

UNITED STATES DEPARTMENT OF AGRICULTURE  
Rural Utilities Service

**REPLACEMENT PAGES**

**BULLETIN 1767B-2**

**SUBJECT: Work Order Procedure (Electric)**

**TO:** All Electric Borrowers  
RUS Electric Staff  
Program Accounting Services Division

**EFFECTIVE DATE:** Date of approval.

**OFFICE OF PRIMARY INTEREST:** Program Accounting and Services Division.

**AVAILABILITY:** The replacement pages are available on the RUS web site at  
<http://www.usda.gov/rus/pasd/main.htm>

**FILING INSTRUCTION:** The revised tables replace parts of existing tables currently published in RUS Bulletin 1767B-2, Work Order Procedures (Electric), dated Jan. 1994.

<b>Remove</b>	<b>Replace with:</b>
Page 88 – 91 Table 1, Distribution Lines – Underground (Appendix I, Exhibit A)	Pages 88 – 94, Rev. 01-02 Table 1, Distribution Lines – Underground (Appendix I, Exhibit A)
Page 92 – 99 Table 2, 14.4/24.9 kV Distribution Lines – Overhead (Appendix I, Exhibit B)	Pages 95 – 99e, Rev. 01-02 Table 2, 14.4/24.9 kV Distribution Lines – Overhead (Appendix I, Exhibit B)

**PURPOSE:** The revised tables concern the applicable retirement units associated with the construction assembly units included in RUS Bulletin 1728F-803, “Specifications and Drawings for 24.9/14.4 kV Line Construction”, dated December 1998, and RUS Bulletin 1728F-806, “Specifications and Drawings for Underground Electric Distribution”, dated June 2000.

With the issuance of RUS Bulletin 1728F-803, borrowers were allowed to use the new drawing numbers or continue using the old drawing number in predecessor, REA Bulletin 50-3 (D-803), for 140 drawings that were carried over from the old bulletin to the new bulletin. These replacement tables are being issued to provide for this dual method.



For Hilda Gay Legg  
Administrator

1/15/02

Date

**Table 1  
Distribution Lines - Underground**

ACCOUNT NO.	364			365				367					368			369		370								
RETIREMENT UNIT	NONE	CROSSARM	MOUNTING BRACKET	CUTOUT	CUTOUT AND ARRESTER	GROUND	RECLOSER	SURGE ARRESTER	CABLE TERMINATION	ENCLOSURE AND COVER	INDICATOR, FAULT	ENCLOSURE, PEDESTAL	SECTIONALIZER	SWITCH, DISCONNECT	PADS, TRANSFORMER	REGULATOR, VOLTAGE	SWITCH, REGULATOR BYPASS	TRANSFORMER, PADMOUNTED	CAPACITORS	CONDUIT OR DUCT	METER LOOP	PEDESTAL	METER BASE (SOCKET)	TRANSFORMER, CURRENT	TRANSFORMER, POTENTIAL	
CONSTRUCTION ASSEMBLY UNIT																										
<b>Primary Terminal Pole Assemblies</b>																										
UA1				1				1	1																	
UA2				1				1	1																	
UA3				1				1	1																	
UB1		2		2				2	2																	
UB2		1	1	2				2	2																	
UB3		1						2	2																	
UB4			1					2	2																	
UC1		2		3				3	3																	
UC2		1	1	3				3	3																	
UC2-1			1	3				3	3																	
UC2-2			1	3				3	3																	
UC5-1		2	1					3	3					3												
UC6-1		2	1					3	3					3												
<b>Transformer Assemblies</b>																										
UG6																		1								
UG6B																		1								
UG7								1										1								
UG7B								1										1								
UG17								3										1								
UG17B								3										1								
UG17-2								6										1								
UG17-2B								6										1								
UG17-3								3										1								
UG17-3B								3										1								

