MAINTENANCE TECHNICAL SUPPORT CENTER HEADQUARTERS MAINTENANCE OPERATIONS UNITED STATES POSTAL SERVICE



Maintenance Management Order

SUBJECT: Operational and Preventive Maintenance

Guidelines for Virtual Postal Address Redirection System (vPARS) Feeder Sites

TO: All PARS Feeder Sites

DATE: October 20, 2023

PUB NO: MMO-076-22

FILE CODE: 2VA, 2VB FILE ID: mm22077

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This Maintenance Management Order (MMO) provides Preventive Maintenance Guidelines for the Virtual Postal Automated Redirection System (VPARS). This bulletin **supersedes MMO-099-20 for feeder sites only**. This bulletin applies to Acronym PARS, and Class Codes VA and VB.

Remote Encoding Center (REC) Video Display Terminal (VDT) maintenance is not included in this MMO. These preventive maintenance guidelines are for Feeder sites only.

The workhours indicated in the workload estimate (Attachment 1) are based on a 24-hour operations window and reflect the maximum annual workhours required to maintain each system. Actual workhour requirements and the frequency of tasks are dependent on run time and pieces processed. Therefore, PM workhour requirements will vary day-to-day based on site-specific machine utilization. Management may modify task frequencies to address local conditions. The minimum maintenance skill level required to perform each task is included in the Minimum Skill Level column of each checklist. This does not preclude higher-level employees from performing any of this work.

WARNING

Various products requiring Safety Data Sheets (SDS) may be utilized during the performance of the procedures in this bulletin. Ensure the current SDS for each product used is on file and available to all employees. When reordering such a product, it is suggested that current SDS be requested. Refer to SDS for appropriate personal protective equipment.

Web Access: https://www1.mtsc.usps.gov

WARNING

The use of compressed or blown air is prohibited. An alternative cleaning method such as a HEPA filtered vacuum cleaner, a damp rag, lint-free cloth, or brush must be used in place of compressed or blown air.

WARNING

Steps contained in this bulletin may require the use of Electrical Work Plan (EWP) Personal Protective Equipment (PPE). Refer to the current EWP MMO for appropriate EWP PPE and barricade requirements.

For questions or comments concerning this bulletin contact the MTSC HelpDesk, either online at MTSC>HELPDESK>Create/Update Tickets or call (800) 366-4123.

Frederick L. Jackson III **Executive Manager**

Maintenance Technical Support Center

Asset Maintenance Planning, Performance, and Support

- Attachments 1. Summary Workload Estimate For PARS VA, VB
 - 2. Master Checklist 03-PARS-VA, VB-001-M PARS Preventive Maintenance (PM)
 - 3. PDC and REC Master Checklist 09-PARS-VA, VB-001-M PARS Operational Maintenance (OM)
 - 4. Illustrations for Attachment 2, 3, and List of Feeder Sites

ATTACHMENT 1

SUMMARY WORKLOAD ESTIMATE

FOR PARS_VA, VB

	• • • • • • • • • • • • • • • • • • •		Routine	Non-	Total	Operational Maintenance - Total Servicing						
Operation Days	Servicing per Machine (Hrs/yr)	Time per Machine (Hrs/yr)*	Servicing + Repair Time (Hrs/yr)	Productive Time per Machine (Hrs/yr)**	Servicing per Machine (Hrs/Yr)	1 Tour Hrs/Yr OpM x 1	2 Tours Hrs/Yr OpM x 2	3 Tours Hrs/Yr OpM x 3				
5 Days	80.00	24.00	104.00	10.40	114.40	127.40	140.40	153.40				
6 Days	93.87	28.16	122.03	12.20	134.23	149.83	165.43	181.03				
7 Days	107.74	32.32	140.06	14.01	154.07	172.27	190.47	208.67				

^{*} Repair maintenance estimates based on 30% of preventive maintenance.

^{**} Based on 10% of total PM and repair.

