

Inspection Report - Insulation Tests & Inspections

Division: POWDER RIVER Asset ID: BABK6ME

Subdivision: BLACK HILLS **Test Date:** 05/10/2007

Milepost (with Line Segment): 4 476.40 - 476.40 State: SD

Location / Highway Name: City Track

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

Conditions Master Key

C = Test completed, condition left in compliance. Indicates that all wires in trunking and cable measured 500K Ohms and above.

A = Annual test required; insulation resistance between 500K and 200K Ohms. Prompt action shall be taken to remedy condition.

R = Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.

NT = The equipment was not tested in this inspection.

N = No inspection required. This is an annual re-inspection of a different conductor.

Insulation Tests (FRA 234.267, 236.108)									
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Underground	2	6	CASE	SWCC	С				

Report ID: 01019999 Report Form Type: 10y Insulation



Inspection Report - Relay Tests & Inspections

Division: POWDER RIVER Asset ID: BABK6ME

Subdivision: BLACK HILLS **Test Date:** 11/19/2010

Milepost (with Line Segment): 4 476.40 - 476.40 State: SD

Location / Highway Name: City Track

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

- Conditions Master Key
 C = Test completed, condition left in compliance.
 R = Replacements made (identified in associated comments), test completed, and condition left in compliance.
 V = Visual inspection completed, condition left in compliance.
 NT = The equipment was not tested in this inspection.
 N = No inspection required. The given relay does not require inspection at this time.

Relay Tests (FRA 234.263, 236.106)									
Shelf Name E	Relay Name 1-TNWPR		Serial Number Condition Left C						
Relay Type (Drawing and/or Catalog Nu B1 (56001-921 GR.9 / A62-120)		Resistance (Ohms)		tacts -2F-1B		Date Tested 11/19/2010			
Neutral Dropaway 0.0800 A DC				tral Working 310 A DC					

Report ID: 02301848
Report Form Type: 4y Relay



Division: POWDER RIVER Asset ID: BABK6ME

Subdivision: BLACK HILLS **Test Date:** 10/30/2014

Milepost: 4 476.40 - 476.40 **State:** SD

Location: City Track **County:** FALL RIVER

Employee's Name: Wayne Strozzi **PARS Number:** SINS0222

Conditions Key

C = Test completed, condition left in compliance.

R = Replacements made (identified in associated comments), test completed, and condition left in compliance.

V = Visual inspection completed, condition left in compliance.

NT = The equipment was not tested in this inspection

N = No inspection required. The given relay does not require inspection at this time.

	Relay Tests (FRA 234.263, 236.106)									
Shelf Name E	Relay Name 1-TNWPR	Tested 10/30/2014	Condition							
Relay	Serial No. 47281P110	Type (Drawing/0 B1 (56001-921 G		Resistance 2		Contacts 4FB-2F-1B				
B1 (56001-921 GR.9 / A62-120)	Neutral Dropaway 0.0670 A DC		Neutral Pickup 0.1540 A DC		Neutral Working 0.1540)				

Report ID: 3838842

Report Form Type: 4y Relay



Division: POWDER RIVER BABK6PT Asset ID:

Subdivision: BLACK HILLS **Test Date:** 02/09/2007

Milepost (with Line Segment): 4 476.50 - 476.50 State: SD

Location / Highway Name: West Main ESL

County: FALL RIVER

Employee's Name: Dale Niswender (dniswend) PARS Number: SINS0222

Conditions Master Key

= Test completed, no exceptions found, and condition left in compliance.
= Adjustments made (identified in associated comments), test completed, and condition left in compliance.
= Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.
= Baseline data matches that recorded during the most recent Baseline test, so full test not required.

Governed by Special Instruction

 NT = The equipment was not tested in this inspection. N = Test Not Applicable.

NI = No Inspection Required.

CO = Compliant
NC = Not compliant

= Pass = Fail

NOTE: Entry of results of tests indicates for approach locking that all track sections in approach are effective, and for time locking each time locking circuit is effective.

Locking Tests											
Route Nomenclature	Date Tested	Mechanical (FRA 236.376)	Approach (FRA 236.377)	Time (FRA 236.378)	Route (FRA 236.379)	Indication (FRA 236.380)	Traffic (FRA 236.381)				
W MAIN 476 50(el.lk)	02/09/2007	N	С	N	N	N	N				

Report ID: 00931071 Report Form Type: 2y Locking



Division: POWDER RIVER BABK6PT Asset ID:

Subdivision: BLACK HILLS Test Date: 02/05/2009

Milepost (with Line Segment): 4 476.50 - 476.50 State: SD

Location / Highway Name: West Main ESL

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

Conditions Master Key

= Test completed, no exceptions found, and condition left in compliance.
= Adjustments made (identified in associated comments), test completed, and condition left in compliance.
= Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.
= Baseline data matches that recorded during the most recent Baseline test, so full test not required.

Governed by Special Instruction

 NT = The equipment was not tested in this inspection. N = Test Not Applicable.

NI = No Inspection Required.

CO = Compliant
NC = Not compliant

P = Pass F = Fail

NOTE: Entry of results of tests indicates for approach locking that all track sections in approach are effective, and for time locking each time locking circuit is effective.

Locking Tests										
Route Nomenclature	Date Tested	Mechanical (FRA 236.376)	Approach (FRA 236.377)	Time (FRA 236.378)	Route (FRA 236.379)	Indication (FRA 236.380)	Traffic (FRA 236.381)			
W MAIN 476 50(el.lk)	02/05/2009	N	С	N	N	N	N			

Report ID: 01637741 Report Form Type: 2y Locking



Division: POWDER RIVER BABK6PT Asset ID:

Subdivision: BLACK HILLS **Test Date:** 09/01/2010

Milepost (with Line Segment): 4 476.50 - 476.50 State: SD

Location / Highway Name: West Main ESL

County: FALL RIVER

Employee's Name: Kevin Walters (kwalters) PARS Number: SETX0232

Conditions Master Key

= Test completed, no exceptions found, and condition left in compliance.
= Adjustments made (identified in associated comments), test completed, and condition left in compliance.
= Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.
= Baseline data matches that recorded during the most recent Baseline test, so full test not required.

Governed by Special Instruction

 NT = The equipment was not tested in this inspection. N = Test Not Applicable.

NI = No Inspection Required.

CO = Compliant
NC = Not compliant

= Pass = Fail

NOTE: Entry of results of tests indicates for approach locking that all track sections in approach are effective, and for time locking each time locking circuit is effective.

Locking Tests											
Route Nomenclature	Date Tested	Mechanical (FRA 236.376)	Approach (FRA 236.377)	Time (FRA 236.378)	Route (FRA 236.379)	Indication (FRA 236.380)	Traffic (FRA 236.381)				
W MAIN 476 50(el.lk)	09/01/2010	N	Ν	С	N	N	N				

Report ID: 02219686 Report Form Type: 2y Locking



Division: POWDER RIVER BABK6PT Asset ID: Subdivision: BLACK HILLS **Test Date:** 08/09/2012

Milepost (with Line Segment): 4 476.50 - 476.50 State: SD

Location / Highway Name: West Main ESL

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

Conditions Master Key

= Test completed, no exceptions found, and condition left in compliance.
= Adjustments made (identified in associated comments), test completed, and condition left in compliance.
= Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.
= Baseline data matches that recorded during the most recent Baseline test, so full test not required.

Governed by Special Instruction

 NT = The equipment was not tested in this inspection. N = Test Not Applicable.

NI = No Inspection Required.

CO = Compliant
NC = Not compliant

= Pass = Fail

NOTE: Entry of results of tests indicates for approach locking that all track sections in approach are effective, and for time locking each time locking circuit is effective.

Locking Tests											
Route Nomenclature	Date Tested	Mechanical (FRA 236.376)	Approach (FRA 236.377)	Time (FRA 236.378)	Route (FRA 236.379)	Indication (FRA 236.380)	Traffic (FRA 236.381)				
W MAIN 476 50(el.lk)	08/09/2012	N	Ν	С	N	N	N				

Report ID: 02966567 Report Form Type: 2y Locking



Division: POWDER RIVER BABK6PT Asset ID: Subdivision: BLACK HILLS **Test Date:** 07/10/2014

Milepost (with Line Segment): 4 476.50 - 476.50 State: SD

Location / Highway Name: West Main ESL

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

Conditions Master Key

= Test completed, no exceptions found, and condition left in compliance.
= Adjustments made (identified in associated comments), test completed, and condition left in compliance.
= Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.
= Baseline data matches that recorded during the most recent Baseline test, so full test not required.

Governed by Special Instruction

 NT = The equipment was not tested in this inspection. N = Test Not Applicable.

NI = No Inspection Required.

CO = Compliant
NC = Not compliant

P = Pass F = Fail

NOTE: Entry of results of tests indicates for approach locking that all track sections in approach are effective, and for time locking each time locking circuit is effective.

Locking Tests											
Route Nomenclature	Date Tested	Mechanical (FRA 236.376)	Approach (FRA 236.377)	Time (FRA 236.378)	Route (FRA 236.379)	Indication (FRA 236.380)	Traffic (FRA 236.381)				
W MAIN 476 50(el.lk)	07/11/2014	N	N	С	N	N	N				

Report ID: 03720487 Report Form Type: 2y Locking



Division: POWDER RIVER BABK6PT Asset ID:

Subdivision: BLACK HILLS **Test Date:** 06/15/2016

Milepost (with Line Segment): 4 476.50 - 476.50 State: SD

Location / Highway Name: West Main ESL

County: FALL RIVER

Employee's Name: David Thieme (dthieme) PARS Number: SINS0222

Conditions Master Key

= Test completed, no exceptions found, and condition left in compliance.
= Adjustments made (identified in associated comments), test completed, and condition left in compliance.
= Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.
= Baseline data matches that recorded during the most recent Baseline test, so full test not required.

Governed by Special Instruction

 NT = The equipment was not tested in this inspection. N = Test Not Applicable.

NI = No Inspection Required.

CO = Compliant
NC = Not compliant

P = Pass F = Fail

NOTE: Entry of results of tests indicates for approach locking that all track sections in approach are effective, and for time locking each time locking circuit is effective.

Locking Tests										
Route Nomenclature	Date Tested	Mechanical (FRA 236.376)	Approach (FRA 236.377)	Time (FRA 236.378)	Route (FRA 236.379)	Indication (FRA 236.380)	Traffic (FRA 236.381)			
W MAIN 476 50(el.lk)	06/15/2016	N	Ν	С	N	N	N			

Report ID: 04481182 Report Form Type: 2y Locking



Inspection Report - Insulation Tests & Inspections

Division: POWDER RIVER Asset ID: BABK6PT

Subdivision: BLACK HILLS **Test Date:** 05/10/2007

Milepost (with Line Segment): 4 476.50 - 476.50 State: SD

Location / Highway Name: West Main ESL

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

Conditions Master Key

C = Test completed, condition left in compliance. Indicates that all wires in trunking and cable measured 500K Ohms and above.

A = Annual test required; insulation resistance between 500K and 200K Ohms. Prompt action shall be taken to remedy condition.

R = Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.

NT = The equipment was not tested in this inspection.

N = No inspection required. This is an annual re-inspection of a different conductor.

Insulation Tests (FRA 234.267, 236.108)								
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.			
Underground	7	14	CASE	J. BOX	С			

Report ID: 01020000 Report Form Type: 10y Insulation



Inspection Report - Insulation Tests & Inspections

Division: POWDER RIVER Asset ID: BABK6PT

Subdivision: BLACK HILLS 12/18/2013 Test Date:

Milepost (with Line Segment): 4 476.50 - 476.50 State: SD

Location / Highway Name: West Main ESL

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

Conditions Master Key

C = Test completed, condition left in compliance. Indicates that all wires in trunking and cable measured 500K Ohms and above.

A = Annual test required; insulation resistance between 500K and 200K Ohms. Prompt action shall be taken to remedy condition.

R = Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.

NT = The equipment was not tested in this inspection.

N = No inspection required. This is an annual re-inspection of a different conductor.

Insulation Tests (FRA 234.267, 236.108) Cable Type Conductors Wire Size Run From Run To Cond.									
Cable Type	Run To	Cond.							
Underground	7	14	CASE	J. BOX	NT				
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Underground	7	14	HOUSE	E.L CASE	С				

Report ID: 03503313 Report Form Type: 10y Insulation



Inspection Report - Relay Tests & Inspections

Division: POWDER RIVER Asset ID: BABK6PT

Subdivision: BLACK HILLS **Test Date:** 11/19/2010

Milepost (with Line Segment): 4 476.50 - 476.50 State: SD

Location / Highway Name: West Main ESL

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

 $\begin{array}{ll} \underline{Conditions\ Master\ Key} \\ C\ =\ Test\ completed,\ condition\ left\ in\ compliance. \end{array}$

- C = Test completed, condition left in compliance.

 R = Replacements made (identified in associated comments), test completed, and condition left in compliance.

 V = Visual inspection completed, condition left in compliance.

 NT = The equipment was not tested in this inspection.

 N = No inspection required. The given relay does not require inspection at this time.

		Relay Tests (FRA	A 234.263, 236.106)				
Shelf Name E	Relay Name O-TR		Serial Number 178-G44		Condition Left		
Relay Type (Drawing and/or Catalog Nu B1 (56001-783 GR.2 / A62-277)	imber)		Resistance (Ohms) 500		ntacts 3-2F-1B		Date Tested 11/19/2010
		Neutral Pickup 0.0100 A DC			Neutral Working 0.0100 A DC		
Shelf Name E	Relay Name NWLPR		Serial Number 178-G33		Condition Left		
Relay Type (Drawing and/or Catalog Nu B1 (56001-783 GR.2 / A62-277)	imber)		Resistance (Ohms) 500		ntacts 3-2F-1B		Date Tested 11/19/2010
Neutral Dropaway 0.0070 A DC		Neutral Pickup 0.0100 A DC			itral Working 100 A DC		
Shelf Name E	Relay Name 2-TPR		Serial Number 178-F44		Condition Left		
Relay Type (Drawing and/or Catalog Nu B1 (56001-783 GR.2 / A62-277)	imber)		Resistance (Ohms) 500		ntacts 3-2F-1B		Date Tested 11/19/2010
Neutral Dropaway 0.0060 A DC		Neutral Pickup 0.0110 A DC			itral Working 110 A DC	·	
Shelf Name E	Relay Name TER		Serial Number 60742S001	·	Condition Left		
Relay Type (Drawing and/or Catalog Nu B2 (50800-100 GR.1 / A62-627)	imber)		Resistance (Ohms) 500		ntacts 3-3F-2B		Date Tested 11/19/2010
Shelf Name EL	Relay Name WL		Serial Number D78-007		Condition Left		
Relay Type (Drawing and/or Catalog Nu 9B	imber)		Resistance (Ohms) 200	Cor	tacts		Date Tested 11/19/2010
Neutral Dropaway 0.0030 A DC		Neutral Pickup 0.0260 A DC			itral Working 260 A DC		

Report ID: 02301849 Report Form Type: 4y Relay



Inspection Report - Relay Tests & Inspections

Division: POWDER RIVER Asset ID: BABK6PT

Subdivision: BLACK HILLS **Test Date:** 11/15/2013

Milepost (with Line Segment): 4 476.50 - 476.50 State: SD

Location / Highway Name: West Main ESL

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

- Conditions Master Key
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 V = Visual inspection completed, condition left in compliance.
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		Relay Tests (F	RA 234.263, 236.106)		
Shelf Name E	Relay Name O-TR		Serial Number 178-G44		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu B1 (56001-783 GR.2 / A62-277)	mber)		Resistance (Ohms) 500	Cont 4FB	tacts -2F-1B	Date Tested Not Tested
Shelf Name E	Relay Name NWLPR		Serial Number 178-G33			·
Relay Type (Drawing and/or Catalog Nu B1 (56001-783 GR.2 / A62-277)	mber)		Resistance (Ohms) 500	Cont 4FB	acts -2F-1B	Date Tested Not Tested
Shelf Name E	Relay Name 2-TPR		Serial Number 178-F44		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu B1 (56001-783 GR.2 / A62-277)	mber)		Resistance (Ohms) 500	Cont 4FB	tacts -2F-1B	Date Tested Not Tested
Shelf Name E	Relay Name TER		Serial Number 60742S001		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu B2 (50800-100 GR.1 / A62-627)	mber)		Resistance (Ohms) 500	Cont 2FB	tacts -3F-2B	Date Tested Not Tested
Shelf Name EL	Relay Name WL		Serial Number 700620		Condition Left C	
Relay Type (Drawing and/or Catalog Nu 9B	mber)		Resistance (Ohms) 200	Cont	tacts	Date Tested 11/15/2013
Neutral Dropaway 0.0039 A DC		Neutral Pickup 0.0249 A DC			ral Working 49 A DC	

Report ID: 03468987 Report Form Type: 4y Relay



Inspection Report Relay Tests & Inspections

Division: POWDER RIVER **Asset ID:** BABK6PT

Subdivision: BLACK HILLS Test Date: 10/30/2014

Milepost: 4 476.50 - 476.50 **State:** SD

Location: West Main ESL

County: FALL RIVER

Employee's Name: Wayne Strozzi **PARS Number:** SINS0222

Conditions Key

- C = Test completed, condition left in compliance.
- R = Replacements made (identified in associated comments), test completed, and condition left in compliance.
- V = Visual inspection completed, condition left in compliance.
- NT = The equipment was not tested in this inspection
- N = No inspection required. The given relay does not require inspection at this time.

		Rela	y Tests (FRA	234.263, 23	6.106)	
Shelf Name E	Relay Name O-TR	Tested 10/30/2014	Condition			
Relay	Serial No. 178-G44	Type (Drawing/ B1 (56001-783 G		Resistance 500		Contacts 4FB-2F-1B
B1 (56001-783 GR.2 / A62-277)	Neutral Dropay 0.0050 A DC	way	Neutral Pickup 0.0090 A DC)	Neutral Workin 0.0090	g
Shelf Name E	Relay Name NWLPR	Tested 10/30/2014	Condition			
Relay B1 (56001-783	Serial No. 178-G33	Type (Drawing/ B1 (56001-783 G		Resistance 500		Contacts 4FB-2F-1B
GR.2 / A62-277)	Neutral Dropay 0.0070 A DC	way	Neutral Pickup 0.0100 A DC	Neutral Working 0.0100		g
Shelf Name E	Relay Name 2-TPR	Tested 10/30/2014	Condition			
Relay	Serial No. 178-F44	Type (Drawing/ B1 (56001-783 G		Resistance 500		Contacts 4FB-2F-1B
B1 (56001-783 GR.2 / A62-277)	Neutral Dropay 0.0050 A DC	way	Neutral Pickup 0.0100 A DC)	Neutral Workin 0.0100	g
Shelf Name E	Relay Name TER	Tested 10/30/2014	Condition V			
Relay B2 (50800-100 GR.1 / A62-627)	Serial No. 60742S001	Type (Drawing/ B2 (50800-100 G		Resistance 500		Contacts 2FB-3F-2B
Shelf Name EL	Relay Name WL	Tested 10/30/2014	Condition			
Relay	Serial No. 700620	Type (Drawing/ 9B	Catalog No.)	Resistance 200		Contacts
9B	Neutral Dropay 0.0030 A DC	way	Neutral Pickup 0.0240 A DC)	Neutral Workin 0.0240	g

Report ID: 3838843

Report Form Type: 4y Relay



Inspection Report - Insulation Tests & Inspections

Division: POWDER RIVER Asset ID: 064884L

Subdivision: BLACK HILLS Test Date: 05/10/2007

Milepost (with Line Segment): 4 476.51 - 476.51 State: SD

Location / Highway Name: US HWY 18

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

Conditions Master Key

C = Test completed, condition left in compliance. Indicates that all wires in trunking and cable measured 500K Ohms and above.

A = Annual test required; insulation resistance between 500K and 200K Ohms. Prompt action shall be taken to remedy condition.

R = Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.

NT = The equipment was not tested in this inspection.

N = No inspection required. This is an annual re-inspection of a different conductor.

	Insulation Tests (FRA 234.267, 236.108)										
Cable Type Underground	Conductors 2	Wire Size 9	Run From HOUSE	Run To CASE # MP 476.5	Cond.						
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.						
Underground	5	9	HOUSE	SIG#1							
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.						
Underground	5	9	HOUSE	SIG.#1							
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.						
Underground	5	9	HOUSE	SIG.#2							
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.						
Underground	5	9	HOUSE	SIG.#2							

Report ID: 01019997 Report Form Type: 10y Insulation



Inspection Report - Relay Tests & Inspections

Division: POWDER RIVER Asset ID: 064884L

Subdivision: BLACK HILLS **Test Date:** 04/11/2007

Milepost (with Line Segment): 4 476.51 - 476.51 State: SD

Location / Highway Name: US HWY 18

County: FALL RIVER

Employee's Name: Dale Niswender (dniswend) PARS Number: SINS0222

 $\begin{array}{ll} \underline{\textbf{Conditions Master Key}} \\ \textbf{C} & = \texttt{Test} \texttt{ completed, condition left in compliance.} \end{array}$

- C = Test completed, condition left in compliance.

 R = Replacements made (identified in associated comments), test completed, and condition left in compliance.

 V = Visual inspection completed, condition left in compliance.

 NT = The equipment was not tested in this inspection.

 N = No inspection required. The given relay does not require inspection at this time.

		Relay Tests (FR	A 234.263, 236.106))		
Shelf Name DD	Relay Name POR		Serial Number L765814		Condition Left	
Relay Type (Drawing and/or Catalog Nu PN-150P (322508-002)	imber)		Resistance (Ohms) 240		tacts 4BHD	Date Tested 04/11/2007
Neutral Dropaway 7.3000 V AC		Neutral Pickup 9.7000 V AC			tral Working 000 V AC	
Shelf Name DD	Relay Name EOR		Serial Number B1395313			
Relay Type (Drawing and/or Catalog Nu PN-150F (N322530-701)	ımber)		Resistance (Ohms) 60	Con 6FB	tacts	Date Tested Not Tested
Shelf Name DD	Relay Name XR		Serial Number L796998		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	imber)		Resistance (Ohms) 400	Con 6FB	tacts	Date Tested Not Tested
Shelf Name DD	Relay Name XRP		Serial Number L831893		Condition Left NT	·
Relay Type (Drawing and/or Catalog Nu PN-150HD (322505-001)	imber)		Resistance (Ohms) Con 400 6FB		tacts	Date Tested Not Tested
Shelf Name DC	Relay Name XGR		Serial Number L892302		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu PN-259BSR (322562-001)	imber)		Resistance (Ohms) 225	Con 6FB	tacts	Date Tested Not Tested
Shelf Name DB	Relay Name 2-TR		Serial Number L918061		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu PN-150BTR (322501-702)	imber)		Resistance (Ohms) 4	Con 6F-6	tacts 6B	Date Tested Not Tested
Shelf Name GATE # 1	Relay Name 1 MCR		Serial Number 6080		Condition Left	
Relay Type (Drawing and/or Catalog Nu WCH (38-0050-200)	ımber)		Resistance (Ohms) 1000		tacts 3 HD	Date Tested 04/11/2007
Neutral Dropaway 0.0031 A DC		Neutral Pickup 0.0060 A DC			tral Working 060 A DC	
Shelf Name GATE # 2	Relay Name 2 MCR		Serial Number 6078		Condition Left	
Relay Type (Drawing and/or Catalog Nu WCH (38-0050-200)	ımber)		Resistance (Ohms) 1000		tacts 3 HD	Date Tested 04/11/2007
Neutral Dropaway 0.0034 A DC				Neu 0.00		

Report ID: 00990674 Report Form Type: 4y Relay



Inspection Report - Relay Tests & Inspections

Division: POWDER RIVER Asset ID: 064884L

Subdivision: BLACK HILLS **Test Date:** 12/02/2010

Milepost (with Line Segment): 4 476.51 - 476.51 State: SD

Location / Highway Name: US HWY 18

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

- Conditions Master Key
 C = Test completed, condition left in compliance.
 R = Replacements made (identified in associated comments), test completed, and condition left in compliance.
 V = Visual inspection completed, condition left in compliance.
 NT = The equipment was not tested in this inspection.
 N = No inspection required. The given relay does not require inspection at this time.

