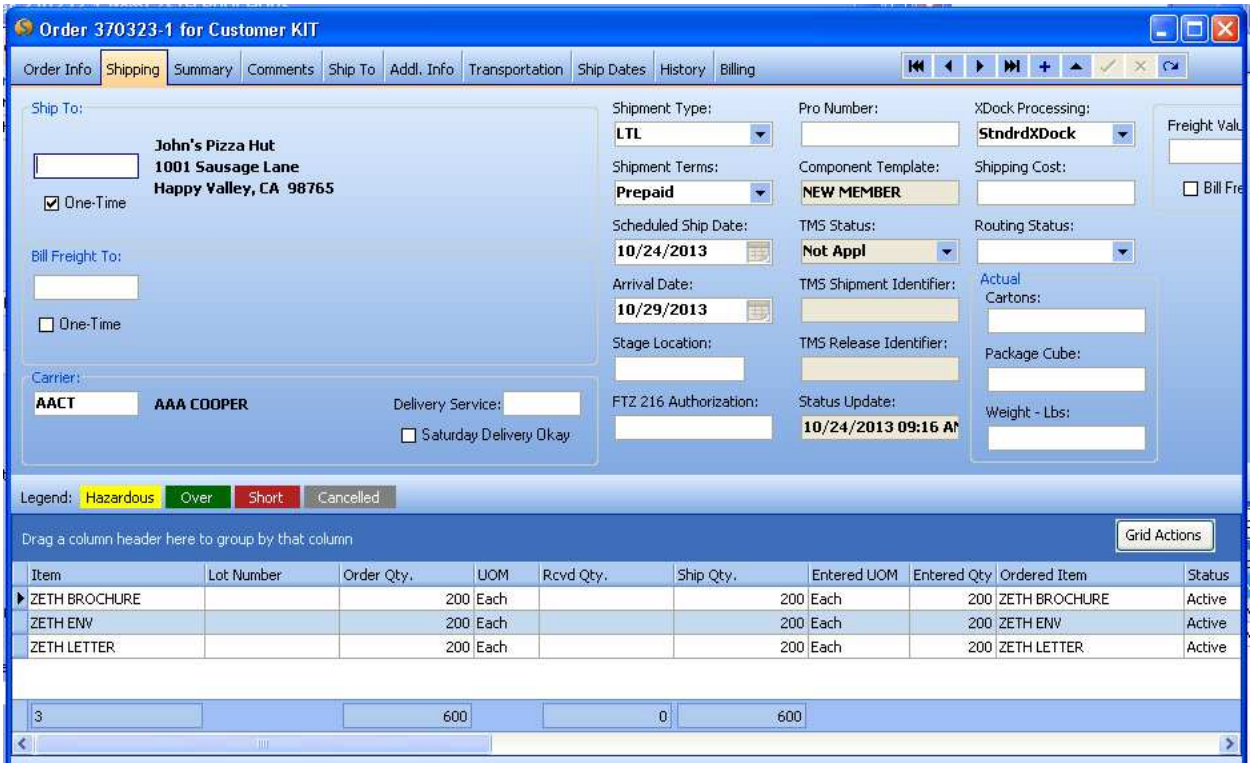
The kit created the Multi-Pallet lip 61810 as shown below:

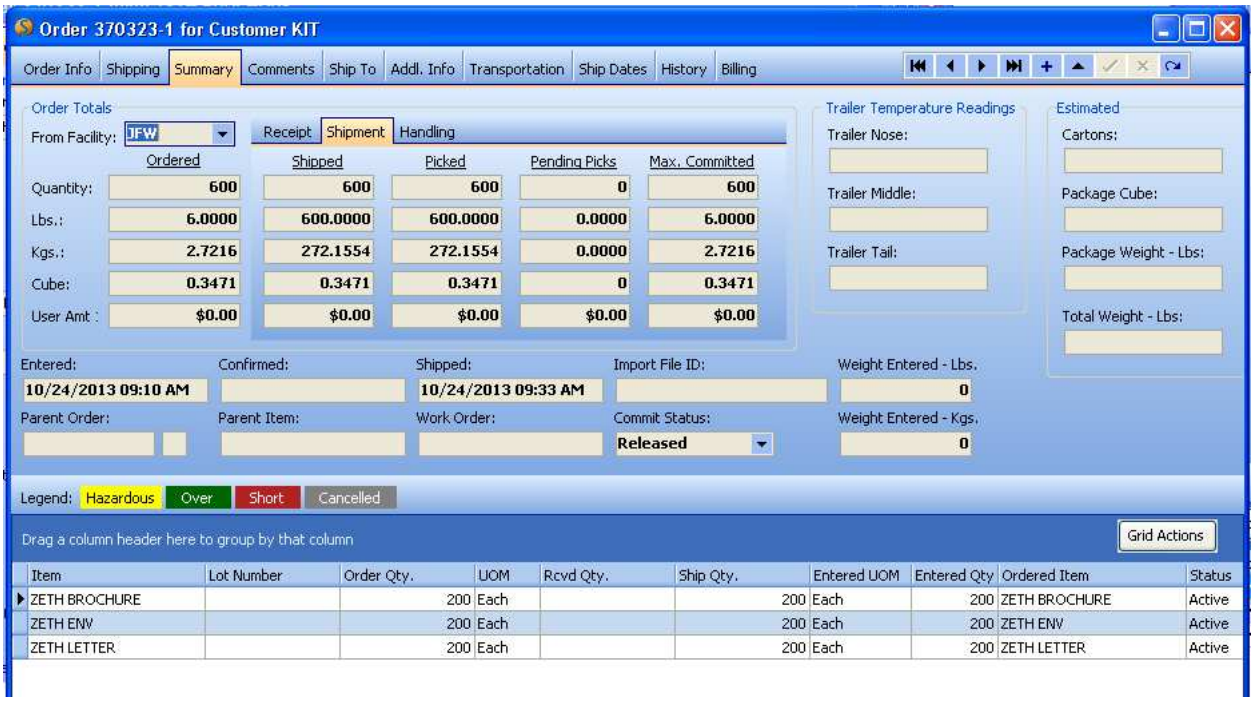
1 Line Item Pick task is generated for the outbound order to pick the output of the kit and stage it for regular shipping processing.



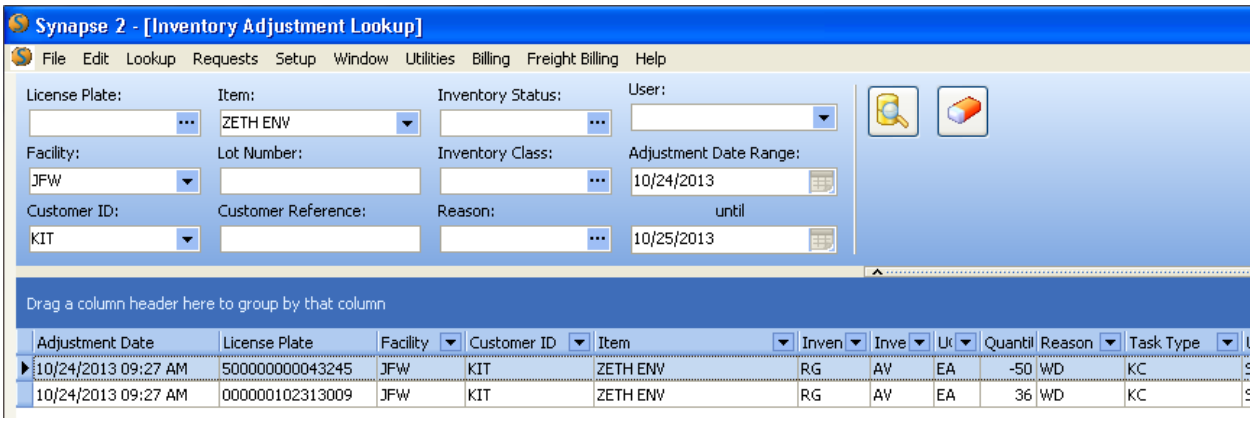
After picking and staging, the order is shipped. The three panels below show the Order Info, Shipping and Summary tabs for the shipped order.







Item ZETH ENV was adjusted for the 14 spoiled.



RF Processing

After the picker completes the order pick tasks for the Kit Work Order and stages the picks at the Kitting area, the Kitting Activity can start. The following modifications were made to the existing RF Kitting processing for component template processing.