THRESHOLDS and		JMMARY	OPERATIONAL MAINTENANCE						
HIS PE	ER Year								
Daily	97.07		9 MIN. PER DAY PER MACHINE						
	8.67		One Tour	Two	Three				
Weekly	0.07		One rour	Tours	Tours				
Monthly	2.00	5 Day	13.00	26.00	39.00				
Quarterly	0.00	6 Day	15.60	31.20	46.80				
Semi-Annual	0.00	7 Day	18.20	36.40	54.60				
Annual	0.00								
Bi-Annual	0.00								

NOTES:

^{*}Repair estimates based on 30% of servicing.

^{**}Based on 10% of total servicing and repair.

	* The tasks r	marked with one asterisk are pe	er unit ta	asks	
	** The tasks	marked with two asterisks are	critical t	asks	
	Frequency Cod	des (1 Accounting Period (AP)	= 4 Wee	eks)	
Code	Frequency	Description	Code	Frequency	Description
				BI-	
Α	ANNUAL	Once every 13 APs	В	WEEKLY	Once every half AP
	BI-				
С	MONTHLY	Once every 2 APs	D	DAILY	Once a day; 7 days a week
Е	DAILY	Once a day; 6 days a week	F	DAILY	Once a day; 5 days a week
G	DAILY	Once a day; 4 days a week	Н	DAILY	Once a day; 3 days a week
	SEMI-			BI-	
J	WEEKLY	2 days a week	K	ANNUAL	Once every 26 APs
L	tdl-ANNUAL	Once every 39 APs	М	MONTHLY	Once every AP
	QUAD-	-		QUINT-	-
N	ANNUAL	Once every 52 APs	Р	ANNUAL	Once every 65 APs
				SEMI-	
Q	QUARTERLY	4 times every 13 APs	S	ANNUAL	Twice every 13 APs
		3 times a day; 7 days a			Twice a day; 7 days a
T	TOURLY	week	U	TOURLY	week
		3 times a day; 6 days a			
V	TOURLY	week	W	WEEKLY	Once 1/4 AP (1 week)
	TOURING			TOURIN	3 times a day; 5 days a
X	TOURLY	Twice a day; 6 days a week	Υ	TOURLY	week
Z	TOURLY	Twice a day; 5 days a week			
	WEEKS	Perform a task once every # v	weeks e	.g., WI (60) =	Once every 60 weeks
WI(*)	INTERVAL	# = number of weeks			

ATTACHMENT 2

PARS MASTER CHECKLIST

03-PARS-**-001-M

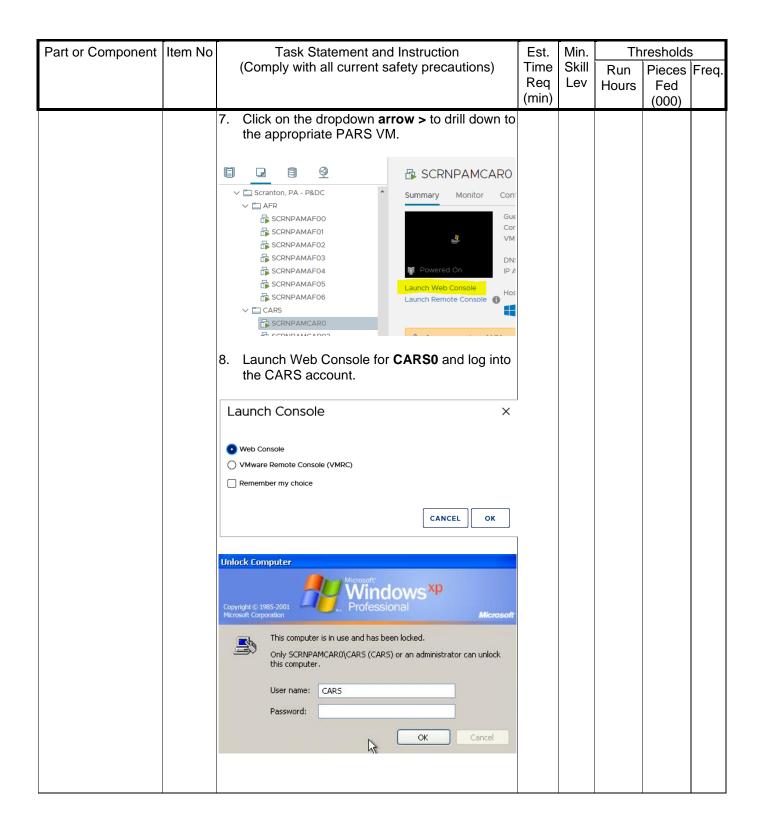
PREVENTIVE MAINTENANCE (PM)

