DCA-11-FR-002 BNSF Coal Train – Work Train Collision Red Oak, IA April 17, 2011

# **ATTACHMENT 20**

4475-4535 Ground Tests



**Division: NEBRASKA** BAANX5D Asset ID:

11/30/2010 Subdivision: CRESTON Test Date:

**Location / Highway Name:** Mc Pherson

County: MONTGOMERY State: |A

Milepost (with Line Segment): 1 447.50 - 447.50

Employee's Name: Steve Fenn (sfenn) PARS Number: SMTR0729

**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.

Grounds Test (FRA 236.107)	
Bus Nomenclature	Condition Left
B12	С
B26	С

Report ID: 02310767 Page 1 of 95



**Division: NEBRASKA** BAANX5D Asset ID: Subdivision: CRESTON Test Date: 02/17/2011

**Location / Highway Name:** Mc Pherson

County: MONTGOMERY State: |A

Milepost (with Line Segment): 1 447.50 - 447.50

Employee's Name: Steve Fenn (sfenn) PARS Number: SMTR0729

### **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.

Grounds Test (FRA 236.107)	
Bus Nomenclature	Condition Left
B12	С
B26	С

Report ID: 02394396 Page 2 of 95



**Division: NEBRASKA Asset ID:** BAANX6K Subdivision: CRESTON **Test Date:** 11/16/2010

**Location / Highway Name: McPherson** 

County: MONTGOMERY State: |A

Milepost (with Line Segment): 1 447.50 - 447.50

**Employee's Name:** Steve Fenn (sfenn) PARS Number: SMTR0729

Switch Type: Power-operated

# Conditions Master Key C = Test completed

= 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.

- G = Governed by Special Instruction NT = The equipment was not tested in this inspection.
- N = Test Not Applicable.

Monthly Tests	
Test Description & Rule	Condition Left
Obstruct Lock Rod - NORMAL (FRA 236.382)	С
Obstruct Lock Rod - REVERSE (FRA 236.382)	С

Quarterly Tests	
Test Description & Rule	Condition Left
Circuit Controller Points - NORMAL (FRA 236.103)	С
Circuit Controller Points - REVERSE (FRA 236.103)	С
Shunt Fouling - Circuit Type: Fouling (FRA 236.104)	R
repaired broken bonding wire	
Timing (SI 4.2)	С

Report ID: 02297855 Page 3 of 95



**Division: NEBRASKA BAANX6K** Asset ID:

Subdivision: CRESTON 12/16/2010 Test Date:

**Location / Highway Name: McPherson** 

County: MONTGOMERY State: |A

Milepost (with Line Segment): 1 447.50 - 447.50

**Employee's Name:** Steve Fenn (sfenn) PARS Number: SMTR0729

Switch Type: Power-operated

 $\frac{\textbf{Conditions Master Key}}{\textbf{C} = \textbf{Test completed}, \text{ no exceptions found, and condition left in compliance.}}$ 

- 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.

- G = Governed by Special Instruction NT = The equipment was not tested in this inspection. N = Test Not Applicable.

Monthly Tests	
Test Description & Rule	Condition Left
Obstruct Lock Rod - NORMAL (FRA 236.382)	С
Obstruct Lock Rod - REVERSE (FRA 236.382)	С

Report ID: 02327268 Page 4 of 95



**Division: NEBRASKA Asset ID:** BAANX6K Subdivision: CRESTON **Test Date:** 01/14/2011

**Location / Highway Name: McPherson** 

County: MONTGOMERY State: |A

Milepost (with Line Segment): 1 447.50 - 447.50

**Employee's Name:** Steve Fenn (sfenn) PARS Number: SMTR0729

Switch Type: Power-operated

 $\frac{\textbf{Conditions Master Key}}{\textbf{C} = \textbf{Test completed}, \text{ no exceptions found, and condition left in compliance.}}$ 

- 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.

- G = Governed by Special Instruction NT = The equipment was not tested in this inspection. N = Test Not Applicable.

Monthly Tests	
Test Description & Rule	Condition Left
Obstruct Lock Rod - NORMAL (FRA 236.382)	С
Obstruct Lock Rod - REVERSE (FRA 236.382)	С

Report ID: 02357043 Page 5 of 95



**Division: NEBRASKA Asset ID:** BAANX6K Subdivision: CRESTON **Test Date:** 02/11/2011

**Location / Highway Name: McPherson** 

County: MONTGOMERY State: |A

Milepost (with Line Segment): 1 447.50 - 447.50

**Employee's Name:** Steve Fenn (sfenn) PARS Number: SMTR0729

Switch Type: Power-operated

# Conditions Master Key C = Test completed

= 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.

- G = Governed by Special Instruction NT = The equipment was not tested in this inspection.
- N = Test Not Applicable.

Monthly Tests	
Test Description & Rule	Condition Left
Obstruct Lock Rod - NORMAL (FRA 236.382)	С
Obstruct Lock Rod - REVERSE (FRA 236.382)	С

Quarterly Tests	
Test Description & Rule	Condition Left
Circuit Controller Points - NORMAL (FRA 236.103)	С
Circuit Controller Points - REVERSE (FRA 236.103)	С
Shunt Fouling - Circuit Type: Fouling (FRA 236.104)	С
Timing (SI 4.2)	С

Report ID: 02386759 Page 6 of 95



**Division: NEBRASKA BAANX6K** Asset ID:

Subdivision: CRESTON **Test Date:** 03/14/2011

**Location / Highway Name: McPherson** 

County: MONTGOMERY State: |A

Milepost (with Line Segment): 1 447.50 - 447.50

**Employee's Name:** Steve Fenn (sfenn) PARS Number: SMTR0729

Switch Type: Power-operated

 $\frac{\textbf{Conditions Master Key}}{\textbf{C} = \textbf{Test completed}, \text{ no exceptions found, and condition left in compliance.}}$ 

- 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.

- G = Governed by Special Instruction NT = The equipment was not tested in this inspection. N = Test Not Applicable.

Monthly Tests	
Test Description & Rule	Condition Left
Obstruct Lock Rod - NORMAL (FRA 236.382)	С
Obstruct Lock Rod - REVERSE (FRA 236.382)	С

Report ID: 02416812 Page 7 of 95



**Division: NEBRASKA BAANX6K** Asset ID:

Subdivision: CRESTON **Test Date:** 04/12/2011

**Location / Highway Name: McPherson** 

County: MONTGOMERY State: |A

Milepost (with Line Segment): 1 447.50 - 447.50

**Employee's Name:** Steve Fenn (sfenn) PARS Number: SMTR0729

Switch Type: Power-operated

 $\frac{\textbf{Conditions Master Key}}{\textbf{C} = \textbf{Test completed}, \text{ no exceptions found, and condition left in compliance.}}$ 

- 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.

- G = Governed by Special Instruction NT = The equipment was not tested in this inspection. N = Test Not Applicable.

Monthly Tests	
Test Description & Rule	Condition Left
Obstruct Lock Rod - NORMAL (FRA 236.382)	С
Obstruct Lock Rod - REVERSE (FRA 236.382)	С

Report ID: 02449005 Page 8 of 95



**Division: NEBRASKA** BAANY1G Asset ID: Subdivision: CRESTON **Test Date:** 02/11/2011

**Location / Highway Name:** McPherson M1 eastbound

County: MONTGOMERY IΑ State:

Milepost (with Line Segment): 1 447.50 - 447.50

Employee's Name: Steve Fenn (sfenn) PARS Number: SMTR0729

Conditions Master Key

C = Test completed, no exceptions found, and condition left in compliance.

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

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.

### Semiannual Tests (FRA 236.102)

**Mechanism Operation** 

С

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**Division: NEBRASKA BAANY2N** Asset ID: Subdivision: CRESTON Test Date: 02/11/2011

**Location / Highway Name:** McPherson westbound A head

County: MONTGOMERY State: |A

Milepost (with Line Segment): 1 447.50 - 447.50

Employee's Name: Steve Fenn (sfenn) PARS Number: SMTR0729

Conditions Master Key

C = Test completed, no exceptions found, and condition left in compliance.

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

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.

### Semiannual Tests (FRA 236.102)

**Mechanism Operation** 

С

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**Division: NEBRASKA** BAANY3V Asset ID: Subdivision: CRESTON **Test Date:** 02/11/2011

**Location / Highway Name:** McPherson M2 eastbound

County: MONTGOMERY IΑ State:

Milepost (with Line Segment): 1 447.50 - 447.50

Employee's Name: Steve Fenn (sfenn) PARS Number: SMTR0729

Conditions Master Key

C = Test completed, no exceptions found, and condition left in compliance.

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

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.

### Semiannual Tests (FRA 236.102)

**Mechanism Operation** 

С

Report ID: 02386757 Page 11 of 95



**Division: NEBRASKA BAANY4C** Asset ID: Subdivision: CRESTON Test Date: 02/11/2011

**Location / Highway Name:** McPherson westbound B head

County: MONTGOMERY State: |A

Milepost (with Line Segment): 1 447.50 - 447.50

Employee's Name: Steve Fenn (sfenn) PARS Number: SMTR0729

Conditions Master Key

C = Test completed, no exceptions found, and condition left in compliance.

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

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.

### Semiannual Tests (FRA 236.102)

**Mechanism Operation** 

С

Report ID: 02386758 Page 12 of 95



**Division: NEBRASKA BAAN2UH** Asset ID:

Subdivision: CRESTON Test Date: 11/12/2010

**Location / Highway Name: INTERMEDIATE 450 3** 

County: MONTGOMERY State: IΑ

Milepost (with Line Segment): 1 450.30 - 450.30

Employee's Name: Charles Moyers (cmoyers) PARS Number: SMTR0730

## Conditions Master Key C = Test completed.

= 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.

