

VistA Blood Establishment Computer Software (VBECS) 2.3.2 Rev F

Release Notes Version 1.0

Department of Veterans Affairs Enterprise Project Management Office This page intentionally left blank.

Revision History

Date	Revision	Description	Author
		VBECS 2.3.2 Rev F	
07/01/20	1.0	Initial version	BBM Team

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Introduction

VistA Blood Establishment Computer Software (VBECS) 2.3.2 Rev F Release Notes contains information for changes and corrections made to VBECS in the 2.3.2 Rev F patch.

Perform a local evaluation and risk assessment of the changes to determine the requirements for local validation of the changes, including documentation of the assessment activities. See Validation Planning.

Changed Features and Functions

This revision letter patch release is centrally focused around enhancing and resolving issues with CPRS Blood Bank Report, providing solutions to customer reported issues, and providing additional blood product updates released from International Council for Commonality in Blood Banking Automation, Inc. (ICCBBA) in releases 7.36.2 through 7.37.0. In addition, VBECS System Maintenance fixes (untestable by the user) are included.

Table 1: Updates by Option provides a complete list of included changes.

For a full list of new product codes see Tables 2, 3 and 4.

Untestable System-Level Maintenance Changes

- Workload Processing
 - Successfully processed workload records retransmitted by VistA won't cause database errors.
- VBECS Database
 - Database changes suggested by Microsoft Data Migration Assistant in preparation for future upgrade to SQL Server 2016.
- VistA Mailman
 - Mailman will now report on both Version 2.0 along with Version 1.0 patches.

VistA Software Dependencies

• VBEC*2*8, LR*5.2*535, and OR*3*527

CPRS Blood Bank Report changes described in Table 1 rely on these VistA patches. If you notice that your report does not contain these changes, please contact your local VistA administrator to verify that all three patches were installed.

VBECS User Documents

The following is a list of all the VBECS user documents that apply to the VBECS 2.3.2 Rev F patch release. The **Updated** column identifies the documents that have been updated with this VBECS 2.3.2 Rev F revision letter patch release.

These user documents are available from the VA Software Document Library (VDL) at <u>https://www.va.gov/vdl/application.asp?appid=182</u>.

User Document	Version	Updated
VistA Blood Establishment Computer Software (VBECS) 2.3.2 User Guide	5.0	Yes
VistA Blood Establishment Computer Software (VBECS) 2.3.2 Administrator User		
Guide	3.0	No
VistA Blood Establishment Computer Software (VBECS) 2.3.2 Known Defects and		
Anomalies	4.0	Yes
VistA Blood Establishment Computer Software (VBECS) 2.3.2 Technical Manual-		
Security Guide	2.0	Yes
VistA Blood Establishment Computer Software (VBECS) - Echo Interface		
Configuration and Setup Guide	5.0	No
VistA Blood Establishment Computer Software (VBECS) - Erytra Interface		
Configuration and Setup Guide	2.0	No
VistA Blood Establishment Computer Software (VBECS) - ProVue Interface		
Configuration and Setup Guide	5.0	No
VistA Blood Establishment Computer Software (VBECS) - Vision Interface		
Configuration and Setup Guide	4.0	No

The following is a list of all the VBECS FAQ documents that apply to the VBECS 2.3.2 Rev F patch release. The **Updated** column identifies the documents that have been updated with this VBECS 2.3.2 Rev F revision letter patch release.

FAQ Document	Version	Updated				
FAQ ABO subgroup Interpretations	11/22/16	No				
FAQ Ancillary VistA Validation	11/28/17	No				
FAQ Antibodies with No Antigen Negative Requirement	10/15/14	No				
FAQ Blood Product Table Processes	03/28/19	No				
FAQ CAP Comprehensive Transfusions Medicine Crossmatch Survey	11/22/16	No				
FAQ Compound Antibodies	02/27/13	No				
FAQ CPRS VBECS Order Details	04/01/09	No				
FAQ Database Conversion Oddballs	09/15/09	No				
FAQ Documenting Unhandled Exceptions	05/21/07	No				
FAQ Handling ABO Incompatible Transfusion Situations	09/23/14	No				
FAQ How to File a New Service Request for Changes to VBECS	12/08/16	No				
FAQ How to take faster screen shots from Remote Desktop Session	12/17/14	No				
FAQ Identifying a Comparable Blood Product Code	03/28/19	No				
FAQ Local Facilities	06/12/20	Yes				
FAQ Modification Target Not Available	11/28/17	No				
FAQ Multidivisional QC Rack Workaround	11/28/17	No				
FAQ Order Status Clarification	11/15/17	No				
FAQ Polyspecific AHG Not Used for Testing	01/29/10	No				
FAQ Proper Use of PIV Card with VBECS	11/04/19	No				
FAQ QC Setup	01/29/10	No				
FAQ Retesting QC	11/01/11	No				
FAQ Retrieving an Expired Order	12/07/17	No				
FAQ The Difference Between Transfusion Only and Full Service Facility Types	02/08/10	No				
FAQ VBECS Blood Product Hierarchy	03/28/19	No				
FAQ VBECS Computer Crossmatch Decision Tree02/08/1						
FAQ Weak D Policy	01/11/10	No				
FAQ Workload Assignments Single vs Batch Processing	07/01/20	Yes				

These FAQ documents are available from the VA SharePoint site at **REDACTED**.

Customer Support

Problems?

Contact your Local Office of Information Technology (OIT) or Laboratory Information Manager (LIM) if you encounter VistA or CPRS connection problems and for training support <u>before</u> contacting the Service Desk (SD).

- Please ensure local contact information is available at all times. SD support will engage Enterprise Operations (EO) personnel as needed.
- Problems with connectivity to VistA and CPRS may require personnel from EO with VBECS server administrator access and VistA IT support access.
- If you experience a Food and Drug Administratin (FDA) reportable adverse event (patient death or serious injury) that VBECS may have caused or contributed to, contact the Service Desk directly to enter a ticket for Blood Bank software support.

<u>If the problem remains unresolved after local VistA triage</u>, call the Service Desk (below) and specify the Enterprise Application be set as VistA Blood Establishment Computer Software. This will cause the Assignment group to default to NTL Alert Blood Bank & VBECS, which alerts the Clin2 team.

Service Desk Contact

REDACTED.

References

- ISBT128 Standard Technical Specification v 5.10.0
- Blood Product Revisions ICCBBA Version 7.37.0, June 5th 2020

VBECS SharePoint Site

The VBECS SharePoint site provides a location for additional information related to the VBECS application such as FAQs, installation status, and release history.