Time Total: (36) minutes

U.S. Postal Service	IDENTIFICATION															
Maintenance Checklist	_	WORK CODE		EQUIPM ACRON							_	ASS DE	N	JMBE	ĒR	TYPE
	0	3	Р	Α	R	S					*	*	0	0	1	M
Equipment Nomenclature Postal Address Redirection System			Equipment Model VPARS						Bulletin Filename mm22077			е		e ar		

Part or Component	Item No		Est.	Min.	Th	resholds	
		(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
SAFETY STATEMENT	1	COMPLY WITH ALL SAFETY PRECAUTIONS. Disconnect power and apply lockouts when required by this instruction. Refer to current local lockout procedures to properly shut down and lock out this machine. Check for suspicious dust or unusual debris. If any unusual substance is found, notify supervisor prior to proceeding with any further action on the equipment. THE USE OF COMPRESSED OR BLOWN AIR IS PROHIBITED. When cleaning is required, an alternative cleaning method such as a HEPA filtered vacuum cleaner, or a damp rag must be used in place of compressed or blown air. A lint-free cloth or brush may be used on optical equipment only when other cleaning methods cannot be used. Report safety deficiencies to your supervisor immediately upon detection. WARNING FOR EWP/PPE: Steps contained in this bulletin may require the use of Electrical Work Plan (EWP) Personal Protective Equipment (PPE). Refer to the current EWP MMO or appropriate EWP PPE and barricade requirements. WARNING FOR SDS: Various products requiring Safety Data Sheets (SDS) may be utilized during the performance of the procedures in this bulletin. Ensure the current SDS for each product used is on file and available to all employees. When reordering such a product, it is suggested that current SDS be requested. Refer to SDS for appropriate personal protective equipment.	1	All			

Part or Component	Item No	o Task Statement and Instruction Est. Min. The Comply with all current safety precautions)							
		(Comply with all current safety precautions)	Time Req	Skill Lev		Pieces	Freq.		
			(min)	Lev	Hours	Fed (000)			
VPARS SYSTEM:	2	Restart Virtual Servers (CARS)	10	10		(000)	D		
VIRTUAL COMPUTERS		Type the following address into the Chrome browser, https://nrmnokmvcsaprod.usps.gov/							
		NOTE							
		ET must have access to vSphere. Request from eAccess (Figure 4-2).							
		 Select Advanced, and then select Proceed to nrmnokmvcsaprod.usps.gov (unsafe). 							
		 Select LAUNCH VSPHERE CLIENT (HTML5). 							
		VMware® vSphere Solid Sphere Scale Sphere Sph							



Part or Component	Item No		Task Statement and Instruction	Est.	Min.	Th	resholds	6
·			(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
				Req (min)	Lev	Hours	Fed	
		9.	Login to Siemens CARS server system.	(111111)			(000)	
		٥.	Login to dictions of the server system.					
			SIEMENS					
		P	ARS Change of Address Record Server System					
			-Please enter the following:					
			User ID: Password:					
			Login					
		10.	Select System from the Main menu.					
			System					
			Configuration					
			Select CARS					
			Diagnostic					
		11.	Select Start CARS.					
			Start CARS					
			Load Directories					
			System Restart					
		12.	From the Select CARS dropdown, select All CARS .					
		13.	From Select a Task, select Start CARS (Figure 4-3).					
		14.	Click Yes to confirm restart.					
		15.	When system restart completes, login and verify the CARS system is operational by ensuring all CARS lights are green in the slave CARS Status window.					
		16.	Close web console.					