Grounds Test (FRA 236.107)	
Bus Nomenclature	Condition Left
B12	С

Report ID: 02294793 Page 13 of 95



**Division: NEBRASKA BAAN2UH** Asset ID:

Subdivision: CRESTON 12/09/2010 Test Date:

**Location / Highway Name: INTERMEDIATE 450 3** 

County: MONTGOMERY State: IΑ

Milepost (with Line Segment): 1 450.30 - 450.30

Employee's Name: Charles Moyers (cmoyers) PARS Number: SMTR0730

Conditions Master Key
C = Test completed.

= 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.

Grounds Test (FRA 236.107)	
Bus Nomenclature	Condition Left
B12	С

Report ID: 02319388 Page 14 of 95



**Division: NEBRASKA BAAN2UH** Asset ID:

Subdivision: CRESTON 12/14/2010 Test Date:

**Location / Highway Name: INTERMEDIATE 450 3** 

County: MONTGOMERY State: |A

Milepost (with Line Segment): 1 450.30 - 450.30

Employee's Name: Charles Moyers (cmoyers) PARS Number: SMTR0730

Conditions Master Key
C = Test completed.

= 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.

Grounds Test (FRA 236.107)	
Bus Nomenclature	Condition Left
B12	С

Report ID: 02325466 Page 15 of 95



**Division: NEBRASKA BAAN2UH** Asset ID: Subdivision: CRESTON Test Date: 01/10/2011

**Location / Highway Name: INTERMEDIATE 450 3** 

County: MONTGOMERY State: |A

Milepost (with Line Segment): 1 450.30 - 450.30

Employee's Name: Charles Moyers (cmoyers) PARS Number: SMTR0730

## Conditions Master Key C = Test completed.

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= 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.

Grounds Test (FRA 236.107)	
Bus Nomenclature	Condition Left
B12	С

Report ID: 02351203 Page 16 of 95



**Division: NEBRASKA BAAN2UH** Asset ID: Subdivision: CRESTON 02/07/2011 Test Date:

**Location / Highway Name: INTERMEDIATE 450 3** 

County: MONTGOMERY State: |A

Milepost (with Line Segment): 1 450.30 - 450.30

Employee's Name: Charles Moyers (cmoyers) PARS Number: SMTR0730

## Conditions Master Key C = Test completed.

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= 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.

Grounds Test (FRA 236.107)	
Bus Nomenclature	Condition Left
B12	С

Report ID: 02380390 Page 17 of 95



**Division: NEBRASKA BAAN2UH** Asset ID: Subdivision: CRESTON Test Date: 03/07/2011

**Location / Highway Name: INTERMEDIATE 450 3** 

County: MONTGOMERY State: |A

Milepost (with Line Segment): 1 450.30 - 450.30

Employee's Name: Charles Moyers (cmoyers) PARS Number: SMTR0730

## Conditions Master Key C = Test completed.

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= 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.

Grounds Test (FRA 236.107)	
Bus Nomenclature	Condition Left
B12	С

Report ID: 02409331 Page 18 of 95



**Division: NEBRASKA BAAN2UH** Asset ID: Subdivision: CRESTON Test Date: 04/04/2011

**Location / Highway Name: INTERMEDIATE 450 3** 

County: MONTGOMERY State: |A

Milepost (with Line Segment): 1 450.30 - 450.30

Employee's Name: Charles Moyers (cmoyers) PARS Number: SMTR0730

## Conditions Master Key C = Test completed.

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= 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.

Grounds Test (FRA 236.107)	
Bus Nomenclature	Condition Left
B12	С

Report ID: 02439690 Page 19 of 95



Division:NEBRASKAAsset ID:BAAN2UHSubdivision:CRESTONTest Date:11/12/2010

Location / Highway Name: INTERMEDIATE 450 3

County: MONTGOMERY State: IA

Milepost (with Line Segment): 1 450.30 - 450.30

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

Completed
Completed

Completed
Completed
Completed

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Division:NEBRASKAAsset ID:BAAN2UHSubdivision:CRESTONTest Date:12/09/2010

Location / Highway Name: INTERMEDIATE 450 3

County: MONTGOMERY State: IA

Milepost (with Line Segment): 1 450.30 - 450.30

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

Track 1	
Tested: 12/09/2010	
Dragging Equipment	
30d	
Inspect dragging equipment	Completed
Test operation of dragging equipment	Completed
Track 2	

Completed
Completed

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Division:NEBRASKAAsset ID:BAAN2UHSubdivision:CRESTONTest Date:12/14/2010

Location / Highway Name: INTERMEDIATE 450 3

County: MONTGOMERY State: IA

Milepost (with Line Segment): 1 450.30 - 450.30

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

Track 1	
Tested: 12/14/2010	
Dragging Equipment	
30d	
Inspect dragging equipment	Completed
Test operation of dragging equipment	Completed
Track 2	
Tested: 12/14/2010	

Track 2	
Tested: 12/14/2010	
Dragging Equipment	
30d	
Inspect dragging equipment	Completed
Test operation of dragging equipment	Completed

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Division:NEBRASKAAsset ID:BAAN2UHSubdivision:CRESTONTest Date:01/10/2011

Location / Highway Name: INTERMEDIATE 450 3

County: MONTGOMERY State: IA

Milepost (with Line Segment): 1 450.30 - 450.30

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

Track 1	
Tested: 01/10/2011	
Derailment Detector	
30d	
Open test clip in the enclosure and read the loop resistance	Completed
Resistance should be close to 100 Ohms.	Completed
If loop is shorted, repair short or replace	Completed
Close test clip and gate transducer 4 gates	Completed
Open test clip and gate transducer another 4 gates	Completed
Close test clip and gate another 4 gates	Completed
Let system time out and listen to radio message and verify message is correct	Completed
Troots 0	
Track 2	

Track 2	
Tested: 01/10/2011	
Derailment Detector	
30d	
Open test clip in the enclosure and read the loop resistance	Completed
Resistance should be close to 100 Ohms.	Completed
If loop is shorted, repair short or replace	Completed
Close test clip and gate transducer 4 gates	Completed
Open test clip and gate transducer another 4 gates	Completed
Close test clip and gate another 4 gates	Completed
Let system time out and listen to radio message and verify message is correct	Completed

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Division:NEBRASKAAsset ID:BAAN2UHSubdivision:CRESTONTest Date:01/21/2011

Location / Highway Name: INTERMEDIATE 450 3

County: MONTGOMERY State: IA

Milepost (with Line Segment): 1 450.30 - 450.30

**Employee's Name:** Eric Lapham (elapham) **PARS Number:** SETX0173

Track 1	
Tested: 01/21/2011	
Comments: cpu2 installed.	
'	
Derailment Detector	
30d	
Open test clip in the enclosure and read the loop resistance	Completed
Resistance should be close to 100 Ohms.	Completed
If loop is shorted, repair short or replace	Completed
Close test clip and gate transducer 4 gates	Completed
Open test clip and gate transducer another 4 gates	Completed
Close test clip and gate another 4 gates	Completed
Let system time out and listen to radio message and verify message is correct	Completed
Talker	
Talker Model	Harmon 2046
Software Version	1.7
	Yes
30d	
Inspect transducers	Completed
Verify time, date & setup	Completed
Verify alarms	Completed
Check recall	NA
90d	
Check transducer loading	NA
Verify alarm readout	Completed
Verify version of software	Completed
	•
Track 2	
Tested: 01/21/2011	
Derailment Detector	
30d	
Open test clip in the enclosure and read the loop resistance	Completed
Resistance should be close to 100 Ohms.	Completed
If loop is shorted, repair short or replace	Completed
Close test clip and gate transducer 4 gates	Completed
Open test clip and gate transducer another 4 gates	Completed
Close test clip and gate another 4 gates	Completed
Let system time out and listen to radio message and verify message is correct	Completed
Talker	

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Track 2, cont	
Talker Model	Harmon 2046
Software Version	1.7
	Yes
30d	
Inspect transducers	Completed
Verify time, date & setup	Completed
Verify alarms	Completed
Check recall	NA
90d	
Check transducer loading	NA
Verify alarm readout	Completed
Verify version of software	Completed

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Division:NEBRASKAAsset ID:BAAN2UHSubdivision:CRESTONTest Date:02/07/2011

Location / Highway Name: INTERMEDIATE 450 3

County: MONTGOMERY State: IA

**Milepost (with Line Segment):** 1 450.30 - 450.30

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

Track 1	
Tested: 02/07/2011	
Derailment Detector	
30d	
Open test clip in the enclosure and read the loop resistance	Completed
Resistance should be close to 100 Ohms.	Completed
If loop is shorted, repair short or replace	Completed
Close test clip and gate transducer 4 gates	Completed
Open test clip and gate transducer another 4 gates	Completed
Close test clip and gate another 4 gates	Completed
Let system time out and listen to radio message and verify message is correct	Completed
	, , , , , , , , , , , , , , , , , , , ,
Talker	
Talker Model	Harmon 2046
	Yes
30d	
Inspect transducers	Completed
Verify time, date & setup	Completed
Verify alarms	Completed
Check recall	Completed
Track 2	
Tested: 02/07/2011	
Derailment Detector	
30d	
Open test clip in the enclosure and read the loop resistance	Completed
Resistance should be close to 100 Ohms.	Completed
If loop is shorted, repair short or replace	Completed
Close test clip and gate transducer 4 gates	Completed
Open test clip and gate transducer another 4 gates	Completed
Close test clip and gate another 4 gates	Completed
Let system time out and listen to radio message and verify message is correct	Completed
Talker	
Talker Model	Harmon 2046
	Yes
30d	
Inspect transducers	Completed

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Track 2, cont	
Verify time, date & setup	Completed
Verify alarms	Completed
Check recall	Completed

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Division:NEBRASKAAsset ID:BAAN2UHSubdivision:CRESTONTest Date:02/07/2011