- During kit completion, the user cannot "build" more than was in the original order regardless of the quantity remaining.
- After the quantity ordered has been built (in kit completion) the user will be taken to a cleanup screen. At the top will be displayed the item and remaining quantity. The user can enter a spoilage quantity and/or an LP. If any spoilage is entered, that amount will be adjusted down using the (system default – see more details below) SPOILAGEREASON and the normal inventory adjustment logic. If an LP was entered, the difference between remaining and spoiled will be placed on the plate and a putaway task for the LP will be generated. The LP can be either a new plate or one that is part of the kit and has the same item. Note that the plate may be deleted since kitting automatically deletes plates during completion. If a deleted plate is entered, it will be restored but it must be for the kit and the same item. After an item has been processed, the next (if any) will be automatically displayed.
- The cleanup screen can be exited before all items have been processed and later re-entered via the F6 key from kit completion.
- The plates created during kit completion are master plates (MP) and each child contains one of the components.
- The RF handling of picks for the master plates is similar to that used for return-to-vendor and transfer orders - i.e. no picking overrides are allowed and only confirm container is allowed/forced on the picker.
- The plates created by kit completion for component template kitting cannot be dekitted. (Dekitting is only applicable in Make-to-Stock and Make-to-Order kitting where the new sku is dekitted into the component sku's.)

Other Notes for Component Template Kitting:

- Kit billing charges are posted against the single component template item; not the individual component items.
- After a kit work order has been picked, the commitments will be transferred to the parent outbound distribution order. At this point, the parent outbound distribution order will "appear" to have pending picks.
- Whenever picking is performed for a kitting order (these include CWOs), the status of the parent order (these include DOs and made to order kits) are no longer updated. If the parent order is a make to stock workorder, then the status is still updated since this type of order is never picked.

Special Component Kit Processing for outbound orders using Multi-Ship processing.

In situations where inventory is only defined and processed in the base UOM (for example, sheets of paper), the MultiShip processing requires a license plate for each piece that is to be picked for shipping. Outbound orders above a small quantity are unmanageable. Additional logic was added to the Component Kit processing to allow the kitting step to consolidate or "package" the individual units of inventory into larger license plates prior to the MultiShip processing.

1. Set up a component template kit item for this purpose.

2. Add the outbound order with the following information so that the Kitting process will **recognize** the order for this component kit/multiship processing.

    a. Shipment type should be "S" for Small Package

    b. The carrier chosen should have "Small Package Carrier" and MultiShip Processing checked yes on the carrier form.

    c. The pick to type (Item Specs / UOM) for item that is the component template should be PACK.

    d. Choose the Component Template created for this purpose.

    e. Add the line items with no over pick quantities. The quantities of the line items do not need to be equal.

3. Wave Plan and release the wave.

4. Pick the kit order. Each item can be on a separate plate for input into the kitting process or can be a multi-plate.

5. Kit the order creating the output license plate(s).

6. The process will switch to the Component Packaging logic.

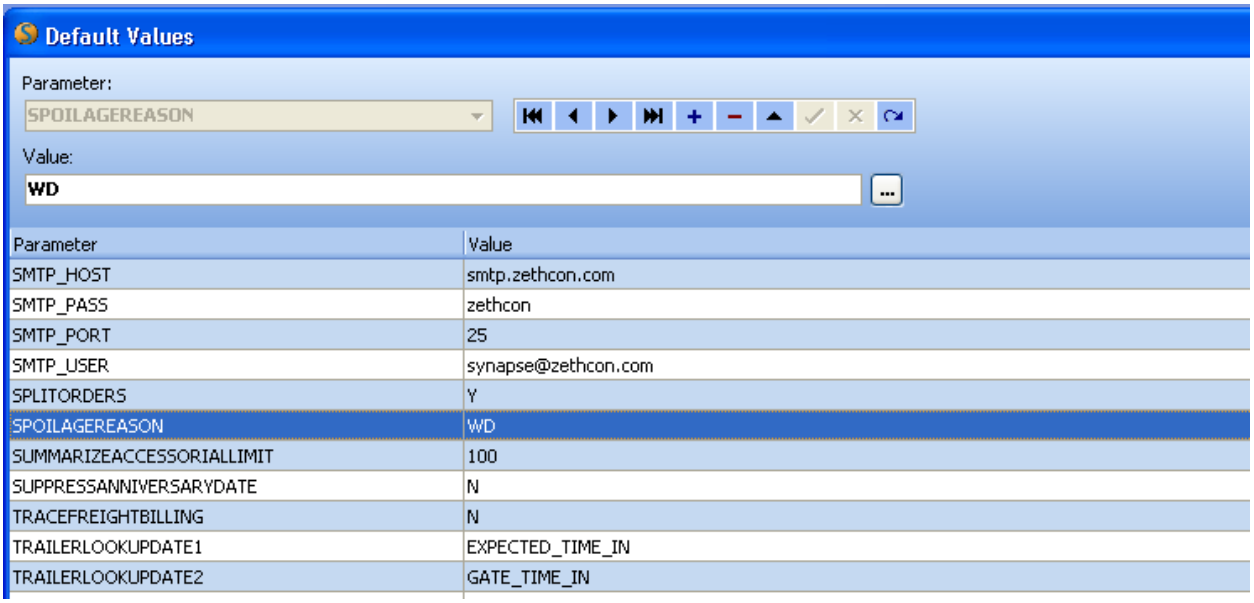
    a. This allows the user to combine all the individual items at the base UOM into a larger LP for shipping.