		Relay Tests (FRA	A 234.263, 236.106)			
Shelf Name DD	Relay Name POR		Serial Number		Condition Left		
Relay Type (Drawing and/or Catalog Nu PN-150P (322508-002)	imber)		Resistance (Ohms) 240		itacts 4BHD	Date Tested 12/02/2010	
Neutral Dropaway 5.9200 V AC		Neutral Pickup 9.8400 V AC			tral Working 400 V AC	•	
Shelf Name DD	Relay Name EOR		Serial Number B1395313	·	Condition Left		
Relay Type (Drawing and/or Catalog Nu PN-150F (N322530-701)	imber)		Resistance (Ohms) 60			Date Tested 12/02/2010	
Neutral Dropaway 0.0290 A DC		Neutral Pickup 0.0560 A DC			Neutral Working 0.0560 A DC		
Shelf Name DD	Relay Name XR		Serial Number L796998				
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	imber)		Resistance (Ohms) 400	Con 6FE	tacts	Date Tested 12/02/2010	
Neutral Dropaway 0.0070 A DC	Neutral Dropaway Neutral Pickup 0.0070 A DC 0.0110 A DC				tral Working 110 A DC	·	
Shelf Name DD	Relay Name XRP		Serial Number L831893	·	Condition Left		
Relay Type (Drawing and/or Catalog Nu PN-150HD (322505-001)	imber)		Resistance (Ohms) 400	Con 6FE	tacts	Date Tested 12/02/2010	
Neutral Dropaway 0.0070 A DC		Neutral Pickup 0.0140 A DC			tral Working 140 A DC		
Shelf Name DC	Relay Name XGR		Serial Number L892302	·	Condition Left		
Relay Type (Drawing and/or Catalog Nu PN-259BSR (322562-001)	imber)		Resistance (Ohms) 225	Con 6FE	tacts	Date Tested 12/02/2010	
Neutral Dropaway 0.0060 A DC		Neutral Pickup 0.0230 A DC			tral Working 230 A DC	·	
Shelf Name DB	Relay Name 2-TR		Serial Number L918061		Condition Left		
Relay Type (Drawing and/or Catalog Nu PN-150BTR (322501-702)	ımber)		Resistance (Ohms)	Con 6F-	tacts 6B	Date Tested 12/02/2010	
		Neutral Pickup 0.1260 A DC			tral Working 260 A DC		

Report ID: 02313083 Report Form Type: 4y Relay



Inspection Report Relay Tests & Inspections

Division: POWDER RIVER **Asset ID:** 064884L

Subdivision: BLACK HILLS Test Date: 10/30/2014

Location: US HWY 18 **County:** FALL RIVER

Employee's Name: Wayne Strozzi **PARS Number:** SINS0222

Conditions Key

- C = Test completed, condition left in compliance.
- R = Replacements made (identified in associated comments), test completed, and condition left in compliance.
- V = Visual inspection completed, condition left in compliance.
- NT = The equipment was not tested in this inspection
- N = No inspection required. The given relay does not require inspection at this time.

		Rela	y Tests (FRA	234.263, 23	6.106)	
Shelf Name DD	Relay Name EOR	Tested 10/30/2014	Condition			
Relay PN-150F	Serial No. B1395313	Type (Drawing/ PN-150F (N3225)		Resistance 60		Contacts 6FB
(N322530-701)	Neutral Dropa 0.0280 A DC	way	Neutral Pickup 0.0580 A DC	Neutral Workin 0.0580		g
Shelf Name DD	Relay Name XR	Tested 10/30/2014	Condition		•	
Relay PN-150B	Serial No. L796998	Type (Drawing/ PN-150B (N3225		Resistance 400		Contacts 6FB
(N322500-701 / 4A1)	Neutral Dropa 0.0060 A DC	way	Neutral Pickup 0.0110 A DC	Neutral Working 0.0110		g
Shelf Name DD	Relay Name XRP	Tested 10/30/2014	Condition			
Relay PN-150HD	Serial No. L831893	Type (Drawing/ PN-150HD (3225		Resistance 400		Contacts 6FB
(322505-001)	Neutral Dropa 0.0070 A DC	way	Neutral Pickup 0.0120 A DC)	Neutral Workin 0.0120	g
Shelf Name DC	Relay Name XGR	Tested 10/30/2014	Condition		·	
Relay PN-259BSR	Serial No. L892302	Type (Drawing/ PN-259BSR (322)		Resistance 225		Contacts 6FB
(322562-001)	Neutral Dropa 0.0060 A DC	way	Neutral Pickup 0.0220 A DC)	Neutral Workin 0.0220	g
Shelf Name DB	Relay Name 2-TR	Tested 10/30/2014	Condition			
Relay PN-150BTR	Serial No. L918061	Type (Drawing/ PN-150BTR (322)		Resistance 4		Contacts 6F-6B
(322501-702)	Neutral Dropa 0.0590 A DC	way	Neutral Pickup 0.1340 A DC)	Neutral Workin 0.1340	g

Report ID: 3838841

Report Form Type: 4y Relay



Relay Tests & Inspections

Division: POWDER RIVER Asset ID: 064884L

Subdivision: BLACK HILLS Test Date: 11/12/2014

Milepost: 4 476.51 - 476.51 State: SD

Location: US HWY 18 County: FALL RIVER

Employee's Name: Wayne Strozzi PARS Number: SINS0222

Conditions Key

- C = Test completed, condition left in compliance.
- R = Replacements made (identified in associated comments), test completed, and condition left in compliance.
- V = Visual inspection completed, condition left in compliance.
- NT = The equipment was not tested in this inspection
- N = No inspection required. The given relay does not require inspection at this time.

		Rela	ay Tests (FRA	3234.263, 23	6.106)	
Shelf Name DD	Relay Name EOR	Tested 11/12/2014	Condition R			
			Comments: C	nents: contacts burnt		
Replaced Relay	Serial No. B1395313	Type (Drawing PN-150F (N3225		Resistance 60		Contacts 6FB
PN-150F (N322530-701)	Neutral Dropa 0.0270 A DC	way	Neutral Pickup 0.0550 A DC)	Neutral Workin 0.0550	g
New Relay PN-150F	Serial No. B2696260	Type (Drawing PN-150F (N3225		Resistance 60		Contacts 6FB
(N322530-701)	Neutral Dropa 0.0270 A DC	way	Neutral Pickup 0.0550 A DC)	Neutral Workin 0.0550	g
Shelf Name DD	Relay Name XR	Tested Not Tested	Condition NT			
Relay PN-150B (N322500-701 / 4A1)	Serial No. L796998	Type (Drawing PN-150B (N3225		Resistance 400		Contacts 6FB
Shelf Name DD	Relay Name XRP	Tested Not Tested	Condition NT			
Relay PN-150HD (322505-001)	Serial No. L831893	Type (Drawing PN-150HD (3225		Resistance 400		Contacts 6FB
Shelf Name DC	Relay Name XGR	Tested Not Tested	Condition NT			
Relay PN-259BSR (322562-001)	Serial No. L892302	Type (Drawing PN-259BSR (322		Resistance 225		Contacts 6FB
Shelf Name DB	Relay Name 2-TR	Tested Not Tested	Condition NT			
Relay PN-150BTR (322501-702)	Serial No. L918061	Type (Drawing PN-150BTR (322		Resistance 4		Contacts 6F-6B

Report ID: 3854497

Report Form Type: 4y Relay



Division: POWDER RIVER BABK6SG Asset ID:

Subdivision: BLACK HILLS **Test Date:** 02/09/2007

Milepost (with Line Segment): 4 476.60 - 476.60 State: SD

Location / Highway Name: East Deadwood ESL

County: FALL RIVER

Employee's Name: Dale Niswender (dniswend) PARS Number: SINS0222

Conditions Master Key

= Test completed, no exceptions found, and condition left in compliance.
= Adjustments made (identified in associated comments), test completed, and condition left in compliance.
= Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.
= Baseline data matches that recorded during the most recent Baseline test, so full test not required.

Governed by Special Instruction

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NI = No Inspection Required.

CO = Compliant
NC = Not compliant

= Pass = Fail

NOTE: Entry of results of tests indicates for approach locking that all track sections in approach are effective, and for time locking each time locking circuit is effective.

Locking T	ests					
Route Nomenclature	Date Tested	Mechanical (FRA 236.376) Approach	(FRA 236.377) Time (FRA 236.378)	Route (FRA 236.379)	Indication (FRA 236.380)	Traffic (FRA 236.381)
EAST DEADWOOD(el.lk)	02/09/2007	N C		Ν	Ν	N

Report ID: 00931072 Report Form Type: 2y Locking



Division: POWDER RIVER BABK6SG Asset ID:

Subdivision: BLACK HILLS Test Date: 02/05/2009

Milepost (with Line Segment): 4 476.60 - 476.60 State: SD

Location / Highway Name: East Deadwood ESL

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

Conditions Master Key

= Test completed, no exceptions found, and condition left in compliance.
= Adjustments made (identified in associated comments), test completed, and condition left in compliance.
= Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.
= Baseline data matches that recorded during the most recent Baseline test, so full test not required.

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NI = No Inspection Required.

CO = Compliant
NC = Not compliant

= Pass = Fail

NOTE: Entry of results of tests indicates for approach locking that all track sections in approach are effective, and for time locking each time locking circuit is effective.

Locking Tests							
Route Nomenclature	Date Tested	Mechanical (FRA 236.376)	Approach (FRA 236.377)	Time (FRA 236.378)	Route (FRA 236.379)	Indication (FRA 236.380)	Traffic (FRA 236.381)
EAST DEADWOOD(el.lk)	02/05/2009	N	С	N	N	N	N

Report ID: 01637742 Report Form Type: 2y Locking



Division: POWDER RIVER BABK6SG Asset ID: **Subdivision:** BLACK HILLS **Test Date:** 09/01/2010

Milepost (with Line Segment): 4 476.60 - 476.60 State: SD

Location / Highway Name: East Deadwood ESL

County: FALL RIVER

Employee's Name: Kevin Walters (kwalters) PARS Number: SETX0232

Conditions Master Key

= Test completed, no exceptions found, and condition left in compliance.
= Adjustments made (identified in associated comments), test completed, and condition left in compliance.
= Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.
= Baseline data matches that recorded during the most recent Baseline test, so full test not required.

Governed by Special Instruction

 NT = The equipment was not tested in this inspection. N = Test Not Applicable.

NI = No Inspection Required.

CO = Compliant
NC = Not compliant

= Pass = Fail

NOTE: Entry of results of tests indicates for approach locking that all track sections in approach are effective, and for time locking each time locking circuit is effective.

Locking	Tests						
Route Nomenclature	Date Tested	Mechanical (FRA 236.376)	Approach (FRA 236.377)	Time (FRA 236.378)	Route (FRA 236.379)	Indication (FRA 236.380)	Traffic (FRA 236.381)
EAST DEADWOOD(el.lk)	09/01/2010	N	N	С	N	N	N

Report ID: 02219687 Report Form Type: 2y Locking



Division: POWDER RIVER BABK6SG Asset ID: Subdivision: BLACK HILLS Test Date: 08/09/2012

Milepost (with Line Segment): 4 476.60 - 476.60 State: SD

Location / Highway Name: East Deadwood ESL

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

Conditions Master Key

= Test completed, no exceptions found, and condition left in compliance.
= Adjustments made (identified in associated comments), test completed, and condition left in compliance.
= Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.
= Baseline data matches that recorded during the most recent Baseline test, so full test not required.

Governed by Special Instruction

 NT = The equipment was not tested in this inspection. N = Test Not Applicable.

NI = No Inspection Required.

CO = Compliant
NC = Not compliant

P = Pass F = Fail

NOTE: Entry of results of tests indicates for approach locking that all track sections in approach are effective, and for time locking each time locking circuit is effective.

Locking Tests							
Route Nomenclature	Date Tested	Mechanical (FRA 236.376)	Approach (FRA 236.377)	Time (FRA 236.378)	Route (FRA 236.379)	Indication (FRA 236.380)	Traffic (FRA 236.381)
EAST DEADWOOD(el.lk)	08/09/2012	N	N	С	N	N	N

Report ID: 02966568 Report Form Type: 2y Locking



Division: POWDER RIVER BABK6SG Asset ID: Subdivision: BLACK HILLS **Test Date:** 07/10/2014

Milepost (with Line Segment): 4 476.60 - 476.60 State: SD

Location / Highway Name: East Deadwood ESL

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

Conditions Master Key

= Test completed, no exceptions found, and condition left in compliance.
= Adjustments made (identified in associated comments), test completed, and condition left in compliance.
= Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.
= Baseline data matches that recorded during the most recent Baseline test, so full test not required.

Governed by Special Instruction

 NT = The equipment was not tested in this inspection. N = Test Not Applicable.

NI = No Inspection Required.

CO = Compliant
NC = Not compliant

= Pass = Fail

NOTE: Entry of results of tests indicates for approach locking that all track sections in approach are effective, and for time locking each time locking circuit is effective.

Locking Tests							
Route Nomenclature	Date Tested	Mechanical (FRA 236.376)	Approach (FRA 236.377)	Time (FRA 236.378)	Route (FRA 236.379)	Indication (FRA 236.380)	Traffic (FRA 236.381)
EAST DEADWOOD(el.lk)	07/11/2014	N	Ν	С	N	N	N

Report ID: 03720488 Report Form Type: 2y Locking



Division: POWDER RIVER BABK6SG Asset ID: Subdivision: BLACK HILLS **Test Date:** 06/15/2016

Milepost (with Line Segment): 4 476.60 - 476.60 State: SD

Location / Highway Name: East Deadwood ESL

County: FALL RIVER

Employee's Name: David Thieme (dthieme) PARS Number: SINS0222

Conditions Master Key

= Test completed, no exceptions found, and condition left in compliance.
= Adjustments made (identified in associated comments), test completed, and condition left in compliance.
= Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.
= Baseline data matches that recorded during the most recent Baseline test, so full test not required.

Governed by Special Instruction

 NT = The equipment was not tested in this inspection. N = Test Not Applicable.

NI = No Inspection Required.

CO = Compliant
NC = Not compliant

= Pass = Fail

NOTE: Entry of results of tests indicates for approach locking that all track sections in approach are effective, and for time locking each time locking circuit is effective.

Locking	Tests						
Route Nomenclature	Date Tested	Mechanical (FRA 236.376)	Approach (FRA 236.377)	Time (FRA 236.378)	Route (FRA 236.379)	Indication (FRA 236.380)	Traffic (FRA 236.381)
EAST DEADWOOD(el.lk)	06/15/2016	Ν	N	С	N	N	N

Report ID: 04481183 Report Form Type: 2y Locking



Inspection Report - Insulation Tests & Inspections

Division: POWDER RIVER Asset ID: BABK6SG Subdivision: BLACK HILLS **Test Date:** 05/10/2007

Milepost (with Line Segment): 4 476.60 - 476.60 State: SD

Location / Highway Name: East Deadwood ESL

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

Conditions Master Key

C = Test completed, condition left in compliance. Indicates that all wires in trunking and cable measured 500K Ohms and above.

A = Annual test required; insulation resistance between 500K and 200K Ohms. Prompt action shall be taken to remedy condition.

R = Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.

NT = The equipment was not tested in this inspection.

N = No inspection required. This is an annual re-inspection of a different conductor.

Insulation Tests (FRA 234.267, 236.108)							
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.		
Underground	7	14	CASE	J. BOX	С		

Report ID: 01020001 Report Form Type: 10y Insulation



Inspection Report - Insulation Tests & Inspections

Division: POWDER RIVER Asset ID: BABK6SG Subdivision: BLACK HILLS Test Date: 10/01/2014

Milepost (with Line Segment): 4 476.60 - 476.60 State: SD

Location / Highway Name: East Deadwood ESL

County: FALL RIVER

Employee's Name: Dan Leisy (dleisy) PARS Number: SSCX0131-9

Conditions Master Key

C = Test completed, condition left in compliance. Indicates that all wires in trunking and cable measured 500K Ohms and above.

A = Annual test required; insulation resistance between 500K and 200K Ohms. Prompt action shall be taken to remedy condition.

R = Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.

NT = The equipment was not tested in this inspection.

N = No inspection required. This is an annual re-inspection of a different conductor.

	Insulation Tests (FRA 234.267, 236.108)								
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Underground	7	14	CASE	J. BOX	NT				
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Trunking	7	12	J. BOX	E. LOCK	С				
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Trunking	5	10	J. BOX	SWCC	С				

Report ID: 03807412 Report Form Type: 10y Insulation



Inspection Report - Relay Tests & Inspections

Division: POWDER RIVER Asset ID: BABK6SG **Test Date:** 11/19/2010 Subdivision: BLACK HILLS

Milepost (with Line Segment): 4 476.60 - 476.60 State: SD

Location / Highway Name: East Deadwood ESL

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

 $\begin{array}{ll} \underline{Conditions\ Master\ Key} \\ C\ =\ Test\ completed,\ condition\ left\ in\ compliance. \end{array}$

- C = Test completed, condition left in compliance.

 R = Replacements made (identified in associated comments), test completed, and condition left in compliance.

 V = Visual inspection completed, condition left in compliance.

 NT = The equipment was not tested in this inspection.

 N = No inspection required. The given relay does not require inspection at this time.

		Relay Tests (FRA	234.263, 236.106)			
Shelf Name EL	Relay Name WL		Serial Number K76013		Condition Left C	
Relay Type (Drawing and/or Catalog Nu 9B	imber)		Resistance (Ohms) 200	Cont	acts	Date Tested 11/19/2010
Neutral Dropaway 0.0030 A DC				Neut 0.02		
Shelf Name EL	Relay Name TER		Serial Number 16686M063		Condition Left V	
Relay Type (Drawing and/or Catalog Nu B2 (50800-100 GR.1 / A62-627)	imber)		Resistance (Ohms) 500	Cont 2FB	acts -3F-2B	Date Tested 11/19/2010
Shelf Name E	Relay Name 1-TR		Serial Number 03349929			
Relay Type (Drawing and/or Catalog Nu ST (400510 / 400510)	imber)		Resistance (Ohms)	Cont 4FB	tacts -2F-1B	Date Tested 11/19/2010
Neutral Dropaway 0.0870 A DC		Neutral Pickup 0.1670 A DC			ral Working 70 A DC	
Shelf Name E	Relay Name NWLPR		Serial Number H76-01K		Condition Left C	
Relay Type (Drawing and/or Catalog Nu B1 (56001-783 GR.2 / A62-277)	imber)		Resistance (Ohms) 500	Cont 4FB	acts -2F-1B	Date Tested 11/19/2010
Neutral Dropaway 0.0060 A DC		Neutral Pickup 0.0090 A DC			ral Working 90 A DC	
Shelf Name E	Relay Name O-TR		Serial Number H78-K38		Condition Left C	
Relay Type (Drawing and/or Catalog Nu B1 (56001-783 GR.2 / A62-277)	imber)		Resistance (Ohms) 500	Cont 4FB	acts -2F-1B	Date Tested 11/19/2010
Neutral Dropaway 0.0070 A DC		Neutral Pickup 0.0100 A DC			ral Working 00 A DC	

Report ID: 02301850 Report Form Type: 4y Relay



Inspection Report Relay Tests & Inspections

Division: POWDER RIVER **Asset ID:** BABK6SG

Subdivision: BLACK HILLS **Test Date:** 09/29/2014

Milepost: 4 476.60 - 476.60 **State:** SD

Location: East Deadwood ESL

County: FALL RIVER

Employee's Name: Wayne Strozzi **PARS Number:** SINS0222

Conditions Key

C = Test completed, condition left in compliance.

- R = Replacements made (identified in associated comments), test completed, and condition left in compliance.
- V = Visual inspection completed, condition left in compliance.
- NT = The equipment was not tested in this inspection
- N = No inspection required. The given relay does not require inspection at this time.

		Rela	y Tests (FR/	A 234.263, 23	6.106)									
Shelf Name EL	Relay Name WL	Tested 09/29/2014	Condition											
Relay	Serial No. D48002	Type (Drawing/ 9B	Catalog No.)	Resistance 200				-						Contacts
9B	Neutral Dropa 0.0040 A DC	way	Neutral Picku 0.0240 A DC	Neutral Working 0.0240		g								
Shelf Name EL	Relay Name TER	Tested Not Tested	Condition NT		•									
Relay B2 (50800-100 GR.1 / A62-627)	Serial No. 16686M063	Type (Drawing/ B2 (50800-100 G		Resistance 500		Contacts 2FB-3F-2B								
Shelf Name E	Relay Name 1-TR	Tested Not Tested	Condition NT											
Relay ST (400510 / 400510)	Serial No. 03349929	Type (Drawing/ ST (400510 / 400		Resistance 2		Contacts 4FB-2F-1B								
Shelf Name E	Relay Name NWLPR	Tested Not Tested	Condition NT											
Relay B1 (56001-783 GR.2 / A62-277)	Serial No. H76-01K	Type (Drawing/ B1 (56001-783 G		Resistance 500		Contacts 4FB-2F-1B								
Shelf Name E	Relay Name O-TR	Tested Not Tested	Condition NT											
Relay B1 (56001-783 GR.2 / A62-277)	Serial No. H78-K38	Type (Drawing/ B1 (56001-783 G		Resistance 500		Contacts 4FB-2F-1B								

Report ID: 3805281

Report Form Type: 4y Relay



Inspection Report Relay Tests & Inspections

Division: POWDER RIVER **Asset ID:** BABK6SG

Subdivision: BLACK HILLS **Test Date:** 10/30/2014

Milepost: 4 476.60 - 476.60 **State:** SD

Location: East Deadwood ESL

County: FALL RIVER

Employee's Name: Wayne Strozzi **PARS Number:** SINS0222

Conditions Key

C = Test completed, condition left in compliance.

- R = Replacements made (identified in associated comments), test completed, and condition left in compliance.
- V = Visual inspection completed, condition left in compliance.
- NT = The equipment was not tested in this inspection
- N = No inspection required. The given relay does not require inspection at this time.

		Rela	y Tests (FRA	234.263, 236	5.106)	
Shelf Name EL	Relay Name TER	Tested 10/30/2014	Condition V			
Relay B2 (50800-100 GR.1 / A62-627)	Serial No. 16686M063	Type (Drawing/ B2 (50800-100 G		Resistance 500		Contacts 2FB-3F-2B
Shelf Name EL	Relay Name WL	Tested 10/30/2014	Condition			
Relay	Serial No. K76013	Type (Drawing /98	Catalog No.)	Resistance 200		Contacts
9B	Neutral Dropav 0.0040 A DC	ray	Neutral Pickup 0.0230 A DC		Neutral Working 0.0230	9
Shelf Name E	Relay Name 1-TR	Tested 10/30/2014	Condition			
Relay	Serial No. 03349929	Type (Drawing/ ST (400510 / 400		Resistance 2		Contacts 4FB-2F-1B
ST (400510 / 400510)	Neutral Dropaw 0.0820 A DC	ıay	Neutral Pickup Neutral Working 0.1660 A DC 0.1660		g	
Shelf Name E	Relay Name NWLPR	Tested 10/30/2014	Condition			
Relay B1 (56001-783	Serial No. H76-01K	Type (Drawing/6 B1 (56001-783 G		Resistance 500		Contacts 4FB-2F-1B
GR.2 / A62-277)	Neutral Dropav 0.0060 A DC	ray	Neutral Pickup 0.0080 A DC		Neutral Working 0.0080	9
Shelf Name E	Relay Name O-TR	Tested 10/30/2014	Condition			
Relay	Serial No. H78-K38	Type (Drawing/ 9 B1 (56001-783 G		Resistance 500		Contacts 4FB-2F-1B
B1 (56001-783 GR.2 / A62-277)	Neutral Dropaw 0.0060 A DC	ıay	Neutral Pickup 0.0090 A DC	•	Neutral Working 0.0090	9

Report ID: 3838844

Report Form Type: 4y Relay



Division: POWDER RIVER BABK6UV Asset ID:

Subdivision: BLACK HILLS **Test Date:** 02/09/2007

Milepost (with Line Segment): 4 476.90 - 476.90 State: SD

Location / Highway Name: West Deadwood ESL

County: FALL RIVER

Employee's Name: Dale Niswender (dniswend) PARS Number: SINS0222

Conditions Master Key

= Test completed, no exceptions found, and condition left in compliance.
= Adjustments made (identified in associated comments), test completed, and condition left in compliance.
= Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.
= Baseline data matches that recorded during the most recent Baseline test, so full test not required.

Governed by Special Instruction

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NI = No Inspection Required.

CO = Compliant
NC = Not compliant

P = Pass F = Fail

NOTE: Entry of results of tests indicates for approach locking that all track sections in approach are effective, and for time locking each time locking circuit is effective.

