

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

RECEIVED

NOLIN RURAL ELECTRIC)
COOPERATIVE CORPORATION)

MAY 12 2011

PUBLIC SERVICE
COMMISSION

CASE NO. 2011-00061

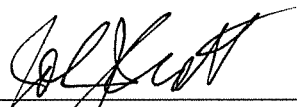
_____)
ALLEGED FAILURE TO COMPLY)
WITH KRS 278.042)

RESPONSE TO INFORMATION REQUESTED
AT INFORMAL CONFERENCE

Request: Hamilton Construction will provide to Nolin, and Nolin will file with the Commission, written documentation of the most recent dielectric test on each of Hamilton's work trucks.

Response: Nolin hereby files as Exhibits A-1 thru 10 written documentation provided by Hamilton as to the most recent dielectric tests on each of Hamilton's work trucks.

Respectfully submitted,



JOHN J. SCOTT
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CERTIFICATE

This is to certify that on May 12, 2011, an original and seven (7) copies of the attached Responses were sent by first class mail, postage prepaid and addressed for delivery to:

Mr. Jeff Derouen
Executive Director
~~Public Service Commission~~
P.O. Box 615
Frankfort, KY 40602-0615

and to

Mr. Rick Bertelson, Attorney
Public Service Commission
~~P.O. Box 615~~
Frankfort, KY 40602-0615



JOHN J. SCOTT
ATTORNEY FOR NOLIN RECC



P.O. Box 1717 - Louisville, KY 40201
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 Toll Free 888-540-0065
 Website: torcotesting.com



TESTING SERVICES, INC.

TEST REPORT # 2

CUSTOMER Hamilton Awer Line

STATE Ky TECH. Simpson

DATE 4/20/11 TIME 10:30 AM

TRUCK # 602 S/N 563405975540M MODEL LOM-55-2S LIFT-A-ALL

TEMP 60 °F R.H. 58 %

AC DIELECTRIC TEST
 ANSI/SIA A92.2 SECTION 5.4.3

STRUCTURAL ANALYSIS
 ANSI/SIA A92.2 8.2.4

VT - Visual Inspection
 ULT - Ultrasonic Test
 MT - Magnetic Particle Testing

AREA TESTED	APPLIED VOLTAGE KV/AC	TEST TIME MIN.	LEAKAGE MILLIAMPS	RESULTS	AREA TESTED	RESULTS	AREA TESTED	RESULTS
BASKET SHAFT TO LOWER BOOM	69	3	.098	PASSED	Accessible outrigger welds	VT	Accessible outrigger pins	ULT
LOWER BOOM INSERT	50	3	1.488	PASSED	Lower pedestal welds	VT	Anchor bolts	ULT
BASKET TO CHASSIS	69	3	.070	PASSED	Accessible cylinder block welds	VT/MT	Accessible turntable bolts	ULT
EXTENSIBLE BOOM					Welds at elbow	VT/MT	Lower boom hinge pin	ULT
BASKET LINER	35	1		PASSED	Welds at basket area	VT	Accessible cylinder pins	ULT
HYDRAULIC OIL	213			PASSED	Welds on head of boom	VT	Upper boom hinge pin	ULT
HOT STICKS					Boom support	VT	Basket shaft	
OTHER					Auger support brace		Auger hanger pins	
					Winch line hooks		Pintle hook	VT/MT
					Turret welds	VT/MT		

NONDESTRUCTIVE FIBERGLASS ANALYSIS	RESULTS

COMMENTS ON DIELECTRIC TEST

COMMENTS ON STRUCTURAL ANALYSIS

1) Bull & Pinion gears @ rotation are dry.

Exhibit A1

The test results reported herein reflect the condition of the equipment at the time and under the conditions stated herein, and Torco MAKES NO WARRANTIES, and DISCLAIMS ALL WARRANTIES, whether EXPRESS or IMPLIED, as to any matter whatsoever, including without limitation, the condition of the equipment tested, its merchantability or its fitness for any particular purpose. Structural Analysis is limited to accessible welds and pins. This is a test, not a guarantee.



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Torco
 TESTING SERVICES, INC.