    b. The processing for spoilage and putaway of excess inventory found in component template kitting does not apply to this processing.

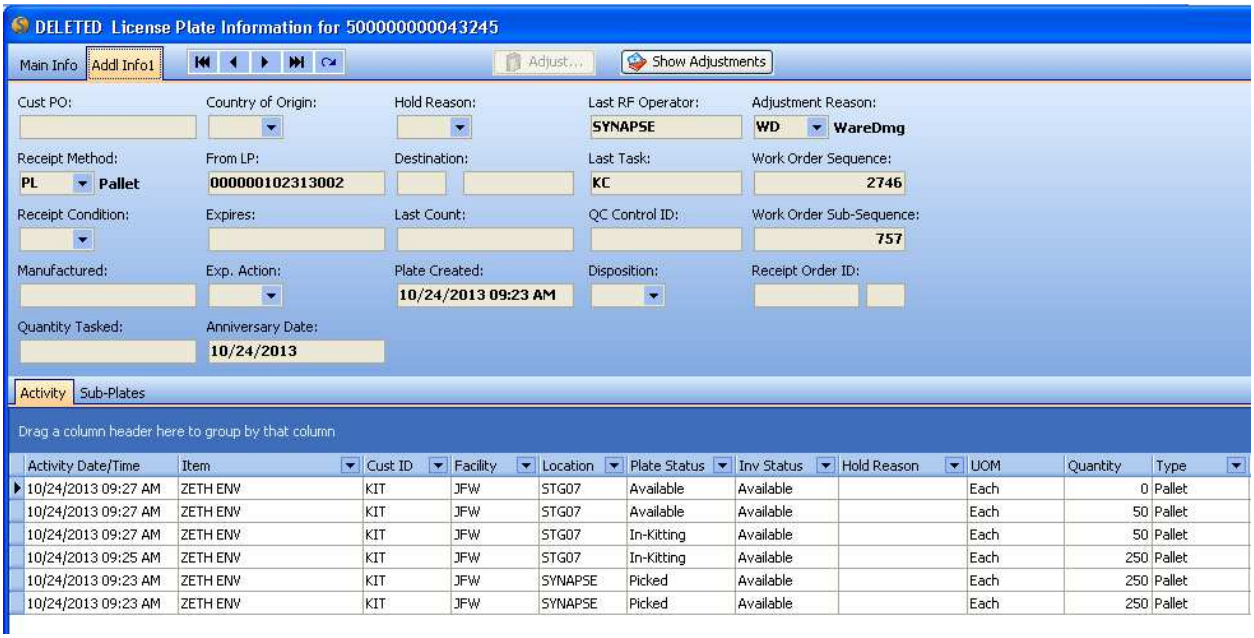
7. After the consolidation process, line picks will be generated for the newly created license plates. Picking and shipping via the MultiShip processing should proceed normally.

