

Appendix A

PUC Safety Division

Maps of Electrical

Accident of

April 19, 2014

Appendix A 1

PSNH Keene Fatality - 4/19/2014



Area Overview - Keene, NH

Drawn: July 18, 2014

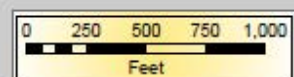


Prepared By:
NH Public Utilities Commission
Safety Division ; GIS Section



Legend

Town Boundary	NH Route	Substation
Stream/Brook	US Route	115 kV Line
Water Feature	Ramp	12.5 kV Line
Road	Driveway	4.16 kV Line
Interstate	Rail/Rail Bed	12.5 kV Line (Underground)

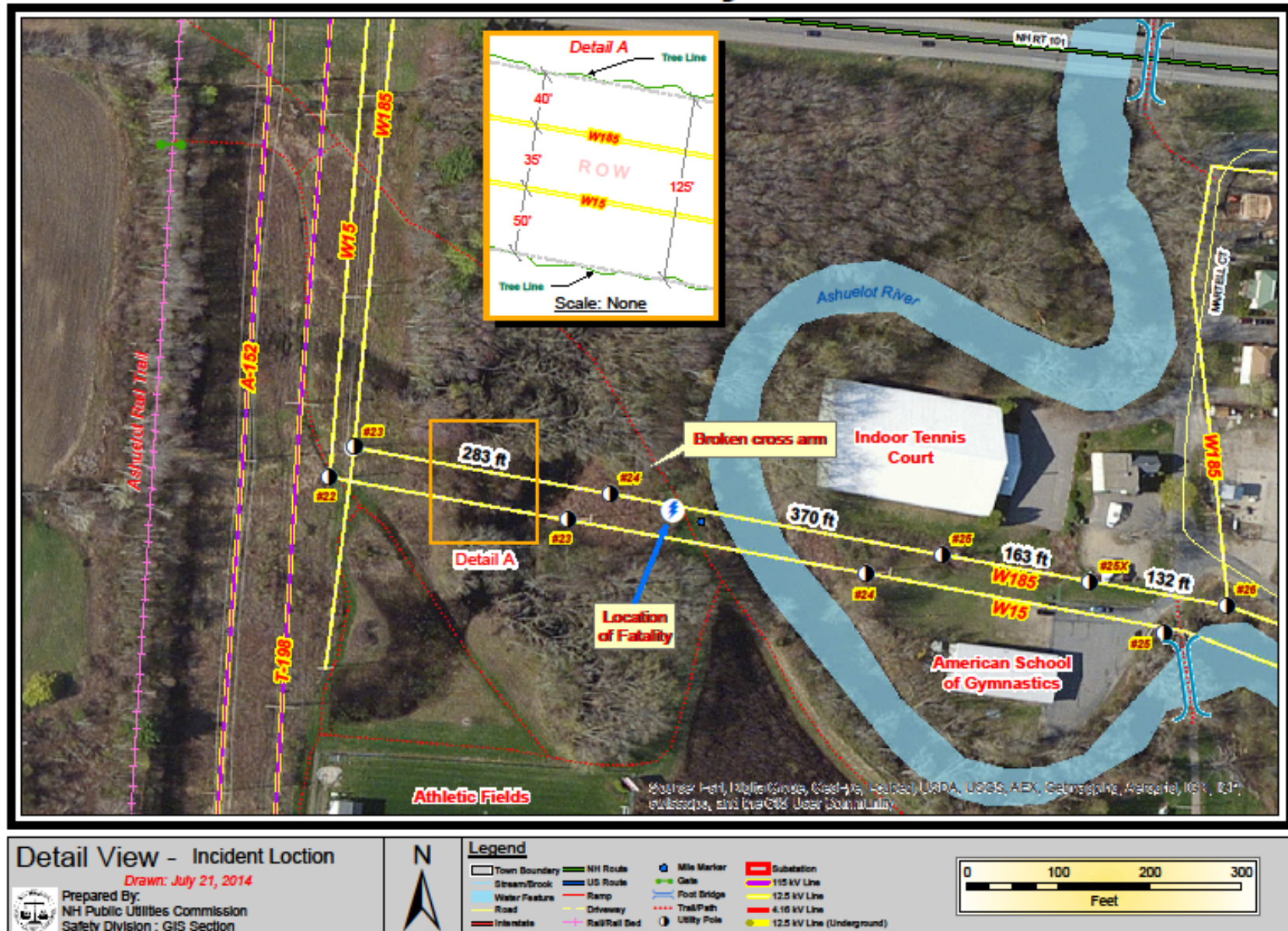


Appendix A 2

PSNH Keene Fatality - 4/19/2014

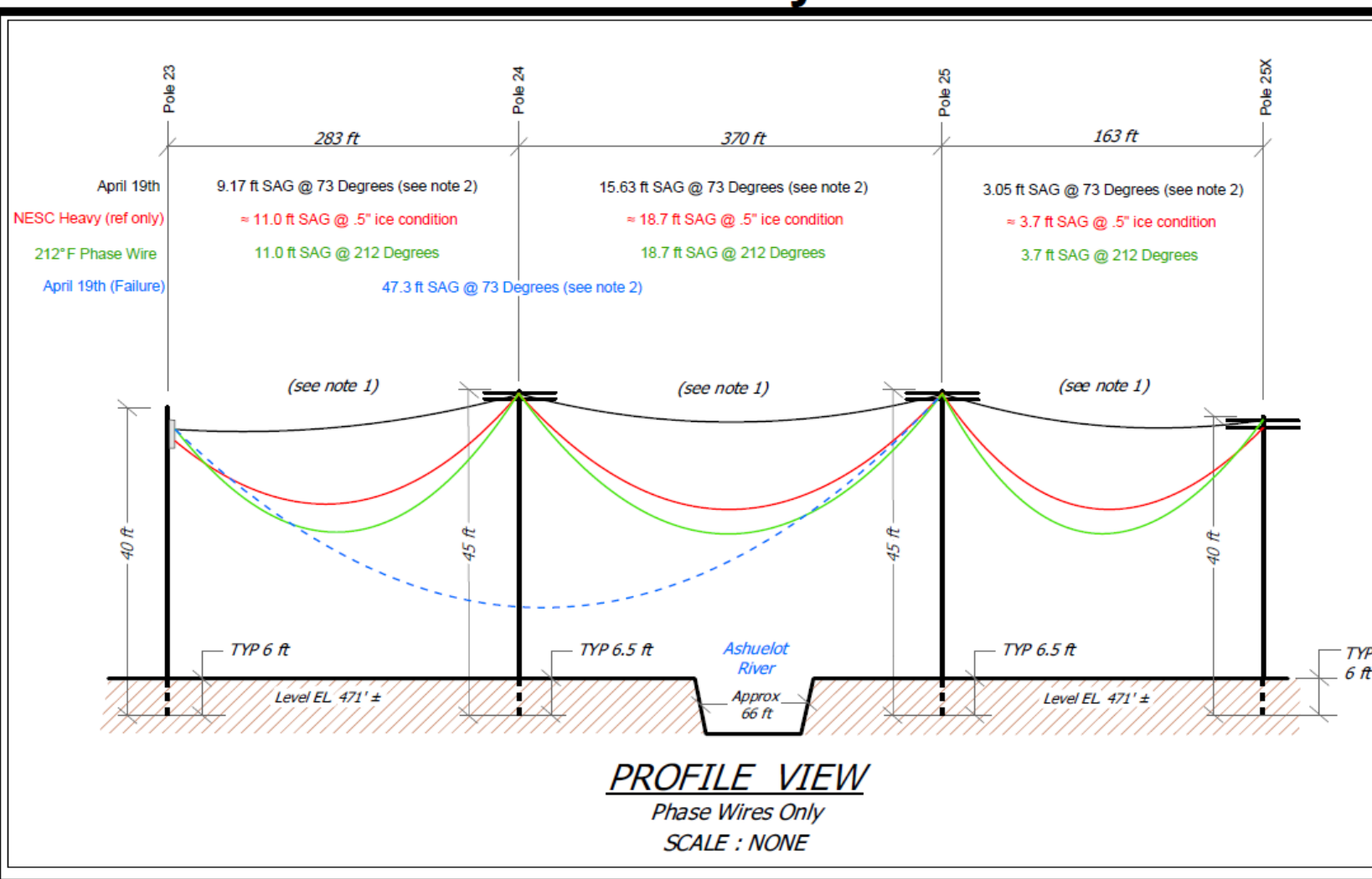


PSNH Keene Fatality - 4/19/2014



Appendix A 4

PSNH Keene Fatality - 4/19/2014



Profile View for Phase Wires

- Incident Location -



Prepared By:
NH Public Utilities Commission
Safety Division ; GIS Section

Notes:

1. Neutral wires not shown - Typ 5 - 6 ft below crossarm.
2. 73 degrees is based on a 57 degree ambient temperature.
3. Data and dimensions were obtained from PSNH report received by the NHPUC

Appendix B

April 19, 2014 and April 21, 2014

Photo Documentation

Electrical Contact PSNH W185 Circuit

Keene NH

Photo B 1-1



Photo B 1-1 Taken April 19, 2014 prior to electrical contact being made and recovered from deceased's camera. Looking westerly, this is Pole 24 of W185; the broken cross arm is hanging in the air. Phase 1 conductor is missing as well as insulators. Lowest wire is the neutral. Phases 2 and 3 are remain intact. The double cross arm is supported by the metal V shape supports.