Part or Component	Item No	Task Statement and Instruction	Est.	Min.	Th	resholds	3
		(Comply with all current safety precautions)	Time Req	Skill Lev	Run	Pieces	Freq.
			(min)	Lev	Hours	Fed (000)	
VPARS SYSTEM:	3	Reboot (CARS)	10	10		(===)	W
VIRTUAL COMPUTERS		Launch Web Console for CARS0.					
OCIVIII OTEINO		2. Log into the CARS account.					
		Unlock Computer					
		Copyright © 1985-2001 Professional Microsoft					
		This computer is in use and has been locked. Only DSMNIAMCARO\CARS (CARS) or an administrator can unlock this computer.					
		User name: CARS Password:					
		OK Cancel					
		Login to Siemens screen using the same CARS account.					
		4. From Main menu, select System .					
		5. From System menu, select System Restart.					
		 From Select CARS(s) drop down, select All CARS (Figure 4-3). 					
		7. From Select a task field, select the Hardware Shutdown button.					
		8. Select Yes to confirm the shutdown.					
		 Once the system shutdown completes, bring the system back up and verify the CARS system is operational by ensuring all CARS lights are green in the Slave CARS Status window. 					
		10. Close web console.					
VPARS SYSTEM:	4	Clean Server Components	10	09			М
COMPUTER		Clean exterior of computer using a vacuum cleaner, glass cleaner, and lint-free static-free cleaning towels.					
		2. Clean exterior of the vPARS cabinet.					

Part or Component	Item No		Est.	Min.	Thresholds					
		(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.			
			Req (min)	Lev	Hours	Fed (000)				
FINAL CLEANUP	5	Clean Up	5	ALL		(000)				
		Ensure all cleaners, towels, vacuum, etc., are removed from the work area.								
		Note any deficiencies and generate a work order/report them to supervisor.								

The tasks marked with one asterisk *, after the time required, are per unit tasks.

The tasks marked with two asterisks **, after the item number, are critical tasks.

ATTACHMENT 3

P&DC AND REC PARS MASTER CHECKLIST

09-PARS-**-001-M

OPERATIONAL MAINTENANCE (OM)

Time Total: (3) minutes

** Class Codes VA, VB

U.S. Postal Service	IDENTIFICATION															
Maintenance Checklist	WORK CODE		EQUIPMENT ACRONYM							CLASS CODE			NUMBER			TYPE
	0	9	Р	Α	R	S					*	*	0	0	1	М
Equipment Nomenclature			Equipment Model					Bulletin Filename			Э	Occurrenc			ce	
Postal Address Redirection System		vPARS						mm22077				Daily				

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	3
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
SAFETY STATEMENT	1	COMPLY WITH ALL SAFETY PRECAUTIONS. Disconnect power and apply lockouts when required by this instruction. Refer to current local lockout procedures to properly shut down and lock out this machine. Check for suspicious dust or unusual debris. If any unusual substance is found, notify supervisor prior to proceeding with any further action on the equipment. THE USE OF COMPRESSED OR BLOWN AIR IS PROHIBITED. When cleaning is required, an alternative cleaning method such as a HEPA filtered vacuum cleaner, or a damp rag must be used in place of compressed or blown air. A lint-free cloth or brush may be used on optical equipment only when other cleaning methods cannot be used. Report safety deficiencies to your supervisor immediately upon detection. WARNING FOR EWP/PPE: Steps contained in this bulletin may require the use of Electrical Work Plan (EWP) Personal Protective Equipment (PPE). Refer to the current EWP MMO or appropriate EWP PPE and barricade requirements. WARNING FOR SDS: Various products requiring Safety Data Sheets (SDS) may be utilized during the performance of the procedures in this bulletin. Ensure the current SDS for each product used is on file and available to all employees. When reordering such a product, it is suggested that current SDS be requested. Refer to SDS for appropriate personal protective equipment.	1	All			

Part or	Item	Task Statement and Instruction	Est.	Min.	Thresholds					
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.			
OPERATIONAL MAINTENANCE FOR CARS	2	 Verify CARS operations. At the master CARS UI, check the system status and directory status. If a problem is found, correct it, or notify maintenance management. Log on to the master CARS UI (Main menu Figure 4-5). Verify all slave CARS are communicating with the master CARS, all CARS should be ready. 	2	10			Т			
		 Verify that the Base Dir: is current, the date should not be more than 14 days old. Verify that the Daily Update is current, not more than 2 days old. 								