Locking Tests							
Route Nomenclature	Date Tested	Mechanical (FRA 236.376)	Approach (FRA 236.377)	Time (FRA 236.378)	Route (FRA 236.379)	Indication (FRA 236.380)	Traffic (FRA 236.381)
W DEADWOOD(el.lk)	02/09/2007	N	C	N	N	N	N

Report ID: 00931073 Report Form Type: 2y Locking



Division: POWDER RIVER BABK6UV Asset ID:

Test Date: 02/05/2009 **Subdivision:** BLACK HILLS

Milepost (with Line Segment): 4 476.90 - 476.90 State: SD

Location / Highway Name: West Deadwood ESL

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

Conditions Master Key

= Test completed, no exceptions found, and condition left in compliance.
= Adjustments made (identified in associated comments), test completed, and condition left in compliance.
= Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.
= Baseline data matches that recorded during the most recent Baseline test, so full test not required.

Governed by Special Instruction

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NI = No Inspection Required.

CO = Compliant
NC = Not compliant

= Pass = Fail

NOTE: Entry of results of tests indicates for approach locking that all track sections in approach are effective, and for time locking each time locking circuit is effective.

Locking	Tests						
Route Nomenclature	Date Tested	Mechanical (FRA 236.376)	Approach (FRA 236.377)	Time (FRA 236.378)	Route (FRA 236.379)	Indication (FRA 236.380)	Traffic (FRA 236.381)
W DEADWOOD(el.lk)	02/05/2009	N	C	N	N	N	N

Report ID: 01637743 Report Form Type: 2y Locking



Division: POWDER RIVER BABK6UV Asset ID:

Subdivision: BLACK HILLS **Test Date:** 09/01/2010

Milepost (with Line Segment): 4 476.90 - 476.90 State: SD

Location / Highway Name: West Deadwood ESL

County: FALL RIVER

Employee's Name: Kevin Walters (kwalters) PARS Number: SETX0232

Conditions Master Key

= Test completed, no exceptions found, and condition left in compliance.
= Adjustments made (identified in associated comments), test completed, and condition left in compliance.
= Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.
= Baseline data matches that recorded during the most recent Baseline test, so full test not required.

Governed by Special Instruction

 NT = The equipment was not tested in this inspection. N = Test Not Applicable.

NI = No Inspection Required.

CO = Compliant
NC = Not compliant

P = Pass F = Fail

NOTE: Entry of results of tests indicates for approach locking that all track sections in approach are effective, and for time locking each time locking circuit is effective.

Locking Tests							
Route Nomenclature	Date Tested	Mechanical (FRA 236.376)	Approach (FRA 236.377)	Time (FRA 236.378)	Route (FRA 236.379)	Indication (FRA 236.380)	Traffic (FRA 236.381)
W DEADWOOD(el.lk)	09/01/2010	N	Ν	С	N	N	N

Report ID: 02219688 Report Form Type: 2y Locking



Division: POWDER RIVER BABK6UV Asset ID: Subdivision: BLACK HILLS Test Date: 08/09/2012

Milepost (with Line Segment): 4 476.90 - 476.90 State: SD

Location / Highway Name: West Deadwood ESL

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

Conditions Master Key

= Test completed, no exceptions found, and condition left in compliance.
= Adjustments made (identified in associated comments), test completed, and condition left in compliance.
= Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.
= Baseline data matches that recorded during the most recent Baseline test, so full test not required.

Governed by Special Instruction

 NT = The equipment was not tested in this inspection. N = Test Not Applicable.

NI = No Inspection Required.

CO = Compliant
NC = Not compliant

P = Pass F = Fail

NOTE: Entry of results of tests indicates for approach locking that all track sections in approach are effective, and for time locking each time locking circuit is effective.

Locking Tests							
Route Nomenclature	Date Tested	Mechanical (FRA 236.376)	Approach (FRA 236.377)	Time (FRA 236.378)	Route (FRA 236.379)	Indication (FRA 236.380)	Traffic (FRA 236.381)
W DEADWOOD(el.lk)	08/09/2012	N	Ν	С	N	N	N

Report ID: 02966569 Report Form Type: 2y Locking



Division: POWDER RIVER BABK6UV Asset ID: Subdivision: BLACK HILLS **Test Date:** 07/10/2014

Milepost (with Line Segment): 4 476.90 - 476.90 State: SD

Location / Highway Name: West Deadwood ESL

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

Conditions Master Key

= Test completed, no exceptions found, and condition left in compliance.
= Adjustments made (identified in associated comments), test completed, and condition left in compliance.
= Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.
= Baseline data matches that recorded during the most recent Baseline test, so full test not required.

Governed by Special Instruction

 NT = The equipment was not tested in this inspection. N = Test Not Applicable.

NI = No Inspection Required.

CO = Compliant
NC = Not compliant

P = Pass F = Fail

NOTE: Entry of results of tests indicates for approach locking that all track sections in approach are effective, and for time locking each time locking circuit is effective.

Locking Tests							
Route Nomenclature	Date Tested	Mechanical (FRA 236.376)	Approach (FRA 236.377)	Time (FRA 236.378)	Route (FRA 236.379)	Indication (FRA 236.380)	Traffic (FRA 236.381)
W DEADWOOD(el.lk)	07/11/2014	N	Ν	С	N	N	N

Report ID: 03720489 Report Form Type: 2y Locking



Division: POWDER RIVER BABK6UV Asset ID: Subdivision: BLACK HILLS **Test Date:** 06/15/2016

Milepost (with Line Segment): 4 476.90 - 476.90 State: SD

Location / Highway Name: West Deadwood ESL

County: FALL RIVER

Employee's Name: David Thieme (dthieme) PARS Number: SINS0222

Conditions Master Key

= Test completed, no exceptions found, and condition left in compliance.
= Adjustments made (identified in associated comments), test completed, and condition left in compliance.
= Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.
= Baseline data matches that recorded during the most recent Baseline test, so full test not required.

Governed by Special Instruction

 NT = The equipment was not tested in this inspection. N = Test Not Applicable.

NI = No Inspection Required.

CO = Compliant
NC = Not compliant

= Pass = Fail

NOTE: Entry of results of tests indicates for approach locking that all track sections in approach are effective, and for time locking each time locking circuit is effective.

Locking	Tests					
Route Nomenclature	Date Tested	Mechanical (FRA 236.376) Approach	(FRA 236.377) Time (FRA 236.378)	Route (FRA 236.379)	Indication (FRA 236.380)	Traffic (FRA 236.381)
W DEADWOOD(el.lk)	06/15/2016	N 1	V С	N	Ν	N

Report ID: 04481184 Report Form Type: 2y Locking



Inspection Report - Insulation Tests & Inspections

Division: POWDER RIVER Asset ID: **BABK6UV**

Subdivision: BLACK HILLS **Test Date:** 05/10/2007

Milepost (with Line Segment): 4 476.90 - 476.90 State: SD

Location / Highway Name: West Deadwood ESL

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

Conditions Master Key

C = Test completed, condition left in compliance. Indicates that all wires in trunking and cable measured 500K Ohms and above.

A = Annual test required; insulation resistance between 500K and 200K Ohms. Prompt action shall be taken to remedy condition.

R = Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.

NT = The equipment was not tested in this inspection.

N = No inspection required. This is an annual re-inspection of a different conductor.

	Insulation Tests (FRA 234.267, 236.108)								
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Underground	1	14	CASE	HOUSE@ CP 477.2	C				
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Underground	7	14	CASE	J. BOX	С				

Report ID: 01020002 Report Form Type: 10y Insulation



Division: POWDER RIVER Asset ID: **BABK6UV**

Subdivision: BLACK HILLS **Test Date:** 11/19/2010

Milepost (with Line Segment): 4 476.90 - 476.90 State: SD

Location / Highway Name: West Deadwood ESL

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

 $\begin{array}{ll} \underline{Conditions\ Master\ Key} \\ C\ =\ Test\ completed,\ condition\ left\ in\ compliance. \end{array}$

- C = Test completed, condition left in compliance.

 R = Replacements made (identified in associated comments), test completed, and condition left in compliance.

 V = Visual inspection completed, condition left in compliance.

 NT = The equipment was not tested in this inspection.

 N = No inspection required. The given relay does not require inspection at this time.

		Relay Tests (FRA 234.263, 236.106	5)		
Shelf Name E LOCK	Relay Name WL		Serial Number 2415		Condition Left	
Relay Type (Drawing and/or Catalog 9B	Number)		Resistance (Ohms) 306	Con	itacts	Date Tested 11/19/2010
Neutral Dropaway 0.0040 A DC		Neutral Pickup 0.0230 A DC			itral Working 230 A DC	
Shelf Name E	Relay Name 1-TR		Serial Number 0334915		Condition Left	
Relay Type (Drawing and/or Catalog ST (400510 / 400510)	Number)		Resistance (Ohms)		itacts 3-2F-1B	Date Tested 11/19/2010
Neutral Dropaway 0.0770 A DC		Neutral Pickup 0.1460 A DC			itral Working 460 A DC	
Shelf Name E	Relay Name NWLPR		Serial Number K76-U47	•	Condition Left	
Relay Type (Drawing and/or Catalog B1 (56001-783 GR.2 / A62-277)	Number)		Resistance (Ohms) 500		itacts 3-2F-1B	Date Tested 11/19/2010
Neutral Dropaway 0.0060 A DC		Neutral Pickup 0.0100 A DC			itral Working 100 A DC	
Shelf Name E	Relay Name O-TR	•	Serial Number K76-U18	·	Condition Left	
Relay Type (Drawing and/or Catalog B1 (56001-783 GR.2 / A62-277)	Number)		Resistance (Ohms) 500		itacts 3-2F-1B	Date Tested 11/19/2010
Neutral Dropaway 0.0070 A DC		Neutral Pickup 0.0110 A DC			itral Working 110 A DC	
Shelf Name E	Relay Name TER		Serial Number 30177N047		Condition Left V	
Relay Type (Drawing and/or Catalog B2 (50800-100 GR.1 / A62-627)	Number)		Resistance (Ohms) 500		itacts 3-3F-2B	Date Tested 11/19/2010



Division: POWDER RIVER **Asset ID:** BABK6UV

Subdivision: BLACK HILLS **Test Date:** 10/30/2014

Milepost: 4 476.90 - 476.90 **State:** SD

Location: West Deadwood ESL

County: FALL RIVER

Employee's Name: Wayne Strozzi **PARS Number:** SINS0222

Conditions Key

- C = Test completed, condition left in compliance.
- R = Replacements made (identified in associated comments), test completed, and condition left in compliance.
- V = Visual inspection completed, condition left in compliance.
- NT = The equipment was not tested in this inspection
- N = No inspection required. The given relay does not require inspection at this time.

		Rela	y Tests (FRA	234.263, 230	6.106)		
Shelf Name E LOCK	Relay Name WL	Tested 10/30/2014	Condition				
Relay	Serial No. 2415	Type (Drawing/ 9B	Catalog No.)	Resistance 306		Contacts	
9B	Neutral Dropa 0.0040 A DC	way	Neutral Pickup 0.0230 A DC		Neutral Working 0.0230		
Shelf Name E	Relay Name 1-TR	Tested 10/30/2014	Condition				
Relay ST (400510 /	Serial No. 0334915	Type (Drawing/ ST (400510 / 400		Resistance 2		Contacts 4FB-2F-1B	
400510)	Neutral Dropa 0.0740 A DC	way	Neutral Pickup 0.1500 A DC		Neutral Working 0.1500		
Shelf Name E	Relay Name NWLPR	Tested 10/30/2014	Condition				
Relay	Serial No. K76-U47	Type (Drawing/ B1 (56001-783 G		Resistance 500		Contacts 4FB-2F-1B	
B1 (56001-783 GR.2 / A62-277)	Neutral Dropa 0.0050 A DC	way	Neutral Pickup 0.0100 A DC		Neutral Workin 0.0100	g	
Shelf Name E	Relay Name O-TR	Tested 10/30/2014	Condition				
Relay	Serial No. K76-U18	Type (Drawing/ B1 (56001-783 G		Resistance 500		Contacts 4FB-2F-1B	
B1 (56001-783 GR.2 / A62-277)	Neutral Dropa 0.0070 A DC	way	Neutral Pickup 0.0100 A DC		Neutral Workin 0.0100	g	
Shelf Name E	Relay Name TER	Tested 10/30/2014	Condition V		•		
Relay B2 (50800-100 GR.1 / A62-627)	Serial No. 30177N047	Type (Drawing/ B2 (50800-100 G		Resistance 500		Contacts 2FB-3F-2B	

Report ID: 3838845

Report Form Type: 4y Relay



Inspection Report - Insulation Tests & Inspections

Division: POWDER RIVER Asset ID: **BACDBFL** Subdivision: BLACK HILLS **Test Date:** 08/31/2010

Milepost (with Line Segment): 4 477.05 - 477.05 State: SD

Location / Highway Name: intermediate 477

County: FALL RIVER

Employee's Name: Bryant Quick (bquick) PARS Number: SSCX0131-2

Conditions Master Key

C = Test completed, condition left in compliance. Indicates that all wires in trunking and cable measured 500K Ohms and above.

A = Annual test required; insulation resistance between 500K and 200K Ohms. Prompt action shall be taken to remedy condition.

R = Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.

NT = The equipment was not tested in this inspection.

N = No inspection required. This is an annual re-inspection of a different conductor.

	Ir	nsulation Test	s (FRA 234.267, 236.108)		
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Underground	12	14	HOUSE	CASE	С
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Underground	5	9	HOUSE	J. BOX 2E	С
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Underground	5	9	HOUSE	J. BOX 2WA	С
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Underground	5	9	HOUSE	J. BOX 2WB	C
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Underground	5	9	HSE	J. BOX 1E	С
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Underground	5	9	HSE	J. BOX 1WA	C
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Underground	5	9	HSE	J. BOX 1WB	С
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Trunking	5	10	J. BOX	SIG. 1WA	C
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Trunking	5	10	J. BOX	SIG.1E	C
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Trunking	5	10	J. BOX	SIG.1WB	C
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Trunking	5	10	J. BOX	SIG.2E	C
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Trunking	5	10	J. BOX	SIG.2WA	С
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Trunking	5	10	J. BOX	SIG.2WB	С

Report ID: 02219840 Report Form Type: 10y Insulation



Division: POWDER RIVER Asset ID: BACDBFL Subdivision: BLACK HILLS **Test Date:** 08/31/2010

Milepost (with Line Segment): 4 477.05 - 477.05 State: SD

Location / Highway Name: intermediate 477

County: FALL RIVER

Employee's Name: Bryant Quick (bquick) PARS Number: SSCX0131-2

Conditions Master Key
C = Test completed, condition left in compliance.

- C = Test completed, condition left in compliance.

 R = Replacements made (identified in associated comments), test completed, and condition left in compliance.

 V = Visual inspection completed, condition left in compliance.

 NT = The equipment was not tested in this inspection.

 N = No inspection required. The given relay does not require inspection at this time.

		Relay Tests (F	FRA 234.263, 236.106	5)		
Shelf Name 1A	Relay Name 476.56 NW		Serial Number 1008512	Condition Left C		
Relay Type (Drawing and/or Catalog Nu ST (400004 / 400004)	imber)		Resistance (Ohms) 500		tacts 3-2F-1B	Date Tested 08/31/2010
Neutral Dropaway 0.0057 A DC		Neutral Pickup 0.0121 A DC			tral Working 121 A DC	
Shelf Name 1A	Relay Name 476.60 NW	LP	Serial Number 1008532		Condition Left	
Relay Type (Drawing and/or Catalog Nu ST (400004 / 400004)	imber)		Resistance (Ohms) 500		itacts 3-2F-1B	Date Tested 08/31/2010
Neutral Dropaway 0.0056 A DC		Neutral Pickup 0.0121 A DC			tral Working 121 A DC	
Shelf Name 1A	Relay Name 476.90 NW		Serial Number 1008530		Condition Left	
Relay Type (Drawing and/or Catalog Nu ST (400004 / 400004)	imber)		Resistance (Ohms) 500		tacts 3-2F-1B	Date Tested 08/31/2010
Neutral Dropaway 0.0056 A DC		Neutral Pickup 0.0121 A DC			tral Working 121 A DC	



Division: POWDER RIVER BACDBFL Asset ID: Subdivision: BLACK HILLS **Test Date:** 06/09/2014

Milepost (with Line Segment): 4 477.05 - 477.05 State: SD

Location / Highway Name: intermediate 477

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

- Conditions Master Key
 C = Test completed, condition left in compliance.
 R = Replacements made (identified in associated comments), test completed, and condition left in compliance.
 V = Visual inspection completed, condition left in compliance.
 NT = The equipment was not tested in this inspection.
 N = No inspection required. The given relay does not require inspection at this time.

		Relay Tests (FI	RA 234.263, 236.106)			
Shelf Name 1A	Relay Name 476.56 NW	LP	Serial Number 1008512		Condition Left C		
Relay Type (Drawing and/or Catalog Number) ST (400004 / 400004)			Resistance (Ohms) 500		tacts -2F-1B	Date Te 06/09/2	
Neutral Dropaway 0.0060 A DC		Neutral Pickup 0.0110 A DC			tral Working 10 A DC		
Shelf Name 1A	Relay Name 476.60 NWLP		Serial Number 1008532		Condition Left		
Relay Type (Drawing and/or Catalog Nu ST (400004 / 400004)	mber)		Resistance (Ohms) 500		tacts I-2F-1B	Date Te : 06/09/2	
Neutral Dropaway 0.0060 A DC		Neutral Pickup 0.0110 A DC			tral Working 10 A DC		
Shelf Name 1A	Relay Name 476.90 NW	LP	Serial Number 1008530	•	Condition Left C		
Relay Type (Drawing and/or Catalog Nu ST (400004 / 400004)	mber)		Resistance (Ohms) 500		tacts -2F-1B	Date Te 06/09/2	
Neutral Dropaway 0.0060 A DC		Neutral Pickup 0.0110 A DC			tral Working 10 A DC		



Division: POWDER RIVER BABK6WJ Asset ID:

Subdivision: BLACK HILLS **Test Date:** 02/09/2007

Milepost (with Line Segment): 4 477.20 - 477.20 State: SD

Location / Highway Name: Single X Over

County: FALL RIVER

Employee's Name: Dale Niswender (dniswend) PARS Number: SINS0222

Conditions Master Key

= Test completed, no exceptions found, and condition left in compliance.
= Adjustments made (identified in associated comments), test completed, and condition left in compliance.
= Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.
= Baseline data matches that recorded during the most recent Baseline test, so full test not required.

Governed by Special Instruction

 NT = The equipment was not tested in this inspection. N = Test Not Applicable.

NI = No Inspection Required.

CO = Compliant
NC = Not compliant

P = Pass F = Fail

NOTE: Entry of results of tests indicates for approach locking that all track sections in approach are effective, and for time locking each time locking circuit is effective.

Locking Tests							
Route Nomenclature	Date Tested	Mechanical (FRA 236.376)	Approach (FRA 236.377)	Time (FRA 236.378)	Route (FRA 236.379)	Indication (FRA 236.380)	Traffic (FRA 236.381)
1E(sig)-1.N(sw)-1W(sig)	02/09/2007	N	С	N	С	С	N
1W(sig)-1.N(sw)-1E(sig)	02/09/2007	N	С	N	С	С	N
1W(sig)-1.R(sw)-2E(sig)	02/09/2007	N	С	N	С	С	N
2E(sig)-1.N(sw)-2W(sig)	02/09/2007	N	С	N	С	С	N
2E(sig)-1.R(sw)-1W(sig)	02/09/2007	N	С	N	С	С	N
2W(sig)-1.N(sw)-2E(sig)	02/09/2007	N	С	N	С	С	N

Report ID: 00931074 Report Form Type: 2y Locking



Division: POWDER RIVER BABK6WJ Asset ID:

Subdivision: BLACK HILLS Test Date: 02/05/2009

Milepost (with Line Segment): 4 477.20 - 477.20 State: SD

Location / Highway Name: Single X Over

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

Conditions Master Key

PINITIONS Waster Rey
= Test completed, no exceptions found, and condition left in compliance.
= Adjustments made (identified in associated comments), test completed, and condition left in compliance.
= Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.
= Baseline data matches that recorded during the most recent Baseline test, so full test not required.

Governed by Special Instruction

 NT = The equipment was not tested in this inspection. N = Test Not Applicable.

NI = No Inspection Required.

CO = Compliant
NC = Not compliant

P = Pass F = Fail

NOTE: Entry of results of tests indicates for approach locking that all track sections in approach are effective, and for time locking each time locking circuit is effective.

Locking Te	sts	1	ı			ı	
Route Nomenclature	Date Tested	Mechanical (FRA 236.376)	Approach (FRA 236.377)	Time (FRA 236.378)	Route (FRA 236.379)	Indication (FRA 236.380)	Traffic (FRA 236.381)
1E(sig)-1.N(sw)-1W(sig)	02/05/2009	N	С	N	С	С	N
1W(sig)-1.N(sw)-1E(sig)	02/05/2009	N	С	N	С	С	N
1W(sig)-1.R(sw)-2E(sig)	02/05/2009	N	С	N	O	С	N
2E(sig)-1.N(sw)-2W(sig)	02/05/2009	N	С	N	O	С	N
2E(sig)-1.R(sw)-1W(sig)	02/05/2009	N	С	N	O	С	N
2W(sig)-1.N(sw)-2E(sig)	02/05/2009	N	С	N	C	С	N

Report ID: 01637744 Report Form Type: 2y Locking



Inspection Report - Insulation Tests & Inspections

Division: POWDER RIVER Asset ID: BABK6WJ

Subdivision: BLACK HILLS **Test Date:** 05/17/2007

Milepost (with Line Segment): 4 477.20 - 477.20 State: SD

Location / Highway Name: Single X Over

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

Conditions Master Key

C = Test completed, condition left in compliance. Indicates that all wires in trunking and cable measured 500K Ohms and above.

A = Annual test required; insulation resistance between 500K and 200K Ohms. Prompt action shall be taken to remedy condition.

R = Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.

NT = The equipment was not tested in this inspection.

N = No inspection required. This is an annual re-inspection of a different conductor.

	Ir	nsulation Test	s (FRA 234.267, 236.108)		
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Underground	12	14	HOUSE	2A SWITCH	C
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Underground	3	6	HOUSE	2A SWITCH	C
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Underground	2	6	HOUSE	2ASWITCH	C
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Underground	12	14	HOUSE	2B SWITCH	C
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Underground	2	6	HOUSE	2B SWITCH	С
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Underground	3	6	HOUSE	2BSWITCH	C
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Underground	5	9	HOUSE	SIG. 1E	C
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Underground	5	9	HOUSE	SIG. 1WA	C
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Underground	5	9	HOUSE	SIG. 1WB	C
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Underground	5	9	HOUSE	SIG. 2EA	C
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Underground	5	9	HOUSE	SIG. 2EB	C
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Underground	5	9	HOUSE	SIG. 2WA	C
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Underground	5	9	HOUSE	SIG. 2WB	C

Report ID: 01042041 Report Form Type: 10y Insulation



Division: POWDER RIVER Asset ID: BABK6WJ

Subdivision: BLACK HILLS **Test Date:** 08/30/2007

Milepost (with Line Segment): 4 477.20 - 477.20 State: SD

Location / Highway Name: Single X Over

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

- Conditions Master Key
 C = Test completed, condition left in compliance.
 R = Replacements made (identified in associated comments), test completed, and condition left in compliance.
 V = Visual inspection completed, condition left in compliance.
 NT = The equipment was not tested in this inspection.
 N = No inspection required. The given relay does not require inspection at this time.