Spoilage Reason Code

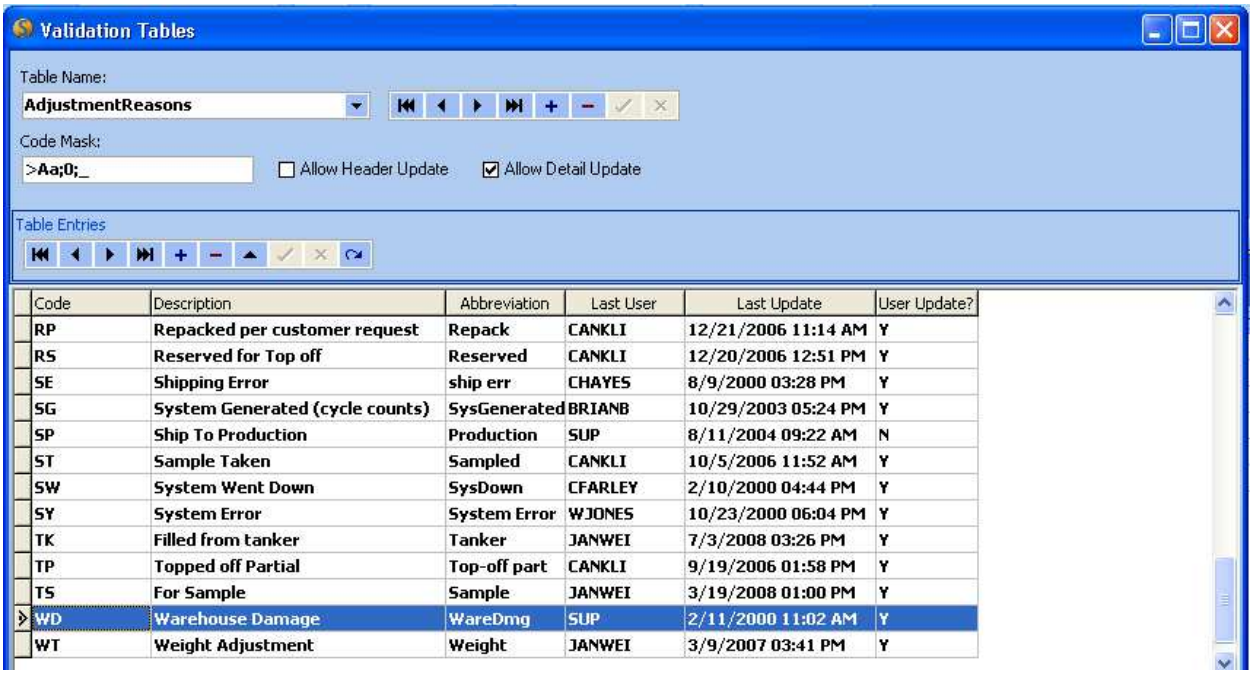
The Spoilage reason code for the processing is added via the Default Values Table using the SPOILAGEREASON parameter as shown in the panel below.



The inventory spoiled at the end of the component kit process will show this as the Adjustment Reason.



The value in the SPOILAGEREASON parameter must be an entry in the AdjustmentReasons Validation Table as shown in the panel below.



Code	Description	Abbreviation	Last User	Last Update	User Update?
RP	Repacked per customer request	Repack	CANKLI	12/21/2006 11:14 AM	Y
RS	Reserved for Top off	Reserved	CANKLI	12/20/2006 12:51 PM	Y
SE	Shipping Error	ship err	CHAYES	8/9/2000 03:28 PM	Y
SG	System Generated (cycle counts)	SysGenerated	BRIANB	10/29/2003 05:24 PM	Y
SP	Ship To Production	Production	SUP	8/11/2004 09:22 AM	N
ST	Sample Taken	Sampled	CANKLI	10/5/2006 11:52 AM	Y
SW	System Went Down	SysDown	CFARLEY	2/10/2000 04:44 PM	Y
SY	System Error	System Error	WJONES	10/23/2000 06:04 PM	Y
TK	Filled from tanker	Tanker	JANWEI	7/3/2008 03:26 PM	Y
TP	Topped off Partial	Top-off part	CANKLI	9/19/2006 01:58 PM	Y
TS	For Sample	Sample	JANWEI	3/19/2008 01:00 PM	Y
WD	Warehouse Damage	WareDmg	SUP	2/11/2000 11:02 AM	Y
WT	Weight Adjustment	Weight	JANWEI	3/9/2007 03:41 PM	Y