The tasks marked with one asterisk *, after the time required, are per unit tasks.

The tasks marked with two asterisks **, after the item number, are critical tasks.

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ATTACHMENT 4

ILLUSTRATIONS FOR ATTACHMENT 2, 3, AND LIST OF FEEDER SITES

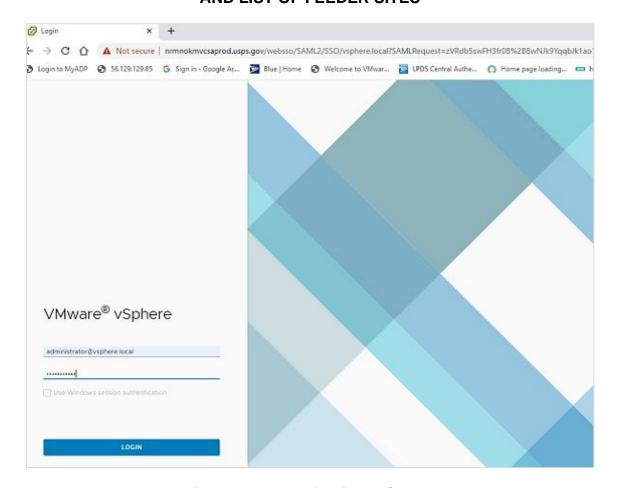


Figure 4-1. Logging into vCenter



Figure 4-2. eAccess

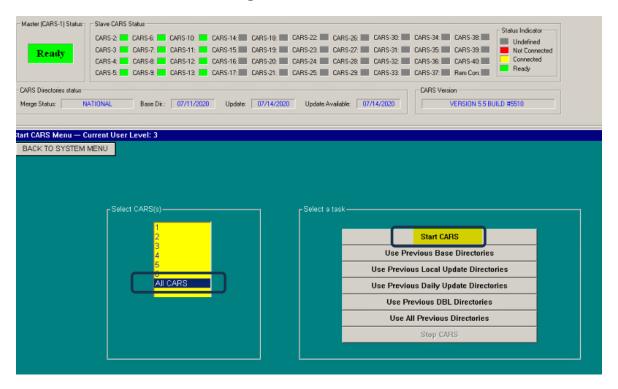


Figure 4-3. Start CARS Menu

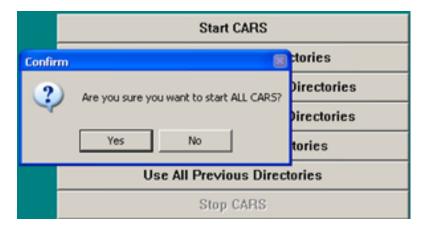


Figure 4-4. Confirm Start ALL CARS

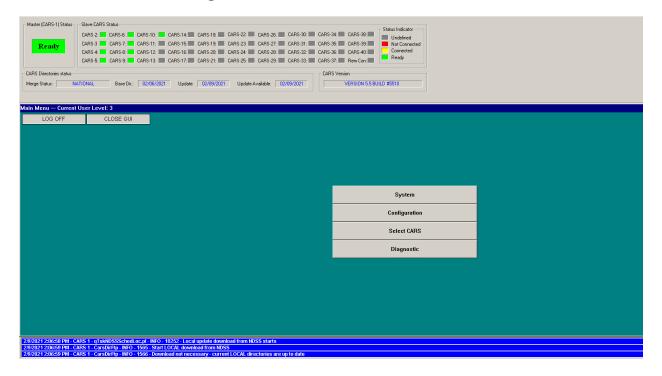


Figure 4-5. Main Menu, All CARS Ready Table 4-1. PARS Host and Feeder Sites

Feeder Sites Name	Letter PARS	FPARS
Eastern Shore MD - (EAONMD)	X	
Lafayette LA - (LFYTLA)	X	
New Orleans LA - (NORLLA)	X	
Huntsville AL - (HNTSAL)	X	
Montgomery AL - (MTGMAL)	X	
Champaign IL - (CHMPIL) *FPARS	X	X
Chicago (Cardiss Collins) IL - (CHCGIL)	X	
Palatine IL - (PLTNIL)	X	