REDACTED.

Installation Qualification (IQ) Documentation

The expedited patch installation process will continue with the installation of VBECS 2.3.2 Rev F.

	Test Account Upgrade to VBECS 2.3.2 Revision F							
Required Patch Installation	VistA Patch: VBEC*2*8, LR*5.2*535, and OR*3*527 Server Patch: VBECS 2.3.2 Revision F							
Installation Process for VBECS 2.3.2 Rev F	Installed by the BBM team, all sites will be installed in one day. The date of installation will be communicated through a ListServ announcement.							
Installation Process for VBEC*2*8, LR*5.2*535, and OR*3*527	Installed by IT Support Staff according to patch description and local policy.							
Expected Downtime	None							

Installation Communication for VBECS 2.3.2 Rev F	The planned completion time for all test installs will be provided on the VBECS SharePoint site.
Site Responsibility	 Join VBECS-L message board on ListServ, if needed. Please communicate any changes to your site supervisor and Point of Contact (POC) since the last patch install to the BBM team to the email group "VA OIT BBM Team".
Site Record of Patch Installation	Sites should take and save a screenshot of the VBECS Help, About window after the Test installation is performed. This displays the VBECS updated version information.

	Production Account Upgrade to VBECS 2.3.2 Revision F
Required Patch	VistA Patch: VBEC*2*8, LR*5.2*535, and OR*3*527
Installation	Server Patch: VBECS 2.3.2 Revision F
Installation Process for VBECS 2.3.2 Rev F	Installed by the BBM team, all sites will be installed in one day. The date of installation will be communicated through a ListServ announcement.
Installation Process for VBEC*2*8, LR*5.2*535, and OR*3*527	Installed by IT Support Staff according to patch description and local policy.
Expected Downtime	You will be able to use VBECS during the patch installation. VBECS installation on your production account only lasts a few minutes and is invisible to users.
	If you encounter any disruption or errors while viewing or printing reports during the installation, try again after a few minutes.
Installation Communication for VBECS 2.3.2 Rev F	The status of production installs will be provided on the VBECS SharePoint site.
Site Responsibility	 Perform local validation, training, and set-up requirements prior to Production installation. Join VBECS-L message board on ListServ, if needed. Please communicate any changes to your site supervisor and Point of Contact (POC) since the last patch install to the BBM team to the email group "VA OIT BBM Team".
Site Record of Patch Installation	Sites should take and save a screenshot of the VBECS Help, About window after Production installation is performed. This displays the VBECS updated version information.

Validation Planning

The following is a flowchart to help assess changes for validation planning.

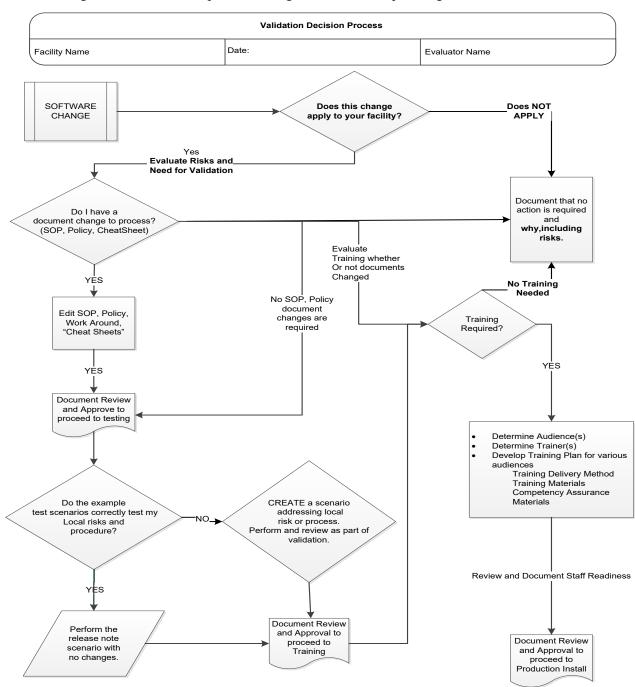


Table 1: Updates by Option

ID	Option	Problem Summary	Change Summary	Validation Scenario	Change applies to my facility. (Y/N)	Local risk Assessment (Low, Med, High)	SOP revision required. If yes, identify it.	Staff training needed. (Y/N)	Scenarios or validation must be performed. (Y/N)
1	CPRS Blood Bank Report	Enhancements and defect fixes in CPRS Blood Bank Report.	Added patient's antigen negative requirements and component requirements right after patient's antibodies.	Validate that patient's antigen negative requirements and component requirements are now included in the report.					
			Added Issue Date, Product Code and Product Name to the Available/Issued Units section.	Validate that Available/Issued Units section contains Issue/Date (only for issued units, otherwise blank), Product Code and Product Name for each unit listed in that section.					
			Removed reaction strengths for DAT tests from the Diagnostic tests section. Added Specimen Collection Date and Specimen UID to this section.	Validate that for DAT tests the reaction strengths are no longer displayed. Only DAT interpretations are included. Also verify that Specimen Collection Date and Specimen UID are included in this section.					
			The report now distinguishes between two TAS tests performed at the same date and time. The report will now display results for both TAS instead of just one.	Perform validation only if you were directly affected by this defect. Run two TAS tests on two samples drawn from one patient in the automated instrument so that they complete at the same date and time. Accept results in VBECS and verify that both TAS results are showing on CPRS Blood Bank Report.					

ID	Option	Problem Summary	Change Summary	Validation Scenario	Change applies to my facility. (Y/N)	Local risk Assessment (Low, Med, High)	SOP revision required. If yes, identify it.	Staff training needed. (Y/N)	Scenarios or validation must be performed. (Y/N)
			Added reference range for ABS and DAT tests to the Diagnostic Tests section.	Validate that there is a new comment at the bottom of the Diagnostic tests section that describes reference ranges for ABS and DAT tests. (hint: you must have at least one ABS or DAT test result present for a given patient for the reference range comment to show).					
			Removed cancelled orders from Component Requests section of the report.	Validate that cancelled orders no longer show in the Component Requests section. Place any component order in CPRS. Verify that it shows in CPRS Blood Bank Report. Cancel an order in VBECS. Verify that the order no longer shows on the report.					
			Enhanced Transfused Units section of the CPRS Blood Bank Report. It now contains detailed information about each transfusion including Unit ID, Product Code, Product Name and Unit ABO/Rh.	Validate that the Transfused Units section of the report lists all patient's transfusions including Unit ID, Product Code, Product Name and Unit ABO/Rh.					
			Optimized the display of canned comments to have one comment display for entire antibody section instead of one comment per antibody.	No validation required.					