	Relay Tests (FRA	234.263, 236.106)			
Shelf Name R2G	Relay Name 10STR-THR	Serial Number L891452		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu PT-150 (322518-001)	imber)	Resistance (Ohms) 10 Volt	Con 1F-1	tacts ICB	Date Tested Not Tested
Shelf Name R2G	Relay Name 2E BKR	Serial Number L906205		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	imber)	Resistance (Ohms) 400	Con 6FB	tacts	Date Tested Not Tested
Shelf Name R2G	Relay Name 1E TR	Serial Number L854372		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	imber)	Resistance (Ohms) 400	Con 6FB	tacts	Date Tested Not Tested
Shelf Name R2G	Relay Name 2E TR	Serial Number L782294		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	imber)	Resistance (Ohms) 400	Con 6FB	tacts	Date Tested Not Tested
Shelf Name R2G	Relay Name 1 OS TR	Serial Number L917996		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu PN-150BTR (322501-702)	imber)	Resistance (Ohms)	Con 6F-6	tacts 6B	Date Tested Not Tested
Shelf Name R2G	Relay Name 1 OSTPR	Serial Number L903056		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu PN-250B (N322554-701 / 4A1)	imber)	Resistance (Ohms) 250 (500/500 parallel)		tacts -6F-3B	Date Tested Not Tested
Shelf Name R2G	Relay Name 1E BKR	Serial Number L7934446		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	imber)	Resistance (Ohms) 400	Con 6FB	tacts	Date Tested Not Tested
Shelf Name R2G	Relay Name 1 OSTPPR	Serial Number L903379		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu PN-250B (N322554-701 / 4A1)	imber)	Resistance (Ohms) 250 (500/500 parallel)		tacts -6F-3B	Date Tested Not Tested
Shelf Name R2 F	Relay Name 1EB NWLPR	Serial Number L793737		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	imber)	Resistance (Ohms) 400	Con 6FB	tacts	Date Tested Not Tested
Shelf Name R2 F	Relay Name 1EA NWLPR	Serial Number L793232		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	imber)	Resistance (Ohms) 400	Con 6FB	tacts	Date Tested Not Tested
Shelf Name R2 F	Relay Name 1W TR	Serial Number L753306		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	imber)	Resistance (Ohms) 400	Con 6FB	tacts	Date Tested Not Tested
Shelf Name R2 F	Relay Name 2W TR	Serial Number L629997		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	ımber)	Resistance (Ohms) 400	Con 6FB	tacts	Date Tested Not Tested
Shelf Name R2 F	Relay Name 2 OSTR	Serial Number L831041		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu PN-150BTR (322501-702)	ımber)	Resistance (Ohms)	Con 6F-6	tacts BB	Date Tested Not Tested

Shelf Name	Relay Name	Serial Number Condition Left	
R2 F	2 OŠTPR	L903398 NT	D. C. T
Relay Type (Drawing and/or PN-250B (N322554-701 /		Resistance (Ohms) Contacts 250 (500/500 parallel) 6FB-6F-3B	Date Tested Not Tested
Shelf Name R2 F	Relay Name 2 OSTPPR	Serial Number Condition Left L903083 NT	,
Relay Type (Drawing and/or	Catalog Number)	Resistance (Ohms) Contacts	Date Tested
PN-250B (N322554-701 / Shelf Name	4A1) Relay Name	250 (500/500 parallel) 6FB-6F-3B	Not Tested
R2 F	2-OSTP-THR	L891453 NT	
Relay Type (Drawing and/or PT-150 (322518-001)	Catalog Number)	Resistance (Ohms) Contacts 10 Volt 1F-1CB	Date Tested Not Tested
Shelf Name R2 E	Relay Name LR	Serial Number Condition Left L916579 NT	
Relay Type (Drawing and/or PN-150B (N322500-701 /		Resistance (Ohms) Contacts 400 6FB	Date Tested Not Tested
Shelf Name R2 E	Relay Name	Serial Number Condition Left L906230 NT	1101 10000
Relay Type (Drawing and/or	Catalog Number)	Resistance (Ohms) Contacts	Date Tested
PN-150B (N322500-701 / Shelf Name	4A1) Relay Name	400 6FB Serial Number Condition Left	Not Tested
R2 E Relay Type (Drawing and/or	1E ÁSR	L903374 NT Resistance (Ohms) Contacts	Date Tested
PN-250B (N322554-701 /		250 (500/500 parallel) 6FB-6F-3B	Not Tested
Shelf Name R2 E	Relay Name 1W ASR	Serial Number Condition Left L903365	
Relay Type (Drawing and/or PN-250B (N322554-701 /	Catalog Number) 4A1)	Resistance (Ohms) Contacts 250 (500/500 parallel) 6FB-6F-3B	Date Tested Not Tested
Shelf Name R2 E	Relay Name	Serial Number Condition Left L802338 NT	
Relay Type (Drawing and/or	Catalog Number)	Resistance (Ohms) Contacts	Date Tested
PN-150B (N322500-701 / Shelf Name	Relay Name	400 6FB Serial Number Condition Left	Not Tested
R2 E	POR	L784837 R relay out of sp Old Serial Nur	ect nber: L867586
Relay Type (Drawing and/or PN-150P (322508-002)	Catalog Number)	Resistance (Ohms) Contacts 240 4F-4BHD	Date Tested 08/30/2007
Neutral Dropaway 6.1000 V AC	Neutral Pickup 9.1100 V AC	Neutral Working 9.9000 V AC	1
Shelf Name R2 E	Relay Name 1-TER	Serial Number Condition Left L893234 NT	
Relay Type (Drawing and/or	Catalog Number)	Resistance (Ohms) Contacts	Date Tested
PN-150T (N322523-307 / Shelf Name	Relay Name	Serial Number Condition Left	Not Tested
R2 D Relay Type (Drawing and/or	WLR	L854362 NT Resistance (Ohms) Contacts	Date Tested
PN-150B (N322500-701 /	4A1)	400 6FB	Not Tested
Shelf Name R2 D	Relay Name 2E ASR	Serial Number Condition Left NT	
Relay Type (Drawing and/or PN-250B (N322554-701 /		Resistance (Ohms) Contacts 250 (500/500 parallel) 6FB-6F-3B	Date Tested Not Tested
Shelf Name R2 D	Relay Name 2W ASR	Serial Number Condition Left L907412 NT	100 / 0000
Relay Type (Drawing and/or PN-250B (N322554-701 /	Catalog Number)	Resistance (Ohms) Contacts 250 (500/500 parallel) 6FB-6F-3B	Date Tested Not Tested
Shelf Name	Relay Name	Serial Number Condition Left	Not rested
R2 D		L916489 NT Resistance (Ohms) Contacts	Date Tested
Relay Type (Drawing and/or		400 6FB Serial Number Condition Left	Not Tested
	Relay Name	L920564 NT	
Relay Type (Drawing and/or PN-150B (N322500-701 / Shelf Name R2 D	1EC NWLPR		Date Tested
Relay Type (Drawing and/or PN-150B (N322500-701 / Shelf Name R2 D Relay Type (Drawing and/or PN-150B (N322500-701 /	1EC NWLPR Catalog Number) 4A1)	Resistance (Ohms) Contacts 6FB	
Relay Type (Drawing and/or PN-150B (N322500-701 / Shelf Name R2 D Relay Type (Drawing and/or	1EC NWLPR Catalog Number)	Resistance (Ohms) Contacts	Date Tested Not Tested
Relay Type (Drawing and/or PN-150B (N322500-701 / Shelf Name R2 D Relay Type (Drawing and/or PN-150B (N322500-701 / Shelf Name R2 D Relay Type (Drawing and/or	1EC NWLPR Catalog Number) 4A1) Relay Name 2-TER Catalog Number)	Resistance (Ohms)	
Relay Type (Drawing and/or PN-150B (N322500-701 / Shelf Name R2 D Relay Type (Drawing and/or PN-150B (N322500-701 / Shelf Name R2 D	1EC NWLPR Catalog Number) 4A1) Relay Name 2-TER Catalog Number)	Resistance (Ohms)	Not Tested Date Tested

Shelf Name	Relay Name	Serial Number		Condition Left	
R2 C	1A OR	L919351		NT	
Relay Type (Drawing and/o PN-150SO (322512-002		Resistance (Ohms) 0.039	Conta 1B-1		Date Tested Not Tested
Shelf Name R2 C	Relay Name 1A WRPR	Serial Number L897087		Condition Left NT	,
Relay Type (Drawing and/o PN-150BM (N322517-0	or Catalog Number)	Resistance (Ohms)	Conta	acts lag. HD	Date Tested Not Tested
Shelf Name	Relay Name	Serial Number		Condition Left	Not restee
R2 C Relay Type (Drawing and/o	1B WR or Catalog Number)	L884683 Resistance (Ohms)	Conta	NT acts	Date Tested
PP-151 (322516-001) Shelf Name	Relay Name	240 Serial Number		Condition Left	Not Tested
R2 C Relay Type (Drawing and/o		L914375 Resistance (Ohms)	Conta		Date Tested
PN-150SO (322512-002 Shelf Name	Relay Name	0.039 Serial Number	1B-10	Condition Left	Not Tested
R2 C Relay Type (Drawing and/o	1B WRPR or Catalog Number)	L897139 Resistance (Ohms)	Conta	NT acts	Date Tested
PN-150BM (N322517-0	01 / 4A5)	240	2F M	lag. HD	Not Tested
Shelf Name R2 C	Relay Name 1 NWCR	Serial Number L903388		Condition Left NT	1
Relay Type (Drawing and/o PN-250B (N322554-701		Resistance (Ohms) 250 (500/500 parallel)	Conta 6FB-	acts 6F-3B	Not Tested
Shelf Name R2 C	Relay Name 1 RWCR	Serial Number L895044		Condition Left NT	
Relay Type (Drawing and/o PN-250B (N322554-701		Resistance (Ohms) 250 (500/500 parallel)	Conta 6FB-	acts 6F-3B	Date Tested Not Tested
Shelf Name R2 B	Relay Name 1E NWLPR	Serial Number L908250		Condition Left NT	
Relay Type (Drawing and/o PN-150B (N322500-701		Resistance (Ohms)	Conta 6FB	acts	Date Tested Not Tested
Shelf Name	Relay Name	Serial Number L751643		Condition Left NT	
Relay Type (Drawing and/o PN-150B(N322500-701		Resistance (Ohms) 400	Conta 6FB	acts	Date Tested Not Tested
Shelf Name R1 F	Relay Name 1E HR	Serial Number L803185		Condition Left NT	,
Relay Type (Drawing and/o PN-150B (N322500-701		Resistance (Ohms)	Conta 6FB	acts	Date Tested Not Tested
Shelf Name	Relay Name	Serial Number L906101		Condition Left NT	
Relay Type (Drawing and/o PN-150B (N322500-701		Resistance (Ohms)	Conta 6FB	acts	Date Tested Not Tested
Shelf Name	Relay Name	Serial Number L906135		Condition Left NT	
Relay Type (Drawing and/o PN-150B (N322500-701	or Catalog Number)	Resistance (Ohms)	Conta 6FB		Date Tested Not Tested
Shelf Name R1 F	Relay Name 1E FYR	Serial Number L906132		Condition Left NT	THOE TOSICO
Relay Type (Drawing and/o PN-150B(N322500-701	or Catalog Number)	Resistance (Ohms)	Conta 6FB		Date Tested Not Tested
Shelf Name R1 F	Relay Name 1E PCR	Serial Number L767097		Condition Left NT	Not restee
Relay Type (Drawing and/o PN-150BSR (N322503-	or Catalog Number)	Resistance (Ohms)	Conta	acts	Date Tested
Shelf Name R1 F	Relay Name 2E HR	Serial Number		Condition Left NT	Not rested
Relay Type (Drawing and/o	or Catalog Number)	L906164 Resistance (Ohms)	Conta		Date Tested
PN-150B (N322500-701 Shelf Name	Relay Name	Serial Number		Condition Left	Not Tested
R1 F Relay Type (Drawing and/o		L906195 Resistance (Ohms)	Conta	NT acts	Date Tested
PN-150B(N322500-701 Shelf Name	Relay Name	400 Serial Number		Condition Left	Not Tested
R1 F Relay Type (Drawing and/o	2E DR or Catalog Number)	L906102 Resistance (Ohms)	Conta	NT acts	Date Tested
PN-150B (N322500-701 Shelf Name		400 Serial Number	6FB	Condition Left	Not Tested
R1 F Relay Type (Drawing and/o	2E FYR	L906198		NT	Data Tarta
Relay Type (Drawing and/0 PN-150B (N322500-701		Resistance (Ohms)	Conta 6FB	auts	Date Tested Not Tested

		Tests (FRA 234.263, 236.106)	Ta	
Shelf Name R1 F	Relay Name 2E PCR	Serial Number L892818	Condition Left NT	
Relay Type (Drawing and/o PN-150BSR (N322503-7		Resistance (Ohms)	Contacts 6F-6B	Date Tested Not Tested
Shelf Name R1 E	Relay Name	Serial Number L802065	Condition Left	11111111111
Relay Type (Drawing and/o	or Catalog Number)	Resistance (Ohms)	Contacts 6FB	Date Tested
PN-150B (N322500-701 Shelf Name	Relay Name	Serial Number	Condition Left	Not Tested
R1 E Relay Type (Drawing and/o	1W HPR or Catalog Number)	L871639 Resistance (Ohms)	Contacts	Date Tested
PN-150B (N322500-701 Shelf Name	/ 4A1) Relay Name	400 Serial Number	6FB Condition Left	Not Tested
R1 E Relay Type (Drawing and/o	1W ĎR	L886244 Resistance (Ohms)	NT	Date Tested
PN-150B (N322500-701	/4A1)	400	6FB	Not Tested
Shelf Name R1 E	Relay Name 1W FYR	Serial Number L906126	Condition Left NT	
Relay Type (Drawing and/o PN-150B (N322500-701		Resistance (Ohms) 400	Contacts 6FB	Date Tested Not Tested
Shelf Name R1 E	Relay Name 1W PCR	Serial Number L817321	Condition Left NT	'
Relay Type (Drawing and/o PN-150BSR (N322503-7	r Catalog Number)	Resistance (Ohms)	Contacts 6F-6B	Date Tested Not Tested
Shelf Name	Relay Name	Serial Number	Condition Left	NOT LESTED
R1 E Relay Type (Drawing and/o		L761604 Resistance (Ohms)	NT Contacts	Date Tested
PN-150B (N322500-701 Shelf Name	/ 4A1) Relay Name	400 Serial Number	6FB Condition Left	Not Tested
R1 E Relay Type (Drawing and/o	2W HPR	L906131 Resistance (Ohms)	NT	Date Tested
PN-150B (N322500-701	/4A1)	400	6FB	Not Tested
Shelf Name R1 E	Relay Name 2W DR	Serial Number L906087	Condition Left NT	
Relay Type (Drawing and/o PN-150B (N322500-701		Resistance (Ohms) 400	Contacts 6FB	Date Tested Not Tested
Shelf Name R1 E	Relay Name 2W FYR	Serial Number L882608	Condition Left NT	,
Relay Type (Drawing and/o PN-150B (N322500-701	r Catalog Number)	Resistance (Ohms)	Contacts 6FB	Date Tested Not Tested
Shelf Name R1 E	Relay Name 2W PCR	Serial Number L892789	Condition Left NT	THOU TOSICO
Relay Type (Drawing and/o	or Catalog Number)	Resistance (Ohms)	Contacts	Date Tested
PN-150BSR (N322503-7 Shelf Name	701 / 4A3) Relay Name	100 Serial Number	6F-6B Condition Left	Not Tested
R1 D Relay Type (Drawing and/o	2EB LOR	L900904 Resistance (Ohms)	NT Contacts	Date Tested
PN-150BL (322510-903)		175	3FB Condition Left	Not Tested
Shelf Name R1 D	1EA LOR	Serial Number L826670	NT	1
Relay Type (Drawing and/o PN-150BL (322510-003)		Resistance (Ohms) 175	Contacts 3FB	Date Tested Not Tested
Shelf Name R1 D	Relay Name 1W YYR	Serial Number L823945	Condition Left NT	
Relay Type (Drawing and/o PN-150B (N322500-701		Resistance (Ohms) 400	Contacts 6FB	Date Tested Not Tested
Shelf Name	Relay Name	Serial Number L803239	Condition Left	TWO TOSICO
R1 D Relay Type (Drawing and/o		Resistance (Ohms)	NT Contacts	Date Tested
PN-150B (N322500-701 Shelf Name	/ 4A1) Relay Name	400 Serial Number	6FB Condition Left	Not Tested
R1 D Relay Type (Drawing and/o	2EB HGR	L906149 Resistance (Ohms)	NT Contacts	Date Tested
PN-150B (N322500-701	/ 4A1)	400	6FB	Not Tested
Shelf Name R1 D	Relay Name 2EA_LOR	Serial Number L901998	Condition Left NT	
Relay Type (Drawing and/o PN-150BL (322510-903)		Resistance (Ohms) 175	Contacts 3FB	Date Tested Not Tested
Shelf Name R1 D	Relay Name 1EA HGR	Serial Number L890711	Condition Left NT	·
Relay Type (Drawing and/o		Resistance (Ohms)	Contacts	Date Tested

	Relay	Tests (FRA 234.263, 236.106)		
Shelf Name	Relay Name	Serial Number	Condition Left	
R1 C	1WA HGR	L881207	NT	
Relay Type (Drawing and/or C PN-150B (N322500-701 / 4	atalog Number)	Resistance (Ohms) 400	Contacts 6FB	Date Tested Not Tested
Shelf Name	Relay Name	Serial Number	Condition Left	
R1 C	1WB HGR	L887994	NT	
Relay Type (Drawing and/or C		Resistance (Ohms)	Contacts	Date Tested
PN-150B (N322500-701 / 4		400	6FB	Not Tested
Shelf Name	Relay Name	Serial Number	Condition Left	
R1 C	2WA HGR	L906146	NT	
Relay Type (Drawing and/or C		Resistance (Ohms)	Contacts	Date Tested
PN-150B (N322500-701 / 4		400	6FB	Not Tested
Shelf Name	Relay Name	Serial Number	Condition Left	
R1 C	2W YYR	L840895	NT	
Relay Type (Drawing and/or C		Resistance (Ohms)	Contacts	Date Tested
PN-150B (N322500-701 / 4		400	6FB	Not Tested
Shelf Name	Relay Name	Serial Number	Condition Left	
R1 C	2WB LOR	L808947	NT	
Relay Type (Drawing and/or C	atalog Number)	Resistance (Ohms)	Contacts	Date Tested
PN-150BL (322510-003)		175	3FB	Not Tested
Shelf Name	Relay Name	Serial Number	Condition Left	
R1 C	1WA LOR	L902014	NT	
Relay Type (Drawing and/or C	atalog Number)	Resistance (Ohms)	Contacts	Date Tested
PN-150BL (322510-903)		175	3FB	Not Tested
Shelf Name	Relay Name	Serial Number	Condition Left	
R1 C	1WB LOR	L902010	NT	
Relay Type (Drawing and/or C	atalog Number)	Resistance (Ohms)	Contacts	Date Tested
PN-150BL (322510-903)		175	3FB	Not Tested
Shelf Name	Relay Name	Serial Number	Condition Left	
R1 C	2WA LOR	L900906	NT	
Relay Type (Drawing and/or C	atalog Number)	Resistance (Ohms)	Contacts	Date Tested
PN-150BL (322510-903)		175	3FB	Not Tested
Shelf Name	Relay Name	Serial Number	Condition Left	
R1 B	2 EOR	B5093065	NT	
Relay Type (Drawing and/or C	atalog Number)	Resistance (Ohms)	Contacts	Date Tested
PN-150F (N322530-701)		60	6FB	Not Tested
Shelf Name	Relay Name	Serial Number	Condition Left	
R1 B	SMKR	L793379	NT	
Relay Type (Drawing and/or C		Resistance (Ohms)	Contacts	Date Tested
PN-150B (N322500-701 / 4		400	6FB	Not Tested
Shelf Name	Relay Name	Serial Number	Condition Left	
R1 B	1 EOR	B1395301	NT	
Relay Type (Drawing and/or C	atalog Number)	Resistance (Ohms)	Contacts	Date Tested
PN-150F (N322530-701)		60	6FB	Not Tested
Shelf Name	Relay Name	Serial Number	Condition Left	
R1 B	1WA LOPR	L803160	NT	
Relay Type (Drawing and/or C		Resistance (Ohms)	Contacts	Date Tested
PN-150B (N322500-701 / 4		400	6FB	Not Tested



Division: POWDER RIVER Asset ID: BABK6WJ

Subdivision: BLACK HILLS **Test Date:** 12/12/2008

Milepost (with Line Segment): 4 477.20 - 477.20 State: SD

Location / Highway Name: Single X Over

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

- Conditions Master Key
 C = Test completed, condition left in compliance.
 R = Replacements made (identified in associated comments), test completed, and condition left in compliance.
 V = Visual inspection completed, condition left in compliance.
 NT = The equipment was not tested in this inspection.
 N = No inspection required. The given relay does not require inspection at this time.

Relay Tests (FRA 234.263, 236.106)								
Shelf Name R2G	Relay Name 10STR-THR	Serial Number L891452		Condition Left N				
Relay Type (Drawing and/or Catalog Nu PT-150 (322518-001)	imber)	Resistance (Ohms) 10 Volt	Cont 1F-1	tacts ICB	Date Tested			
Shelf Name R2G	Relay Name 2E BKR	Serial Number L906205		Condition Left N				
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	imber)	Resistance (Ohms) 400	Cont 6FB	tacts	Date Tested			
Shelf Name R2G	Relay Name 1E TR	Serial Number L854372		Condition Left N				
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	imber)	Resistance (Ohms) 400	Cont 6FB	tacts	Date Tested			
Shelf Name R2G	Relay Name 2E TR	Serial Number L782294		Condition Left N				
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	imber)	Resistance (Ohms) 400	Cont 6FB	tacts	Date Tested			
Shelf Name R2G	Relay Name 1 OS TR	Serial Number L917996		Condition Left N				
Relay Type (Drawing and/or Catalog Nu PN-150BTR (322501-702)	imber)	Resistance (Ohms)	Cont 6F-6	tacts 6B	Date Tested			
Shelf Name R2G	Relay Name 1 OSTPR	Serial Number L903056		Condition Left N				
Relay Type (Drawing and/or Catalog Nu PN-250B (N322554-701 / 4A1)	imber)	Resistance (Ohms) 250 (500/500 parallel)		tacts -6F-3B	Date Tested			
Shelf Name R2G	Relay Name 1E BKR	Serial Number L7934446		Condition Left N				
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	imber)	Resistance (Ohms) 400	Cont 6FB	tacts	Date Tested			
Shelf Name R2G	Relay Name 1 OSTPPR	Serial Number L903379		Condition Left N				
Relay Type (Drawing and/or Catalog Nu PN-250B (N322554-701 / 4A1)	imber)	Resistance (Ohms) 250 (500/500 parallel)		tacts -6F-3B	Date Tested			
Shelf Name R2 F	Relay Name 1EB NWLPR	Serial Number L793737		Condition Left N				
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	imber)	Resistance (Ohms) 400	Cont 6FB	tacts	Date Tested			
Shelf Name R2 F	Relay Name 1EA NWLPR	Serial Number L793232		Condition Left N				
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	imber)	Resistance (Ohms) 400	Cont 6FB	tacts	Date Tested			
Shelf Name R2 F	Relay Name 1W TR	Serial Number L753306		Condition Left N				
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	mber)	Resistance (Ohms) 400	Cont 6FB	tacts	Date Tested			
Shelf Name R2 F	Relay Name 2W TR	Serial Number L629997		Condition Left N				
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	imber)	Resistance (Ohms) 400	Cont 6FB	tacts	Date Tested			
Shelf Name R2 F	Relay Name 2 OSTR	Serial Number L831041		Condition Left N				
Relay Type (Drawing and/or Catalog Nu PN-150BTR (322501-702)	mber)	Resistance (Ohms)	Cont 6F-6	tacts 6B	Date Tested			