Feeder Sites Name	Letter PARS	FPARS
Peoria IL - (PEORIL)	X	
South Suburban IL - (BDFPIL)	Х	
Boston MA - (BSTNMA) *FPARS	Х	Х
Brockton MA - (BRCKMA)	X	
Burlington VT - (ESXJVT)	Х	
Eastern (Hampton) ME - (HMPDME)	X	
Manchester NH - (MNCHNH)	X	
Providence RI - (PRVDRI)	X	
Southern ME - (SCRBME)	Х	
White River Junction VT - (WHRJVT)	Х	
Youngstown - (YNGSOH)	X	
Cheyenne WY - (CHYNWY) *FPARS	X	Х
Denver CO - (DNVRCO)	X	
Grand Junction CO - (GRNRCO)	Х	
Cincinnati OH - (CNCNOH)	Х	
Dayton OH - (DYTNOH)	X	
Toledo OH - (TOLDOH)	X	
Abilene TX - (ABLNTX)	X	
Amarillo TX - (AMRLTX)	X	
Dallas TX - (DALSTX)	X	
Ft. Worth TX - (FRTWTX)	Х	
Lubbock TX - (LBCKTX)	X	
Cedar Rapids IA - (CDRRIA)	X	
Quad Cities IA - (MILNIL)	X	
Waterloo IA - (WTRLIA)	X	
Grand Rapids MI - (GRNRMI) *FPARS	X	Х
Grand Rapids Annex MI - (GRNAMI)	X	
Lansing MI - (LNSNMI)	X	
Michigan Metroplex MÍ - (PNTCMI)	X	
Traverse City MI - (TRVCMI)	X	
Midland TX - (MDLNTX)	X	
Bismarck ND - (BSMRND)	X	
Grand Forks ND - (GRNFND)	X	
Manasota FL - (MNSTFL)	X	
Mid Florida (Lake Mary) FL - (LKMRFL)	X	
Orlando FL - (ORLNFL)	X	
Tampa FL - (TAMPFL)	X	
Gainesville FL - (GNSVFL) *FPARS	-	Х
Roanoke VA - (RONKVA) *FPARS	X	X
Charleston SC - (CHRLSC)	X	
Columbia SC - (CLMBSC)	X	
Lehigh Valley PA - (BTHMPA)	X	
Philadelphia PA - (PHLDPA)	X	