**Location / Highway Name:** INTERMEDIATE 450 3

County: MONTGOMERY State: IA

Milepost (with Line Segment): 1 450.30 - 450.30

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

erailment Detector  30d  Den test clip in the enclosure and read the loop resistance esistance should be close to 100 Ohms.  oop is shorted, repair short or replace	Completed Completed Completed Completed
ben test clip in the enclosure and read the loop resistance esistance should be close to 100 Ohms.	Completed Completed
ben test clip in the enclosure and read the loop resistance esistance should be close to 100 Ohms.	Completed Completed
pen test clip in the enclosure and read the loop resistance esistance should be close to 100 Ohms.	Completed Completed
esistance should be close to 100 Ohms.	Completed Completed
	Completed
oon is shorted, renair short or replace	
sop is shorted, repair short or replace	Completed
ose test clip and gate transducer 4 gates	
pen test clip and gate transducer another 4 gates	Completed
ose test clip and gate another 4 gates	Completed
t system time out and listen to radio message and verify message is correct	Completed
Iker	
Iker Model	Harmon 2046
	No
30d	
spect transducers	Completed
erify time, date & setup	Completed
erify alarms	Completed
neck recall	Completed
90d	
neck transducer loading	Completed
erify alarm readout	Completed
erify version of software	Completed
Track 2	
sted: 02/11/2011	
Sied. 02/11/2011	
erailment Detector	
30d	
pen test clip in the enclosure and read the loop resistance	Completed
esistance should be close to 100 Ohms.	Completed
oop is shorted, repair short or replace	Completed
ose test clip and gate transducer 4 gates	Completed
pen test clip and gate transducer another 4 gates	Completed
ose test clip and gate another 4 gates	Completed
t system time out and listen to radio message and verify message is correct	Completed
toyotom amo out and noton to radio mossage and verify message to correct	Completed
Iker	

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Track 2, cont	
Talker Model	Harmon 2046
	Yes
30d	
Inspect transducers	Completed
Verify time, date & setup	Completed
Verify alarms	Completed
Check recall	Completed
90d	
Check transducer loading	Completed
Verify alarm readout	Completed
Verify version of software	Completed

Page 29 of 95 Report ID: 02384778



Division:NEBRASKAAsset ID:BAAN2UHSubdivision:CRESTONTest Date:03/07/2011

Location / Highway Name: INTERMEDIATE 450 3

County: MONTGOMERY State: IA

Milepost (with Line Segment): 1 450.30 - 450.30

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

Track 1	
Tested: 03/07/2011	
Derailment Detector	
30d	
Open test clip in the enclosure and read the loop resistance	Completed
Resistance should be close to 100 Ohms.	Completed
If loop is shorted, repair short or replace	Completed
Close test clip and gate transducer 4 gates	Completed
Open test clip and gate transducer another 4 gates	Completed
Close test clip and gate another 4 gates	Completed
Let system time out and listen to radio message and verify message is correct	Completed
Talker	
Talker Model	Harmon 2046
	Yes
30d	
Inspect transducers	Completed
Verify time, date & setup	Completed
Verify alarms	Completed
Check recall	Completed
Track 2	
Tested: 03/07/2011	
Derailment Detector	
30d	
Open test clip in the enclosure and read the loop resistance	Completed
Resistance should be close to 100 Ohms.	Completed
If loop is shorted, repair short or replace	Completed
Close test clip and gate transducer 4 gates	Completed
Open test clip and gate transducer another 4 gates	Completed
Close test clip and gate another 4 gates	Completed
Let system time out and listen to radio message and verify message is correct	Completed
Talker	
Talker Model	Harmon 2046
	Yes
30d	
Inspect transducers	Completed

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Track 2, cont	
Verify time, date & setup	Completed
Verify alarms	Completed
Check recall	Completed

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Division:NEBRASKAAsset ID:BAAN2UHSubdivision:CRESTONTest Date:04/04/2011

Location / Highway Name: INTERMEDIATE 450 3

County: MONTGOMERY State: IA

Milepost (with Line Segment): 1 450.30 - 450.30

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

Track 1	
Tested: 04/04/2011	
Derailment Detector	
30d	
Open test clip in the enclosure and read the loop resistance	Completed
Resistance should be close to 100 Ohms.	Completed
If loop is shorted, repair short or replace	Completed
Close test clip and gate transducer 4 gates	Completed
Open test clip and gate transducer 4 gates  Open test clip and gate transducer another 4 gates	Completed
	Completed
Close test clip and gate another 4 gates	•
Let system time out and listen to radio message and verify message is correct	Completed
Talker	
Talker Model	Harmon 2046
	Yes
30d	
Inspect transducers	Completed
Verify time, date & setup	Completed
Verify alarms	Completed
Check recall	Completed
Track 2	
Tested: 04/04/2011	
Derailment Detector	
30d	
Open test clip in the enclosure and read the loop resistance	Completed
Resistance should be close to 100 Ohms.	Completed
If loop is shorted, repair short or replace	Completed
Close test clip and gate transducer 4 gates	Completed
Open test clip and gate transducer another 4 gates	Completed
Close test clip and gate another 4 gates	Completed
Let system time out and listen to radio message and verify message is correct	Completed
Talker	
Talker Model	Harmon 2046
	Yes
30d	
Inspect transducers	Completed

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Track 2, cont	
Verify time, date & setup	Completed
Verify alarms	Completed
Check recall	Completed

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Division: NEBRASKA Asset ID: BAAN2VP

Subdivision: CRESTON Test Date: 12/15/2010 Location / Highway Name: EAST SW EMERSON HT M2 SWCC

County: MILLS State: IA

**Milepost (with Line Segment):** 1 451.70 - 451.70

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Switch Type:** Hand-operated with Electric Lock

Monthly Tests	
Test Description & Rule	Condition Left

Quarterly Tests		
Test Description & Rule	Condition Left	
Circuit Controller Points - NORMAL (FRA 236.103)	С	
Circuit Controller Points - REVERSE (FRA 236.103)	N	
Shunt Fouling - Circuit Type: Fouling (FRA 236.104)	С	
Electric Lock, Main Track Releasing Circuit (TP-16A)	С	

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Division:NEBRASKAAsset ID:BAAN2VPSubdivision:CRESTONTest Date:03/07/2011

Location / Highway Name: EAST SW EMERSON HT M2 SWCC

County: MILLS State: IA

**Milepost (with Line Segment):** 1 451.70 - 451.70

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Switch Type:** Hand-operated with Electric Lock

Monthly Tests	
Test Description & Rule	Condition Left

Quarterly Tests		
Test Description & Rule	Condition Left	
Circuit Controller Points - NORMAL (FRA 236.103)	С	
Circuit Controller Points - REVERSE (FRA 236.103)	N	
Shunt Fouling - Circuit Type: Fouling (FRA 236.104)	С	
Electric Lock, Main Track Releasing Circuit (TP-16A)	С	

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# **Inspection Report - Grounds Tests & Inspections**

**Division:** NEBRASKA **Asset ID:** BAAN2WW

Subdivision: CRESTON Test Date: 12/15/2010

Location / Highway Name: EAST EMERSON HT SWCC M2

County: MILLS State: IA

**Milepost (with Line Segment):** 1 451.70 - 451.70

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

Grounds Test (FRA 236.107)					
Bus Nomenclature	Condition Left				
B10	С				

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# **Inspection Report - Grounds Tests & Inspections**

**Division**: NEBRASKA **Asset ID**: BAAN2WW

Subdivision: CRESTON Test Date: 03/07/2011

**Location / Highway Name:** EAST EMERSON HT SWCC M2

County: MILLS State: IA

Milepost (with Line Segment): 1 451.70 - 451.70

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

Grounds Test (FRA 236.107)	
Bus Nomenclature	Condition Left
B10	С

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# **Inspection Report - Timing Tests & Inspections**

**Division:** NEBRASKA **Asset ID:** BAAN2WW

Subdivision: CRESTON Test Date: 03/07/2011

Location / Highway Name: EAST EMERSON HT SWCC M2

County: MILLS State: IA

**Milepost (with Line Segment):** 1 451.70 - 451.70

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

Time Releases, Timing Relays, and Timing Devices (FRA 236.109)						
Timer	Design Time	Measured Time	Condition Left			
TER	0.00:80:00	0.00:80:00	С			

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Division:NEBRASKAAsset ID:095256RSubdivision:CRESTONTest Date:11/04/2010

Location / Highway Name: HARRIS ST

County: MILLS State: IA

Milepost (with Line Segment): 1 451.95 - 451.95

Employee's Name: Larry Cassity (Icassity) PARS Number: SINS0199

**Equipment Present:** Flashers/Bell/Gates

NOTE: For Stand By Power (FRA 234.251), an indication of "C" denotes that all battery buses, as listed under Grounds (FRA 234.249), were tested. If any battery bus fails the Stand By Power test, that bus will be named in the notes associated with the Stand By Power test.

	Condition	Grounds (FF	RA 234.249) Monthly
Flashing Light Units (FRA 234.253) Monthly	С	Bus Nomenclature	Condition
Gate Arms & Mechanism (FRA 234.255 a & b) Monthly	C	MB12	С
Warning System Operation (FRA 234.257 a & b) Monthly		XB14	С
Crossbuck & Signs (TP-234) Monthly	С	Ctond D. Dower (FDA	004 051) Monthly
M/S./C.W.T. Equip (TP-234) Monthly	NT	Stand By Power (FRA	234.251) Monthly C
Fuses/Arrestors (TP-234) Monthly	С	· ·	on (FRA 234.261) Monthly
		Device Nomenclature	e Condition
			N

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Division:NEBRASKAAsset ID:095256RSubdivision:CRESTONTest Date:11/04/2010

Location / Highway Name: HARRIS ST

County: MILLS State: IA

Milepost (with Line Segment): 1 451.95 - 451.95

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Equipment Present:** Flashers/Bell/Gates

NOTE: For Stand By Power (FRA 234.251), an indication of "C" denotes that all battery buses, as listed under Grounds (FRA 234.249), were tested. If any battery bus fails the Stand By Power test, that bus will be named in the notes associated with the Stand By Power test.