	Relay Tesi	ts (FRA 234.263, 236.106)			
Shelf Name R2 F	Relay Name 2 OSTPR	Serial Number L903398		Condition Left N	
Relay Type (Drawing and/or Cata PN-250B (N322554-701 / 4A1	log Number)	Resistance (Ohms) 250 (500/500 parallel)	Cont 6FB		Date Tested
Shelf Name R2 F	Relay Name 2 OSTPPR	Serial Number L903083		Condition Left N	
Relay Type (Drawing and/or Cata	log Number)	Resistance (Ohms)	Cont	**	Date Tested
PN-250B (N322554-701 / 4A1 Shelf Name	Relay Name	250 (500/500 parallel) Serial Number	000	Condition Left	
R2 F Relay Type (Drawing and/or Cata	2-OSTP-THR llog Number)	L891453 Resistance (Ohms)	Cont		Date Tested
PT-150 (322518-001) Shelf Name	Relay Name	10 Volt Serial Number	1F-1	CB Condition Left	
R2 E Relay Type (Drawing and/or Cata	LR ´	L916579 Resistance (Ohms)	Cont	N	Date Tested
PN-150B (N322500-701 / 4A1)	400	6FB		Date rested
Shelf Name R2 E	Relay Name 1LSR	Serial Number L906230		Condition Left N	
Relay Type (Drawing and/or Cata PN-150B (N322500-701 / 4A1		Resistance (Ohms) 400	Cont 6FB	acts	Date Tested
Shelf Name R2 E	Relay Name 1E ASR	Serial Number L903374		Condition Left N	
Relay Type (Drawing and/or Cata PN-250B (N322554-701 / 4A1		Resistance (Ohms) 250 (500/500 parallel)	Cont 6FB	acts -6F-3B	Date Tested
Shelf Name R2 E	Relay Name 1W ASR	Serial Number L903365		Condition Left	
Relay Type (Drawing and/or Cata PN-250B (N322554-701 / 4A1	log Number)	Resistance (Ohms) 250 (500/500 parallel)	Cont		Date Tested
Shelf Name	Relay Name	Serial Number	ОГЬ	Condition Left	
R2 E Relay Type (Drawing and/or Cata		L802338 Resistance (Ohms)	Cont	N acts	Date Tested
PN-150B (N322500-701 / 4A1 Shelf Name	Relay Name	400 Serial Number	6FB	Condition Left	
R2 E Relay Type (Drawing and/or Cata	POŘ	L867586 Resistance (Ohms)	Cont	N	Date Tested
PN-150P (322508-002)		240		BHD	Date rested
Shelf Name R2 E	Relay Name 1-TER	Serial Number L893234		Condition Left N	
Relay Type (Drawing and/or Cata PN-150T (N322523-307 / 4F6		Resistance (Ohms)	Cont 2F	acts	Date Tested
Shelf Name R2 D	Relay Name WLR	Serial Number L854362		Condition Left N	
Relay Type (Drawing and/or Cata PN-150B (N322500-701 / 4A1		Resistance (Ohms) 400	Cont 6FB	acts	Date Tested
Shelf Name R2 D	Relay Name 2E ASR	Serial Number L903413	, , , <u>, , , , , , , , , , , , , , , , </u>	Condition Left N	
Relay Type (Drawing and/or Cata	log Number)	Resistance (Ohms)	Cont	acts	Date Tested
PN-250B (N322554-701 / 4A1 Shelf Name	Relay Name	250 (500/500 parallel) Serial Number	000	Condition Left	
R2 D Relay Type (Drawing and/or Cata		L907412 Resistance (Ohms)	Cont		Date Tested
PN-250B (N322554-701 / 4A1 Shelf Name) Relay Name	250 (500/500 parallel) Serial Number	6FB	-6F-3B Condition Left	
R2 D Relay Type (Drawing and/or Cata	2 AŠPR	L916489 Resistance (Ohms)	Cont	N	Date Tested
PN-150B (N322500-701 / 4A1)	400	6FB		Dute resteu
Shelf Name R2 D	Relay Name 1EC NWLPR	Serial Number L920564	1.6	Condition Left N	T= . =
Relay Type (Drawing and/or Cata PN-150B (N322500-701 / 4A1)	Resistance (Ohms) 400	Cont 6FB		Date Tested
Shelf Name R2 D	Relay Name 2-TER	Serial Number L893233		Condition Left N	
Relay Type (Drawing and/or Cata PN-150T (N322523-307 / 4F6		Resistance (Ohms)	Cont 2F	acts	Date Tested
Shelf Name R2 C	Relay Name	Serial Number L884678		Condition Left	
Relay Type (Drawing and/or Cata PP-151 (322516-001)	l l	Resistance (Ohms)	Cont 6NR	acts	Date Tested 12/12/2008
Polar Normal Pickup	Polar Normal Working	Polar Reverse Pickup	JOINT	Polar Reverse Working	12/12/2000
0.0188 A DC	0.0188 A DC	0.0220 A DC		0.0220 A DC	

	Relay Tes	sts (FRA 234.263, 236.106)		
Shelf Name R2 C	Relay Name 1A OR	Serial Number L919351	Condition N	Left
Relay Type (Drawing and/or Cata PN-150SO (322512-002)	log Number)	Resistance (Ohms) 0.039	Contacts 1B-1C	Date Tested
Shelf Name R2 C	Relay Name 1A WRPR	Serial Number L897087	Condition N	Left
Relay Type (Drawing and/or Cata PN-150BM (N322517-001 / 4A		Resistance (Ohms) 240	Contacts 2F Mag. HD	Date Tested
Shelf Name R2 C	Relay Name 1B WR	Serial Number L884683	Condition	Left
Relay Type (Drawing and/or Cata PP-151 (322516-001)	log Number)	Resistance (Ohms) 240	Contacts 6NR	Date Tested 12/12/2008
Polar Normal Pickup 0.0198 A DC	Polar Normal Working 0.0198 A DC	Polar Reverse Pickup 0.0185 A DC		olar Reverse Working 0185 A DC
Shelf Name R2 C	Relay Name 1B OR	Serial Number L914375	Condition	Left
Relay Type (Drawing and/or Cata PN-150SO (322512-002)		Resistance (Ohms)	Contacts 1B-1C	Date Tested
Shelf Name R2 C	Relay Name 1B WRPR	Serial Number L897139	Condition	Left
Relay Type (Drawing and/or Cata PN-150BM (N322517-001 / 4A	log Number)	Resistance (Ohms)	Contacts 2F Mag. HD	Date Tested
Shelf Name R2 C	Relay Name	Serial Number L903388	Condition	Left
Relay Type (Drawing and/or Cata PN-250B (N322554-701 / 4A1	log Number)	Resistance (Ohms) 250 (500/500 parallel)	Contacts 6FB-6F-3B	Date Tested
Shelf Name R2 C	Relay Name 1 RWCR	Serial Number L895044	Condition	Left
Relay Type (Drawing and/or Cata PN-250B (N322554-701 / 4A1	log Number)	Resistance (Ohms) 250 (500/500 parallel)	Contacts 6FB-6F-3B	Date Tested
Shelf Name R2 B	Relay Name	Serial Number L908250	Condition	Left
Relay Type (Drawing and/or Cata PN-150B (N322500-701 / 4A1	log Number)	Resistance (Ohms)	Contacts 6FB	Date Tested
Shelf Name R2 B	Relay Name 1NWCPR	Serial Number L751643	Condition	Left
Relay Type (Drawing and/or Cata PN-150B (N322500-701 / 4A1	log Number)	Resistance (Ohms)	Contacts 6FB	Date Tested
Shelf Name R1 F	Relay Name	Serial Number L803185	Condition	Left
Relay Type (Drawing and/or Cata PN-150B (N322500-701 / 4A1	log Number)	Resistance (Ohms)	Contacts 6FB	Date Tested
Shelf Name	Relay Name	Serial Number L906101	Condition	Left
Relay Type (Drawing and/or Cata PN-150B (N322500-701 / 4A1	log Number)	Resistance (Ohms)	Contacts 6FB	Date Tested
Shelf Name R1 F	Relay Name	Serial Number L906135	Condition	Left
Relay Type (Drawing and/or Cata PN-150B (N322500-701 / 4A1	log Number)	Resistance (Ohms)	Contacts 6FB	Date Tested
Shelf Name	Relay Name 1E FYR	Serial Number L906132	Condition	Left
Relay Type (Drawing and/or Cata PN-150B (N322500-701 / 4A1	log Number)	Resistance (Ohms)	Contacts 6FB	Date Tested
Shelf Name R1 F	Relay Name 1E PCR	Serial Number L767097	Condition	Left
Relay Type (Drawing and/or Cata PN-150BSR (N322503-701 / 4	log Number)	Resistance (Ohms)	Contacts 6F-6B	Date Tested
Shelf Name R1 F	Relay Name	Serial Number L906164	Condition N	Left
Relay Type (Drawing and/or Cata PN-150B (N322500-701 / 4A1		Resistance (Ohms)	Contacts 6FB	Date Tested
Shelf Name	Relay Name	Serial Number	Condition	Left
R1 F Relay Type (Drawing and/or Cata		L906195 Resistance (Ohms)	Contacts	Date Tested
PN-150B (N322500-701 / 4A1 Shelf Name	Relay Name	Serial Number	6FB Condition	Left
R1 F Relay Type (Drawing and/or Cata	2E DR log Number)	L906102 Resistance (Ohms)	Contacts	Date Tested
PN-150B (N322500-701 / 4A1)	400	6FB	

	Relay	Tests (FRA 234.263, 236.106)	
Shelf Name R1 F	Relay Name 2E FYR	Serial Number L906198	Condition Left N
Relay Type (Drawing and/or PN-150B (N322500-701 /	Catalog Number)	Resistance (Ohms)	Contacts Date Teste
Shelf Name R1 F	Relay Name 2E PCR	Serial Number	Condition Left
Relay Type (Drawing and/or	Catalog Number)	Resistance (Ohms)	Contacts Date Teste
PN-150BSR (N322503-70 Shelf Name	Relay Name	Serial Number	Condition Left
R1 E Relay Type (Drawing and/or		L802065 Resistance (Ohms)	N Date Teste
PN-150B (N322500-701 / Shelf Name	Relay Name	400 Serial Number	6FB Condition Left
R1 E Relay Type (Drawing and/or	1W HPR Catalog Number)	L871639 Resistance (Ohms)	N Date Teste
PN-150B (N322500-701 / Shelf Name	4A1) Relay Name	400 Serial Number	6FB Condition Left
R1 E Relay Type (Drawing and/or	1W ĎR	L886244 Resistance (Ohms)	N Date Teste
PN-150B (N322500-701 /	4A1)	400	6FB
Shelf Name R1 E	Relay Name 1W FYR	Serial Number L906126	Condition Left N
Relay Type (Drawing and/or PN-150B (N322500-701 /		Resistance (Ohms) 400	Contacts Date Teste
Shelf Name R1 E	Relay Name 1W PCR	Serial Number L817321	Condition Left N
Relay Type (Drawing and/or PN-150BSR (N322503-70		Resistance (Ohms) 100	Contacts Date Teste 6F-6B
Shelf Name R1 E	Relay Name 2W HR	Serial Number L761604	Condition Left N
Relay Type (Drawing and/or PN-150B (N322500-701 /	Catalog Number)	Resistance (Ohms)	Contacts Date Teste
Shelf Name R1 E	Relay Name 2W HPR	Serial Number L906131	Condition Left
Relay Type (Drawing and/or	Catalog Number)	Resistance (Ohms)	Contacts Date Teste
PN-150B (N322500-701 / Shelf Name	Relay Name	Serial Number	Condition Left
R1 E Relay Type (Drawing and/or		L906087 Resistance (Ohms)	N Date Teste
PN-150B (N322500-701 / Shelf Name	4A1) Relay Name	400 Serial Number	6FB Condition Left
R1 E Relay Type (Drawing and/or	2W FYR Catalog Number)	L882608 Resistance (Ohms)	N Date Teste
PN-150B (N322500-701 / Shelf Name		400 Serial Number	6FB Condition Left
R1 E Relay Type (Drawing and/or	2W PCR	L892789 Resistance (Ohms)	N Date Teste
PN-150BSR (N322503-70	01 / 4A3)	100	6F-6B
Shelf Name R1 D	Relay Name 2EB LOR	Serial Number L900904	Condition Left N
Relay Type (Drawing and/or PN-150BL (322510-903)		Resistance (Ohms) 175	Contacts 3FB Date Teste
Shelf Name R1 D	Relay Name 1EA LOR	Serial Number L826670	Condition Left N
Relay Type (Drawing and/or PN-150BL (322510-003)	Catalog Number)	Resistance (Ohms) 175	Contacts 3FB Date Teste
Shelf Name R1 D	Relay Name 1W YYR	Serial Number L823945	Condition Left N
Relay Type (Drawing and/or PN-150B (N322500-701 /	Catalog Number)	Resistance (Ohms)	Contacts 6FB Date Teste
Shelf Name R1 D	Relay Name 2EA HGR	Serial Number L803239	Condition Left
Relay Type (Drawing and/or PN-150B (N322500-701 /	Catalog Number)	Resistance (Ohms) 400	Contacts Date Teste
Shelf Name	Relay Name	Serial Number	Condition Left
R1 D Relay Type (Drawing and/or		L906149 Resistance (Ohms)	N Date Teste
PN-150B (N322500-701 / Shelf Name	4A1) Relay Name	400 Serial Number	6FB Condition Left
R1 D Relay Type (Drawing and/or	2EA_LOR	L901998 Resistance (Ohms)	N Date Teste
PN-150BL (322510-903)	,	175	3FB

	Relay	Tests (FRA 234.263, 236.106)		
Shelf Name R1 D	Relay Name 1EA HGR	Serial Number L890711	Condition Left	
Relay Type (Drawing and/or Catal PN-150B (N322500-701 / 4A1)		Resistance (Ohms) 400	Contacts 6FB	Date Tested
Shelf Name R1 C	Relay Name 1WA HGR	Serial Number L881207	Condition Left N	
Relay Type (Drawing and/or Catal PN-150B (N322500-701 / 4A1)	og Number)	Resistance (Ohms) 400	Contacts 6FB	Date Tested
Shelf Name R1 C	Relay Name 1WB HGR	Serial Number L887994	Condition Left	,
Relay Type (Drawing and/or Catal PN-150B (N322500-701 / 4A1)	og Number)	Resistance (Ohms) 400	Contacts 6FB	Date Tested
Shelf Name R1 C	Relay Name 2WA HGR	Serial Number L906146	Condition Left	
Relay Type (Drawing and/or Catal PN-150B (N322500-701 / 4A1)		Resistance (Ohms) 400	Contacts 6FB	Date Tested
Shelf Name R1 C	Relay Name 2W YYR	Serial Number L840895	Condition Left	
Relay Type (Drawing and/or Catal PN-150B (N322500-701 / 4A1)		Resistance (Ohms) 400	Contacts 6FB	Date Tested
Shelf Name R1 C	Relay Name 2WB LOR	Serial Number L808947	Condition Left	
Relay Type (Drawing and/or Catal PN-150BL (322510-003)	og Number)	Resistance (Ohms) 175	Contacts 3FB	Date Tested
Shelf Name R1 C	Relay Name 1WA LOR	Serial Number L902014	Condition Left	
Relay Type (Drawing and/or Catal PN-150BL (322510-903)	og Number)	Resistance (Ohms) 175	Contacts 3FB	Date Tested
Shelf Name R1 C	Relay Name 1WB LOR	Serial Number L902010	Condition Left	
Relay Type (Drawing and/or Catal PN-150BL (322510-903)	og Number)	Resistance (Ohms) 175	Contacts 3FB	Date Tested
Shelf Name R1 C	Relay Name 2WA LOR	Serial Number L900906	Condition Left	
Relay Type (Drawing and/or Catal PN-150BL (322510-903)	og Number)	Resistance (Ohms) 175	Contacts 3FB	Date Tested
Shelf Name R1 B	Relay Name 2 EOR	Serial Number B5093065	Condition Left	
Relay Type (Drawing and/or Catal PN-150F (N322530-701)	og Number)	Resistance (Ohms) 60	Contacts 6FB	Date Tested
Shelf Name R1 B	Relay Name SMKR	Serial Number L793379	Condition Left	
Relay Type (Drawing and/or Catal PN-150B (N322500-701 / 4A1)	og Number)	Resistance (Ohms) 400	Contacts 6FB	Date Tested
Shelf Name R1 B	Relay Name 1 EOR	Serial Number B1395301	Condition Left	
Relay Type (Drawing and/or Catal PN-150F (N322530-701)	og Number)	Resistance (Ohms) 60	Contacts 6FB	Date Tested
Shelf Name R1 B	Relay Name 1WA LOPR	Serial Number L803160	Condition Left	
Relay Type (Drawing and/or Catal PN-150B (N322500-701 / 4A1)	og Number)	Resistance (Ohms) 400	Contacts 6FB	Date Tested



Division: POWDER RIVER Asset ID: BABK6WJ

Subdivision: BLACK HILLS **Test Date:** 05/21/2009

Milepost (with Line Segment): 4 477.20 - 477.20 State: SD

Location / Highway Name: Single X Over

County: FALL RIVER

Employee's Name: Dale Niswender (dniswend) PARS Number: SETX0232

Conditions Master Key
C = Test completed, condition left in compliance.

- C = Test completed, condition left in compliance.

 R = Replacements made (identified in associated comments), test completed, and condition left in compliance.

 V = Visual inspection completed, condition left in compliance.

 NT = The equipment was not tested in this inspection.

 N = No inspection required. The given relay does not require inspection at this time.

Relay Tests (FRA 234.263, 236.106)									
Shelf Name E Relay Name 1W DR Serial Number L803292 Condition Left R Old relay had high restant contacts Old Serial Number: L886244									
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	imber)		Resistance (Ohms) 400	Cont 6FB	tacts	Date Tested 05/21/2009			
Neutral Dropaway 0.0063 A DC Neutral Pickup 0.0104 A DC					tral Working 04 A DC				



Division: POWDER RIVER BABK60E Asset ID:

Subdivision: BLACK HILLS **Test Date:** 07/26/2007

Milepost (with Line Segment): 4 478.80 - 478.80 State: SD

Location / Highway Name: Double X Over

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

Conditions Master Key

= Test completed, no exceptions found, and condition left in compliance.
= Adjustments made (identified in associated comments), test completed, and condition left in compliance.
= Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.
= Baseline data matches that recorded during the most recent Baseline test, so full test not required.

Governed by Special Instruction

 NT = The equipment was not tested in this inspection. N = Test Not Applicable.

NI = No Inspection Required.

CO = Compliant
NC = Not compliant

P = Pass F = Fail

NOTE: Entry of results of tests indicates for approach locking that all track sections in approach are effective, and for time locking each time locking circuit is effective.

Locking Tests							
Route Nomenclature	Date Tested	Mechanical (FRA 236.376)	Approach (FRA 236.377)	Time (FRA 236.378)	Route (FRA 236.379)	Indication (FRA 236.380)	Traffic (FRA 236.381)
1E(sig)-1.N(sw)-2.N(sw)-1W(sig)	07/26/2007	N	С	N	С	С	N
1E(sig)-1.R(sw)-2.N(sw)-2W(sig)	07/26/2007	N	С	N	С	С	N
1W(sig)-2.N(sw)-1.N(sw)-1E(sig)	07/26/2007	N	С	N	С	С	N
1W(sig)-2.R(sw)-1.N(sw)-2E(sig)	07/26/2007	N	С	N	С	С	N
2E(sig)-1.N(sw)-2.N(sw)-2W(sig)	07/26/2007	N	С	N	С	С	N
2E(sig)-1.N(sw)-2.R(sw)-1W(sig)	07/26/2007	N	С	N	С	С	N
2W(sig)-2.N(sw)-1.N(sw)-2E(sig)	07/26/2007	N	С	N	С	С	N
2W(sig)-2.N(sw)-1.R(sw)-1E(sig)	07/26/2007	N	С	N	С	С	N

Report ID: 01092586 Report Form Type: 2y Locking



Division: POWDER RIVER BABK60E Asset ID:

Subdivision: BLACK HILLS Test Date: 07/24/2009

Milepost (with Line Segment): 4 478.80 - 478.80 State: SD

Location / Highway Name: Double X Over

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

Conditions Master Key

= Test completed, no exceptions found, and condition left in compliance.
= Adjustments made (identified in associated comments), test completed, and condition left in compliance.
= Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.
= Baseline data matches that recorded during the most recent Baseline test, so full test not required.

Governed by Special Instruction

 NT = The equipment was not tested in this inspection. N = Test Not Applicable.

NI = No Inspection Required.

CO = Compliant
NC = Not compliant

P = Pass F = Fail

NOTE: Entry of results of tests indicates for approach locking that all track sections in approach are effective, and for time locking each time locking circuit is effective.

Locking Tests							
Route Nomenclature	Date Tested	Mechanical (FRA 236.376)	Approach (FRA 236.377)	Time (FRA 236.378)	Route (FRA 236.379)	Indication (FRA 236.380)	Traffic (FRA 236.381)
1E(sig)-1.N(sw)-2.N(sw)-1W(sig)	08/07/2009	N	С	N	С	С	N
1E(sig)-1.R(sw)-2.N(sw)-2W(sig)	07/24/2009	N	С	N	С	С	N
1W(sig)-2.N(sw)-1.N(sw)-1E(sig)	07/24/2009	N	С	N	С	С	N
1W(sig)-2.R(sw)-1.N(sw)-2E(sig)	07/24/2009	N	С	N	С	С	N
2E(sig)-1.N(sw)-2.N(sw)-2W(sig)	07/24/2009	N	С	N	С	С	N
2E(sig)-1.N(sw)-2.R(sw)-1W(sig)	07/24/2009	N	С	N	С	С	N
2W(sig)-2.N(sw)-1.N(sw)-2E(sig)	07/24/2009	N	С	N	С	С	N
2W(sig)-2.N(sw)-1.R(sw)-1E(sig)	07/24/2009	N	С	N	С	С	N

Report ID: 01821329 Report Form Type: 2y Locking



Inspection Report - Insulation Tests & Inspections

Division: POWDER RIVER Asset ID: BABK60E

Subdivision: BLACK HILLS **Test Date:** 06/04/2007

Milepost (with Line Segment): 4 478.80 - 478.80 State: SD

Location / Highway Name: Double X Over

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

Conditions Master Key

C = Test completed, condition left in compliance. Indicates that all wires in trunking and cable measured 500K Ohms and above.

A = Annual test required; insulation resistance between 500K and 200K Ohms. Prompt action shall be taken to remedy condition.

R = Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.

NT = The equipment was not tested in this inspection.

N = No inspection required. This is an annual re-inspection of a different conductor.

	Insulation Tests (FRA 234.267, 236.108)								
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Underground	12	14	HOUSE	1A SWITCH	С				
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Underground	2	6	HOUSE	1A SWITCH	С				
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Underground	12	14	HOUSE	1B SWITCH	C				
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Underground	3	6	HOUSE	1B SWITCH	C				
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Underground	3	6	HOUSE	1B SWITCH	С				
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Underground	3	6	HOUSE	1B SWITCH	С				
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Underground	2	6	HOUSE	1B SWITCH	С				
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Underground	2	6	HOUSE	1B SWITCH	C				
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Underground	12	14	HOUSE	2A SWITCH	C				
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Underground	3	6	HOUSE	2A SWITCH	C				
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Underground	2	6	HOUSE	2A SWITCH	C				
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Underground	12	14	HOUSE	2B SWITCH	Cond.				
Cable Type		Wire Size	Run From	Run To	Cond.				
Underground	Conductors 3	6	HOUSE	2B SWITCH	Cond.				
•									
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Underground	3	6	HOUSE	2B SWITCH	С				
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Underground	2	6	HOUSE	2B SWITCH	С				
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Underground	2	6	HOUSE	2B SWITCH	С				
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Underground	5	9	HOUSE	SIG. 1EA	С				
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Underground	5	9	HOUSE	SIG. 1EB	C				
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Underground	5	9	HOUSE	SIG. 1WA	C				
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Underground	5	9	HOUSE	SIG. 1WB	С				

Report ID: 01042040 Report Form Type: 10y Insulation

Insulation Tests (FRA 234.267, 236.108)								
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.			
Underground	5	9	HOUSE	SIG. 2EA	C			
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.			
Underground	5	9	HOUSE	SIG. 2EB	С			
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.			
Underground	5	9	HOUSE	SIG. 2WA	С			
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.			
Underground	5	9	HOUSE	SIG. 2WB	С			

Report ID: 01042040 Report Form Type: 10y Insulation



Inspection Report - Insulation Tests & Inspections

Division: POWDER RIVER Asset ID: BABK60E

Subdivision: BLACK HILLS Test Date: 03/27/2009

Milepost (with Line Segment): 4 478.80 - 478.80 State: SD

Location / Highway Name: Double X Over

County: FALL RIVER

Employee's Name: Dale Niswender (dniswend) PARS Number: SETX0232

Conditions Master Key

C = Test completed, condition left in compliance. Indicates that all wires in trunking and cable measured 500K Ohms and above.

A = Annual test required; insulation resistance between 500K and 200K Ohms. Prompt action shall be taken to remedy condition.

R = Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.

NT = The equipment was not tested in this inspection.

N = No inspection required. This is an annual re-inspection of a different conductor.

Insulation Tests (FRA 234.267, 236.108)							
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.		
Underground	5	9	HOUSE	2EA SIG	С		
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.		
Underground	5	9	HOUSE	2EB SIG.	С		

Report ID: 01690591 Report Form Type: 10y Insulation



Division: POWDER RIVER Asset ID: BABK60E

Subdivision: BLACK HILLS **Test Date:** 08/27/2007

Milepost (with Line Segment): 4 478.80 - 478.80 State: SD

Location / Highway Name: Double X Over

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

 $\begin{array}{ll} \underline{\textbf{Conditions Master Key}} \\ \textbf{C} & = \texttt{Test} \texttt{ completed, condition left in compliance.} \end{array}$

- C = Test completed, condition left in compliance.