Feeder Sites Name	Letter PARS	FPARS
South Jersey NJ - (BLMWNJ)	Χ	
Wilmington DE - (WLMNDE)		
Albany NY - (ALBNNY) *FPARS	Х	X
Southern CT - (WLNDCT)	Х	
Ft. Wayne IN - (FRTEIN) *FPARS	Х	X
Gary IL - (GARYIN)	Х	
Muncie IN - (MUNCIN)	Х	
South Bend IN - (SBNDIN)	Х	
Gulfport MS - (GLFPMS)	Χ	
Gainesville FL - (GNSVFL)	Х	
Mobile AL - (MOBLAL)	Χ	
Pensacola FL - (PNSCFL)	Χ	
Tallahassee FL - (TLHSFL)	Χ	
Springfield MO - (SPFLMO)	Χ	
Northwest Arkansas - (FYTVAR)	Х	
Evansville IN - (EVNSIN)	Χ	
Lexington KY - (LXNGKY)	Х	
Paducah KY - (PDCKKY)	Х	
Louisville Annex KY - (LŚVLKYA) *FPARS	Х	Х
Merrifield VA - (MRFLVA) *FPARS		Х
West Palm Beach FL - (WPLBFL)	Х	
Central (Wausau) WI - (RTHSWI) *FPARS	Χ	Х
Green Bay WI - (GRBYWI)	Х	
Iron Mountain MI - (KNGNMI)	Х	
Madison WI - (MDSNWI)	Χ	
Duluth MN - (DLTHMN) *FPARS	Х	Х
Eau Claire WI - (ECLRWI)		
Mankato MN - (MNKTMN)	Х	
Rapid City SD - (RPDCSD)	X	
Saint Cloud MN - (WTPRMN)	X	
Saint Paul MN - (SAPLMN)	X	
Sioux Falls SD - (SXFLSD)	Х	
Brooklyn NY - (BRKLNY)	Х	
Mid Island NY - (MLVLNY)	Х	
Westchester - (WHTPNY)	Х	
Western Nassau (Garden City) NY - (GRDCNY)	Х	
Chattanooga TN - (CHTNTN)	Х	
Johnson City TN - JHNCTN)	X	
Knoxville TN - (KNXVTN)	Х	
Beaumont TX - (BMNTTX) *FPARS	Х	Х
Atlanta GA - (ATLNGA)	X	
Augusta GA - (AGSTGA)	X	
Macon GA - (MACNGA)	Х	

Feeder Sites Name	Letter PARS	FPARS
Dominic V Daniels (DVD) NJ - (KRNYNJ)	X	
Mid Hudson NJ - (NWBRNY)	X	
Trenton NJ - (TRENNJ)		
Tulsa OK - (TULSOK) *FPARS	X	X
Grand Island Annex NE - (GRNINE)	X	
Lincoln NE - (LNCLNE)	X	
Norfolk NE - (NRFLNE)	X	
Los Angeles CA - (LNGLCA) *FPARS	Х	X
San Bernardino CA - (RDLNCA)	Х	
San Diego CA - (SADGCA)	Х	
Bakersfield CA - (BKRSCA) *FPARS	X	X
Santa Ana CA - (SAANCA)	X	
Santa Barbara CA - (GOLTCA)	X	
Santa Clarita CA - (SCLACA)	X	
Tucson AZ - (TCSNAZ)	Х	
Altoona PA - (DNCEPA) *FPARS	Х	Х
Erie PA - (ERIEPA)	Х	
Johnstown PA - (JHNSPA)	Х	
Bend OR - (BENDOR)	X	
Eugene OR - (SPFLOR)	Х	
Medford OR - (MDFROR)	Х	
Fayetteville NC - (FYTVNC)	Х	
Rocky Mount NC - (RCKMNC)	Х	
Norfolk VA - (NRFLVA)	Х	
Buffalo NY - (BUFLNY)	Х	
Syracuse NY (SYRCNY)	X	
Fresno CA - (FRSNCA) *FPARS	Х	Х
Oakland CA - (OKLNCA)		
North Bay CA - (PTLMCA)	Х	
San Francisco CA - (SFROCA)	Х	
San Jose CA - (SAJSCA)	Х	
W. Sacramento CA - (WCRCA)	Х	
Cape Girardeau MO - (CPGRMO)	Х	
Columbia MO - (CLMBMO)	Х	
Springfield IL - (SPFLIL)	Х	
Boise ID - (BOISID)	X	
Pocatello ID - (PCTLID)	X	
Provo UT - (PROVUT)	X	
Salt Lake City Annex - (SLLCUTA) *FPARS		Х
Corpus Cristi TX - (CRPCTX)	X	
McAllen TX - (MCLNTX)	X	
Tacoma WA - (TACMWA) *FPARS	X	Х
Dulles VA - (DULSVA)	X	

Feeder Sites Name	Letter PARS	FPARS
Merrifield VA - (MRFLVA)	Х	
Suburban MD - (GTHRMD)	Х	
Washington (Curseen-Morris) DC - (WSHNDC)	X	
Wenatchee WA - (WNTCHWA)	X	
Yakima - (YAKMWA)	X	
West Valley AZ - (PHX3AZ) *FPARS	X	X

^{*}FPARS Sites