**Table 1  
Distribution Lines - Underground**

ACCOUNT NO.		364			365				367					368			369		370								
RETIREMENT UNIT	NONE	CROSSARM	MOUNTING BRACKET	CUTOUT	CUTOUT AND ARRESTER	GROUND	RECLOSER	SURGE ARRESTER	CABLE TERMINATION	ENCLOSURE AND COVER	INDICATOR, FAULT	ENCLOSURE, PEDESTAL	SECTIONALIZER	SWITCH, DISCONNECT	PADS, TRANSFORMER	REGULATOR, VOLTAGE	SWITCH, REGULATOR BYPASS	TRANSFORMER, PADMOUNTED	CAPACITORS	CONDUIT OR DUCT	METER LOOP	PEDESTAL	METER BASE (SOCKET)	TRANSFORMER, CURRENT	TRANSFORMER, POTENTIAL		
	CONSTRUCTION ASSEMBLY UNIT																										
<b>Secondary Assemblies</b>																											
UJ1-2	X																										
UJ1-3	X																										
UJ1-4	X																										
UJ1-6	X																										
UJ1-8	X																										
UJ2-1	X																										
UJ2-2	X																										
UJ2-4	X																										
UJ2-6	X																										
UJ2-8	X																										
UK5																										1	
UK6																										1	
<b>Pad Assemblies</b>																											
UM1-5C																											A/R
UM1-5NC																											A/R
UM1-6C																											A/R
UM1-7C																											A/R
UM1-7NC																											A/R
<b>Sectionalizing Assemblies</b>																											
UM3-14												1															
UM3-44							1					1		1													
UM3-45							1					1		1													
UM3-46							3					1															
UM3E-1-1A																											
UM3E-1-1B																											
UM3E-1-1C																											
UM3E-1-1D																											
UM3E-1-1E																											
UM3E-1-1F																											
UM3E-1-1G																											

**Table 1  
Distribution Lines - Underground**

ACCOUNT NO.		364		365				367					368			369		370									
RETIREMENT UNIT	NONE	CROSSARM	MOUNTING BRACKET	CUTOUT	CUTOUT AND ARRESTER	GROUND	RECLOSER	SURGE ARRESTER	CABLE TERMINATION	ENCLOSURE AND COVER	INDICATOR, FAULT	ENCLOSURE, PEDESTAL	SECTIONALIZER	SWITCH, DISCONNECT	PADS, TRANSFORMER	REGULATOR, VOLTAGE	SWITCH, REGULATOR BYPASS	TRANSFORMER, PADMOUNTED	CAPACITORS	CONDUIT OR DUCT	METER LOOP	PEDESTAL	METER BASE (SOCKET)	TRANSFORMER, CURRENT	TRANSFORMER, POTENTIAL		
	CONSTRUCTION ASSEMBLY UNIT																										
<b>Sectionalizing Assemblies (cont.)</b>																											
UM3E-2-2A												1															
UM3E-2-2B												1															
UM3E-2-2C												1															
UM3E-2-2D												1															
UM3E-2-2E												1															
UM3E-2-2F												1															
UM3E-3-3B												1															
UM3E-3-3C												1															
UM3E-3-3D												1															
UM3E-3-3E												1															
UM3E-3-3F												1															
UM3E-3-3												1															
UM3E-3-3A												1															
UM3E-3-4												1															
UM3E-3-4A												1															
UM3E-3-5												1															
UM3E-3-5A												1															
UM3E-3-6												1															
UM3E-3-6A												1															
UM3E-3-7												1															
UM3E-3-7A												1															
UM3E-3-8												1															
UM3E-3-8A												1															
UM3E-3-9												1															
UM3E-3-9A												1															
UM3E-3-10												1															
UM3E-3-10A												1															
UM3E-3-11												1															
UM3E-3-11A												1															
UM3E-3-12												1															
UM3E-3-12A												1															