Flashing Light Units (FRA 234.253) Monthly  C Bus Nomenclature Condition	
Gate Arms & Mechanism (FRA 234.255 a & b) Monthly C MB12 C	
Warning System Operation (FRA 234.257 a & b) Monthly C XB14 C	
Crossbuck & Signs (TP-234) Monthly  Stand By Power (FRA 234.251) Monthly	
M/S./C.W.T. Equip (TP-234) Monthly	<u></u>
Fuses/Arrestors (TP-234) Monthly  Traffic Pre-Emption (FRA 234.261) Monthly	/
Device Nomenclature Condition	
N	
Insul. Jts., Bonds, & Trk. Conn. (FRA 234.271) Quarterly Cut-Out Circuits (FRA 234.269) Quarterly	
Stick Release Circuits (TP-234) Quarterly  Circuit Nomenclature Condition	
Recorders (TP-234) Quarterly	

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Division: NEBRASKA Asset ID: 095256R
Subdivision: CRESTON Test Date: 11/17/2010

Location / Highway Name: HARRIS ST

County: MILLS State: IA

Milepost (with Line Segment): 1 451.95 - 451.95

Employee's Name: Larry Cassity (Icassity) PARS Number: SINS0199

**Equipment Present:** Flashers/Bell/Gates

NOTE: For Stand By Power (FRA 234.251), an indication of "C" denotes that all battery buses, as listed under Grounds (FRA 234.249), were tested. If any battery bus fails the Stand By Power test, that bus will be named in the notes associated with the Stand By Power test.

			(	Condition	Grounds (F	RA 234.24	9) Month	ly
Flashing Light Units (F	RA 234.253) N	<b>N</b> onthly		С	Bus Nomenclature		Conditio	<u>n</u>
Gate Arms & Mechanis	sm (FRA 234.2	255 a & b) Moi	nthly	С	MB12		С	
Warning System Opera	ation (FRA 234	1.257 a & b) M	onthly	С	XB14		С	
Crossbuck & Signs (TF	P-234) Monthly	,		NT	Stand By Power (FRA	\ 224 251\	Monthly	С
M/S./C.W.T. Equip (TP	-234) Monthly			NT	Stand by I ower (I III	. 204.201)	ivioriting	O
Fuses/Arrestors (TP-23	34) Monthly			NT		Traffic Pre-Emption (FRA 234.261) Mon		-
					Device Nomenclatur	<u>e</u>	Condit	ion
							N	
Insul. Jts., Bonds, & Tr	k. Conn. (FRA	. 234.271) Qua	arterly	NT	Cut-Out Circuits	(FRA 234	.269) Qu	arterly
Stick Release Circuits	(TP-234) Quar	terly		NT	Circuit Nomenclature	e	Conditi	on
Recorders (TP-234) Qu		,		NT			N	
, ,		- 1						
Lamp Voltages (FRA 2	,			С				
Lamp Alignment (FRA	234.253) Annı	ual		NT				
Hold Clear Device (FR	A 234.255 c) A	Annual		NT				
0.06 Ohm Shunts/Islan	d/Standby (TF	P-234) Annual		NT				
POK Lamp (TP-234) A	nnual Lan	np Type: LED		NT				
Torque / Power Down	(TP-234) Annu	ıal		NT				
Warning Time Test Re	sults (FRA 234							
Track #	Direction	Active / Standby	_	Control T	ype <u>Timing Method</u>	Time (s <u>Presc.</u>	econds) Obs.	Test Date
#1 Main	Е	Active [	NT	Predict	or	20	0	
Route: #1 Main								
#1 Main	W	Active	NT	Predict	or	0	0	
Route: #1 Main		_						
#2 Main	Е	Active [	NT	Predict	or	0	0	
Route: #2 Main								

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Track # #2 Main Route: #2 Main	<u>Direction</u> W	Active / Standby Active	NT -	Control Type Predictor	Timing Method	Time (s <u>Presc.</u> 0	econds) Obs. 0	Test Date
Siding Route: Siding	Island Only	Active	N	DC	N/A	N/A	N/A	
Flasher Test Results (F	FRA 234.253)	Annual						
Flasher Nomenclature				Flas	shes Per Minute	_		
SIG 1				NT	0			
Timing Relay & Device Timer Nomenclature	s Test Results	s (FRA 234.	265) Ann		sign / Plan Time	N	leasured	Time
		No Data	Entered	or Test Not Appli	cable			

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Division: NEBRASKA Asset ID: 095256R
Subdivision: CRESTON Test Date: 12/02/2010

Location / Highway Name: HARRIS ST

County: MILLS State: IA

Milepost (with Line Segment): 1 451.95 - 451.95

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Equipment Present:** Flashers/Bell/Gates

NOTE: For Stand By Power (FRA 234.251), an indication of "C" denotes that all battery buses, as listed under Grounds (FRA 234.249), were tested. If any battery bus fails the Stand By Power test, that bus will be named in the notes associated with the Stand By Power test.

	Condition	Grounds (FF	RA 234.249) Monthly
Flashing Light Units (FRA 234.253) Monthly	С	Bus Nomenclature	Condition
Gate Arms & Mechanism (FRA 234.255 a & b) Monthly	С	MB12	С
Warning System Operation (FRA 234.257 a & b) Monthly		XB14	С
Crossbuck & Signs (TP-234) Monthly	С	Stand By Power (FRA	234.251) Monthly C
M/S./C.W.T. Equip (TP-234) Monthly	С		
Fuses/Arrestors (TP-234) Monthly	С	· ·	on (FRA 234.261) Monthly
		Device Nomenclature	
			N

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Division: NEBRASKA Asset ID: 095256R
Subdivision: CRESTON Test Date: 12/30/2010

Location / Highway Name: HARRIS ST

County: MILLS State: IA

Milepost (with Line Segment): 1 451.95 - 451.95

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Equipment Present:** Flashers/Bell/Gates

NOTE: For Stand By Power (FRA 234.251), an indication of "C" denotes that all battery buses, as listed under Grounds (FRA 234.249), were tested. If any battery bus fails the Stand By Power test, that bus will be named in the notes associated with the Stand By Power test.

	Condition	Grounds (FF	RA 234.249) Monthly
Flashing Light Units (FRA 234.253) Monthly	С	Bus Nomenclature	Condition
Gate Arms & Mechanism (FRA 234.255 a & b) Monthly	С	MB12	С
Warning System Operation (FRA 234.257 a & b) Monthly		XB14	С
Crossbuck & Signs (TP-234) Monthly	С	Out of D. Danie (FDA	004.054) MII.I
M/S./C.W.T. Equip (TP-234) Monthly	С	Stand By Power (FRA	234.251) Monthly C
Fuses/Arrestors (TP-234) Monthly	C	-	on (FRA 234.261) Monthly
		Device Nomenclature	e Condition
			N

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Division:NEBRASKAAsset ID:095256RSubdivision:CRESTONTest Date:01/27/2011

Location / Highway Name: HARRIS ST

County: MILLS State: IA

Milepost (with Line Segment): 1 451.95 - 451.95

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Equipment Present:** Flashers/Bell/Gates

NOTE: For Stand By Power (FRA 234.251), an indication of "C" denotes that all battery buses, as listed under Grounds (FRA 234.249), were tested. If any battery bus fails the Stand By Power test, that bus will be named in the notes associated with the Stand By Power test.

	Condition	Grounds (FRA 234.249) Monthly		
Flashing Light Units (FRA 234.253) Monthly	С	Bus Nomenclature	Condition	
Gate Arms & Mechanism (FRA 234.255 a & b) Monthly	С	MB12	С	
Warning System Operation (FRA 234.257 a & b) Monthly	С	XB14	С	
Crossbuck & Signs (TP-234) Monthly	С	Stand By Power (FRA 234.251) Monthly		
M/S./C.W.T. Equip (TP-234) Monthly	С	Stand by Fower (FFIA 254.251) Monthly		
Fuses/Arrestors (TP-234) Monthly	С	Traffic Pre-Emption (FRA 234.261) Monthly		
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		Device Nomenclature Condition		
			N	
Insul. Jts., Bonds, & Trk. Conn. (FRA 234.271) Quarterly	С	Cut-Out Circuits	(FRA 234.269) Quarterly	
Stick Release Circuits (TP-234) Quarterly	N	Circuit Nomenclature	Condition	
, , , ,		N		
Recorders (TP-234) Quarterly	С			

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Division:NEBRASKAAsset ID:095256RSubdivision:CRESTONTest Date:02/23/2011

Location / Highway Name: HARRIS ST

County: MILLS State: IA

Milepost (with Line Segment): 1 451.95 - 451.95

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Equipment Present:** Flashers/Bell/Gates

NOTE: For Stand By Power (FRA 234.251), an indication of "C" denotes that all battery buses, as listed under Grounds (FRA 234.249), were tested. If any battery bus fails the Stand By Power test, that bus will be named in the notes associated with the Stand By Power test.