ID	Option	Problem Summary	Change Summary	Validation Scenario	Change applies to my facility. (Y/N)	Local risk Assessment (Low, Med, High)	SOP revision required. If yes, identify it.	Staff training needed. (Y/N)	Scenarios or validation must be performed. (Y/N)
2	Blood Products	Update blood product table with new ICCBBA blood product codes from version 7.36.2 through 7.37.0.	New blood products were added to VBECS. For a full list of new product codes for COVID-19 treatment, see Table 2. For all other blood products added by ICCBBA that are not related to COVID-19 treatment see Table 3. For possible modifications for new blood products see Table 4.	Validate only blood products that you may receive from your supplier. Use Tools, Blood Products to associate the blood products with an active facility.					
3	Cost Accounting Report	The value of Special Testing Cost displayed in the Incoming Shipment section of the report does not account for any cost correction made via Edit Financial Data option.	The value of Special Testing will now reflect any correction made.	Validate only if you were affected by this defect. Enter new blood unit into VBECS. Set its Special Testing Cost to a non- zero value. Go to Blood Units -> Edit Financial Data and modify special testing cost for this blood unit. Run Cost Accounting Report and verify that the modified Special Testing Cost shows in the Incoming Shipment section.					
4	Unit History Report	Name of Collection Facility in the Outgoing Shipment section does not show correctly if the facility name was changed after the shipment occurred.	The collection facility will show its original name if it was changed after the shipment occurred.	No validation required.					

ID	Option	Problem Summary	Change Summary	Validation Scenario	Change applies to my facility. (Y/N)	Local risk Assessment (Low, Med, High)	SOP revision required. If yes, identify it.	Staff training needed. (Y/N)	Scenarios or validation must be performed. (Y/N)
5	Invalidate Patient Test Results	VBECS would crash when trying to invalidate crossmatch on a blood unit that was quarantined during issue (units marked as unsatisfactory during issue).	VBECS will no longer crash.	No validation required.					
6	Record Locking	A defect caused some record locks to not clear properly preventing users from accessing patient records.	Record locks will now clear properly.	No validation required.					
7	CPRS Order Alert	Recently introduced VBECS CPRS Order Alert icon was causing locking issues in the database.	CPRS Order Alert icon will no longer negatively affect the performance of the VBECS database.	No validation required.					
8	Outgoing Shipment	Outgoing shipment type of "Send to other VA hospital" is unused.	Shipment type of "Send to other VA hospital" was removed from VBECS database.	No validation required.					
9	MSBOS	Spelling errors in the surgical procedure names for Maximum Surgical Blood Order Schedule (MSBOS).	Changed Esophogeal Resection to Esophageal Resection. Changed Esophogectomy to Esophagectomy. Changed Cholostomy to Colostomy. Changed Femoral-Popiteal Bypass to Femoral-Popliteal Bypass	No validation required.					

Component	Product Code	Modifiable	Product Type	Long Name	Short Name	Maximum Storage Hours
FRESH FROZEN			Apheresis	Apheresis CONVALESCENT PLASMA ACD-A/XX/<=-		
PLASMA	E9866	No	CONVALESCENT PLASMA	18C Not for tx or mnf COVID-19	PLASMA AFR Conv ACD-A NMT COVID-19	8760
FRESH FROZEN			Thawed Apheresis	Thawed Apheresis CONVALESCENT PLASMAJACD-	PLASMA Conv AFR Thaw ACD-A OPN	
PLASMA	E9867	Yes	CONVALESCENT PLASMA	A/XX/refg Open COVID-19	COVID-19	24
FRESH FROZEN			Thawed Apheresis	Thawed Apheresis CONVALESCENT PLASMA ACD-	PLASMA Conv AFR Thaw ACD-A OPN 1C	
PLASMA	E9868	Yes	CONVALESCENT PLASMA	A/XX/refg Open 1st container COVID-19	COVID-19	24
FRESH FROZEN			Thawed Apheresis	Thawed Apheresis CONVALESCENT PLASMA ACD-	PLASMA Conv AFR Thaw ACD-A OPN 2C	
PLASMA	E9869	Yes	CONVALESCENT PLASMA	A/XX/refg Open 2nd container COVID-19	COVID-19	24
FRESH FROZEN			Thawed Apheresis	Thawed Apheresis CONVALESCENT PLASMA ACD-	PLASMA Conv AFR Thaw ACD-A OPN 3C	
PLASMA	E9870	Yes	CONVALESCENT PLASMA	A/XX/refg Open 3rd container COVID-19	COVID-19	24
FRESH FROZEN			Thawed Apheresis	Thawed Apheresis CONVALESCENT PLASMA ACD-	PLASMA Conv AFR Thaw ACD-A OPN 4C	
PLASMA	E9871	Yes	CONVALESCENT PLASMA	A/XX/refg Open 4th container COVID-19	COVID-19	24
FRESH FROZEN			Thawed Apheresis	Thawed Apheresis CONVALESCENT PLASMA ACD-	PLASMA Conv AFR Thaw ACD-A OPN IRD	
PLASMA	E9872	Yes	CONVALESCENT PLASMA	A/XX/refg Open Irradiated COVID-19	COVID-19	24
FRESH FROZEN			Thawed Apheresis	Thawed Apheresis CONVALESCENT PLASMA ACD-	PLASMA Conv AFR Thaw ACD-A OPN IRD	
PLASMA	E9873	Yes	CONVALESCENT PLASMA	A/XX/refg Open Irradiated 1st container COVID-19	1C COVID-19	24
FRESH FROZEN			Thawed Apheresis	Thawed Apheresis CONVALESCENT PLASMA ACD-	PLASMA Conv AFR Thaw ACD-A OPN IRD	
PLASMA	E9874	Yes	CONVALESCENT PLASMA	A/XX/refg Open Irradiated 2nd container COVID-19	2C COVID-19	24
FRESH FROZEN			Thawed Apheresis	Thawed Apheresis CONVALESCENT PLASMA ACD-	PLASMA Conv AFR Thaw ACD-A OPN IRD	
PLASMA	E9875	Yes	CONVALESCENT PLASMA	A/XX/refg Open Irradiated 3rd container COVID-19	3C COVID-19	24
FRESH FROZEN				CONVALESCENT PLASMA CPD/XX/<=-25C Riboflavin-		
PLASMA	E9877	Yes	CONVALESCENT PLASMA	treated COVID-19	PLASMA Conv CPD Ribo COVID-19	8760
FRESH FROZEN			Apheresis	Apheresis CONVALESCENT PLASMA ACD-A/XX/<=-		
PLASMA	E9878	Yes	CONVALESCENT PLASMA	25C COVID-19	PLASMA AFR Conv ACD-A COVID-19	8760