**Table 1  
Distribution Lines - Underground**

ACCOUNT NO.		364		365				367					368			369		370									
RETIREMENT UNIT	NONE	CROSSARM	MOUNTING BRACKET	CUTOUT	CUTOUT AND ARRESTER	GROUND	RECLOSER	SURGE ARRESTER	CABLE TERMINATION	ENCLOSURE AND COVER	INDICATOR, FAULT	ENCLOSURE, PEDESTAL	SECTIONALIZER	SWITCH, DISCONNECT	PADS, TRANSFORMER	REGULATOR, VOLTAGE	SWITCH, REGULATOR BYPASS	TRANSFORMER, PADMOUNTED	CAPACITORS	CONDUIT OR DUCT	METER LOOP	PEDESTAL	METER BASE (SOCKET)	TRANSFORMER, CURRENT	TRANSFORMER, POTENTIAL		
	CONSTRUCTION ASSEMBLY UNIT																										
<b>Miscellaneous Accessories (cont.)</b>																											
UM6-21	X																										
UM6-22	X																										
UM6-24									A/R																		
UM6-26									A/R																		
UM6-28	GUIDE DWG.																										
UM6-32	GUIDE DWG.																										
UM6-33									A/R																		
UM6-34									A/R																		
UM6-35					A/R																						
UM6-36				A/R																							
UM6-37									A/R																		
UM6-38									A/R																		
UM6-39	GUIDE DWG.																										
<b>Regulator Assembly</b>																											
UM7-1		1						1	2							1	1										
<b>Metering Assemblies</b>																											
UM8																				A/R	1		1				
UM8-2																				A/R	1		1				
UM8-3																					1		1				
UM8-3A																					1		1				
UM8-4																				A/R			A/R				
UM8-4A																				A/R			A/R				
UM8-5																	A/R										
UM8-6																				A/R	1		1	A/R	A/R		
UM8-7-A																				A/R	1		1	A/R	A/R		
UM8-7-B																				A/R	1		1	A/R	A/R		
UM8-7-C																				A/R	1		1	A/R	A/R		

**Table 1  
Distribution Lines - Underground**

ACCOUNT NO.		364				365				367				368				369		370						
RETIREMENT UNIT	NONE	CROSSARM	MOUNTING BRACKET	CUTOUT	CUTOUT AND ARRESTER	GROUND	RECLOSER	SURGE ARRESTER	CABLE TERMINATION	ENCLOSURE AND COVER	INDICATOR, FAULT	ENCLOSURE, PEDESTAL	SECTIONALIZER	SWITCH, DISCONNECT	PADS, TRANSFORMER	REGULATOR, VOLTAGE	SWITCH, REGULATOR BYPASS	TRANSFORMER, PADMOUNTED	CAPACITORS	CONDUIT OR DUCT	METER LOOP	PEDESTAL	METER BASE (SOCKET)	TRANSFORMER, CURRENT	TRANSFORMER, POTENTIAL	
<b>CONSTRUCTION ASSEMBLY UNIT</b>																										
<b>Miscellaneous Assemblies</b>																										
UM9-2										1				3						6						1
UM12	X																									
<b>Corrosion Control Assemblies</b>																										
UM27-1	X																									
UM27-2						A/R																				
UM27-3						1																				
UM28	X																									
<b>Sectionalizing Assembly</b>																										
UM33										1																
<b>Grounding Assemblies</b>																										
UM48-1						A/R																				
UM48-2						A/R																				
UM48-3						A/R																				
UM48-4						A/R																				
UM48-5						4																				
UM48-6						A/R																				
<b>Conduit and Trenching Assemblies</b>																										
UR2	X																									
UR2-1	X																									
UR2-2	X																									
UR2-3	X																									
UR2-4	X																									
UR2-5	X																									
UR2-NT	X																									
UR2-ST	X																									

**Table 1  
Distribution Lines - Underground**

ACCOUNT NO.		364	365					367					368				369		370							
RETIREMENT UNIT	NONE	CROSSARM	MOUNTING BRACKET	CUTOUT	CUTOUT AND ARRESTER	GROUND	RECLOSER	SURGE ARRESTER	CABLE TERMINATION	ENCLOSURE AND COVER	INDICATOR, FAULT	ENCLOSURE, PEDESTAL	SECTIONALIZER	SWITCH, DISCONNECT	PADS, TRANSFORMER	REGULATOR, VOLTAGE	SWITCH, REGULATOR BYPASS	TRANSFORMER, PADMOUNTED	CAPACITORS	CONDUIT OR DUCT	METER LOOP	PEDESTAL	METER BASE (SOCKET)	TRANSFORMER, CURRENT	TRANSFORMER, POTENTIAL	
	CONSTRUCTION ASSEMBLY UNIT																									
Guideline Drawings																										
UX1 GUIDE DWG.																										
UX2		*				1					1															
UX3		*									1				1											
UX4 GUIDE DWG.																										
UX5 GUIDE DWG.																										
UX7 GUIDE DWG.																										
UX8 GUIDE DWG.																										
UX11 GUIDE DWG.																										

A/R - As Required  
 \* - If these units are built to the specifications, then referenced retirement unit should be used.