C	ondition	Grounds (FRA 234.249) Monthly		
Flashing Light Units (FRA 234.253) Monthly	С	Bus Nomenclature	Condition	
Gate Arms & Mechanism (FRA 234.255 a & b) Monthly	С	MB12	С	
Warning System Operation (FRA 234.257 a & b) Monthly	С	XB14	С	
Crossbuck & Signs (TP-234) Monthly	С	Object D. Deces (FDA 004 054) Marghi		
M/S./C.W.T. Equip (TP-234) Monthly	С	Stand By Power (FRA 234.251) Monthly		
Fuses/Arrestors (TP-234) Monthly	С	Traffic Pre-Emption (FRA 234.261) Monthly		
		Device Nomenclature Condition		
			N	
Insul. Jts., Bonds, & Trk. Conn. (FRA 234.271) Quarterly	С	Cut-Out Circuits	(FRA 234.269) Quarterly	
,	N	Circuit Nomenclature	Condition	
Stick Release Circuits (TP-234) Quarterly			N	
Recorders (TP-234) Quarterly	С			

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Division:NEBRASKAAsset ID:095256RSubdivision:CRESTONTest Date:03/24/2011

Location / Highway Name: HARRIS ST

County: MILLS State: IA

Milepost (with Line Segment): 1 451.95 - 451.95

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Equipment Present:** Flashers/Bell/Gates

NOTE: For Stand By Power (FRA 234.251), an indication of "C" denotes that all battery buses, as listed under Grounds (FRA 234.249), were tested. If any battery bus fails the Stand By Power test, that bus will be named in the notes associated with the Stand By Power test.

	Condition	Grounds (Fi	RA 234.249) Monthly
Flashing Light Units (FRA 234.253) Monthly	С	Bus Nomenclature	Condition
Gate Arms & Mechanism (FRA 234.255 a & b) Monthly	, C	MB12	С
Warning System Operation (FRA 234.257 a & b) Mont		XB14	С
Crossbuck & Signs (TP-234) Monthly	C	Stand Dy Dower (EDA	234.251) Monthly C
M/S./C.W.T. Equip (TP-234) Monthly	C	Stand By Power (FRA	(234.231) Monthly
Fuses/Arrestors (TP-234) Monthly	C	-	on (FRA 234.261) Monthly
		Device Nomenclatur	
			N

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# **Inspection Report - Insulation Tests & Inspections**

**Division:** NEBRASKA **Asset ID:** 095256R

Subdivision: CRESTON Test Date: 11/04/2010

Location / Highway Name: HARRIS ST

County: MILLS State: IA

**Milepost (with Line Segment):** 1 451.95 - 451.95

Employee's Name: Larry Cassity (Icassity) PARS Number: SINS0199

Insulation Tests (FRA 234.267, 236.108)					
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Underground	5	14	HOUSE	SIG.S1	NT
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Underground	3	6	HOUSE	SIG.S1	C
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Underground	2	6	HOUSE	SIG.S1	NT
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Underground	5	14	HOUSE	SIG.S2	NT
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Underground	3	6	HOUSE	SIG.S2	С
Cable Type	Conductors	Wire Size	Run From	Run To	Cond.
Underground	2	6	HOUSE	SIG.S2	NT

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# **Inspection Report - Relay Tests & Inspections**

**Division:** NEBRASKA **Asset ID:** 095256R

Subdivision: CRESTON Test Date: 11/04/2010

Location / Highway Name: HARRIS ST

County: MILLS State: IA

**Milepost (with Line Segment):** 1 451.95 - 451.95

**Employee's Name:** Larry Cassity (Icassity) **PARS Number:** SINS0199

		Relay Tests (	FRA 234.263, 236.106	5)		
Shelf Name DB		Serial Number B0585159	Condition Left NT			
Relay Type (Drawing and/or Catalog Number) PN-150B (N322500-701 / 4A1)			Resistance (Ohms) 400	Contacts 6FB	Date Tested	
Shelf Name DB	Relay Name XRP		Serial Number 0481C60	Condition Left NT		
Relay Type (Drawing and/or C PN-150HD (N322505-701-			Resistance (Ohms) 400	Contacts 4FB HD 2FB STD	Date Tested	
Shelf Name DB	Relay Name POR		Serial Number 2680237	Condition Left C		
Relay Type (Drawing and/or Catalog Number) PN-150P (322508-002)		Resistance (Ohms) 240	Contacts 4F-4BHD	<b>Date Tested</b> 11/04/2010		
Neutral Dropaway 7.5000 V AC		Neutral Pickup 9.2000 V AC	-	Neutral Working 9.2000 V AC	,	
Shelf Name DC	Relay Name XGR		Serial Number 4484412	Condition Left NT		
Relay Type (Drawing and/or C PN-259BSR (322562-001)	Catalog Number)		Resistance (Ohms) 225	Contacts 6FB	Date Tested	
Shelf Name DC	Relay Name TR		Serial Number L891420	Condition Left NT		
Relay Type (Drawing and/or Catalog Number) PN-150BTR (322501-702)			Resistance (Ohms) 4	Contacts 6F-6B	Date Tested	
Shelf Name DD	Relay Name EOR	!	Serial Number 500642	Condition Left NT		
Relay Type (Drawing and/or Catalog Number) ST (400700 / 400700)		Resistance (Ohms) 60	Contacts 4FB	Date Tested		

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# **Inspection Report - Relay Tests & Inspections**

**Division:** NEBRASKA **Asset ID:** 095256R

Subdivision: CRESTON Test Date: 11/15/2010

Location / Highway Name: HARRIS ST

County: MILLS State: IA

**Milepost (with Line Segment):** 1 451.95 - 451.95

Employee's Name: Larry Cassity (Icassity) PARS Number: SINS0199

		Relay Tests (F	FRA 234.263, 236.106	5)		
Shelf Name Relay Name DB POR			Serial Number 9508584		Condition Left	
Relay Type (Drawing and/or Catalog Number) ST (400800 / 400800)			Resistance (Ohms) 100/100		itacts 3 HD	<b>Date Tested</b> 11/15/2010
Neutral Dropaway 7.2000 V AC		Neutral Pickup 9.0000 V AC			tral Working 000 V AC	
Shelf Name DB	Relay Name XR		Serial Number 56383R129		Condition Left C	
Relay Type (Drawing and/or Catalog N B1 (56001-783 GR.2 / A62-277)	lumber)		Resistance (Ohms) 500		itacts 3-2F-1B	<b>Date Tested</b> 11/15/2010
Neutral Dropaway 0.0070 A DC		Neutral Pickup 0.0109 A DC			tral Working 109 A DC	
Shelf Name DB	Relay Name EOR		Serial Number 500642		Condition Left	
Relay Type (Drawing and/or Catalog Number) ST (400700 / 400700)			Resistance (Ohms) 60	Con 4FE	tacts	<b>Date Tested</b> 11/17/2010
Neutral Dropaway 0.0406 A DC		Neutral Pickup 0.0707 A DC			tral Working 707 A DC	
Shelf Name DB	Relay Name XRP		Serial Number 9610162		Condition Left	
Relay Type (Drawing and/or Catalog N ST (400021 / 400021)	lumber)		Resistance (Ohms) 200		itacts HD, 2FB	<b>Date Tested</b> 11/15/2010
Neutral Dropaway 0.0070 A DC		Neutral Pickup 0.0181 A DC			tral Working 181 A DC	·
Shelf Name DB	Relay Name XGR		Serial Number 735309		Condition Left	
Relay Type (Drawing and/or Catalog Number) B1 (56001-774 GR.1 / A62-360)			Resistance (Ohms) 194	Con 4FE	tacts	Date Tested 11/15/2010
Neutral Dropaway 0.0054 A DC		Neutral Pickup 0.0276 A DC			tral Working 276 A DC	·
Shelf Name DB	Relay Name ISL TR		Serial Number 9803987		Condition Left	
Relay Type (Drawing and/or Catalog Number) ST (400510 / 400510)			Resistance (Ohms) 2		itacts 3-2F-1B	<b>Date Tested</b> 11/15/2010
Neutral Dropaway 0.0847 A DC		Neutral Pickup 0.1637 A DC			tral Working 637 A DC	

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#### **Inspection Report - Grounds Tests & Inspections**

**Division:** NEBRASKA **Asset ID:** BAAN20S

Subdivision: CRESTON Test Date: 12/15/2010

Location / Highway Name: CABINET WEST HT EMERSON

County: MILLS State: IA

Milepost (with Line Segment): 1 452.10 - 452.10

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

Grounds Test (FRA 236.107)			
Bus Nomenclature	Condition Left		
B12	С		

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# **Inspection Report - Grounds Tests & Inspections**

**Division:** NEBRASKA **Asset ID:** BAAN20S

Subdivision: CRESTON Test Date: 03/07/2011

Location / Highway Name: CABINET WEST HT EMERSON

County: MILLS State: IA

Milepost (with Line Segment): 1 452.10 - 452.10

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

Grounds Test (FRA 236.107)				
Bus Nomenclature	Condition Left			
B12	С			

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# **Inspection Report - Timing Tests & Inspections**

**Division:** NEBRASKA **Asset ID:** BAAN20S

Subdivision: CRESTON Test Date: 03/07/2011

Location / Highway Name: CABINET WEST HT EMERSON

County: MILLS State: IA

**Milepost (with Line Segment):** 1 452.10 - 452.10

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

Time Releases, Timing Relays, and Timing Devices (FRA 236.109)					
Timer	Design Time	Measured Time	Condition Left		
TER	00:08:30.0	00:08:30.0	С		

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Division: NEBRASKA Asset ID: BAAN2XD

Subdivision: CRESTON Test Date: 12/15/2010

Location / Highway Name: WEST EMERSON HT DERAIL SWCC

County: MILLS State: IA

**Milepost (with Line Segment):** 1 452.10 - 452.10

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

Switch Type: Hand-op. Derail, Split pt., or Hayes

Monthly Tests				
Test Description & Rule	Condition Left			

Quarterly Tests				
Test Description & Rule	Condition Left			
Circuit Controller Points - NORMAL (FRA 236.103)	С			
Circuit Controller Points - REVERSE (FRA 236.103)	N			
Shunt Fouling - Circuit Type: (FRA 236.104)				

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Division:NEBRASKAAsset ID:BAAN2XDSubdivision:CRESTONTest Date:03/07/2011