Table 2: New Blood Products for COVID-19 Treatment

Component	Product Code	Modifiable	Product Type	Long Name	Short Name	Maximum Storage Hours
			Thawed POOLED	Thawed POOLED PLATELETS DMSO/XX/20-	PLT Pool Thaw DMSO LUKOPR BUFCT	
PLATELETS	E9876	Yes	PLATELETS	24C ResLeu:<1E6 Buffy coat plts prep Psoralen-treated	Psoraln	4
RED BLOOD			Apheresis RED	Apheresis RED BLOOD		
CELLS	E9879	Yes	BLOOD CELLS	CELLS CP2D>AS3/XX/refg Irradiated ResLeu:<5E6 Plasma added	RBC AFR CP2D>AS3 IRD LUKOPR PA	672
RED BLOOD CELLS	E9880	Yes	Apheresis RED BLOOD CELLS	Apheresis RED BLOOD CELLS CP2D>AS3/XX/refg Irradiated ResLeu:<5E6 Plasma added 1st container	RBC AFR CP2D>AS3 IRD LUKOPR PA 1C	672
RED BLOOD CELLS	E9881	Yes	Apheresis RED BLOOD CELLS	Apheresis RED BLOOD CELLS CP2D>AS3/XX/refg Irradiated ResLeu:<5E6 Plasma added 2nd container	RBC AFR CP2D>AS3 IRD LUKOPR PA 2C	672
PLATELETS	E9882	Yes	POOLED PLATELETS	POOLED PLATELETS CPD/XX/20-24C Open ResLeu:<5E6 Plasma reduced/Saline added Buffy coat plts prep 4 units	PLT Pool CPD OPN LUKOPR PLS Red/SAL Add BUFCT 4U	4
PLATELETS	E9883	Yes	POOLED PLATELETS	POOLED PLATELETS CPD/XX/20- 24C Open Irradiated ResLeu:<5E6 Plasma reduced/Saline added Buffy coat plts prep 4 units	PLT Pool CPD OPN IRD LUKOPR PLS Red/SAL Add BUFCT 4U	4
FRESH FROZEN PLASMA	E9884	Yes	Liquid PLASMA	Liquid PLASMA CPDA-1/XX/refg ResLeu:<5E6	PLASMA Liq CPDA-1 LUKOPR	960
FRESH FROZEN PLASMA	E9885	Yes	Thawed POOLED PLASMA	Thawed POOLED PLASMA CP2D/XX/refg Open From 2 donors	PLASMA Pool Thaw CP2D OPN 2DNR	4
FRESH FROZEN PLASMA	E9886	Yes	Thawed POOLED PLASMA	Thawed POOLED PLASMA CPD/XX/refg Open From 2 donors	PLASMA Pool Thaw CPD OPN 2DNR	4

Table 3: Other Blood Products not related to COVID-19 treatment

		Source		Target	
		Product		Product	
Modification	Method	Code	Source Product Name	Code	Target Product Name
mounouton	motriou	0040	CONVALESCENT PLASMA CPD/XX/<=-25C Riboflavin-	0000	Thawed CONVALESCENT PLASMA CPD/XX/refg Riboflavin-
Thaw	CLOSED	E9877	treated/COVID-19	E9861	treated/COVID-19
	010010		Apheresis CONVALESCENT PLASMA ACD-A/XX/<=-25C COVID-	2000.	Thawed Apheresis CONVALESCENT PLASMA ACD-A/XX/refg COVID-
Thaw	CLOSED	E9878	19	E9752	19
			Apheresis RED BLOOD		Frozen Apheresis RED BLOOD CELLS None/XX/<=-
Freeze	OPEN	E9879	CELLS CP2D>AS3/XX/refg Irradiated ResLeu:<5E6 Plasma added	E5102	65C Open Irradiated ResLeu:<5E6
			Apheresis RED BLOOD		
			CELLS CP2D>AS3/XX/refg Irradiated ResLeu:<5E6 Plasma		Frozen Apheresis RED BLOOD CELLS None/XX/<=-
Freeze	OPEN	E9880	added 1st container	E5103	65C Open Irradiated ResLeu:<5E6 1st container
			Apheresis RED BLOOD		
			CELLS CP2D>AS3/XX/refg Irradiated ResLeu:<5E6 Plasma		Frozen Apheresis RED BLOOD CELLS None/XX/<=-
Freeze	OPEN	E9881	added 2nd container	E5104	65C Open Irradiated ResLeu:<5E6 2nd container
			Thawed Apheresis CONVALESCENT PLASMA ACD-		Thawed Apheresis CONVALESCENT PLASMA ACD-
Irradiate	CLOSED	E9867	A/XX/refg Open COVID-19	E9872	A/XX/refg Open Irradiated COVID-19
			Thawed Apheresis CONVALESCENT PLASMA ACD-		Thawed Apheresis CONVALESCENT PLASMA ACD-
Irradiate	CLOSED	E9868	A/XX/refg Open 1st container COVID-19	E9873	A/XX/refg Open Irradiated 1st container COVID-19
			Thawed Apheresis CONVALESCENT PLASMA ACD-		Thawed Apheresis CONVALESCENT PLASMA ACD-
Irradiate	CLOSED	E9869	A/XX/refg Open 2nd container COVID-19	E9874	A/XX/refg Open Irradiated 2nd container COVID-19
			Thawed Apheresis CONVALESCENT PLASMA ACD-		Thawed Apheresis CONVALESCENT PLASMA ACD-
Irradiate	CLOSED	E9870	A/XX/refg Open 3rd container COVID-19	E9875	A/XX/refg Open Irradiated 3rd container COVID-19
		F 0000	POOLED PLATELETS CPD/XX/20-24C Open ResLeu:<5E6 Plasma	FF000	
Irradiate	CLOSED	E9882	reduced/Saline added/Buffy coat plts prep 4 units	E5229	POOLED PLATELETS CPD/XX/20-24C Open Irradiated ResLeu:<5E6
love all a fa		50000	POOLED PLATELETS CPD/XX/20-24C Open ResLeu:<5E6 Plasma	F0070	POOLED PLATELETS CPD/XX/20-
Irradiate	CLOSED	E9882	reduced/Saline added Buffy coat plts prep 4 units	E8076	24C Open Irradiated ResLeu:<5E6 Buffy coat plts prep 4 units POOLED PLATELETS CPD/XX/20-
			POOLED PLATELETS CPD/XX/20-24C Open ResLeu:<5E6 Plasma		24C Open Irradiated ResLeu:<5E6 Plasma reduced/Saline added Buffy
Irradiate	CLOSED	E9882	reduced/Saline added Buffy coat plts prep 4 units	E9883	coat plts prep 4 units
Indulate		L3002			
Leukoreduce	CLOSED	E2463	Liquid PLASMA CPDA-1/XX/refg	E9884	Liquid PLASMA CPDA-1/XX/refg ResLeu:<5E6
			Apheresis RED BLOOD		Rejuvenated Apheresis RED BLOOD
Rejuvenate	OPEN	E9879	CELLS CP2D>AS3/XX/refg Irradiated ResLeu:<5E6 Plasma added	E5657	CELLS None/XX/refg Open Irradiated ResLeu:<5E6 Plasma added
			Apheresis RED BLOOD		Rejuvenated Apheresis RED BLOOD
Rejuvenate	OPEN	E9879	CELLS CP2D>AS3/XX/refg Irradiated ResLeu:<5E6 Plasma added	E5993	CELLS None/XX/refg Open Irradiated ResLeu:<5E6
			Apheresis RED BLOOD		
			CELLS CP2D>AS3/XX/refg Irradiated ResLeu:<5E6 Plasma		Rejuvenated Apheresis RED BLOOD
Rejuvenate	OPEN	E9880	added 1st container	E5050	CELLS None/XX/refg Open Irradiated ResLeu:<5E6 1st container
Deluverate		F0004	CELLS CP2D>AS3/XX/refg Irradiated ResLeu:<5E6 Plasma		Rejuvenated Apheresis RED BLOOD
Rejuvenate	OPEN	E9881	added 2nd container	E5051	CELLS None/XX/refg Open Irradiated ResLeu:<5E6 2nd container
Split/Divide		F0967	Thawed Apheresis CONVALESCENT PLASMA ACD-	F0967	Thawed Apheresis CONVALESCENT PLASMA ACD-
Split/Divide	CLOSED	E9867	A/XX/refg Open COVID-19 Thawed Apheresis CONVALESCENT PLASMA ACD-	E9867	A/XX/refg Open COVID-19 Thawed Apheresis CONVALESCENT PLASMA ACD-
Split/Divide	CLOSED	E9868		E9868	
SpiirDivide	OLUSED	E9000	A/XX/refg Open 1st container COVID-19	E9000	A/XX/refg Open 1st container COVID-19