**Table 2**  
**14.4/24.9 kV Distribution Lines - Overhead**

ACCOUNT NO.		364		365				
RETIREMENT UNIT	NONE		CROSSARM		STRING of INSULATORS			
CONSTRUCTION ASSEMBLY UNIT							Bulletin 50-5 (D-803)	
<b>Single Phase Primary Pole Top Assembly Units</b>								
VA1.01	X						VM5-2	
VA1.01P	X						M5-18	
VA1.011	X						VM5-5	
VA1.011P	X						VM5-7	
VA1.011L	X							
VA1.1	X						VA1	
VA1.2	X						VAIA	
VA1.1P	X							
VA1.2P	X							
VA1.3	X							
VA1.3P	X							
VA1.11			1				VA9-1	
VA1.11P			1					
VA1.12G	GUIDE DWG.							
VA2.01	X							
VA2.01P	X							
VA2.021	X							
VA2.021P	X							
VA2.1	X						VA2	
VA2.1P	X							
VA2.21			2				VA9	
VA2.21P			2					
VA3.1					1			
VA3.2					1		VA3	
VA3.3					1			
VA4.1					2		VA4	
VA4.2					2			
VA5.1					1		VA5	
VA5.2					1		VA5-2	
VA5.3					1		VA5-3	
VA5.4					1			
VA5.5G	GUIDE DWG.							
VA5.21			2		1		VA7	

**Table 2**  
**14.4/24.9 kV Distribution Lines - Overhead**

ACCOUNT NO.		364		365				
RETIREMENT UNIT	NONE		CROSSARM		STRING of INSULATORS			
CONSTRUCTION ASSEMBLY UNIT							Bulletin 50-5 (D-803)	
<b>Single Phase Primary Pole Top Assembly Units (cont.)</b>								
VA5.31			3		1		VA7-1	
VA6.1					2			
VA6.2					2			
VA6.21			2		2		VA8	
VA6.22G	GUIDE DWG.							
<b>Two Phase Primary Pole Top Assembly Units</b>								
VB1.11			1				VB1	
VB1.12			1				VB1A	
VB1.11P			1					
VB1.12P			1					
VB1.13			1					
VB1.13P			1					
VB1.14			1				VB9-1	
VB1.41			1					
VB1.14P			1					
VB1.41P			1					
VB2.21			2				VB2	
VB2.21P			2					
VB2.22			2				VB9	
VB2.51			2					
VB2.22P			2					
VB2.51P			2					
VB3.1					2		VB3	
VB4.1					4		VB4-1	
VB5.1					2		VB5-1	
VB5.21			2		2		VB7	
VB5.31			3		2		VB7-1	
VB6.21			2		4		VB8	
VC1.11			1				VC1	
VC1.12			1				VC1B	
VC1.11L			1				VC1-2	
VC1.12L			1					
VC1.11P			1					
VC1.12P			1					
VC1.13			1					
VC1.13L			1				VC1-4	

**Table 2**  
**14.4/24.9 kV Distribution Lines - Overhead**

ACCOUNT NO.		364		365			
RETIREMENT UNIT	NONE	CROSSARM		STRING of INSULATORS			
CONSTRUCTION ASSEMBLY UNIT							Bulletin 50-5 (D-803)
<b>Three Phase Primary Pole Top Assembly Units (cont.)</b>							
VC1.13P			1				
VC1.41			1				VC9-1
VC1.41L			1				VC9-3
VC1.41P			1				
VC1.81G	GUIDE DWG.						
VC2.21			2				VC2
VC2.21L			2				VC1-3
VC2.21P			2				
VC2.51			2				VC9
VC2.51L			2				VC9-2
VC2.51P			2				
VC2.52			2				VC2-1
VC2.52L			2				VC2-2
VC2.52P			2				
VC3.1					3		VC3
VC3.2L					3		VC3-1
VC4.1					6		VC4-1
VC4.2L					6		VC4-1L
VC5.1					3		VC5-1
VC5.2L					3		VC5-1L
VC5.11G	GUIDE DWG.						
VC5.21			2		3		VC7
VC5.31			3		3		VC7-1
VC5.71L			1		3		
VC5.82G	GUIDE DWG.						
VC6.21			2		6		VC8
VC6.31			3		6		
VC6.51			2		6		
VC6.52G	GUIDE DWG.						
VC6.91G	GUIDE DWG.						
<b>Double Circuit Primary Pole Top Assembly Units</b>							
VD1.81			2				VDC-C1
VD1.82			2				
VD1.81L			2				
VD1.82L			2				
VD1.81P			2				
VD1.82P			2				
VD1.83			2				