Location / Highway Name: WEST EMERSON HT DERAIL SWCC

County: MILLS State: IA

**Milepost (with Line Segment):** 1 452.10 - 452.10

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Switch Type:** Hand-op. Derail, Split pt., or Hayes

Monthly Tests				
Test Description & Rule Condition Left				

Quarterly Tests				
Test Description & Rule	Condition Left			
Circuit Controller Points - NORMAL (FRA 236.103)	С			
Circuit Controller Points - REVERSE (FRA 236.103)	N			
Shunt Fouling - Circuit Type: (FRA 236.104)				

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**Division:** NEBRASKA **Asset ID:** BAAN2YK

Subdivision: CRESTON Test Date: 12/15/2010

**Location / Highway Name:** WEST EMERSON HT SWCC M2

County: MILLS State: IA

Milepost (with Line Segment): 1 452.10 - 452.10

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Switch Type:** Hand-operated with Electric Lock

Monthly Tests	
Test Description & Rule	Condition Left

Quarterly Tests				
Test Description & Rule	Condition Left			
Circuit Controller Points - NORMAL (FRA 236.103)	С			
Circuit Controller Points - REVERSE (FRA 236.103)	N			
Shunt Fouling - Circuit Type: Fouling (FRA 236.104)	С			
Electric Lock, Main Track Releasing Circuit (TP-16A)	С			

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Division: NEBRASKA

Subdivision: CRESTON

Asset ID: BAAN2YK

Test Date: 03/07/2011

Location / Highway Name: WEST EMERSON HT SWCC M2

County: MILLS State: IA

Milepost (with Line Segment): 1 452.10 - 452.10

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

Switch Type: Hand-operated with Electric Lock

Monthly Tests	
Test Description & Rule	Condition Left

Quarterly Tests		
Test Description & Rule	Condition Left	
Circuit Controller Points - NORMAL (FRA 236.103)	A	
ADJUSTED BOTH CMS FOR PROPER CLEARANCE. OP CHECKS SAT.		
Circuit Controller Points - REVERSE (FRA 236.103)	N	
Shunt Fouling - Circuit Type: Fouling (FRA 236.104)	С	
Flectric Lock, Main Track Releasing Circuit (TP-16A)	С	

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Division:NEBRASKAAsset ID:095257XSubdivision:CRESTONTest Date:11/03/2010

Location / Highway Name: CO RD

County: MILLS State: IA

Milepost (with Line Segment): 1 452.88 - 452.88

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Equipment Present:** Flashers/Bell/Gates

NOTE: For Stand By Power (FRA 234.251), an indication of "C" denotes that all battery buses, as listed under Grounds (FRA 234.249), were tested. If any battery bus fails the Stand By Power test, that bus will be named in the notes associated with the Stand By Power test.

	Condition	Grounds (FRA 234.249) Monthly		
Flashing Light Units (FRA 234.253) Monthly	С	Bus Nomenclature	Condition	
Gate Arms & Mechanism (FRA 234.255 a & b) Monthly	C	MB12	С	
Warning System Operation (FRA 234.257 a & b) Month	nly C	XB14	С	
Crossbuck & Signs (TP-234) Monthly	С	Stand By Power (FRA	234.251) Monthly C	
M/S./C.W.T. Equip (TP-234) Monthly	C	Stand by I ower (I TIA	54.251) Monthly	
Fuses/Arrestors (TP-234) Monthly	С	Traffic Pre-Emption (FRA 234.261) Mont  Device Nomenclature Condition		
T dood, a rootoro (TT 201) Montany	O			
			N	
Insul. Jts., Bonds, & Trk. Conn. (FRA 234.271) Quarter	ly C	Cut-Out Circuits (	FRA 234.269) Quarterly	
		Circuit Nomenclature	Condition	
Stick Release Circuits (TP-234) Quarterly	N		N	
Recorders (TP-234) Quarterly	С		14	

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Division:NEBRASKAAsset ID:095257XSubdivision:CRESTONTest Date:12/01/2010

Location / Highway Name: CO RD

County: MILLS State: IA

Milepost (with Line Segment): 1 452.88 - 452.88

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Equipment Present:** Flashers/Bell/Gates

NOTE: For Stand By Power (FRA 234.251), an indication of "C" denotes that all battery buses, as listed under Grounds (FRA 234.249), were tested. If any battery bus fails the Stand By Power test, that bus will be named in the notes associated with the Stand By Power test.

G	ondition	Grounds (Fi	RA 234.249) Monthly
Flashing Light Units (FRA 234.253) Monthly	С	Bus Nomenclature	Condition
Gate Arms & Mechanism (FRA 234.255 a & b) Monthly	С	MB12	С
Warning System Operation (FRA 234.257 a & b) Monthly	С	XB14	С
Crossbuck & Signs (TP-234) Monthly	С	Stand By Power (FRA	234.251) Monthly C
M/S./C.W.T. Equip (TP-234) Monthly	С		
Fuses/Arrestors (TP-234) Monthly	С	·	on (FRA 234.261) Monthly
		Device Nomenclatur	
			N

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Division: NEBRASKA Asset ID: 095257X
Subdivision: CRESTON Test Date: 12/22/2010

Location / Highway Name: CO RD

County: MILLS State: IA

Milepost (with Line Segment): 1 452.88 - 452.88

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Equipment Present:** Flashers/Bell/Gates

NOTE: For Stand By Power (FRA 234.251), an indication of "C" denotes that all battery buses, as listed under Grounds (FRA 234.249), were tested. If any battery bus fails the Stand By Power test, that bus will be named in the notes associated with the Stand By Power test.

C	ondition	Grounds (FF	RA 234.249) Monthly
Flashing Light Units (FRA 234.253) Monthly	С	Bus Nomenclature	Condition
Gate Arms & Mechanism (FRA 234.255 a & b) Monthly	С	MB12	С
Warning System Operation (FRA 234.257 a & b) Monthly	С	XB14	С
Crossbuck & Signs (TP-234) Monthly	C	Stand By Power (FRA	234.251) Monthly C
M/S./C.W.T. Equip (TP-234) Monthly	С		
Fuses/Arrestors (TP-234) Monthly	С	Device Nomenclature	on (FRA 234.261) Monthly Condition
		Device Nomenciature	
			N

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Division:NEBRASKAAsset ID:095257XSubdivision:CRESTONTest Date:01/05/2011

Location / Highway Name: CO RD

County: MILLS State: IA

Milepost (with Line Segment): 1 452.88 - 452.88

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Equipment Present:** Flashers/Bell/Gates

NOTE: For Stand By Power (FRA 234.251), an indication of "C" denotes that all battery buses, as listed under Grounds (FRA 234.249), were tested. If any battery bus fails the Stand By Power test, that bus will be named in the notes associated with the Stand By Power test.

	Condition	Grounds (FRA 234.249) Monthly	
Flashing Light Units (FRA 234.253) Monthly	С	Bus Nomenclature	Condition
Gate Arms & Mechanism (FRA 234.255 a & b) Monthly	С	MB12	С
Warning System Operation (FRA 234.257 a & b) Month	nly C	XB14	С
Crossbuck & Signs (TP-234) Monthly	С	Stand By Power (FRA	234.251) Monthly C
M/S./C.W.T. Equip (TP-234) Monthly	С	Stand by I ower (I TIA	204.201) Worlding
Fuses/Arrestors (TP-234) Monthly	С	Traffic Pre-Emption (FRA 234.261) Month Device Nomenclature Condition	
T dood/ trootore (11 201/ Montally	0		
			N
Insul. Jts., Bonds, & Trk. Conn. (FRA 234.271) Quarter	ly C	Cut-Out Circuits (	FRA 234.269) Quarterly
Chief Deleges Circuits (TD 004) Overstants		Circuit Nomenclature	Condition
Stick Release Circuits (TP-234) Quarterly	N		N
Recorders (TP-234) Quarterly	С		1

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Division:NEBRASKAAsset ID:095257XSubdivision:CRESTONTest Date:01/26/2011

Location / Highway Name: CO RD

County: MILLS State: IA

Milepost (with Line Segment): 1 452.88 - 452.88

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Equipment Present:** Flashers/Bell/Gates

NOTE: For Stand By Power (FRA 234.251), an indication of "C" denotes that all battery buses, as listed under Grounds (FRA 234.249), were tested. If any battery bus fails the Stand By Power test, that bus will be named in the notes associated with the Stand By Power test.

	Condition	Grounds (FF	RA 234.249) Monthly
Flashing Light Units (FRA 234.253) Monthly	С	Bus Nomenclature	Condition
Gate Arms & Mechanism (FRA 234.255 a & b) Monthly	С	MB12	С
Warning System Operation (FRA 234.257 a & b) Monthly		XB14	С
Crossbuck & Signs (TP-234) Monthly	С	Stand By Power (FRA	234.251) Monthly C
M/S./C.W.T. Equip (TP-234) Monthly	С		
Fuses/Arrestors (TP-234) Monthly	С	· ·	on (FRA 234.261) Monthly
		Device Nomenclature	
			N

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Division:NEBRASKAAsset ID:095257XSubdivision:CRESTONTest Date:02/23/2011

Location / Highway Name: CO RD

County: MILLS State: IA

Milepost (with Line Segment): 1 452.88 - 452.88

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Equipment Present:** Flashers/Bell/Gates

NOTE: For Stand By Power (FRA 234.251), an indication of "C" denotes that all battery buses, as listed under Grounds (FRA 234.249), were tested. If any battery bus fails the Stand By Power test, that bus will be named in the notes associated with the Stand By Power test.