Table 4: Possible Modifications for Newly Added Products

		Source		Target	
Madification	Mathad	Product	Source Dreduct Name	Product Code	Target Product Name
Modification	Method	Code	Source Product Name Thawed Apheresis CONVALESCENT PLASMA ACD-	Code	Thawed Apheresis CONVALESCENT PLASMA ACD-
Split/Divide	CLOSED	E9869	A/XX/refg Open 2nd container COVID-19	E9869	A/XX/refg Open 2nd container COVID-19
			Thawed Apheresis CONVALESCENT PLASMA ACD-		Thawed Apheresis CONVALESCENT PLASMA ACD-
Split/Divide	CLOSED	E9870	A/XX/refg Open 3rd container COVID-19	E9870	A/XX/refg Open 3rd container COVID-19
	01 0 0 5 5		Thawed Apheresis CONVALESCENT PLASMAJACD-		Thawed Apheresis CONVALESCENT PLASMA ACD-
Split/Divide	CLOSED	E9871	A/XX/refg Open 4th container COVID-19 Thawed Apheresis CONVALESCENT PLASMA ACD-	E9871	A/XX/refg Open 4th container COVID-19 Thawed Apheresis CONVALESCENT PLASMA ACD-
Split/Divide	CLOSED	E9872	A/XX/refg Open Irradiated COVID-19	E9872	A/XX/refg Open Irradiated COVID-19
	OLOGED	20072	Thawed Apheresis CONVALESCENT PLASMA ACD-	20072	Thawed Apheresis CONVALESCENT PLASMAJACD-
Split/Divide	CLOSED	E9873	A/XX/refg Open Irradiated 1st container COVID-19	E9873	A/XX/refg Open Irradiated 1st container COVID-19
•			Thawed Apheresis CONVALESCENT PLASMA ACD-		Thawed Apheresis CONVALESCENT PLASMA ACD-
Split/Divide	CLOSED	E9874	A/XX/refg Open Irradiated 2nd container COVID-19	E9874	A/XX/refg Open Irradiated 2nd container COVID-19
Calit/Divide		F0075	Thawed Apheresis CONVALESCENT PLASMA ACD-	E0075	Thawed Apheresis CONVALESCENT PLASMA ACD-
Split/Divide	CLOSED	E9875	A/XX/refg Open Irradiated 3rd container COVID-19 Thawed POOLED PLATELETS DMSO/XX/20-	E9875	A/XX/refg Open Irradiated 3rd container COVID-19 Thawed POOLED PLATELETS DMSO/XX/20-24C ResLeu:<1E6 Buffy
Split/Divide	CLOSED	E9876	24C ResLeu:<1E6 Buffy coat plts prep Psoralen-treated	E9876	coat plts prep Psoralen-treated
opintBirlide	OLOGED	20010	Apheresis RED BLOOD	20010	Apheresis RED BLOOD
Split/Divide	CLOSED	E9879	CELLS CP2D>AS3/XX/refg Irradiated ResLeu:<5E6 Plasma added	E9879	CELLS CP2D>AS3/XX/refg Irradiated ResLeu:<5E6 Plasma added
			Apheresis RED BLOOD		Apheresis RED BLOOD
Out 14 (Disside		50000	CELLS CP2D>AS3/XX/refg Irradiated ResLeu:<5E6 Plasma	50000	CELLS CP2D>AS3/XX/refg Irradiated ResLeu:<5E6 Plasma added 1st
Split/Divide	CLOSED	E9880	added 1st container Apheresis RED BLOOD	E9880	container Apheresis RED BLOOD
			CELLS/CP2D>AS3/XX/refg/Irradiated/ResLeu:<5E6/Plasma		CELLS CP2D>AS3/XX/refg Irradiated ResLeu:<5E6 Plasma added 2nd
Split/Divide	CLOSED	E9881	added 2nd container	E9881	container
			POOLED PLATELETS CPD/XX/20-24C Open ResLeu:<5E6 Plasma		POOLED PLATELETS CPD/XX/20-24C Open ResLeu:<5E6 Plasma
Split/Divide	CLOSED	E9882	reduced/Saline added Buffy coat plts prep 4 units	E9882	reduced/Saline added Buffy coat plts prep 4 units
			POOLED PLATELETS CPD/XX/20- 24C Open Irradiated ResLeu:<5E6 Plasma reduced/Saline		POOLED PLATELETS CPD/XX/20- 24C Open Irradiated ResLeu:<5E6 Plasma reduced/Saline added Buffy
Split/Divide	CLOSED	E9883	added Buffy coat plts prep 4 units	E9883	coat plts prep 4 units
Split/Divide	CLOSED	E9884	Liquid PLASMA CPDA-1/XX/refg ResLeu:<5E6	E9884	Liquid PLASMA CPDA-1/XX/refg ResLeu:<5E6
Split/Divide	CLOSED	E9885	Thawed POOLED PLASMA CP2D/XX/refg Open From 2 donors	E9885	Thawed POOLED PLASMA CP2D/XX/refg Open From 2 donors
Split/Divide	CLOSED	E9886	Thawed POOLED PLASMA CPD/XX/refg Open From 2 donors	E9886	Thawed POOLED PLASMA CPD/XX/refg Open From 2 donors
Split/Divide	OPEN	E8835	Thawed POOLED PLASMA CPD/XX/refg From 2 donors	E9886	Thawed POOLED PLASMA CPD/XX/refg Open From 2 donors
Split/Divide	OPEN	E8838	Thawed POOLED PLASMA CP2D/XX/refg From 2 donors	E9885	Thawed POOLED PLASMA CP2D/XX/refg Open From 2 donors
			Thawed Apheresis CONVALESCENT PLASMA ACD-		Thawed Apheresis CONVALESCENT PLASMAJACD-
Split/Divide	OPEN	E9752	A/XX/refg COVID-19	E9867	A/XX/refg Open COVID-19
Split/Divide	OPEN	E9762	Thawed Apheresis CONVALESCENT PLASMA ACD-A/XX/refg 1st container COVID-19	E9868	Thawed Apheresis CONVALESCENT PLASMA ACD- A/XX/refg Open 1st container COVID-19
		20102	Thawed Apheresis CONVALESCENT PLASMAIACD-A/XX/refg 2nd	L0000	Thawed Apheresis CONVALESCENT PLASMAJACD-
Split/Divide	OPEN	E9763	container COVID-19	E9869	A/XX/refg Open 2nd container COVID-19
			Thawed Apheresis CONVALESCENT PLASMA ACD-A/XX/refg 3rd		Thawed Apheresis CONVALESCENT PLASMA ACD-
Split/Divide	OPEN	E9764	container COVID-19	E9870	A/XX/refg Open 3rd container COVID-19