TEST REPORT # 1
 CUSTOMER Hamilton Power Line

STATE Ky TECH. Simpson

DATE 4/20/11 TIME 8:30 AM

TRUCK # 109 S/N 1299BB1792

MODEL AM855

ALTEC

TEMP 62 ° F R.H. 59 %

VT - Visual Inspection
 ULT - Ultrasonic Test
 MT - Magnetic Particle Testing

STRUCTURAL ANALYSIS
 ANSISIA A92.2 8.2.4

AC DIELECTRIC TEST
 ANSISIA A92.2 SECTION 5.4.3

AREA TESTED	APPLIED VOLTAGE KVAC	TEST TIME MIN.	LEAKAGE MILLIAMPS	RESULTS	AREA TESTED	RESULTS	AREA TESTED	RESULTS
BASKET SHAFT TO LOWER BOOM	69	3	.295	PASSED	Accessible outrigger welds	VT	Accessible outrigger pins	ULT
LOWER BOOM INSERT	50	3	1.384	PASSED	Lower pedestal welds	VT	Anchor bolts	ULT
BASKET TO CHASSIS	69	3	.681	PASSED	Accessible cylinder block welds	VT, MT	Accessible turntable bolts	ULT
EXTENSIBLE BOOM					Welds at elbow	VT, MT	Lower boom hinge pin	ULT
BASKET LINER	35	1		PASSED	Welds at basket area	VT	Accessible cylinder pins	ULT
HYDRAULIC OIL	25.1			PASSED	Welds on head of boom	VT	Upper boom hinge pin	ULT
HOT STICKS					Boom support	VT	Basket shaft	ULT
OTHER					Auger support brace	VT	Auger hanger pins	ULT
					Winch line hooks	VT	Pintle hook	VT, MT
					Turret welds	VT, MT		
					NONDESTRUCTIVE FIBERGLASS ANALYSIS			

COMMENTS ON STRUCTURAL ANALYSIS

- ① Bull & pinion gears @ rotation are dry.
- ② Crack in corner of fiberglass bucket - marked w/ black marker.
- ③ Hyd. oil level is low.

COMMENTS ON DIELECTRIC TEST

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Exhibit A2



Torco TESTING SERVICES, INC.

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TEST REPORT # 3

CUSTOMER Hamilton Power Line STATE Ky TECH. Simpson DATE 4/20/11 TIME 12:30 PM

TRUCK # 60 S/N 4926059551LAN MODEL LAN-S1-2E LIFT-AID TEMP 59 °F R.H. 60 %

VT - Visual Inspection
ULT - Ultrasonic Test
MT - Magnetic Particle Testing

STRUCTURAL ANALYSIS
ANSI/SIA A92.2 8.2.4

AC DIELECTRIC TEST
ANSI/SIA A92.2 SECTION 5.4.3

AREA TESTED	APPLIED VOLTAGE KVAC	TEST TIME MIN.	LEAKAGE MILLIAMPS	RESULTS	AREA TESTED	RESULTS	AREA TESTED	RESULTS
BASKET SHAFT TO LOWER BOOM	69	3	.118	PASSED	Accessible outrigger welds	VT	Accessible outrigger pins	ULT
LOWER BOOM INSERT	50	3	.320	PASSED	Lower pedestal welds	VT	Anchor bolts	ULT
BASKET TO CHASSIS	69	3	.644	PASSED	Accessible cylinder block welds	VT, MT	Accessible turntable bolts	ULT
EXTENSIBLE BOOM					Welds at elbow	VT, MT	Lower boom hinge pin	ULT
BASKET LINER	35	1		PASSED	Welds at basket area	VT	Accessible cylinder pins	ULT
HYDRAULIC OIL	21.6			PASSED	Welds on head of boom	VT	Upper boom hinge pin	ULT
HOT STICKS					Boom support	VT	Basket shaft	ULT
OTHER					Auger support brace	VT	Auger hanger pins	ULT
					Winch line hooks	VT	Pinble hook	VT, MT
					Turret welds	VT, MT		