 R = Replacements made (identified in associated comments), test completed, and condition left in compliance.

 V = Visual inspection completed, condition left in compliance.

 NT = The equipment was not tested in this inspection.

 N = No inspection required. The given relay does not require inspection at this time.

	Relay Tests (FRA	234.263, 236.106)			
Shelf Name R2 G	Relay Name 1 OSTPPR	Serial Number L984383		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu PN-250B (N322554-701 / 4A1)	mber)	Resistance (Ohms) 250 (500/500 parallel)		tacts -6F-3B	Date Tested Not Tested
Shelf Name R2 G	Relay Name 1E TR	Serial Number L916848		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	mber)	Resistance (Ohms) 400	Con 6FB	tacts	Date Tested Not Tested
Shelf Name R2 G	Relay Name 2E TR	Serial Number 3681A85		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	mber)	Resistance (Ohms) 400	Con 6FB	tacts	Date Tested Not Tested
Shelf Name R2 G	Relay Name 10S TR	Serial Number L981036		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu PN-150BTR (322501-702)	mber)	Resistance (Ohms)	Con 6F-6	tacts 6B	Date Tested Not Tested
Shelf Name R2 G	Relay Name 1 OSTP THR	Serial Number L891461		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu PT-150 (322518-005)	mber)	Resistance (Ohms)	Con 1F-1	tacts	Date Tested Not Tested
Shelf Name R2 G	Relay Name 1 OSTPR	Serial Number L903085		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu PN-250B (N322554-701 / 4A1)	mber)	Resistance (Ohms) 250 (500/500 parallel)		tacts I-6F-3B	Date Tested Not Tested
Shelf Name R2 G	Relay Name SMKR	Serial Number L928696		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	mber)	Resistance (Ohms) 400	Con 6FB	tacts	Date Tested Not Tested
Shelf Name R2 F	Relay Name 1W BKR	Serial Number L803196		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	mber)	Resistance (Ohms) 400	Con 6FB	tacts	Date Tested Not Tested
Shelf Name R2 F	Relay Name 2W BKR	Serial Number L803187		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	mber)	Resistance (Ohms) 400	Con 6FB	tacts	Date Tested Not Tested
Shelf Name R2 F	Relay Name 1W TR	Serial Number L753195		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	mber)	Resistance (Ohms) 400	Con 6FB	tacts	Date Tested Not Tested
Shelf Name R2 F	Relay Name 2W TR	Serial Number L803165		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	mber)	Resistance (Ohms) 400	Con 6FB	tacts	Date Tested Not Tested
Shelf Name R2 F	Relay Name 2 OS TR	Serial Number L918062		Condition Left NT	·
Relay Type (Drawing and/or Catalog Nu PN-150BTR (322501-702)	mber)	Resistance (Ohms)	Con 6F-6	tacts 6B	Date Tested Not Tested
Shelf Name R2 F	Relay Name 2 OSTP THR	Serial Number L891466		Condition Left NT	
Relay Type (Drawing and/or Catalog Nu PT-150 (322518-005)	mber)	Resistance (Ohms)	Con 1F-1	tacts ICB	Date Tested Not Tested

	F	ay Tests (FRA 234.263, 236.106)			
Shelf Name R2 F	Relay Name 2 OSTPR	Serial Number L903088	Cor NT	ndition Left	
Relay Type (Drawing and/or C PN-250B(N322554-701 / 4		Resistance (Ohms) 250 (500/500 paralle	Contacts 6FB-6F-		Date Tested Not Tested
Shelf Name R2 F	Relay Name 2OSTPPR	Serial Number L907413	Coi NT	ndition Left	
Relay Type (Drawing and/or C PN-250B (N322554-701 / 4		Resistance (Ohms) 250 (500/500 paralle	Contacts el) 6FB-6F-		Date Tested Not Tested
Shelf Name R2 E	Relay Name LR	Serial Number L906227	Cor	ndition Left	'
Relay Type (Drawing and/or C PN-150B (N322500-701 / 4		Resistance (Ohms) 400	Contacts 6FB	3	Date Tested Not Tested
Shelf Name R2 E	Relay Name 1LSR	Serial Number L795524	Cor NT	ndition Left	,
Relay Type (Drawing and/or C PN-150B (N322500-701 / 4		Resistance (Ohms) 400	Contacts 6FB	3	Date Tested Not Tested
Shelf Name R2 E	Relay Name 1E ASR	Serial Number L895159	Cor NT	ndition Left	'
Relay Type (Drawing and/or C PN-250B (N322554-701 / 4		Resistance (Ohms) 250 (500/500 paralle	Contacts		Date Tested Not Tested
Shelf Name R2 E	Relay Name 1W ASR	Serial Number L903072	Cor	ndition Left	
Relay Type (Drawing and/or C PN-250B (N322554-701 / 4		Resistance (Ohms) 250 (500/500 paralle	Contacts el) 6FB-6F-		Date Tested Not Tested
Shelf Name R2 E	Relay Name 1ASPR	Serial Number L906208	<i>,</i> , , , , , , , , , , , , , , , , , ,	ndition Left	
Relay Type (Drawing and/or C PN-150B (N322500-701 / 4		Resistance (Ohms) 400	Contacts 6FB	3	Date Tested Not Tested
Shelf Name R2 E	Relay Name POR	Serial Number L867502	Cor	ndition Left	'
Relay Type (Drawing and/or C PN-150P (322508-002)	atalog Number)	Resistance (Ohms) 240	Contacts 4F-4BH		Date Tested 08/27/2007
Neutral Dropaway 6.7600 V AC	Neutral 9.3200		Neutral \ 9.3200		'
Shelf Name R2 E	Relay Name POPR	Serial Number L906253	Cor NT	ndition Left	
Relay Type (Drawing and/or C PN-150B (N322500-701 / 4		Resistance (Ohms) 400	Contacts 6FB	3	Date Tested Not Tested
Shelf Name R2 E	Relay Name 1 TER	Serial Number L893218	Coi NT	ndition Left	
Relay Type (Drawing and/or C PN-150T (322523-308)	atalog Number)	Resistance (Ohms)	Contacts 3F	3	Date Tested Not Tested
Shelf Name R2 D	Relay Name 2 LSR	Serial Number L916574	Coi NT	ndition Left	
Relay Type (Drawing and/or C PN-150B (N322500-701 / 4		Resistance (Ohms) 400	Contacts 6FB	3	Date Tested Not Tested
Shelf Name R2 D	Relay Name 2E ASR	Serial Number L903355	Coi NT	ndition Left	,
Relay Type (Drawing and/or C PN-250B (N322554-701 / 4		Resistance (Ohms) 250 (500/500 paralle	Contacts el) 6FB-6F-		Date Tested Not Tested
Shelf Name R2 D	Relay Name 2W ASR	Serial Number L903356	Coi NT	ndition Left	
Relay Type (Drawing and/or C PN-250B (N322554-701 / 4		Resistance (Ohms) 250 (500/500 paralle	Contacts el) 6FB-6F-		Date Tested Not Tested
Shelf Name R2 D	Relay Name 2 ASPR	Serial Number L906201		ndition Left	'
Relay Type (Drawing and/or C PN-150B (N322500-701 / 4		Resistance (Ohms) 400	Contacts 6FB	3	Date Tested Not Tested
Shelf Name R2 D	Relay Name 1 NWCPR	Serial Number L803163	Coi NT	ndition Left	'
Relay Type (Drawing and/or C PN-150B (N322500-701 / 4		Resistance (Ohms) 400	Contacts 6FB	3	Date Tested Not Tested
Shelf Name R2 D	Relay Name 2 NWCPR	Serial Number L707765	Cor NT	ndition Left	
Relay Type (Drawing and/or C PN-150B (N322500-701 / 4		Resistance (Ohms) 400	Contacts 6FB	3	Date Tested Not Tested
Shelf Name R2 D	Relay Name 2 TER	Serial Number L893243	Cor	ndition Left	
Relay Type (Drawing and/or C PN-150T (322523-308)		Resistance (Ohms)	Contacts 3F	3	Date Tested Not Tested

Chalf Name		Tests (FRA 234.263, 236.106)	Canditiani	off
Shelf Name R2 C	Relay Name 1A WR	Serial Number L900446	Condition L NT	.eft
Relay Type (Drawing and/o PP-151 (322516-001)	r Catalog Number)	Resistance (Ohms) 240	Contacts 6NR	Date Tester Not Tester
Shelf Name R2 C	Relay Name 1A OR	Serial Number L914373	Condition L	eft
Relay Type (Drawing and/o PN-150SO (322512-002)		Resistance (Ohms)	Contacts 1B-1C	Date Tester Not Tester
Shelf Name	Relay Name	Serial Number	Condition L	
R2 C Relay Type (Drawing and/o PN-150BM (322517-001		L897145 Resistance (Ohms) 240	NT Contacts 2FMHD	Date Tester Not Tester
Shelf Name	Relay Name	Serial Number	Condition L	
Relay Type (Drawing and/o	1B WR r Catalog Number)	L884682 Resistance (Ohms)	Contacts	Date Teste
PP-151 (322516-001) Shelf Name	Relay Name	Serial Number	6NR Condition L	Not Tested
R2 C Relay Type (Drawing and/o		L914372 Resistance (Ohms)	NT Contacts	Date Teste
PN-150SO (322512-002) Shelf Name	Relay Name	0.039 Serial Number	1B-1C Condition L	Not Tested
R2 C Relay Type (Drawing and/o	1B WRPR	L897146 Resistance (Ohms)	NT Contacts	Date Teste
PN-150BM (322517-001	,	240	2FMHD	Not Tested
Shelf Name R2 C	Relay Name 1 NWCR	Serial Number L903069	Condition L NT	
Relay Type (Drawing and/o PN-250B(N322554-701	/ 4A1)	Resistance (Ohms) 250 (500/500 parallel)	Contacts 6FB-6F-3B	Date Tester Not Tester
Shelf Name R2 C	Relay Name 1 RWCR	Serial Number L907410	Condition L NT	.eft
Relay Type (Drawing and/o PN-250B (N322554-701		Resistance (Ohms) 250 (500/500 parallel)	Contacts 6FB-6F-3B	Date Tester Not Tester
Shelf Name R2 B	Relay Name 2A WR	Serial Number L884688	Condition L NT	eft
Relay Type (Drawing and/o PP-151 (322516-001)	r Catalog Number)	Resistance (Ohms) 240	Contacts 6NR	Date Tester Not Tester
Shelf Name R2 B	Relay Name 2A OR	Serial Number L914370	Condition L NT	eft
Relay Type (Drawing and/o PN-150SO (322512-002)		Resistance (Ohms) 0.039	Contacts 1B-1C	Date Tester Not Tester
Shelf Name R2 B	Relay Name 2A WRPR	Serial Number L919636	Condition L NT	eft
Relay Type (Drawing and/o PN-150BM (322517-001		Resistance (Ohms) 240	Contacts 2FMHD	Date Teste Not Tested
Shelf Name R2 B	Relay Name 2B WR	Serial Number L884685	Condition L NT	eft
Relay Type (Drawing and/o PP-151 (322516-001)		Resistance (Ohms) 240	Contacts 6NR	Date Tester Not Tester
Shelf Name	Relay Name 2B OR	Serial Number L919345	Condition L	
Relay Type (Drawing and/o PN-150SO (322512-002)	r Catalog Number)	Resistance (Ohms) 0.039	Contacts 1B-1C	Date Tester Not Tester
Shelf Name R2 B	Relay Name 2B WRPR	Serial Number L919674	Condition L	
Relay Type (Drawing and/o PN-150BM (322517-001	r Catalog Number)	Resistance (Ohms)	Contacts 2FMHD	Date Tester Not Tester
Shelf Name R2 B	Relay Name 2NWCR	Serial Number L903070	Condition L NT	
Relay Type (Drawing and/o PN-250B(N322554-701	r Catalog Number)	Resistance (Ohms) 250 (500/500 parallel)	Contacts 6FB-6F-3B	Date Tester Not Tester
Shelf Name R2 B	Relay Name 2RWCR	Serial Number L903377	Condition L	
Relay Type (Drawing and/o PN-250B(N322554-701	r Catalog Number)	Resistance (Ohms) 250 (500/500 parallel)	Contacts 6FB-6F-3B	Date Tester Not Tester
Shelf Name R1 F	Relay Name	Serial Number L908259	Condition L NT	
Relay Type (Drawing and/o	r Catalog Number)	Resistance (Ohms)	Contacts 6FB	Date Tester Not Tester
PN-150B (N322500-701) Shelf Name R1 F	Relay Name	Serial Number L908258	Condition L	
	r Catalog Number)	Resistance (Ohms)	Contacts	Date Teste

Shelf Name	Relay Name	Tests (FRA 234.263, 236.106) Serial Number	Condition Left	
R1 F	1E ĎR	L906229	NT	
Relay Type (Drawing and/o PN-150B (N322500-701		Resistance (Ohms) 400	Contacts 6FB	Date Tested Not Tested
Shelf Name R1 F	Relay Name 1E FYR	Serial Number L906174	Condition Left NT	
Relay Type (Drawing and/o PN-150B (N322500-701		Resistance (Ohms)	Contacts 6FB	Date Tested
Shelf Name R1 F	Relay Name	Serial Number L813336	Condition Left NT	1100 10000
Relay Type (Drawing and/o PN-150BSR(N322503-7	or Catalog Number)	Resistance (Ohms)	Contacts 6F-6B	Date Tested
Shelf Name R1 F	Relay Name 2E HR	Serial Number L906234	Condition Left	1401 100100
Relay Type (Drawing and/o PN-150B(N322500-701	or Catalog Number)	Resistance (Ohms)	Contacts 6FB	Date Tested
Shelf Name R1 F	Relay Name 2E HPR	Serial Number	Condition Left NT	Not rested
Relay Type (Drawing and/o	or Catalog Number)	L906204 Resistance (Ohms)	Contacts	Date Tested
PN-150B (N322500-701 Shelf Name	Relay Name	400 Serial Number	6FB Condition Left	Not Tested
R1 F Relay Type (Drawing and/o		L902494 Resistance (Ohms)	NT Contacts	Date Tested
PN-150B (N322500-701 Shelf Name	/ 4A1) Relay Name	400 Serial Number	6FB Condition Left	Not Tested
R1 F Relay Type (Drawing and/o	2E FYR	L906177 Resistance (Ohms)	NT Contacts	Date Tested
PN-150B (N322500-701 Shelf Name	/ 4A1)	400 Serial Number	6FB Condition Left	Not Tested
R1 F	Relay Name 2E PCR	L833352	NT	
Relay Type (Drawing and/o PN-150BSR (N322503-7	701 / 4A3)	Resistance (Ohms)	Contacts 6F-6B	Not Tested
Shelf Name R1 E	Relay Name 1W HR	Serial Number L890991	Condition Left NT	
Relay Type (Drawing and/c PN-150B (N322500-701		Resistance (Ohms) 400	Contacts 6FB	Date Tested Not Tested
Shelf Name R1 E	Relay Name 1W HPR	Serial Number L906129	Condition Left NT	,
Relay Type (Drawing and/o PN-150B (N322500-701		Resistance (Ohms) 400	Contacts 6FB	Date Tested Not Tested
Shelf Name R1 E	Relay Name 1W DR	Serial Number L908278	Condition Left NT	,
Relay Type (Drawing and/o PN-150B (N322500-701		Resistance (Ohms) 400	Contacts 6FB	Date Tested Not Tested
Shelf Name R1 E	Relay Name 1W FYR	Serial Number L906231	Condition Left NT	1.100.100.00
Relay Type (Drawing and/o PN-150B(N322500-701	or Catalog Number)	Resistance (Ohms) 400	Contacts 6FB	Date Tested Not Tested
Shelf Name R1 E	Relay Name 1W PCR	Serial Number L812766	Condition Left NT	Not rested
Relay Type (Drawing and/o	or Catalog Number)	Resistance (Ohms)	Contacts	Date Tested
PN-150BSR(N322503-7 Shelf Name	Relay Name	Serial Number	6F-6B Condition Left	Not Tested
R1 E Relay Type (Drawing and/o		L906210 Resistance (Ohms)	Contacts	Date Tested
PN-150B (N322500-701 Shelf Name	Relay Name	400 Serial Number	6FB Condition Left	Not Tested
R1 E Relay Type (Drawing and/o	2W HPR or Catalog Number)	L906215 Resistance (Ohms)	NT Contacts	Date Tested
PN-150B (N322500-701 Shelf Name		400 Serial Number	6FB Condition Left	Not Tested
R1 E Relay Type (Drawing and/o	2W ĎR	L884100 Resistance (Ohms)	NT Contacts	Date Tested
PN-150B (N322500-701	/ 4A1)	400	6FB	Not Tested
Shelf Name R1 E	Relay Name 2W FYR	Serial Number L891470	Condition Left NT	1= =
Relay Type (Drawing and/o PN-150B (N322500-701	/ 4A1)	Resistance (Ohms) 400	Contacts 6FB	Date Tested Not Tested
Shelf Name R1 E	Relay Name 2W PCR	Serial Number L818103	Condition Left NT	
Relay Type (Drawing and/o PN-150BSR (N322503-7		Resistance (Ohms)	Contacts 6F-6B	Date Tested Not Tested

	Relay	Tests (FRA 234.263, 236.106)			
Shelf Name R1 D	Relay Name 1EA HGR	Serial Number L884054		Condition Left NT	
Relay Type (Drawing and/or Control PN-150B (N322500-701 / 4)	atalog Number)	Resistance (Ohms)	Cont 6FB		Date Tested Not Tested
Shelf Name R1 D	Relay Name 1EA LOR	Serial Number L901983	0. 5	Condition Left NT	THOI TOSICU
Relay Type (Drawing and/or C		Resistance (Ohms)	Cont 3FB	tacts	Date Tested Not Tested
PN-150BL (322510-003) Shelf Name	Relay Name	Serial Number	SEB	Condition Left	Not rested
R1 D Relay Type (Drawing and/or C		L906248 Resistance (Ohms)	Cont		Date Tested
PN-150B (N322500-701 / 4. Shelf Name	Relay Name	400 Serial Number	6FB	Condition Left	Not Tested
R1 D Relay Type (Drawing and/or C	1EB LOR atalog Number)	L902015 Resistance (Ohms)	Cont	NT tacts	Date Tested
PN-150BL (322510-003) Shelf Name	Relay Name	175 Serial Number	3FB	Condition Left	Not Tested
R1 D Relay Type (Drawing and/or C	2EA HGR	L906140 Resistance (Ohms)	Cont	NT	Date Tested
PN-150B (N322500-701 / 4	A1)	400	6FB		Not Tested
Shelf Name R1 D	Relay Name 2EA LOR	Serial Number L900905		Condition Left NT	
Relay Type (Drawing and/or Control PN-150BL (322510-003)	atalog Number)	Resistance (Ohms) 175	Cont 3FB		Date Tested Not Tested
Shelf Name R1 D	Relay Name 2EB HGR	Serial Number L906162		Condition Left NT	
Relay Type (Drawing and/or C PN-150B (N322500-701 / 4		Resistance (Ohms) 400	Cont 6FB		Date Tested Not Tested
Shelf Name R1 D	Relay Name 2EB LOR	Serial Number L902018		Condition Left NT	,
Relay Type (Drawing and/or Control PN-150BL (322510-003)	atalog Number)	Resistance (Ohms)	Cont 3FB		Date Tested Not Tested
Shelf Name R1 C	Relay Name 1WA HGR	Serial Number L906086	0. 2	Condition Left NT	1100 100000
Relay Type (Drawing and/or C PN-150B (N322500-701 / 4.	atalog Number)	Resistance (Ohms)	Cont 6FB	tacts	Date Tested Not Tested
Shelf Name R1 C	Relay Name 1WA LOR	Serial Number L902046	01.0	Condition Left NT	Not rested
Relay Type (Drawing and/or C		Resistance (Ohms)	Cont 3FB	tacts	Date Tested
PN-150BL (322510-003) Shelf Name	Relay Name	175 Serial Number	SFD	Condition Left	Not Tested
R1 C Relay Type (Drawing and/or C		L906209 Resistance (Ohms)	Cont		Date Tested
PN-150B (N322500-701 / 4. Shelf Name	A1) Relay Name	400 Serial Number	6FB	Condition Left	Not Tested
R1 C Relay Type (Drawing and/or C	1WB LOR atalog Number)	L827410 Resistance (Ohms)	Cont	NT tacts	Date Tested
PN-150BL (322510-003) Shelf Name	Relay Name	175 Serial Number	3FB	Condition Left	Not Tested
R1 C Relay Type (Drawing and/or C	2WÁ HGR	L908267 Resistance (Ohms)	Cont	NT	Date Tested
PN-150B (N322500-701 / 4.	A1)	400 Serial Number	6FB		Not Tested
R1 C	Relay Name 2WA LOR	L900929		NT	
Relay Type (Drawing and/or Control PN-150BL (322510-003)		Resistance (Ohms) 175	3FB		Date Tested Not Tested
Shelf Name R1 C	Relay Name 2WB HGR	Serial Number L802431		Condition Left NT	
Relay Type (Drawing and/or C PN-150B (N322500-701 / 4		Resistance (Ohms) 400	Cont 6FB	acts	Date Tested Not Tested
Shelf Name R1 C	Relay Name 2WB LOR	Serial Number L900908		Condition Left NT	
Relay Type (Drawing and/or Control PN-150BL (322510-003)		Resistance (Ohms)	Cont 3FB	acts	Date Tested Not Tested
Shelf Name R1 B	Relay Name 2 EOR	Serial Number B5093057		Condition Left NT	1111100000
Relay Type (Drawing and/or C	l .	Resistance (Ohms)	Cont 6FB	tacts	Date Tested Not Tested
PN-150F (N322530-701) Shelf Name	Relay Name	Serial Number	UFB	Condition Left	NOT TESTED
Relay Type (Drawing and/or C		L799037 Resistance (Ohms)		NT tacts	Date Tested
PN-150B (N322500-701 / 4	A1)	400	6FB		Not Tested

Relay Tests (FRA 234.263, 236.106)							
Shelf Name R1 B	Relay Name 1 EOR			Condition Left NT			
Relay Type (Drawing and/or Catalog Number) PN-150F (N322530-701)		Resistance (Ohms) 60	Contacts 6FB		1 -	Date Tested Not Tested	
Shelf Name R1 B	Relay Name 2EA LOPR			Condition Left NT	·		
Relay Type (Drawing and/or Catalog Number) PN-150B (N322500-701 / 4A1)		Resistance (Ohms) 400	Con 6FB			Date Tested Not Tested	



Division: POWDER RIVER Asset ID: BABK60E

Subdivision: BLACK HILLS **Test Date:** 12/12/2008

Milepost (with Line Segment): 4 478.80 - 478.80 State: SD

Location / Highway Name: Double X Over

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

 $\begin{array}{ll} \underline{\textbf{Conditions Master Key}} \\ \textbf{C} & = \texttt{Test} \texttt{ completed, condition left in compliance.} \end{array}$

- C = Test completed, condition left in compliance.

 R = Replacements made (identified in associated comments), test completed, and condition left in compliance.

 V = Visual inspection completed, condition left in compliance.

 NT = The equipment was not tested in this inspection.

 N = No inspection required. The given relay does not require inspection at this time.