Modification	Method	Source Product Code	Source Product Name	Target Product Code	Target Product Name
Mounication	Wiethou	Code	Thawed Apheresis CONVALESCENT PLASMA ACD-A/XX/refg 4th	Code	Thawed Apheresis CONVALESCENT PLASMAJACD-
Split/Divide	OPEN	E9765	container/COVID-19	E9871	A/XX/refg Open 4th container COVID-19
Opin/Divide	OFEN	20700	Thawed Apheresis CONVALESCENT PLASMA ACD-	23071	Thawed Apheresis CONVALESCENT PLASMAJACD-
Split/Divide	OPEN	E9793	A/XX/refg Irradiated COVID-19	E9872	A/XX/refg Open Irradiated COVID-19
opino Dirido	0. 2.1		Thawed Apheresis CONVALESCENT PLASMAJACD-		Thawed Apheresis CONVALESCENT PLASMAJACD-
Split/Divide	OPEN	E9819	A/XX/refg Irradiated 1st container COVID-19	E9873	A/XX/refg Open Irradiated 1st container COVID-19
			Thawed Apheresis CONVALESCENT PLASMA ACD-		Thawed Apheresis CONVALESCENT PLASMA ACD-
Split/Divide	OPEN	E9820	A/XX/refg Irradiated 2nd container COVID-19	E9874	A/XX/refg Open Irradiated 2nd container COVID-19
			Thawed Apheresis CONVALESCENT PLASMA ACD-		Thawed Apheresis CONVALESCENT PLASMA ACD-
Split/Divide	OPEN	E9821	A/XX/refg Irradiated 3rd container COVID-19	E9875	A/XX/refg Open Irradiated 3rd container COVID-19
			Thawed Apheresis CONVALESCENT PLASMA ACD-		Thawed Apheresis CONVALESCENT PLASMA ACD-
Split/Divide	OPEN	E9867	A/XX/refg Open COVID-19	E9867	A/XX/refg Open COVID-19
			Thawed Apheresis CONVALESCENT PLASMA ACD-		Thawed Apheresis CONVALESCENT PLASMA ACD-
Split/Divide	OPEN	E9868	A/XX/refg Open 1st container COVID-19	E9868	A/XX/refg Open 1st container COVID-19
			Thawed Apheresis CONVALESCENT PLASMA ACD-		Thawed Apheresis CONVALESCENT PLASMA ACD-
Split/Divide	OPEN	E9869	A/XX/refg Open 2nd container COVID-19	E9869	A/XX/refg Open 2nd container COVID-19
			Thawed Apheresis CONVALESCENT PLASMA ACD-		Thawed Apheresis CONVALESCENT PLASMA ACD-
Split/Divide	OPEN	E9870	A/XX/refg Open 3rd container COVID-19	E9870	A/XX/refg Open 3rd container COVID-19
0.111/01.11	ODEN	50074	Thawed Apheresis CONVALESCENT PLASMA ACD-	50074	Thawed Apheresis CONVALESCENT PLASMA ACD-
Split/Divide	OPEN	E9871	A/XX/refg Open 4th container COVID-19	E9871	A/XX/refg Open 4th container COVID-19
	ODEN	50070	Thawed Apheresis CONVALESCENT PLASMA ACD-	50070	Thawed Apheresis CONVALESCENT PLASMA ACD-
Split/Divide	OPEN	E9872	A/XX/refg Open Irradiated COVID-19	E9872	A/XX/refg Open Irradiated COVID-19 Thawed Apheresis CONVALESCENT PLASMA ACD-
Split/Divide	OPEN	E9873	Thawed Apheresis CONVALESCENT PLASMA ACD- A/XX/refg Open Irradiated 1st container COVID-19	E9873	A/XX/refg Open Irradiated 1st container COVID-19
Split/Divide	OFEN	E9073	Thawed Apheresis CONVALESCENT PLASMAJACD-	E9073	Thawed Apheresis CONVALESCENT PLASMAJACD-
Split/Divide	OPEN	E9874	A/XX/refg Open Irradiated 2nd container COVID-19	E9874	A/XX/refg Open Irradiated 2nd container COVID-19
Split/Divide		23074	Thawed Apheresis CONVALESCENT PLASMAJACD-	L3074	Thawed Apheresis CONVALESCENT PLASMAJACD-
Split/Divide	OPEN	E9875	A/XX/refg Open Irradiated 3rd container COVID-19	E9875	A/XX/refg Open Irradiated 3rd container COVID-19
Opint Divide	OFER	20070		20070	Apheresis RED BLOOD
			Apheresis RED BLOOD		CELLS CP2D>AS3/XX/refg Open Irradiated ResLeu:<5E6 Plasma
Split/Divide	OPEN	E9879	CELLS CP2D>AS3/XX/refg Irradiated ResLeu:<5E6 Plasma added	E6796	added
			Apheresis RED BLOOD		Apheresis RED BLOOD
			CELLS CP2D>AS3/XX/refg Irradiated ResLeu:<5E6 Plasma		CELLS CP2D>AS3/XX/refg Open Irradiated ResLeu:<5E6 Plasma
Split/Divide	OPEN	E9880	added 1st container	E6797	added 1st container
			Apheresis RED BLOOD		Apheresis RED BLOOD
			CELLS CP2D>AS3/XX/refg Irradiated ResLeu:<5E6 Plasma		CELLS CP2D>AS3/XX/refg Open Irradiated ResLeu:<5E6 Plasma
Split/Divide	OPEN	E9881	added 2nd container	E6798	added 2nd container
			POOLED PLATELETS CPD/XX/20-24C Open ResLeu:<5E6 Plasma		POOLED PLATELETS CPD/XX/20-24C Open ResLeu:<5E6 Plasma
Split/Divide	OPEN	E9882	reduced/Saline added Buffy coat plts prep 4 units	E9882	reduced/Saline added Buffy coat plts prep 4 units
			POOLED PLATELETS CPD/XX/20-		POOLED PLATELETS CPD/XX/20-
		F0000	24C Open Irradiated ResLeu:<5E6 Plasma reduced/Saline	50000	24C Open Irradiated ResLeu:<5E6 Plasma reduced/Saline added Buffy
Split/Divide	OPEN	E9883	added Buffy coat plts prep 4 units	E9883	coat plts prep 4 units
Split/Divide	OPEN	E9885	Thawed POOLED PLASMA CP2D/XX/refg Open From 2 donors	E9885	Thawed POOLED PLASMA CP2D/XX/refg Open From 2 donors
Split/Divide	OPEN	E9886	Thawed POOLED PLASMA CPD/XX/refg Open From 2 donors	E9886	Thawed POOLED PLASMA CPD/XX/refg Open From 2 donors