NONDESTRUCTIVE FIBERGLASS ANALYSIS

COMMENTS ON DIELECTRIC TEST

COMMENTS ON STRUCTURAL ANALYSIS

1) Bull & pinion gears @ rotation are dry

Exhibit A3

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TEST REPORT # 6

CUSTOMER Hamilton Power Line

STATE Ky TECH. Simpson

DATE 4/21/11 TIME 9:30 AM

TRUCK # 53 S/N 0200BB1857

MODEL Am 650

TEMP 49

° F R.H. 60 %

VT - Visual Inspection
ULT - Ultrasonic Test
MT - Magnetic Particle Testing

STRUCTURAL ANALYSIS
ANSI/SIA A92.2 8.2.4

AC DIELECTRIC TEST
ANSI/SIA A92.2 SECTION 5.4.3

AREA TESTED	APPLIED VOLTAGE KVAC	TEST TIME MIN.	LEAKAGE MILLIAMPS	RESULTS	AREA TESTED	RESULTS	AREA TESTED	RESULTS
BASKET SHAFT TO LOWER BOOM	69	3	.130	PASSED	Accessible outrigger welds	VT	Accessible outrigger pins	ULT
LOWER BOOM INSERT	50	3	.781	PASSED	Lower pedestal welds	VT	Anchor bolts	—
BASKET TO CHASSIS	69	3	.644	PASSED	Accessible cylinder block welds	VT, MT	Accessible turntable bolts	ULT
EXTENSIBLE BOOM					Welds at elbow	VT, MT	Lower boom hinge pin	ULT
BASKET LINER	35	1		PASSED	Welds at basket area	VT	Accessible cylinder pins	ULT
HYDRAULIC OIL	25.2			PASSED	Welds on head of boom	—	Upper boom hinge pin	—
HOT STICKS					Boom support	VT	Basket shaft	—
OTHER					Auger support brace	—	Auger hanger pins	—
					Winch line hooks	—	Pintle hook	VT, MT
					Turret welds	VT, MT		

NONDESTRUCTIVE FIBERGLASS ANALYSIS

COMMENTS ON DIELECTRIC TEST

COMMENTS ON STRUCTURAL ANALYSIS

① Buld & pinion gears @ rotation are dry.

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Exhibit A5



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Torco
 TESTING SERVICES, INC.

TEST REPORT # 9

CUSTOMER Hamilton Power Line STATE Ky TECH. SIMPSON DATE 4/6/11 TIME 2:45 PM

TRUCK # 80 S/N 1102DM0180 MODEL Am55 TEMP 65 °F R.H. 45 %

ALTEC

VT - Visual Inspection
 ULT - Ultrasonic Test
 MT - Magnetic Particle Testing

STRUCTURAL ANALYSIS
 ANSISIA A92.2 8.2.4

AC DIELECTRIC TEST
 ANSISIA A92.2 SECTION 5.4.3

AREA TESTED	APPLIED VOLTAGE KVAC	TEST TIME MIN.	LEAKAGE MILLIAMPS	RESULTS	AREA TESTED	RESULTS	AREA TESTED	RESULTS
BASKET SHAFT TO LOWER BOOM	69	3	.199	PASSED	Accessible outrigger welds	VT	Accessible outrigger pins	ULT
LOWER BOOM INSERT	50	3	1.290	PASSED	Lower pedestal welds	VT	Anchor bolts	—
BASKET TO CHASSIS	69	3	.346	PASSED	Accessible cylinder block welds	VT, MT	Accessible turntable bolts	ULT
EXTENSIBLE BOOM					Welds at elbow	VT, MT	Lower boom hinge pin	ULT
BASKET LINER	35	1		PASSED	Welds at basket area	VT	Accessible cylinder pins	ULT
HYDRAULIC OIL	24.3			PASSED	Welds on head of boom	—	Upper boom hinge pin	—
HOT STICKS					Boom support	VT	Basket shaft	—
OTHER					Auger support brace	—	Auger hanger pins	—
					Winch line hooks	—	Pintle hook	VT, MT
					Turret welds	VT, MT		
					NONDESTRUCTIVE FIBERGLASS ANALYSIS			

COMMENTS ON STRUCTURAL ANALYSIS

① Base of boom support is cracked on both sides
 Marked red

COMMENTS ON DIELECTRIC TEST

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Exhibit A7



TORCO

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STATE Ky TECH. Simpson

DATE 5/4/11 TIME 8:15 AM

TEST REPORT # 10

CUSTOMER Hamilton Power Line

TRUCK # 63 S/N 1189-10135

MODEL AA500

AC TEC

TEMP 45

° F R.H. 62 %

AC DIELECTRIC TEST
ANSI/SIA A92.2 SECTION 5.4.3

STRUCTURAL ANALYSIS
ANSI/SIA A92.2 8.2.4

VT - Visual Inspection
ULT - Ultrasonic Test
MT - Magnetic Particle Testing

AREA TESTED	APPLIED VOLTAGE KVAC	TEST TIME MIN.	LEAKAGE MILLIAMPS	RESULTS	AREA TESTED	RESULTS	AREA TESTED	RESULTS
BASKET SHAFT TO LOWER BOOM	69	3	323	PASSED	Accessible outrigger welds	VT	Accessible outrigger pins	ULT
LOWER BOOM INSERT	50	3	840	PASSED	Lower pedestal welds	VT	Anchor bolts	ULT
BASKET TO CHASSIS	69	3	681	PASSED	Accessible cylinder block welds	VT, MT	Accessible turntable bolts	ULT
EXTENSIBLE BOOM					Welds at elbow	VT, MT	Lower boom hinge pin	ULT
BASKET LINER	35	1		PASSED	Welds at basket area	VT	Accessible cylinder pins	ULT
HYDRAULIC OIL	26.8			PASSED	Welds on head of boom	VT	Upper boom hinge pin	ULT
HOT STICKS					Boom support	VT	Basket shaft	
OTHER					Auger support brace	VT	Auger hanger pins	
					Winch line hooks	VT, MT	Pintle hook	VT, MT
					Turret welds			