**Table 2**  
**14.4/24.9 kV Distribution Lines - Overhead**

ACCOUNT NO.			364		365					
RETIREMENT UNIT	NONE		CROSSARM		STRING of INSULATORS					
CONSTRUCTION ASSEMBLY UNIT										Bulletin 50-5 (D-803)
<b>Double Circuit Primary Pole Top Assembly Units (cont.)</b>										
VD1.83L			2							VDC-C1L
VD1.83P			2							
VD2.91			4							VDC-C2-1
VD2.91L			4							VDC-C2-1L
VD2.91P			4							
VD3.1G	GUIDE DWG.									
VD4.1G	GUIDE DWG.									
VD5.91G	GUIDE DWG.									
VD6.91			4		12					



**Table 2**  
**14.4/24.9 kV Distribution Line - Overhead**

ACCOUNT NO.		364		365	368					
RETIREMENT UNIT	NONE	CROSSARM	BRACKET, TRANSFORMER CLUSTER	GROUND	ARRESTER, SURGE	CUTOUT	TRANSFORMER			
<b>CONSTRUCTION ASSEMBLY UNIT</b>									Bulletin 50-5 (D-803)	
<b>Transformer Assembly Units</b>										
G1.1G	GUIDE DWG.								M27-1	
VG1.2							1		VG105	
VG1.3							1		VG106	
VG1.4					1	1	1			
VG1.5					1	1	1			
VG1.6					1	1	1			
VG1.7					1	1	1		VG19	
VG1.8					1	1	1		VG10	
VG2.1		1	1		2	2	2		VG210	
G2.1G	GUIDE DWG.									
VG3.1		1	1		3	3	3		VG310	
G3.1G	GUIDE DWG.									
VG3.2		1	1		3	3	3		VG311	
G3.2G	GUIDE DWG.									
VG3.3		1	1		3	3	3		VG312	
G3.3G	GUIDE DWG.									
<b>Grounding Assembly Units</b>										
H1.1					1				VM2-11	
H2.1					1					
H3.1					1					
H4.1					1				M2-15	
<b>Secondary Assembly Units</b>										
J1.1		X							J8	
J1.2		X							J5	
J2.1		X							J10	
J2.2		X							J7	
J3.1		X							J6	
J4.1		X							J12	



**Table 2**  
**14.4/24.9 Kv Distribution Line - Overhead**

ACCOUNT NO.		364	365	370					
RETIREMENT UNIT	NONE	CROSSARM	ARRESTER, SURGE	CUTOUT	METER	METER SOCKET	TRANSFORMER, POTENTIAL	TRANSFORMER, CURRENT	
<b>CONSTRUCTION ASSEMBLY UNIT</b>									Bulletin 50-5 (D-803)
<b>Protection Assembly Units</b>									
VP1.01			1						VM5-6
VP1.1			1						
VP1.3			3						
P2.1	X								VM2-12
P2.2	X								VM2-12A
P2.3	X								VM2-12A2
VP3.1G	GUIDE DWG.								
VP3.2G	GUIDE DWG.								
VP3.3G	GUIDE DWG.								
<b>Metering Assembly Units</b>									
Q1.1					1	1		1	M8
Q3.1					1	1		2	M8-6
Q3.2					1	1		2	M8-12
Q3.3					1	1		2	M8-11
VQ4.1		3	3	3	1	1	3	3	





**Table 2**  
**14.4/24.9 kV Distribution Line - Overhead**

ACCOUNT NO.		364		365		368						
RETIREMENT UNIT	CROSSARM	REGULATOR PLATFORM	ARRESTER, SURGE	STRING OF INSULATORS	CAPACITOR HANGER, CLUSTER TYPE	CUTOUT	REGULATOR BYPASS SWITCH	CAPACITOR	VOLTAGE REGULATOR, STEP TYPE	TRANSFORMER (AUTO)		
CONSTRUCTION ASSEMBLY UNIT											Bulletin 50-5 (D-803)	
<b>Voltage Alteration Equipment Assembly Units</b>												
VY1.1			1	1			1		1			
VY1.3			3	3			3		3		VM7-3	
VY2.1	1		2	2		1				1		
VY3.2	1		2		1	2		A/R				
VY3.3	1		3		1	3		A/R				