	Condition	Grounds (FRA 234.249) Monthly	
Flashing Light Units (FRA 234.253) Monthly	С	Bus Nomenclature	Condition
Gate Arms & Mechanism (FRA 234.255 a & b) Monthly	С	MB12	С
Warning System Operation (FRA 234.257 a & b) Month	ly C	XB14	С
Crossbuck & Signs (TP-234) Monthly	С	Stand By Power (FRA	234.251) Monthly C
M/S./C.W.T. Equip (TP-234) Monthly	С	Otalia By I owel (I TIA	204.201) Worlding
Fuses/Arrestors (TP-234) Monthly	С	Traffic Pre-Emption (FRA 234.261) Monthly  Device Nomenclature Condition	
			N
Insul. Jts., Bonds, & Trk. Conn. (FRA 234.271) Quarterl	у С	Cut-Out Circuits	(FRA 234.269) Quarterly
,	N	Circuit Nomenclature	Condition
Stick Release Circuits (TP-234) Quarterly			N
Recorders (TP-234) Quarterly	С		

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Division:NEBRASKAAsset ID:095257XSubdivision:CRESTONTest Date:03/23/2011

Location / Highway Name: CO RD

County: MILLS State: IA

Milepost (with Line Segment): 1 452.88 - 452.88

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Equipment Present:** Flashers/Bell/Gates

NOTE: For Stand By Power (FRA 234.251), an indication of "C" denotes that all battery buses, as listed under Grounds (FRA 234.249), were tested. If any battery bus fails the Stand By Power test, that bus will be named in the notes associated with the Stand By Power test.

G	ondition	Grounds (Fi	RA 234.249) Monthly
Flashing Light Units (FRA 234.253) Monthly	С	Bus Nomenclature	Condition
Gate Arms & Mechanism (FRA 234.255 a & b) Monthly	С	MB12	С
Warning System Operation (FRA 234.257 a & b) Monthly	С	XB14	С
Crossbuck & Signs (TP-234) Monthly	С	Stand By Power (FRA	234.251) Monthly C
M/S./C.W.T. Equip (TP-234) Monthly	С		
Fuses/Arrestors (TP-234) Monthly	С	·	on (FRA 234.261) Monthly
		Device Nomenclatur	
			N

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**Division:** NEBRASKA **Asset ID:** BAANK0G

Subdivision: CRESTON Test Date: 11/11/2010

Location / Highway Name: M23B RH M2W 1A

County: MILLS State: IA

**Milepost (with Line Segment):** 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Switch Type:** Power-operated

Monthly Tests	
Test Description & Rule	Condition Left
Obstruct Lock Rod - NORMAL (FRA 236.382)	С
Obstruct Lock Rod - REVERSE (FRA 236.382)	С

Quarterly Tests	
Test Description & Rule	Condition Left
Circuit Controller Points - NORMAL (FRA 236.103)	С
Circuit Controller Points - REVERSE (FRA 236.103)	С
Shunt Fouling - Circuit Type: Fouling (FRA 236.104)	С
Timing (SI 4.2)	N

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**Division:** NEBRASKA **Asset ID:** BAANK0G

Subdivision: CRESTON Test Date: 12/09/2010

Location / Highway Name: M23B RH M2W 1A

County: MILLS State: IA

**Milepost (with Line Segment):** 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Switch Type:** Power-operated

Monthly Tests	
Test Description & Rule	Condition Left
Obstruct Lock Rod - NORMAL (FRA 236.382)	С
Obstruct Lock Rod - REVERSE (FRA 236.382)	С

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Division:NEBRASKAAsset ID:BAANK0GSubdivision:CRESTONTest Date:01/06/2011

Location / Highway Name: M23B RH M2W 1A

County: MILLS State: IA

**Milepost (with Line Segment):** 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Switch Type:** Power-operated

Monthly Tests		
Test Description & Rule	Condition Left	
Obstruct Lock Rod - NORMAL (FRA 236.382)	С	
Obstruct Lock Rod - REVERSE (FRA 236.382)	C	

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**Division:** NEBRASKA **Asset ID:** BAANK0G

Subdivision: CRESTON Test Date: 02/03/2011

Location / Highway Name: M23B RH M2W 1A

County: MILLS State: IA

**Milepost (with Line Segment):** 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Switch Type:** Power-operated

Monthly Tests		
Test Description & Rule	Condition Left	
Obstruct Lock Rod - NORMAL (FRA 236.382)	С	
Obstruct Lock Rod - REVERSE (FRA 236.382)	С	

Quarterly Tests		
Test Description & Rule	Condition Left	
Circuit Controller Points - NORMAL (FRA 236.103)	С	
Circuit Controller Points - REVERSE (FRA 236.103)	С	
Shunt Fouling - Circuit Type: Fouling (FRA 236.104)	С	
Timing (SI 4.2)	N	

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Division:NEBRASKAAsset ID:BAANK0GSubdivision:CRESTONTest Date:03/04/2011

Subdivision: CRESTON
Location / Highway Name: M23B RH M2W 1A

County: MILLS State: IA

**Milepost (with Line Segment):** 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Switch Type:** Power-operated

Monthly Tests		
Test Description & Rule	Condition Left	
Obstruct Lock Rod - NORMAL (FRA 236.382)	С	
Obstruct Lock Rod - REVERSE (FRA 236.382)	C	

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**Division:** NEBRASKA **Asset ID:** BAANK0G

Subdivision: CRESTON Test Date: 03/31/2011

Location / Highway Name: M23B RH M2W 1A

County: MILLS State: IA

**Milepost (with Line Segment):** 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Switch Type:** Power-operated

Monthly Tests		
Test Description & Rule	Condition Left	
Obstruct Lock Rod - NORMAL (FRA 236.382)	С	
Obstruct Lock Rod - REVERSE (FRA 236.382)	С	

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# **Inspection Report - Grounds Tests & Inspections**

**Division:** NEBRASKA **Asset ID:** BAANK1N

Subdivision: CRESTON Test Date: 11/11/2010

**Location / Highway Name:** DBL XO 453.5

County: MILLS State: IA

**Milepost (with Line Segment):** 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

Grounds Test (FRA 236.107)		
Bus Nomenclature	Condition Left	
B12	С	
B28	С	

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**Division:** NEBRASKA **Asset ID:** BAANK1N

Subdivision: CRESTON Test Date: 12/09/2010

**Location / Highway Name:** DBL XO 453.5

County: MILLS State: IA

Milepost (with Line Segment): 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

Grounds Test (FRA 236.107)	
Bus Nomenclature	Condition Left
B12	С
B28	С

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Division:NEBRASKAAsset ID:BAANK1NSubdivision:CRESTONTest Date:01/06/2011

**Location / Highway Name:** DBL XO 453.5

County: MILLS State: IA

Milepost (with Line Segment): 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

Grounds Test (FRA 236.107)	
Bus Nomenclature	Condition Left
B12	С
B28	С

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Division: NEBRASKA Asset ID: BAANK1N

Subdivision: CRESTON Test Date: 02/03/2011

County: MILLS State: IA

Milepost (with Line Segment): 1 453.50 - 453.50

Location / Highway Name: DBL XO 453.5

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

Grounds Test (FRA 236.107)	
Bus Nomenclature	Condition Left
B12	С
B28	С

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Division:NEBRASKAAsset ID:BAANK1NSubdivision:CRESTONTest Date:03/04/2011

Location / Highway Name: DBL XO 453.5

County: MILLS State: IA

Milepost (with Line Segment): 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

Grounds Test (FRA 236.107)	
Bus Nomenclature	Condition Left
B12	С
B28	С

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Division: NEBRASKA Asset ID: BAANK1N

Subdivision: CRESTON Test Date: 03/31/2011

**Location / Highway Name:** DBL XO 453.5

County: MILLS State: IA

**Milepost (with Line Segment):** 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

Grounds Test (FRA 236.107)	
Bus Nomenclature	Condition Left
B12	С
B28	С

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# **Inspection Report - Timing Tests & Inspections**

**Division:** NEBRASKA **Asset ID:** BAANK1N

Subdivision: CRESTON Test Date: 03/04/2011

**Location / Highway Name:** DBL XO 453.5

County: MILLS State: IA

**Milepost (with Line Segment):** 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

Time Releases, Timing Relays, and Timing Devices (FRA 236.109)			
Timer	Design Time	Measured Time	Condition Left
LOS M1	00:00:10.0	00:00:10.0	С
LOS M2	00:00:10.0	00:00:10.0	С
VHLC M1	0.00:80:00	00:08:02.0	С
VHLC M2	0.00:80:00	0.00:80:00	С

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**Division:** NEBRASKA **Asset ID:** BAANKWL

Subdivision: CRESTON Test Date: 11/11/2010

Location / Highway Name: M23B LH M2E 2A

County: MILLS State: IA

**Milepost (with Line Segment):** 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Switch Type:** Power-operated

Monthly Tests	
Test Description & Rule	Condition Left
Obstruct Lock Rod - NORMAL (FRA 236.382)	С
Obstruct Lock Rod - REVERSE (FRA 236.382)	С

Quarterly Tests	
Test Description & Rule	Condition Left
Circuit Controller Points - NORMAL (FRA 236.103)	С
Circuit Controller Points - REVERSE (FRA 236.103)	С
Shunt Fouling - Circuit Type: Fouling (FRA 236.104)	С
Timing (SI 4.2)	N

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**Division:** NEBRASKA **Asset ID:** BAANKWL

Subdivision: CRESTON Test Date: 12/09/2010

Location / Highway Name: M23B LH M2E 2A

County: MILLS State: IA

**Milepost (with Line Segment):** 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Switch Type:** Power-operated

Monthly Tests	
Test Description & Rule	Condition Left
Obstruct Lock Rod - NORMAL (FRA 236.382)	С
Obstruct Lock Rod - REVERSE (FRA 236.382)	С

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Division:NEBRASKAAsset ID:BAANKWLSubdivision:CRESTONTest Date:01/06/2011