NONDESTRUCTIVE FIBERGLASS ANALYSIS				COMMENTS ON STRUCTURAL ANALYSIS			
RESULTS				RESULTS			
COMMENTS ON DIELECTRIC TEST				COMMENTS ON STRUCTURAL ANALYSIS			

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Exhibit A8



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Torco
 TESTING SERVICES, INC.

TEST REPORT # 11
 CUSTOMER Hamilton Power Line

STATE Ky TECH. Simpson

DATE 5/4/11 TIME 9:45 AM

TRUCK # 57 S/N 0588-J2106

MODEL AA-500 TEMP 50 °F R.H. 64 %

ALTEC

VT - Visual Inspection
 ULT - Ultrasonic Test
 MT - Magnetic Particle Testing

STRUCTURAL ANALYSIS
 ANSISIA A92.2 8.2.4

AC DIELECTRIC TEST
 ANSISIA A92.2 SECTION 5.4.3

AREA TESTED	APPLIED VOLTAGE KVAC	TEST TIME MIN.	LEAKAGE MILLIAMPS	RESULTS	AREA TESTED	RESULTS	AREA TESTED	RESULTS
BASKET SHAFT TO LOWER BOOM	69	3	.314	PASSED	Accessible outrigger welds	VT	Accessible outrigger pins	ULT
LOWER BOOM INSERT	50	3	1.819	PASSED	Lower pedestal welds	VT	Anchor bolts	ULT
BASKET TO CHASSIS	69	3	.899	PASSED	Accessible cylinder block welds	VT, MT	Accessible turntable bolts	ULT
EXTENSIBLE BOOM					Welds at elbow	VT, MT	Lower boom hinge pin	ULT
BASKET LINER	35	1		PASSED	Welds at basket area	VT	Accessible cylinder pins	ULT
HYDRAULIC OIL	24.8			PASSED	Welds on head of boom		Upper boom hinge pin	ULT
HOT STICKS					Boom support	VT	Basket shaft	
OTHER					Auger support brace		Auger hanger pins	
					Winch line hooks		Pintle hook	VT, MT
					Turret welds	VT, MT		

NONDESTRUCTIVE FIBERGLASS ANALYSIS

COMMENTS ON DIELECTRIC TEST

COMMENTS ON STRUCTURAL ANALYSIS

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STATE Ky TECH. Simpson

TEST REPORT # 12

CUSTOMER Hamilton Power Line

DATE 5/4/11 TIME 11:30 AM

MODEL AM 600H ALTEC TEMP 56 °F R.H. 59 %

TRUCK # 29 S/N 0295-82778

VT - Visual Inspection
 ULT - Ultrasonic Test
 MT - Magnetic Particle Testing

STRUCTURAL ANALYSIS
 ANS/SIA A92.2 8.2.4

AC DIELECTRIC TEST
 ANS/SIA A92.2 SECTION 5.4.3

AREA TESTED	APPLIED VOLTAGE KVAC	TEST TIME MIN.	LEAKAGE MILLIAMPS	RESULTS	AREA TESTED	RESULTS	AREA TESTED	RESULTS
BASKET SHAFT TO LOWER BOOM	69	3	.106	PASSED	Accessible outrigger welds	VT	Accessible outrigger pins	ULT
LOWER BOOM INSERT	50	3	.694	PASSED	Lower pedestal welds	VT	Anchor bolts	ULT
BASKET TO CHASSIS	69	3	.077	PASSED	Accessible cylinder block welds	VT, MT	Accessible turntable bolts	ULT
EXTENSIBLE BOOM					Welds at elbow	VT	Lower boom hinge pin	ULT
BASKET LINER	35	1		PASSED	Welds at basket area	VT	Accessible cylinder pins	ULT
HYDRAULIC OIL	22.3			PASSED	Welds on head of boom	VT	Upper boom hinge pin	ULT
HOT STICKS					Boom support	VT	Basket shaft	ULT
OTHER					Auger support brace	VT	Auger hanger pins	ULT
					Winch line hooks	VT	Pintle hook	VT, MT
					Turret welds	VT, MT		
					NONDESTRUCTIVE FIBERGLASS ANALYSIS			
COMMENTS ON DIELECTRIC TEST					COMMENTS ON STRUCTURAL ANALYSIS			