	Relay Tests (FRA	234.263, 236.106)			
Shelf Name R2 G	Relay Name 1 OSTPPR	Serial Number L984383		Condition Left N	
Relay Type (Drawing and/or Catalog Nu PN-250B (N322554-701 / 4A1)	mber)	Resistance (Ohms) 250 (500/500 parallel)		tacts -6F-3B	Date Tested
Shelf Name R2 G	Relay Name 1E TR	Serial Number L916848		Condition Left N	
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	mber)	Resistance (Ohms) 400	Con 6FB	tacts	Date Tested
Shelf Name R2 G	Relay Name 2E TR	Serial Number 3681A85		Condition Left N	
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	mber)	Resistance (Ohms) 400	Con 6FB	tacts	Date Tested
Shelf Name R2 G	Relay Name 10S TR	Serial Number L981036		Condition Left N	
Relay Type (Drawing and/or Catalog Nu PN-150BTR (322501-702)	mber)	Resistance (Ohms)	Con 6F-6	tacts 6B	Date Tested
Shelf Name R2 G	Relay Name 1 OSTP THR	Serial Number L891461		Condition Left N	
Relay Type (Drawing and/or Catalog Nu PT-150 (322518-005)	mber)	Resistance (Ohms)	Con	tacts	Date Tested
Shelf Name R2 G	Relay Name 1 OSTPR	Serial Number L903085		Condition Left N	
Relay Type (Drawing and/or Catalog Nu PN-250B (N322554-701 / 4A1)	mber)	Resistance (Ohms) 250 (500/500 parallel)		tacts I-6F-3B	Date Tested
Shelf Name R2 G	Relay Name SMKR	Serial Number L928696		Condition Left N	
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	mber)	Resistance (Ohms) 400	Con 6FB	tacts	Date Tested
Shelf Name R2 F	Relay Name 1W BKR	Serial Number L803196		Condition Left N	
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	mber)	Resistance (Ohms) 400	Con 6FB	tacts	Date Tested
Shelf Name R2 F	Relay Name 2W BKR	Serial Number L803187		Condition Left N	
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	mber)	Resistance (Ohms) 400	Con 6FB	tacts	Date Tested
Shelf Name R2 F	Relay Name 1W TR	Serial Number L753195	•	Condition Left N	
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	mber)	Resistance (Ohms) 400	Con 6FB	tacts	Date Tested
Shelf Name R2 F	Relay Name 2W TR	Serial Number L803165		Condition Left N	
Relay Type (Drawing and/or Catalog Nu PN-150B (N322500-701 / 4A1)	mber)	Resistance (Ohms) 400	Con 6FB	tacts	Date Tested
Shelf Name R2 F	Relay Name 2 OS TR	Serial Number L918062		Condition Left N	
Relay Type (Drawing and/or Catalog Nu PN-150BTR (322501-702)	mber)	Resistance (Ohms)	Con 6F-6	tacts 6B	Date Tested
Shelf Name R2 F	Relay Name 2 OSTP THR	Serial Number L891466		Condition Left N	
Relay Type (Drawing and/or Catalog Nu PT-150 (322518-005)	mber)	Resistance (Ohms)	Con 1F-1	tacts ICB	Date Tested

Shelf Name R2 F Relay Type (Drawing and/or Catalog No PN-250B (N322554-701 / 4A1) Shelf Name R2 F Relay Type (Drawing and/or Catalog No PN-250B (N322554-701 / 4A1)		Serial Number L903088		Condition Left	
Relay Type (Drawing and/or Catalog No PN-250B (N322554-701 / 4A1) Shelf Name R2 F Relay Type (Drawing and/or Catalog No	umber)			l N	
R2 F Relay Type (Drawing and/or Catalog No		Resistance (Ohms) 250 (500/500 parallel)	Cont 6FB	**	Date Tested
Relay Type (Drawing and/or Catalog No	Relay Name 2OSTPPR	Serial Number L907413		Condition Left N	
		Resistance (Ohms) 250 (500/500 parallel)		tacts -6F-3B	Date Tested
Shelf Name	Relay Name	Serial Number	ם וס	Condition Left	
R2 E Relay Type (Drawing and/or Catalog No	LR umber)	L906227 Resistance (Ohms)	Cont	N tacts	Date Tested
PN-150B (N322500-701 / 4A1) Shelf Name	Relay Name	400 Serial Number	6FB	Condition Left	
R2 E	1LSŘ	L795524	0	N	Data Tanta d
PN-150B (N322500-701 / 4A1)	,	Resistance (Ohms) 400	6FB		Date Tested
Shelf Name R2 E	Relay Name 1E ASR	Serial Number L895159		Condition Left N	
Relay Type (Drawing and/or Catalog No PN-250B (N322554-701 / 4A1)	umber)	Resistance (Ohms) 250 (500/500 parallel)		tacts -6F-3B	Date Tested
Shelf Name R2 E	Relay Name 1W ASR	Serial Number L903072		Condition Left	
Relay Type (Drawing and/or Catalog No PN-250B (N322554-701 / 4A1)	-	Resistance (Ohms) 250 (500/500 parallel)		itacts -6F-3B	Date Tested
Shelf Name R2 E	Relay Name 1ASPR	Serial Number L906208	J. J.	Condition Left	
Relay Type (Drawing and/or Catalog Nu		Resistance (Ohms)		tacts	Date Tested
PN-150B (N322500-701 / 4A1) Shelf Name R2 E	Relay Name	Serial Number	6FB	Condition Left	
Relay Type (Drawing and/or Catalog No PN-150P (322508-002)		Resistance (Ohms)		in tacts 4BHD	Date Tested
Shelf Name R2 E	Relay Name POPR	Serial Number L906253		Condition Left N	
Relay Type (Drawing and/or Catalog No PN-150B (N322500-701 / 4A1)		Resistance (Ohms)	Cont 6FB	tacts	Date Tested
Shelf Name R2 E	Relay Name 1 TER	Serial Number L893218		Condition Left N	
Relay Type (Drawing and/or Catalog No PN-150T (322523-308)	umber)	Resistance (Ohms)	Cont 3F	tacts	Date Tested
Shelf Name R2 D	Relay Name 2 LSR	Serial Number L916574		Condition Left N	
Relay Type (Drawing and/or Catalog No PN-150B (N322500-701 / 4A1)	umber)	Resistance (Ohms) 400	Cont 6FB	tacts	Date Tested
Shelf Name R2 D	Relay Name 2E ASR	Serial Number L903355		Condition Left N	
Relay Type (Drawing and/or Catalog No PN-250B (N322554-701 / 4A1)	umber)	Resistance (Ohms) 250 (500/500 parallel)	Cont 6FB	tacts -6F-3B	Date Tested
Shelf Name R2 D	Relay Name 2W ASR	Serial Number L903356		Condition Left N	
Relay Type (Drawing and/or Catalog No PN-250B (N322554-701 / 4A1)		Resistance (Ohms) 250 (500/500 parallel)		tacts -6F-3B	Date Tested
Shelf Name R2 D	Relay Name 2 ASPR	Serial Number L906201	J. D	Condition Left	
Relay Type (Drawing and/or Catalog No PN-150B (N322500-701 / 4A1)		Resistance (Ohms)	Cont 6FB	tacts	Date Tested
Shelf Name	Relay Name	Serial Number	J OI-B	Condition Left	
Relay Type (Drawing and/or Catalog No	1 NWCPR umber)	L803163 Resistance (Ohms)		tacts	Date Tested
PN-150B (N322500-701 / 4A1) Shelf Name	Relay Name	400 Serial Number	6FB	Condition Left	
Relay Type (Drawing and/or Catalog No	2 NWCPR umber)	L707765 Resistance (Ohms)		N tacts	Date Tested
PN-150B (N322500-701 / 4A1) Shelf Name	Relay Name	Serial Number	6FB	Condition Left	
R2 D Relay Type (Drawing and/or Catalog No	2 TER umber)	L893243 Resistance (Ohms)		N tacts	Date Tested
PN-150T (322523-308) Shelf Name	Relay Name	Serial Number	3F	Condition Left	
R2 C Relay Type (Drawing and/or Catalog No. PP-151 (322516-001)		L900446 Resistance (Ohms) 240	Cont 6NR	tacts	Date Tested 12/12/2008
Polar Normal Pickup 0.0204 A DC	Polar Normal Working 0.0204 A DC	Polar Reverse Pickup 0.0222 A DC	JINIT	Polar Reverse Working 0.0222 A DC	

	Relay Tes	ts (FRA 234.263, 236.106)	
Shelf Name R2 C	Relay Name 1A OR	Serial Number L914373	Condition Left N
Relay Type (Drawing and/or Cata PN-150SO (322512-002)	log Number)	Resistance (Ohms) 0.039	Contacts Date Tested 1B-1C
Shelf Name R2 C	Relay Name 1A WRPR	Serial Number L897145	Condition Left N
Relay Type (Drawing and/or Cata PN-150BM (322517-001)	log Number)	Resistance (Ohms) 240	Contacts Date Tested 2FMHD
Shelf Name R2 C	Relay Name 1B WR	Serial Number L884682	Condition Left
Relay Type (Drawing and/or Cata PP-151 (322516-001)	log Number)	Resistance (Ohms) 240	Contacts Date Tested 6NR 12/12/2008
Polar Normal Pickup 0.0185 A DC	Polar Normal Working 0.0185 A DC	Polar Reverse Pickup 0.0187 A DC	Polar Reverse Working 0.0187 A DC
Shelf Name R2 C	Relay Name 1B OR	Serial Number L914372	Condition Left N
Relay Type (Drawing and/or Cata PN-150SO (322512-002)	log Number)	Resistance (Ohms) 0.039	Contacts Date Tested 1B-1C
Shelf Name R2 C	Relay Name 1B WRPR	Serial Number L897146	Condition Left N
Relay Type (Drawing and/or Cata PN-150BM (322517-001)	log Number)	Resistance (Ohms) 240	Contacts Date Tested 2FMHD
Shelf Name R2 C	Relay Name 1 NWCR	Serial Number L903069	Condition Left
Relay Type (Drawing and/or Cata PN-250B (N322554-701 / 4A1		Resistance (Ohms) 250 (500/500 parallel)	Contacts Date Tested 6FB-6F-3B
Shelf Name R2 C	Relay Name	Serial Number L907410	Condition Left
Relay Type (Drawing and/or Cata PN-250B (N322554-701 / 4A1		Resistance (Ohms) 250 (500/500 parallel)	Contacts Date Tested 6FB-6F-3B
Shelf Name R2 B	Relay Name 2A WR	Serial Number L884688	Condition Left
Relay Type (Drawing and/or Cata PP-151 (322516-001)	log Number)	Resistance (Ohms) 240	Contacts
Polar Normal Pickup 0.0232 A DC	Polar Normal Working 0.0232 A DC	Polar Reverse Pickup 0.0232 A DC	Polar Reverse Working 0.0232 A DC
Shelf Name R2 B	Relay Name 2A OR	Serial Number L914370	Condition Left N
Relay Type (Drawing and/or Cata PN-150SO (322512-002)	log Number)	Resistance (Ohms) 0.039	Contacts Date Tested 1B-1C
Shelf Name R2 B	Relay Name 2A WRPR	Serial Number L919636	Condition Left N
Relay Type (Drawing and/or Cata PN-150BM (322517-001)	log Number)	Resistance (Ohms) 240	Contacts Date Tested 2FMHD
Shelf Name R2 B	Relay Name 2B WR	Serial Number L884685	Condition Left
Relay Type (Drawing and/or Cata PP-151 (322516-001)	log Number)	Resistance (Ohms) 240	Contacts Date Tested 6NR 12/12/2008
Polar Normal Pickup 0.0210 A DC	Polar Normal Working 0.0210 A DC	Polar Reverse Pickup 0.0203 A DC	Polar Reverse Working 0.0203 A DC
Shelf Name R2 B	Relay Name 2B OR	Serial Number L919345	Condition Left N
Relay Type (Drawing and/or Cata PN-150SO (322512-002)	log Number)	Resistance (Ohms) 0.039	Contacts Date Tested
Shelf Name R2 B	Relay Name 2B WRPR	Serial Number L919674	Condition Left
Relay Type (Drawing and/or Cata PN-150BM (322517-001)	log Number)	Resistance (Ohms) 240	Contacts Date Tested 2FMHD
Shelf Name R2 B	Relay Name 2NWCR	Serial Number L903070	Condition Left N
Relay Type (Drawing and/or Cata PN-250B (N322554-701 / 4A1	log Number)	Resistance (Ohms) 250 (500/500 parallel)	Contacts Date Tested 6FB-6F-3B
Shelf Name R2 B	Relay Name 2RWCR	Serial Number L903377	Condition Left N
Relay Type (Drawing and/or Cata PN-250B (N322554-701 / 4A1	log Number)	Resistance (Ohms) 250 (500/500 parallel)	Contacts Date Tested
Shelf Name R1 F	Relay Name	Serial Number L908259	Condition Left
Relay Type (Drawing and/or Cata PN-150B (N322500-701 / 4A1		Resistance (Ohms) 400	Contacts Date Tested 6FB

	Relay	Tests (FRA 234.263, 236.106)		
Shelf Name R1 F	Relay Name 1E HPR	Serial Number L908258	Condition Left N	
Relay Type (Drawing and/or Ca PN-150B (N322500-701 / 4)	atalog Number)	Resistance (Ohms)	Contacts 6FB	Date Tested
Shelf Name R1 F	Relay Name	Serial Number L906229	Condition Left	
Relay Type (Drawing and/or Ca PN-150B (N322500-701 / 4/	atalog Number)	Resistance (Ohms)	Contacts 6FB	Date Tested
Shelf Name R1 F	Relay Name	Serial Number L906174	Condition Left	
Relay Type (Drawing and/or Ca	atalog Number)	Resistance (Ohms)	Contacts 6FB	Date Tested
PN-150B (N322500-701 / 4) Shelf Name	Relay Name	400 Serial Number	Condition Left	
R1 F Relay Type (Drawing and/or Ca		L813336 Resistance (Ohms)	Contacts	Date Tested
PN-150BSR (N322503-701 Shelf Name	Relay Name	100 Serial Number	6F-6B Condition Left	
R1 F Relay Type (Drawing and/or Ca	2E HR atalog Number)	L906234 Resistance (Ohms)	Contacts	Date Tested
PN-150B (N322500-701 / 4/ Shelf Name	A1) Relay Name	400 Serial Number	6FB Condition Left	
R1 F	2E HPR	L906204 Resistance (Ohms)	N	Date Tested
Relay Type (Drawing and/or Ca PN-150B (N322500-701 / 4/	A1)	400 ` ′	Contacts 6FB	Date Tested
Shelf Name R1 F	Relay Name 2E DR	Serial Number L902494	Condition Left N	
Relay Type (Drawing and/or Ca PN-150B (N322500-701 / 4/		Resistance (Ohms) 400	Contacts 6FB	Date Tested
Shelf Name R1 F	Relay Name 2E FYR	Serial Number L906177	Condition Left N	
Relay Type (Drawing and/or Ca PN-150B (N322500-701 / 4/		Resistance (Ohms) 400	Contacts 6FB	Date Tested
Shelf Name R1 F	Relay Name 2E PCR	Serial Number L833352	Condition Left N	
Relay Type (Drawing and/or Ca PN-150BSR (N322503-701		Resistance (Ohms)	Contacts 6F-6B	Date Tested
Shelf Name R1 E	Relay Name 1W HR	Serial Number L890991	Condition Left N	
Relay Type (Drawing and/or Ca PN-150B (N322500-701 / 4/		Resistance (Ohms) 400	Contacts 6FB	Date Tested
Shelf Name R1 E	Relay Name 1W HPR	Serial Number L906129	Condition Left N	
Relay Type (Drawing and/or Ca PN-150B (N322500-701 / 4/		Resistance (Ohms) 400	Contacts 6FB	Date Tested
Shelf Name R1 E	Relay Name	Serial Number L908278	Condition Left N	
Relay Type (Drawing and/or Ca PN-150B (N322500-701 / 4/	atalog Number)	Resistance (Ohms) 400	Contacts 6FB	Date Tested
Shelf Name R1 E	Relay Name	Serial Number L906231	Condition Left	
Relay Type (Drawing and/or Ca PN-150B (N322500-701 / 4)	atalog Number)	Resistance (Ohms)	Contacts 6FB	Date Tested
Shelf Name R1 E	Relay Name 1W PCR	Serial Number L812766	Condition Left	
Relay Type (Drawing and/or Ca PN-150BSR (N322503-701	atalog Number)	Resistance (Ohms)	Contacts 6F-6B	Date Tested
Shelf Name	Relay Name	Serial Number	Condition Left	
R1 E Relay Type (Drawing and/or Ca		L906210 Resistance (Ohms)	Contacts	Date Tested
PN-150B (N322500-701 / 4/ Shelf Name	Relay Name	Serial Number	6FB Condition Left	
Relay Type (Drawing and/or Ca		L906215 Resistance (Ohms)	Contacts	Date Tested
PN-150B (N322500-701 / 4/ Shelf Name	Relay Name	400 Serial Number	6FB Condition Left	
R1 E Relay Type (Drawing and/or Ca	2W DR atalog Number)	L884100 Resistance (Ohms)	Contacts	Date Tested
PN-150B (N322500-701 / 4/ Shelf Name		400 Serial Number	6FB Condition Left	
R1 E Relay Type (Drawing and/or Ca	2W FYR	L891470 Resistance (Ohms)	N	Date Tested
PN-150B (N322500-701 / 4)		400	6FB	Date rested

Shalf Name		Tests (FRA 234.263, 236.106)	Condition 1 / 0	
Shelf Name R1 E	Relay Name 2W PCR	Serial Number L818103	Condition Left N	
Relay Type (Drawing and/or PN-150BSR (N322503-70		Resistance (Ohms)	Contacts 6F-6B	Date Tested
Shelf Name R1 D	Relay Name 1EA HGR	Serial Number L884054	Condition Left	
Relay Type (Drawing and/or PN-150B (N322500-701 /	Catalog Number)	Resistance (Ohms)	Contacts 6FB	Date Tested
Shelf Name R1 D	Relay Name 1EA LOR	Serial Number	Condition Left N	
Relay Type (Drawing and/or PN-150BL (322510-003)	_	Resistance (Ohms)	Contacts 3FB	Date Teste
Shelf Name R1 D	Relay Name 1EB HGR	Serial Number L906248	Condition Left	
Relay Type (Drawing and/or PN-150B (N322500-701 /	Catalog Number)	Resistance (Ohms)	Contacts 6FB	Date Teste
Shelf Name R1 D	Relay Name 1EB LOR	Serial Number L902015	Condition Left	
Relay Type (Drawing and/or		Resistance (Ohms)	Contacts	Date Teste
PN-150BL (322510-003) Shelf Name	Relay Name	175 Serial Number	3FB Condition Left	
R1 D Relay Type (Drawing and/or		L906140 Resistance (Ohms)	Contacts	Date Teste
PN-150B (N322500-701 / Shelf Name	Relay Name	400 Serial Number	6FB Condition Left	
Relay Type (Drawing and/or	2EA LOR Catalog Number)	L900905 Resistance (Ohms)	N Contacts	Date Teste
PN-150BL (322510-003) Shelf Name	Relay Name	175 Serial Number	3FB Condition Left	
Relay Type (Drawing and/or	2EB HGR Catalog Number)	L906162 Resistance (Ohms)	N Contacts	Date Teste
PN-150B (N322500-701 / Shelf Name		400 Serial Number	6FB Condition Left	
R1 D	2EB LOR	L902018	N	Data Tasta
Relay Type (Drawing and/or PN-150BL (322510-003)		Resistance (Ohms)	Contacts 3FB	Date Teste
Shelf Name R1 C	Relay Name 1WA HGR	Serial Number L906086	Condition Left N	
Relay Type (Drawing and/or PN-150B (N322500-701 /		Resistance (Ohms) 400	Contacts 6FB	Date Teste
Shelf Name R1 C	Relay Name 1WA LOR	Serial Number L902046	Condition Left N	
Relay Type (Drawing and/or PN-150BL (322510-003)	Catalog Number)	Resistance (Ohms) 175	Contacts 3FB	Date Teste
helf Name R1 C	Relay Name 1WB HGR	Serial Number L906209	Condition Left N	
Relay Type (Drawing and/or PN-150B (N322500-701 /		Resistance (Ohms) 400	Contacts 6FB	Date Teste
Shelf Name	Relay Name	Serial Number L827410	Condition Left	
Relay Type (Drawing and/or PN-150BL (322510-003)	Catalog Number)	Resistance (Ohms)	Contacts 3FB	Date Teste
Shelf Name R1 C	Relay Name 2WA HGR	Serial Number L908267	Condition Left N	
Relay Type (Drawing and/or PN-150B (N322500-701 /	Catalog Number)	Resistance (Ohms)	Contacts 6FB	Date Teste
Shelf Name R1 C	Relay Name 2WA LOR	Serial Number L900929	Condition Left	
Relay Type (Drawing and/or		Resistance (Ohms)	Contacts 3FB	Date Teste
PN-150BL (322510-003) Shelf Name	Relay Name	Serial Number	Condition Left	
Relay Type (Drawing and/or		L802431 Resistance (Ohms)	Contacts	Date Teste
PN-150B (N322500-701 / Shelf Name	Relay Name	Serial Number	6FB Condition Left	
Relay Type (Drawing and/or	2WB LOR Catalog Number)	L900908 Resistance (Ohms)	Contacts	Date Teste
PN-150BL (322510-003) Shelf Name	Relay Name	175 Serial Number	3FB Condition Left	
R1 B	2 EÓR	B5093057	N	

Relay Tests (FRA 234.263, 236.106)								
Shelf Name R1 B	Relay Name 2E YYR	Serial Number L799037	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7					
Relay Type (Drawing and/or Cat PN-150B (N322500-701 / 4A		Resistance (Ohms) 400	Contacts 6FB	Date Tested				
Shelf Name R1 B	Relay Name 1 EOR	Serial Number B0695039	Condition Left N					
Relay Type (Drawing and/or Cat PN-150F (N322530-701)	alog Number)	Resistance (Ohms) 60	Contacts 6FB	Date Tested				
Shelf Name R1 B	Relay Name 2EA LOPR	Serial Number L688882	Condition Left N					
Relay Type (Drawing and/or Cat PN-150B (N322500-701 / 4A		Resistance (Ohms) 400	Contacts 6FB	Date Tested				



Division: POWDER RIVER BACDF5J Asset ID:

Subdivision: BLACK HILLS Test Date: 08/24/2010

Milepost (with Line Segment): 4 478.84 - 478.84 State: SD

Location / Highway Name: double X over

County: FALL RIVER

Employee's Name: Bryant Quick (bquick) PARS Number: SSCX0131-2

Conditions Master Key

= Test completed, no exceptions found, and condition left in compliance.
= Adjustments made (identified in associated comments), test completed, and condition left in compliance.
= Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.
= Baseline data matches that recorded during the most recent Baseline test, so full test not required.

Governed by Special Instruction

 NT = The equipment was not tested in this inspection. N = Test Not Applicable.

NI = No Inspection Required.

CO = Compliant
NC = Not compliant

P = Pass F = Fail

NOTE: Entry of results of tests indicates for approach locking that all track sections in approach are effective, and for time locking each time locking circuit is effective.

Locking Tests							
Route Nomenclature	Date Tested	Mechanical (FRA 236.376)	Approach (FRA 236.377)	Time (FRA 236.378)	Route (FRA 236.379)	Indication (FRA 236.380)	Traffic (FRA 236.381)
1EA(sig)-1A.N(sw)-2A.N(sw)-1WA(sig)	08/24/2010	N	N	С	С	С	С
1EB(sig)-1A.R(sw)-1B.R(sw)-2B.N(sw)-2WB(sig)	08/24/2010	N	N	С	С	С	С
1WA(sig)-2A.N(sw)-1A.N(sw)-1EA(sig)	08/24/2010	N	N	С	С	С	С
1WB(sig)-2A.R(sw)-2B.R(sw)-1B.N(sw)-2EB(sig)	08/24/2010	N	N	С	С	С	С
2EA(sig)-1B.N(sw)-2B.N(sw)-2WA(sig)	08/24/2010	N	N	С	С	С	С
2EB(sig)-1B.N(sw)-2B.R(sw)-2A.R(sw)-1WB(sig)	08/24/2010	N	N	С	С	С	С
2WA(sig)-2B.N(sw)-1B.N(sw)-2EA(sig)	08/24/2010	N	N	С	С	С	С
2WB(sig)-2B.N(sw)-1B.R(sw)-1A.R(sw)-1EB(sig)	08/24/2010	N	N	С	С	С	С

Report ID: 02210893 Report Form Type: 2y Locking



Division: POWDER RIVER BACDF5J Asset ID: Subdivision: BLACK HILLS Test Date: 08/23/2012

Milepost (with Line Segment): 4 478.84 - 478.84 State: SD

Location / Highway Name: double X over

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

Conditions Master Key

= Test completed, no exceptions found, and condition left in compliance.
= Adjustments made (identified in associated comments), test completed, and condition left in compliance.
= Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.
= Baseline data matches that recorded during the most recent Baseline test, so full test not required.

Governed by Special Instruction

 NT = The equipment was not tested in this inspection. N = Test Not Applicable.

NI = No Inspection Required.

CO = Compliant
NC = Not compliant

P = Pass F = Fail

NOTE: Entry of results of tests indicates for approach locking that all track sections in approach are effective, and for time locking each time locking circuit is effective.