		Source		Target	
		Product		Product	
Modification	Method	Code	Source Product Name	Code	Target Product Name
			Apheresis RED BLOOD		Washed Apheresis RED BLOOD
Wash	OPEN	E9879	CELLS CP2D>AS3/XX/refg Irradiated ResLeu:<5E6 Plasma added	E4145	CELLS None/XX/refg Open Irradiated ResLeu:<5E6
			Apheresis RED BLOOD		Washed Apheresis RED BLOOD
Wash	OPEN	E9879	CELLS CP2D>AS3/XX/refg Irradiated ResLeu:<5E6 Plasma added	E5666	CELLS None/XX/refg Open Irradiated ResLeu<5E6 Plasma added
			Apheresis RED BLOOD		
			CELLS CP2D>AS3/XX/refg Irradiated ResLeu:<5E6 Plasma		Washed Apheresis RED BLOOD
Wash	OPEN	E9880	added 1st container	E4560	CELLS None/XX/refg Open Irradiated ResLeu:<5E6 1st container
			Apheresis RED BLOOD		Washed Apheresis RED BLOOD
			CELLS CP2D>AS3/XX/refg Irradiated ResLeu:<5E6 Plasma		CELLS None/XX/refg Open Irradiated ResLeu:<5E6 Plasma added 1st
Wash	OPEN	E9880	added 1st container	E5664	container
			Apheresis RED BLOOD		
			CELLS CP2D>AS3/XX/refg Irradiated ResLeu:<5E6 Plasma		Washed Apheresis RED BLOOD
Wash	OPEN	E9881	added 2nd container	E4561	CELLS None/XX/refg Open Irradiated ResLeu:<5E6 2nd container
			Apheresis RED BLOOD		Washed Apheresis RED BLOOD
			CELLS CP2D>AS3/XX/refg Irradiated ResLeu:<5E6 Plasma		CELLS None/XX/refg Open Irradiated ResLeu:<5E6 Plasma added 2nd
Wash	OPEN	E9881	added 2nd container	E5665	container
	0.0.5.1		POOLED PLATELETS CPD/XX/20-24C Open ResLeu:<5E6 Plasma	F 000 <i>t</i>	
Wash	OPEN	E9882	reduced/Saline added Buffy coat plts prep 4 units	E2921	Washed POOLED PLATELETS None/XX/20-24C Open ResLeu:<5E6
	0.0.5.1		POOLED PLATELETS CPD/XX/20-24C Open ResLeu:<5E6 Plasma		Washed POOLED PLATELETS None/XX/20-24C Open ResLeu:<5E6 2
Wash	OPEN	E9882	reduced/Saline added Buffy coat plts prep 4 units	E5927	units
	0.051		POOLED PLATELETS CPD/XX/20-24C Open ResLeu:<5E6 Plasma		Washed POOLED PLATELETS None/XX/20-24C Open ResLeu:<5E6 3
Wash	OPEN	E9882	reduced/Saline added Buffy coat plts prep 4 units	E5928	units
	0.0.5.1		POOLED PLATELETS CPD/XX/20-24C Open ResLeu:<5E6 Plasma		Washed POOLED PLATELETS None/XX/20-24C Open ResLeu:<5E6 4
Wash	OPEN	E9882	reduced/Saline added Buffy coat plts prep 4 units	E5929	
	0051	F 0000	POOLED PLATELETS CPD/XX/20-24C Open ResLeu:<5E6 Plasma	F 5000	Washed POOLED PLATELETS None/XX/20-24C Open ResLeu:<5E6 5
Wash	OPEN	E9882	reduced/Saline added Buffy coat plts prep 4 units	E5930	units
		50000	POOLED PLATELETS CPD/XX/20-24C Open ResLeu:<5E6 Plasma	55004	Washed POOLED PLATELETS None/XX/20-24C Open ResLeu:<5E6 6
Wash	OPEN	E9882	reduced/Saline added Buffy coat plts prep 4 units	E5931	
) A / a a h		F0000	POOLED PLATELETS CPD/XX/20-24C Open ResLeu:<5E6 Plasma	55000	Washed POOLED PLATELETS None/XX/20-24C Open ResLeu:<5E6 7
Wash	OPEN	E9882	reduced/Saline added Buffy coat plts prep 4 units	E5932	
Weeh	OPEN	E9882	POOLED PLATELETS CPD/XX/20-24C Open ResLeu:<5E6 Plasma	E5933	Washed POOLED PLATELETS None/XX/20-24C Open ResLeu:<5E6 8 units
Wash	OPEN	E9002	reduced/Saline added Buffy coat plts prep 4 units POOLED PLATELETS CPD/XX/20-24C Open ResLeu:<5E6 Plasma	E0933	Washed POOLED PLATELETS None/XX/20-
Wash	OPEN	E9882	reduced/Saline added Buffy coat plts prep 4 units	E6367	24C Open ResLeu:<5E6 Buffy coat plts prep 4 units
VVASII	OFEN	E9002	POOLED PLATELETS CPD/XX/20-24C Open ResLeu:<5E6 Plasma	E0307	Washed POOLED PLATELETSINone/XX/20-
Wash	OPEN	E9882	reduced/Saline added/Buffy coat plts prep/4 units	E7634	24C Open ResLeu:<5E6 Buffy coat plts prep 5 units
Wash	OFEN	E9002	POOLED PLATELETS CPD/XX/20-	E7034	
			24C Open Irradiated ResLeu:<5E6 Plasma reduced/Saline		Washed POOLED PLATELETSINone/XX/20-
Wash	OPEN	E9883	added Buffy coat plts prep 4 units	E2920	24C Open Irradiated ResLeu:<5E6
vvasii	OFEN	L9000	POOLED PLATELETS CPD/XX/20-	L2920	
			24C Open Irradiated ResLeu:<5E6 Plasma reduced/Saline		Washed POOLED PLATELETS None/XX/20-
Wash	OPEN	E9883	added Buffy coat plts prep 4 units	E5888	24C Open Irradiated ResLeu:<5E6 Supernat reduced
110011		L9003	POOLED PLATELETS CPD/XX/20-	2000	
			24C Open Irradiated ResLeu:<5E6 Plasma reduced/Saline		Washed POOLED PLATELETS None/XX/20-
Wash	OPEN	E9883	added Buffy coat plts prep 4 units	E5920	24C Open Irradiated ResLeu:<5E6 2 units
vvasn		L3000		LJ320	