Location / Highway Name: M23B LH M2E 2A

County: MILLS State: IA

**Milepost (with Line Segment):** 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Switch Type:** Power-operated

Monthly Tests	
Test Description & Rule	Condition Left
Obstruct Lock Rod - NORMAL (FRA 236.382)	С
Obstruct Lock Rod - REVERSE (FRA 236.382)	С

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Division:NEBRASKAAsset ID:BAANKWLSubdivision:CRESTONTest Date:02/03/2011

Location / Highway Name: M23B LH M2E 2A

County: MILLS State: IA

**Milepost (with Line Segment):** 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Switch Type:** Power-operated

Monthly Tests	
Test Description & Rule	Condition Left
Obstruct Lock Rod - NORMAL (FRA 236.382)	С
Obstruct Lock Rod - REVERSE (FRA 236.382)	R
SWITCH WOULD NOT THROW REVERSE DUE TO ICE BUILDUP IN THE REVERSE THROW POINT. THIS WAS DUE	
TO THE SNOW MELTER TRUMPET HAVING BEEN MOVED OUT OF PROPER ALIGI	
MOUNTING BOLTS ON TRUMPET BROKEN THUS ALLOWING MOVEMENT OF TRUVIBRATION LOOSENS ONLY REMAINING BOLT SECURING TRIMPET FROM MOV	IMPET WHEN SUFFICIENT
VIBRATION LOOSENS ONLY REMAINING BOLT SECURING TRAMPET FROM MOV	EMENT. I DID, HOWEVER,
TIGHTEN THIS ONE LONE COTORS OPES CHIPMEN WORK ORDER TO GET THE	THE DUCH CHIEFURE FORE
NEXITY YEAROLLER Points - NORMAL (FRA 236.103)	C
Circuit Controller Points - REVERSE (FRA 236.103)	С
Shunt Fouling - Circuit Type: Fouling (FRA 236.104)	C
Timing (SI 4.2)	N

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Division: NEBRASKA Asset ID: BAANKWL

Subdivision: CRESTON Test Date: 03/04/2011

**Location / Highway Name:** M23B LH M2E 2A

County: MILLS State: IA

**Milepost (with Line Segment):** 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Switch Type:** Power-operated

Monthly Tests	
Test Description & Rule	Condition Left
Obstruct Lock Rod - NORMAL (FRA 236.382)	С
Obstruct Lock Rod - REVERSE (FRA 236.382)	C

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Division: NEBRASKA Asset ID: BAANKWL

Subdivision: CRESTON Test Date: 03/31/2011

**Location / Highway Name:** M23B LH M2E 2A

County: MILLS State: IA

**Milepost (with Line Segment):** 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Switch Type:** Power-operated

Monthly Tests	
Test Description & Rule	Condition Left
Obstruct Lock Rod - NORMAL (FRA 236.382)	С
Obstruct Lock Rod - REVERSE (FRA 236.382)	С

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**Division:** NEBRASKA **Asset ID:** BAANKXT

Subdivision: CRESTON Test Date: 11/11/2010

Location / Highway Name: M23B LH M1E 2B

County: MILLS State: IA

**Milepost (with Line Segment):** 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Switch Type:** Power-operated

Monthly Tests	
Test Description & Rule	Condition Left
Obstruct Lock Rod - NORMAL (FRA 236.382)	С
Obstruct Lock Rod - REVERSE (FRA 236.382)	С

Quarterly Tests	
Test Description & Rule	Condition Left
Circuit Controller Points - NORMAL (FRA 236.103)	С
Circuit Controller Points - REVERSE (FRA 236.103)	С
Shunt Fouling - Circuit Type: Fouling (FRA 236.104)	С
Timing (SI 4.2)	N

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**Division:** NEBRASKA **Asset ID:** BAANKXT

Subdivision: CRESTON Test Date: 12/09/2010

Location / Highway Name: M23B LH M1E 2B

County: MILLS State: IA

**Milepost (with Line Segment):** 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Switch Type:** Power-operated

Monthly Tests	
Test Description & Rule	Condition Left
Obstruct Lock Rod - NORMAL (FRA 236.382)	С
Obstruct Lock Rod - REVERSE (FRA 236.382)	С

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**Division:** NEBRASKA **Asset ID:** BAANKXT

Subdivision: CRESTON Test Date: 01/06/2011

Location / Highway Name: M23B LH M1E 2B

County: MILLS State: IA

**Milepost (with Line Segment):** 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Switch Type:** Power-operated

Monthly Tests	
Test Description & Rule	Condition Left
Obstruct Lock Rod - NORMAL (FRA 236.382)	С
Obstruct Lock Rod - REVERSE (FRA 236.382)	С

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**Division:** NEBRASKA **Asset ID:** BAANKXT

Subdivision: CRESTON Test Date: 02/03/2011

Location / Highway Name: M23B LH M1E 2B

County: MILLS State: IA

**Milepost (with Line Segment):** 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Switch Type:** Power-operated

Monthly Tests	
Test Description & Rule	Condition Left
Obstruct Lock Rod - NORMAL (FRA 236.382)	С
Obstruct Lock Rod - REVERSE (FRA 236.382)	С

Quarterly Tests	
Test Description & Rule	Condition Left
Circuit Controller Points - NORMAL (FRA 236.103)	С
Circuit Controller Points - REVERSE (FRA 236.103)	С
Shunt Fouling - Circuit Type: Fouling (FRA 236.104)	С
Timing (SI 4.2)	N

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Division:NEBRASKAAsset ID:BAANKXTSubdivision:CRESTONTest Date:03/04/2011

Location / Highway Name: M23B LH M1E 2B

County: MILLS State: IA

**Milepost (with Line Segment):** 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Switch Type:** Power-operated

Monthly Tests	
Test Description & Rule	Condition Left
Obstruct Lock Rod - NORMAL (FRA 236.382)	С
Obstruct Lock Rod - REVERSE (FRA 236.382)	C

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**Division:** NEBRASKA **Asset ID:** BAANKXT

Subdivision: CRESTON Test Date: 03/31/2011

**Location / Highway Name:** M23B LH M1E 2B

County: MILLS State: IA

**Milepost (with Line Segment):** 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Switch Type:** Power-operated

Monthly Tests	
Test Description & Rule	Condition Left
Obstruct Lock Rod - NORMAL (FRA 236.382)	С
Obstruct Lock Rod - REVERSE (FRA 236.382)	C

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**Division:** NEBRASKA **Asset ID:** BAANKYA

Subdivision: CRESTON Test Date: 11/11/2010

Location / Highway Name: M23B RH M1W 1B

County: MILLS State: IA

**Milepost (with Line Segment):** 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Switch Type:** Power-operated

Monthly Tests	
Test Description & Rule	Condition Left
Obstruct Lock Rod - NORMAL (FRA 236.382)	С
Obstruct Lock Rod - REVERSE (FRA 236.382)	С

Quarterly Tests	
Test Description & Rule	Condition Left
Circuit Controller Points - NORMAL (FRA 236.103)	С
Circuit Controller Points - REVERSE (FRA 236.103)	С
Shunt Fouling - Circuit Type: Fouling (FRA 236.104)	С
Timing (SI 4.2)	N

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**Division:** NEBRASKA **Asset ID:** BAANKYA

Subdivision: CRESTON Test Date: 12/09/2010

Location / Highway Name: M23B RH M1W 1B

County: MILLS State: IA

**Milepost (with Line Segment):** 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Switch Type:** Power-operated

Monthly Tests	
Test Description & Rule	Condition Left
Obstruct Lock Rod - NORMAL (FRA 236.382)	С
Obstruct Lock Rod - REVERSE (FRA 236.382)	С

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Division:NEBRASKAAsset ID:BAANKYASubdivision:CRESTONTest Date:01/06/2011

Location / Highway Name: M23B RH M1W 1B

County: MILLS State: IA

**Milepost (with Line Segment):** 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Switch Type:** Power-operated

Monthly Tests		
Test Description & Rule	Condition Left	
Obstruct Lock Rod - NORMAL (FRA 236.382)	С	
Obstruct Lock Rod - REVERSE (FRA 236.382)	С	

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Division: NEBRASKA Asset ID: BAANKYA

Subdivision: CRESTON Test Date: 02/03/2011

Location / Highway Name: M23B RH M1W 1B

County: MILLS State: IA

**Milepost (with Line Segment):** 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Switch Type:** Power-operated

Monthly Tests		
Test Description & Rule	Condition Left	
Obstruct Lock Rod - NORMAL (FRA 236.382)	С	
Obstruct Lock Rod - REVERSE (FRA 236.382)	С	

Quarterly Tests		
Test Description & Rule	Condition Left	
Circuit Controller Points - NORMAL (FRA 236.103)	С	
Circuit Controller Points - REVERSE (FRA 236.103)	С	
Shunt Fouling - Circuit Type: Fouling (FRA 236.104)	С	
Timing (SI 4.2)	N	

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Division:NEBRASKAAsset ID:BAANKYASubdivision:CRESTONTest Date:03/04/2011

Location / Highway Name: M23B RH M1W 1B

County: MILLS State: IA

**Milepost (with Line Segment):** 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Switch Type:** Power-operated

Monthly Tests		
Test Description & Rule	Condition Left	
Obstruct Lock Rod - NORMAL (FRA 236.382)	С	
Obstruct Lock Rod - REVERSE (FRA 236.382)	C	

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Division: NEBRASKA Asset ID: BAANKYA

Subdivision: CRESTON Test Date: 03/31/2011

Location / Highway Name: M23B RH M1W 1B

County: MILLS State: IA

Milepost (with Line Segment): 1 453.50 - 453.50

**Employee's Name:** Charles Moyers (cmoyers) **PARS Number:** SMTR0730

**Switch Type:** Power-operated

Monthly Tests		
Test Description & Rule	Condition Left	
Obstruct Lock Rod - NORMAL (FRA 236.382)	С	
Obstruct Lock Rod - REVERSE (FRA 236.382)	С	

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