Locking Tests							
Route Nomenclature	Date Tested	Mechanical (FRA 236.376)	Approach (FRA 236.377)	Time (FRA 236.378)	Route (FRA 236.379)	Indication (FRA 236.380)	Traffic (FRA 236.381)
1EA(sig)-1A.N(sw)-2A.N(sw)-1WA(sig)	08/23/2012	N	N	С	С	С	N
1EB(sig)-1A.R(sw)-1B.R(sw)-2B.N(sw)-2WB(sig)	08/23/2012	N	N	С	С	С	N
1WA(sig)-2A.N(sw)-1A.N(sw)-1EA(sig)	08/23/2012	N	N	С	С	С	N
1WB(sig)-2A.R(sw)-2B.R(sw)-1B.N(sw)-2EB(sig)	08/23/2012	N	N	С	С	С	N
2EA(sig)-1B.N(sw)-2B.N(sw)-2WA(sig)	08/23/2012	N	N	С	С	С	N
2EB(sig)-1B.N(sw)-2B.R(sw)-2A.R(sw)-1WB(sig)	08/23/2012	N	N	С	С	С	N
2WA(sig)-2B.N(sw)-1B.N(sw)-2EA(sig)	08/23/2012	N	N	С	С	С	N
2WB(sig)-2B.N(sw)-1B.R(sw)-1A.R(sw)-1EB(sig)	08/23/2012	N	N	С	С	С	N

Report ID: 02981915 Report Form Type: 2y Locking



Division: POWDER RIVER BACDF5J Asset ID: Subdivision: BLACK HILLS Test Date: 08/23/2012

Milepost (with Line Segment): 4 478.84 - 478.84 State: SD

Location / Highway Name: double X over

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

Conditions Master Key

= Test completed, no exceptions found, and condition left in compliance.
= Adjustments made (identified in associated comments), test completed, and condition left in compliance.
= Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.
= Baseline data matches that recorded during the most recent Baseline test, so full test not required.

Governed by Special Instruction

 NT = The equipment was not tested in this inspection. N = Test Not Applicable.

NI = No Inspection Required.

CO = Compliant
NC = Not compliant

P = Pass F = Fail

NOTE: Entry of results of tests indicates for approach locking that all track sections in approach are effective, and for time locking each time locking circuit is effective.

Locking Tests							
Route Nomenclature	Date Tested	Mechanical (FRA 236.376)	Approach (FRA 236.377)	Time (FRA 236.378)	Route (FRA 236.379)	Indication (FRA 236.380)	Traffic (FRA 236.381)
1EA(sig)-1A.N(sw)-2A.N(sw)-1WA(sig)	08/23/2012	N	N	С	С	С	N
1EB(sig)-1A.R(sw)-1B.R(sw)-2B.N(sw)-2WB(sig)	08/23/2012	N	N	С	С	С	N
1WA(sig)-2A.N(sw)-1A.N(sw)-1EA(sig)	08/23/2012	N	N	С	С	С	N
1WB(sig)-2A.R(sw)-2B.R(sw)-1B.N(sw)-2EB(sig)	08/23/2012	N	N	С	С	С	N
2EA(sig)-1B.N(sw)-2B.N(sw)-2WA(sig)	08/23/2012	N	N	С	С	С	N
2EB(sig)-1B.N(sw)-2B.R(sw)-2A.R(sw)-1WB(sig)	08/23/2012	N	N	С	С	С	N
2WA(sig)-2B.N(sw)-1B.N(sw)-2EA(sig)	08/23/2012	N	N	С	С	С	N
2WB(sig)-2B.N(sw)-1B.R(sw)-1A.R(sw)-1EB(sig)	08/23/2012	N	N	С	С	С	N

Report ID: 02982729 Report Form Type: 2y (BL) Locking



Division: POWDER RIVER BACDF5J Asset ID: Subdivision: BLACK HILLS **Test Date:** 07/20/2016

Milepost (with Line Segment): 4 478.84 - 478.84 State: SD

Location / Highway Name: double X over

County: FALL RIVER

Employee's Name: David Thieme (dthieme) PARS Number: SINS0222

Conditions Master Key

= Test completed, no exceptions found, and condition left in compliance.
= Adjustments made (identified in associated comments), test completed, and condition left in compliance.
= Repairs and/or Replacements made (identified in associated comments), test completed, and condition left in compliance.
= Baseline data matches that recorded during the most recent Baseline test, so full test not required.

Governed by Special Instruction

 NT = The equipment was not tested in this inspection. N = Test Not Applicable.

NI = No Inspection Required.

CO = Compliant
NC = Not compliant

P = Pass F = Fail

NOTE: Entry of results of tests indicates for approach locking that all track sections in approach are effective, and for time locking each time locking circuit is effective.

Locking Tests											
Route Nomenclature	Date Tested	Mechanical (FRA 236.376)	Approach (FRA 236.377)	Time (FRA 236.378)	Route (FRA 236.379)	Indication (FRA 236.380)	Traffic (FRA 236.381)				
Baseline Data Condition Left:	В										
Did you verify input/output circuits to/from the p	processor uni	t? Yes									
Did you verify configuration settings checksum and cre	are set per t	he prii	nt? Ye	es							
1EA-1A.N-2A.N-1WA		NI	NI	NI	NI	NI	NI				
1EB-1A.R-1B.R-2B.N-2WB		NI	NI	NI	NI	NI	NI				
1WA-2A.N-1A.N-1EA		NI	NI	NI	NI	NI	NI				
1WB-2A.R-2B.R-1B.N-2EB		NI	NI	NI	NI	NI	NI				
2EA-1B.N-2B.N-2WA		NI	NI	NI	NI	NI	NI				
2EB-1B.N-2B.R-2A.R-1WB		NI	NI	NI	NI	NI	NI				
2WA-2B.N-1B.N-2EA		NI	NI	NI	NI	NI	NI				
2WB-2B.N-1B.R-1A.R-1EB		NI	NI	NI	NI	NI	NI				

Report ID: 04521046 Report Form Type: 4y (ALT) Locking



Inspection Report - Insulation Tests & Inspections

Division: POWDER RIVER Asset ID: BACDF5J

Subdivision: BLACK HILLS **Test Date:** 08/11/2010

Milepost (with Line Segment): 4 478.84 - 478.84 State: SD

Location / Highway Name: double X over

County: FALL RIVER

Employee's Name: Woody Smith (wosmith) PARS Number: SSCX0213-5

Conditions Master Key

C = Test completed, condition left in compliance. Indicates that all wires in trunking and cable measured 500K Ohms and above.

A = Annual test required; insulation resistance between 500K and 200K Ohms. Prompt action shall be taken to remedy condition.

R = Repairs and/or Replacements made (identifed in associated comments), test completed, and condition left in compliance.

NT = The equipment was not tested in this inspection of a different conductor.

= No inspection required. This is an annual re-inspection of a different conductor.

	Insulation Tests (FRA 234.267, 236.108)									
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.					
Underground	5	6	HOUSE	SIG. 1EB	C					
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.					
Underground	5	6	HOUSE	SIG. 1WA	C					
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.					
Underground	5	6	HOUSE	SIG. 1WB	C					
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.					
Underground	5	6	HOUSE	SIG. 2EA	C					
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.					
Underground	5	6	HOUSE	SIG. 2EB	C					
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.					
Underground	5	6	HOUSE	SIG. 2WA	С					
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.					
Underground	5	6	HOUSE	SIG. 2WB	С					
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.					
Underground	5	6	HOUSE	SIG.1EA	С					
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.					
Underground	12	14	HOUSE	SWITCH 1A	С					
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.					
Underground	3	9	HOUSE	SWITCH 1A	С					
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.					
Underground	3	6	HOUSE	SWITCH 1A	С					
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.					
Underground	3	6	HOUSE	SWITCH 1A	С					
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.					
Underground	12	14	HOUSE	SWITCH 1B	С					
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.					
Underground	3	9	HOUSE	SWITCH 1B	С					
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.					
Underground	3	6	HOUSE	SWITCH 1B	С					
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.					
Underground	3	6	HOUSE	SWITCH 1B	С					
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.					
Underground	12	14	HOUSE	SWITCH 2A	С					
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.					
Underground	3	9	HOUSE	SWITCH 2A	C					
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.					
Underground	3	6	HOUSE	SWITCH 2A	C					
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.					
Underground	3	6	HOUSE	SWITCH 2A	C					

Report ID: 02215976 Report Form Type: 10y Insulation

Insulation Tests (FRA 234.267, 236.108)									
Out to the second of the secon									
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Underground	12	14	HOUSE	SWITCH 2B	C				
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Underground	3	9	HOUSE	SWITCH 2B	С				
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Underground	3	6	HOUSE	SWITCH 2B	С				
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.				
Underground	3	6	HOUSE	SWITCH 2B	С				

Report ID: 02215976 Report Form Type: 10y Insulation



Division: POWDER RIVER Asset ID: BACDF5J

Subdivision: BLACK HILLS **Test Date:** 08/20/2010

Milepost (with Line Segment): 4 478.84 - 478.84 State: SD

Location / Highway Name: double X over

County: FALL RIVER

Employee's Name: Bryant Quick (bquick) PARS Number: SSCX0131-2

 $\begin{array}{ll} \underline{\textbf{Conditions Master Key}} \\ \textbf{C} & = \texttt{Test} \texttt{ completed, condition left in compliance.} \end{array}$

- R = Replacements made (identified in associated comments), test completed, and condition left in compliance.
 V = Visual inspection completed, condition left in compliance.
 NT = The equipment was not tested in this inspection.

- N = No inspection required. The given relay does not require inspection at this time.

		Relay Tests (FRA	A 234.263, 236.106))		
Shelf Name 1BF	Relay Name 1ATR		Serial Number 1008614		Condition Left	
Relay Type (Drawing and/or Catalog Nu ST (400510 / 400510)	mber)		Resistance (Ohms)		tacts 3-2F-1B	Date Tested 08/20/2010
Neutral Dropaway 0.0741 A DC		Neutral Pickup 0.1460 A DC			itral Working 460 A DC	
Shelf Name 1BF	Relay Name 1BTR		Serial Number 1008594		Condition Left	
Relay Type (Drawing and/or Catalog Nu ST (400510 / 400510)	mber)		Resistance (Ohms)		tacts 3-2F-1B	Date Tested 08/20/2010
Neutral Dropaway 0.0730 A DC		Neutral Pickup 0.1450 A DC			tral Working 450 A DC	
Shelf Name 1BF	Relay Name 1CTR		Serial Number 1008616		Condition Left	
Relay Type (Drawing and/or Catalog Nu ST (400510 / 400510)	mber)		Resistance (Ohms)		tacts 3-2F-1B	Date Tested 08/20/2010
Neutral Dropaway 0.0730 A DC		Neutral Pickup 0.1460 A DC	_		tral Working 160 A DC	
Shelf Name 1BF	Relay Name 1DTR		Serial Number 1008615		Condition Left	
Relay Type (Drawing and/or Catalog Nu ST (400510 / 400510)	mber)		Resistance (Ohms)		tacts 3-2F-1B	Date Tested 08/20/2010
Neutral Dropaway 0.0730 A DC		Neutral Pickup 0.1460 A DC			tral Working 460 A DC	
Shelf Name 1BF	Relay Name 2ATR		Serial Number 1008593		Condition Left	
Relay Type (Drawing and/or Catalog Nu ST (400510 / 400510)	mber)		Resistance (Ohms)		tacts 3-2F-1B	Date Tested 08/20/2010
Neutral Dropaway 0.0730 A DC		Neutral Pickup 0.1460 A DC			tral Working 460 A DC	
Shelf Name 1BF	Relay Name 2BTR		Serial Number 1008613		Condition Left	
Relay Type (Drawing and/or Catalog Nu ST (400510 / 400510)	mber)		Resistance (Ohms)		tacts 3-2F-1B	Date Tested 08/20/2010
Neutral Dropaway 0.0730 A DC		Neutral Pickup 0.1460 A DC			tral Working 460 A DC	
Shelf Name 1BF	Relay Name 2CTR		Serial Number 1008595		Condition Left	
Relay Type (Drawing and/or Catalog Nu ST (400510 / 400510)	mber)		Resistance (Ohms)		tacts 3-2F-1B	Date Tested 08/20/2010
Neutral Dropaway 0.0720 A DC		Neutral Pickup 0.1470 A DC			tral Working 470 A DC	
Shelf Name 1BF	Relay Name 2DTR		Serial Number 1008596		Condition Left	
Relay Type (Drawing and/or Catalog Nu ST (400510 / 400510)	mber)		Resistance (Ohms)		tacts 3-2F-1B	Date Tested 08/20/2010
Neutral Dropaway 0.0740 A DC		Neutral Pickup 0.1460 A DC			tral Working 460 A DC	
Shelf Name 1BF	Relay Name 1ANWR		Serial Number 1008264		Condition Left	
Relay Type (Drawing and/or Catalog Nu ST (400520 / 400520)	mber)		Resistance (Ohms) 500		tacts 2B EHD	Date Tested 08/20/2010
Neutral Dropaway 0.0076 A DC		Neutral Pickup 0.0189 A DC			tral Working 189 A DC	

		Relay Tests (F	RA 234.263, 236.106)			
Shelf Name 1BF	Relay Name 1ARWR		Serial Number 1007623		Condition Left	
Relay Type (Drawing and/or Catalog N ST (400520 / 400520)	umber)		Resistance (Ohms) 500		tacts 2B EHD	Date Tested 08/20/2010
Neutral Dropaway 0.0078 A DC		Neutral Pickup 0.0184 A DC		Neutral Working 0.0184 A DC		·
Shelf Name 1BF	Relay Name 1BNWR		Serial Number 1008197	·	Condition Left	
Relay Type (Drawing and/or Catalog N ST (400520 / 400520)	umber)		Resistance (Ohms) 500		tacts 2B EHD	Date Tested 08/20/2010
Neutral Dropaway 0.0075 A DC		Neutral Pickup 0.0188 A DC			tral Working 188 A DC	
Shelf Name 1BF	Relay Name 1BRWR		Serial Number 1008196		Condition Left	
Relay Type (Drawing and/or Catalog N ST (400520 / 400520)	umber)		Resistance (Ohms) 500		itacts 2B EHD	Date Tested 08/20/2010
Neutral Dropaway 0.0076 A DC		Neutral Pickup 0.0189 A DC			tral Working 189 A DC	
Shelf Name 1BF	Relay Name 2ANWR		Serial Number 1008206		Condition Left	
Relay Type (Drawing and/or Catalog N ST (400520 / 400520)	umber)		Resistance (Ohms) 500		tacts 2B EHD	Date Tested 08/20/2010
Neutral Dropaway 0.0076 A DC		Neutral Pickup 0.0190 A DC			tral Working 190 A DC	
Shelf Name 1BF	Relay Name 2ARWR		Serial Number 1008205		Condition Left	
Relay Type (Drawing and/or Catalog N ST (400520 / 400520)	Relay Type (Drawing and/or Catalog Number) ST (400520 / 400520)		Resistance (Ohms) 500		tacts 2B EHD	Date Tested 08/20/2010
Neutral Dropaway 0.0077 A DC		Neutral Pickup 0.0190 A DC			tral Working 190 A DC	
Shelf Name 1BF	Relay Name 2BNWR		Serial Number 1008204		Condition Left	
Relay Type (Drawing and/or Catalog N ST (400520 / 400520)	umber)		Resistance (Ohms) 500		tacts 2B EHD	Date Tested 08/20/2010
Neutral Dropaway 0.0076 A DC		Neutral Pickup 0.0189 A DC			tral Working 189 A DC	
Shelf Name 1BF	Relay Name 2BRWR		Serial Number 1008207		Condition Left	
Relay Type (Drawing and/or Catalog N ST (400520 / 400520)	umber)		Resistance (Ohms) 500		itacts 2B EHD	Date Tested 08/20/2010
Neutral Dropaway 0.0075 A DC		Neutral Pickup 0.0188 A DC			tral Working 188 A DC	
Shelf Name 1BF	Relay Name 5VSTOP		Serial Number 77271U029		Condition Left	
Relay Type (Drawing and/or Catalog N B1 (56001-822 GR.2 / A62-310)	umber)		Resistance (Ohms) 500		tacts 3-2F-1B	Date Tested 08/20/2010
Neutral Dropaway 0.0056 A DC		Neutral Pickup 0.0115 A DC			tral Working 115 A DC	
Shelf Name 1BF	Relay Name 6VSTOP		Serial Number 80863U045		Condition Left	
Relay Type (Drawing and/or Catalog N B1 (56001-822 GR.2 / A62-310)	umber)		Resistance (Ohms) 500		tacts 3-2F-1B	Date Tested 08/20/2010
Neutral Dropaway 0.0057 A DC		Neutral Pickup 0.0116 A DC			tral Working 116 A DC	



Division: POWDER RIVER Asset ID: BACDF5J **Test Date:** 08/11/2014 Subdivision: BLACK HILLS

Milepost (with Line Segment): 4 478.84 - 478.84 State: SD

Location / Highway Name: double X over

County: FALL RIVER

Employee's Name: Wayne Strozzi (wstrozzi) PARS Number: SINS0222

 $\begin{array}{ll} \underline{\textbf{Conditions Master Key}} \\ \textbf{C} & = \texttt{Test} \texttt{ completed, condition left in compliance.} \end{array}$

- R = Replacements made (identified in associated comments), test completed, and condition left in compliance.
 V = Visual inspection completed, condition left in compliance.
 NT = The equipment was not tested in this inspection.

- N = No inspection required. The given relay does not require inspection at this time.

		Relay Tests (FR/	A 234.263, 236.106))		
Shelf Name 1BF	Relay Name 1ATR		Serial Number 1008614		Condition Left	
Relay Type (Drawing and/or Catalog Nu ST (400510 / 400510)	mber)		Resistance (Ohms)		tacts 3-2F-1B	Date Tested 08/11/2014
Neutral Dropaway 0.0650 A DC		Neutral Pickup 0.1700 A DC			utral Working 700 A DC	
Shelf Name 1BF	Relay Name 1BTR		Serial Number 1008594		Condition Left	
Relay Type (Drawing and/or Catalog Nu ST (400510 / 400510)	mber)		Resistance (Ohms)		tacts 3-2F-1B	Date Tested 08/11/2014
Neutral Dropaway 0.0630 A DC		Neutral Pickup 0.1490 A DC			tral Working 490 A DC	
Shelf Name 1BF	Relay Name 1CTR		Serial Number 1008616		Condition Left	
Relay Type (Drawing and/or Catalog Nu ST (400510 / 400510)	mber)		Resistance (Ohms) 2		tacts 3-2F-1B	Date Tested 08/11/2014
Neutral Dropaway 0.0600 A DC		Neutral Pickup 0.1610 A DC			tral Working 610 A DC	
Shelf Name 1BF	Relay Name 1DTR		Serial Number 1008615		Condition Left	
Relay Type (Drawing and/or Catalog Nu ST (400510 / 400510)	mber)		Resistance (Ohms) 2		tacts 3-2F-1B	Date Tested 08/11/2014
Neutral Dropaway 0.0520 A DC		Neutral Pickup 0.1540 A DC			tral Working 540 A DC	
Shelf Name 1BF	Relay Name 2ATR		Serial Number 1008593		Condition Left	
Relay Type (Drawing and/or Catalog Nu ST (400510 / 400510)	mber)		Resistance (Ohms) 2		tacts 3-2F-1B	Date Tested 08/11/2014
Neutral Dropaway 0.0670 A DC		Neutral Pickup 0.1340 A DC			tral Working 340 A DC	
Shelf Name 1BF	Relay Name 2BTR		Serial Number 1008613		Condition Left	
Relay Type (Drawing and/or Catalog Nu ST (400510 / 400510)	mber)		Resistance (Ohms)		tacts 3-2F-1B	Date Tested 08/11/2014
Neutral Dropaway 0.0590 A DC		Neutral Pickup 0.1520 A DC			tral Working 520 A DC	
Shelf Name 1BF	Relay Name 2CTR		Serial Number 1008595		Condition Left	
Relay Type (Drawing and/or Catalog Nu ST (400510 / 400510)	mber)		Resistance (Ohms) 2		tacts 3-2F-1B	Date Tested 08/11/2014
Neutral Dropaway 0.0600 A DC		Neutral Pickup 0.1660 A DC			tral Working 660 A DC	
Shelf Name 1BF	Relay Name 2DTR		Serial Number 1008596		Condition Left	
Relay Type (Drawing and/or Catalog Nu ST (400510 / 400510)	mber)		Resistance (Ohms)		tacts 3-2F-1B	Date Tested 08/11/2014
Neutral Dropaway 0.0820 A DC		Neutral Pickup 0.1540 A DC			tral Working 540 A DC	
Shelf Name 1BF	Relay Name 1ANWR		Serial Number 1008264		Condition Left	
Relay Type (Drawing and/or Catalog Nu ST (400520 / 400520)	mber)		Resistance (Ohms) 500		tacts 2B EHD	Date Tested 08/11/2014
Neutral Dropaway 0.0070 A DC		Neutral Pickup 0.0180 A DC			tral Working 180 A DC	

Report ID: 03753226 Report Form Type: 4y Relay

		Relay Tests (F	RA 234.263, 236.106)				
Shelf Name 1BF	Relay Name 1ARWR		Serial Number 1007623		Condition Left		
Relay Type (Drawing and/or Catalog Nu ST (400520 / 400520)	ımber)		Resistance (Ohms) 500		tacts 2B EHD	Date Tested 08/11/2014	
Neutral Dropaway 0.0080 A DC		Neutral Pickup 0.0180 A DC			Neutral Working 0.0180 A DC		
Shelf Name 1BF	Relay Name 1BNWR		Serial Number 1008197	•	Condition Left		
Relay Type (Drawing and/or Catalog Nu ST (400520 / 400520)	umber)		Resistance (Ohms) 500		tacts 2B EHD	Date Tested 08/11/2014	
Neutral Dropaway 0.0080 A DC		Neutral Pickup 0.0170 A DC			Neutral Working 0.0170 A DC		
Shelf Name 1BF	Relay Name 1BRWR		Serial Number 1008196		Condition Left		
Relay Type (Drawing and/or Catalog Nu ST (400520 / 400520)	umber)		Resistance (Ohms) 500		itacts 2B EHD	Date Tested 08/11/2014	
Neutral Dropaway 0.0070 A DC		Neutral Pickup 0.0180 A DC			tral Working 180 A DC		
Shelf Name 1BF	Relay Name 2ANWR		Serial Number 1008206		Condition Left		
Relay Type (Drawing and/or Catalog Nu ST (400520 / 400520)	umber)		Resistance (Ohms) 500		tacts 2B EHD	Date Tested 08/11/2014	
Neutral Dropaway 0.0070 A DC		Neutral Pickup 0.0180 A DC			tral Working 180 A DC		
Shelf Name 1BF	Relay Name 2ARWR		Serial Number 1008205		Condition Left		
Relay Type (Drawing and/or Catalog Number) ST (400520 / 400520)			Resistance (Ohms) 500		tacts 2B EHD	Date Tested 08/11/2014	
Neutral Dropaway 0.0080 A DC		Neutral Pickup 0.0180 A DC			tral Working 180 A DC		
Shelf Name 1BF	Relay Name 2BNWR		Serial Number 1008204		Condition Left		
Relay Type (Drawing and/or Catalog Nu ST (400520 / 400520)	umber)		Resistance (Ohms) 500		tacts 2B EHD	Date Tested 08/11/2014	
Neutral Dropaway 0.0080 A DC		Neutral Pickup 0.0170 A DC			tral Working 170 A DC	·	
Shelf Name 1BF	Relay Name 2BRWR		Serial Number 1008207	•	Condition Left		
Relay Type (Drawing and/or Catalog Nu ST (400520 / 400520)	ımber)		Resistance (Ohms) 500		tacts 2B EHD	Date Tested 08/11/2014	
Neutral Dropaway 0.0070 A DC		Neutral Pickup 0.0170 A DC			tral Working 170 A DC	·	
Shelf Name 1BF	Relay Name 5VSTOP		Serial Number 77271U029		Condition Left		
Relay Type (Drawing and/or Catalog Nu B1 (56001-822 GR.2 / A62-310)	umber)		Resistance (Ohms) 500		tacts 3-2F-1B	Date Tested 08/11/2014	
Neutral Dropaway 0.0050 A DC		Neutral Pickup 0.0100 A DC			tral Working 100 A DC		
Shelf Name 1BF	Relay Name 6VSTOP		Serial Number 80863U045		Condition Left		
Relay Type (Drawing and/or Catalog Nu B1 (56001-822 GR.2 / A62-310)	umber)		Resistance (Ohms) 500		tacts 3-2F-1B	Date Tested 08/11/2014	
Neutral Dropaway 0.0060 A DC		Neutral Pickup 0.0110 A DC			tral Working 110 A DC		

Report ID: 03753226 Report Form Type: 4y Relay