		Source Product		Target Product	
Modification	Method	Code	Source Product Name	Code	Target Product Name
			POOLED PLATELETS CPD/XX/20-		
			24C Open Irradiated ResLeu:<5E6 Plasma reduced/Saline		Washed POOLED PLATELETS None/XX/20-
Wash	OPEN	E9883	added Buffy coat plts prep 4 units	E5921	24C Open Irradiated ResLeu:<5E6 3 units
			POOLED PLATELETS CPD/XX/20-		
			24C Open Irradiated ResLeu:<5E6 Plasma reduced/Saline		Washed POOLED PLATELETS None/XX/20-
Wash	OPEN	E9883	added Buffy coat plts prep 4 units	E5922	24C Open Irradiated ResLeu:<5E6 4 units
			POOLED PLATELETS CPD/XX/20-		
			24C Open Irradiated ResLeu:<5E6 Plasma reduced/Saline		Washed POOLED PLATELETS None/XX/20-
Wash	OPEN	E9883	added Buffy coat plts prep 4 units	E5923	24C Open Irradiated ResLeu:<5E6 5 units
			POOLED PLATELETS CPD/XX/20-		
			24C Open Irradiated ResLeu:<5E6 Plasma reduced/Saline		Washed POOLED PLATELETS None/XX/20-
Wash	OPEN	E9883	added Buffy coat plts prep 4 units	E5924	24C Open Irradiated ResLeu:<5E6 6 units
			POOLED PLATELETS CPD/XX/20-		
			24C Open Irradiated ResLeu:<5E6 Plasma reduced/Saline		Washed POOLED PLATELETS None/XX/20-
Wash	OPEN	E9883	added Buffy coat plts prep 4 units	E5925	24C Open Irradiated ResLeu:<5E6 7 units
l			POOLED PLATELETS CPD/XX/20-		
1			24C Open Irradiated ResLeu:<5E6 Plasma reduced/Saline		Washed POOLED PLATELETS None/XX/20-
Wash	OPEN	E9883	added Buffy coat plts prep 4 units	E5926	24C Open Irradiated ResLeu:<5E6 8 units
			POOLED PLATELETS CPD/XX/20-		
			24C Open Irradiated ResLeu:<5E6 Plasma reduced/Saline		Washed POOLED PLATELETS None/XX/20-
Wash	OPEN	E9883	added Buffy coat plts prep 4 units	E6368	24C Open Irradiated ResLeu:<5E6 Buffy coat plts prep 4 units
l			POOLED PLATELETS CPD/XX/20-		
			24C Open Irradiated ResLeu:<5E6 Plasma reduced/Saline		Washed POOLED PLATELETS None/XX/20-
Wash	OPEN	E9883	added Buffy coat plts prep 4 units	E7635	24C Open Irradiated ResLeu:<5E6 Buffy coat plts prep 5 units
			Apheresis RED BLOOD		Frozen Apheresis RED BLOOD CELLS None/XX/<=-
Freeze	OPEN	E9879	CELLS CP2D>AS3/XX/refg Irradiated ResLeu:<5E6 Plasma added	E5102	65C Open Irradiated ResLeu:<5E6
			Apheresis RED BLOOD		
			CELLS CP2D>AS3/XX/refg Irradiated ResLeu:<5E6 Plasma		Frozen Apheresis RED BLOOD CELLS None/XX/<=-
Freeze	OPEN	E9880	added 1st container	E5103	65C Open Irradiated ResLeu:<5E6 1st container

This is the last page of VistA Blood Establishment Computer Software (VBECS) 2.3.2 Rev F Release Notes.