Photo B 1-2



Photo B 1-2 Taken April 19, 2014 prior to electrical contact being made and recovered from deceased's camera. Looking easterly phase 1 conductor of W185 is low to the ground but is above the Ashuelot River. Mile Marker Post of the walking trail is located nearby. The remaining poles of Circuit W185 are shown beyond the river and W 15 is shown to the right. The building to the left is the Indoor Tennis Courts and the building in the rear right is the American School of Gymnastics.

Photo B 1-3



Photo B-1-3 Taken April 19 2014 prior to electrical contact and recovered from deceased's camera. One can see the green colored conductor 4/0 wire approximately 2 feet above the ground. Photo is looking northerly. Ashuelot River is to the east and PSNH Pole 24 is outside the picture looking west.

Photo B 2-4



Photo B 2-4 This photo taken on the day of the electrical contact after the Fire Marshal arrived shows the W185 phase 1 conductor is missing from the double crossarm (attached to both sides of poles) that is completely broken and rotted. The conductor and supporting insulator is missing from the photo as it laying near the ground (see Photo B 2-5). *Photo courtesy of NH State Fire Marshal's Office taken April 19 2014*

Photo B 2-5



Photo B 2- 5 Close up of insulators from W185 phase 1 and portion of cross arm and conductor laying near bottom of pole 24. Insulators still attached to conductor but have completely pulled out from wooden cross arms. Spool of wire used for repair of guy wire is shown at left. *Photo courtesy of NH State Fire Marshal's Office taken April 19 2014*

Photo B 2-6



Photo B 2-6 Taken day of electrical contact April 19 2014. Looking southerly displaying area of brush fire. *Photo courtesy of NH State Fire Marshal's Office taken April 19 2014*

Photo B 2-7



Photo B 2-7 Taken day of electrical contact April 19 2014. Looking easterly; displaying area of brushfire. Phase 1 conductor at the ground level. PSNH Work Crew had arrived on scene after contact occurred. Boom Truck is background. Insulators are on ground at base of Pole 24 of W185. Circuit W 15 is shown with all 3 phases intact. *Photo courtesy of NH State Fire Marshal's Office*

Photo B 2-8



Photo B 2-8 Taken day of electrical contact April 19 2014. Electrical Contact Area near the trail opening between brush area 1 and brush area 2. *Photo courtesy of NH State Fire Marshal's Office taken April 19 2014*

Photo B 2-9



Photo B 2-9 Taken day of electrical contact April 19 2014. Another view of Electrical Contact Area near the trail opening between brush area 1 and brush area 2. *Photo courtesy of NH State Fire Marshal's Office taken April 19 2014*

Photo B 2-10



Photo B 2-10 Taken day of electrical contact April 19 2014. Third photo of Electrical Contact Area near the trail opening between brush area 1 and brush area 2 . *Photo courtesy of NH State Fire Marshal's Office taken April 19 2014*

Photo B 3-11



Photo B 3-11 Taken April 19, 2014 after contact was made. Looking South on the trail area brush area 2 is shown on the left while brush area 1 is on the right. The marker post is shown on the left side. The contact area is in the middle. *Photo provided by Public Service Co of New Hampshire*

Photo B 3-12



Photo B 3-12 Taken April 19, 2014 after contact was made. Looking North on the trail area brush area 1 is shown on the left while brush area 2 is on the right. The marker post is shown on the right side. The contact area is in the middle. *Photo provided by Public Service Co of New Hampshire*

Photo B 3-13



Photo B 3-13 Taken April 19, 2014 after contact was made. Looking North on the trail area approaching the contact area. The contact area is in the darker area in the middle. *Photo provided by Public Service Co of New Hampshire*

Photo B 3-14



Photo B 3-14 Taken April 19, 2014 after contact was made. Closeup of the contact area. The primary conductor is of Phase 1 for W185 is approximately 24 inches above ground level. *Photo provided by Public Service Co of New Hampshire*

Photo B 3-15



Photo B 3-15 Taken April 19, 2014 after contact was made. Closeup of the contact area and the primary conductor is of Phase 1 for W185. Discolored area of conductor is where contact was made.
Photo provided by Public Service Co of New Hampshire

Photo B 3-16



Photo B 3-16 Taken April 19, 2014 after contact was made. Collapse and failure of cross arm for Pole 24 of W185. Phase 2 and 3 conductors and insulators are intact. *Photo provided by Public Service of New Hampshire*

Photo B 3-17

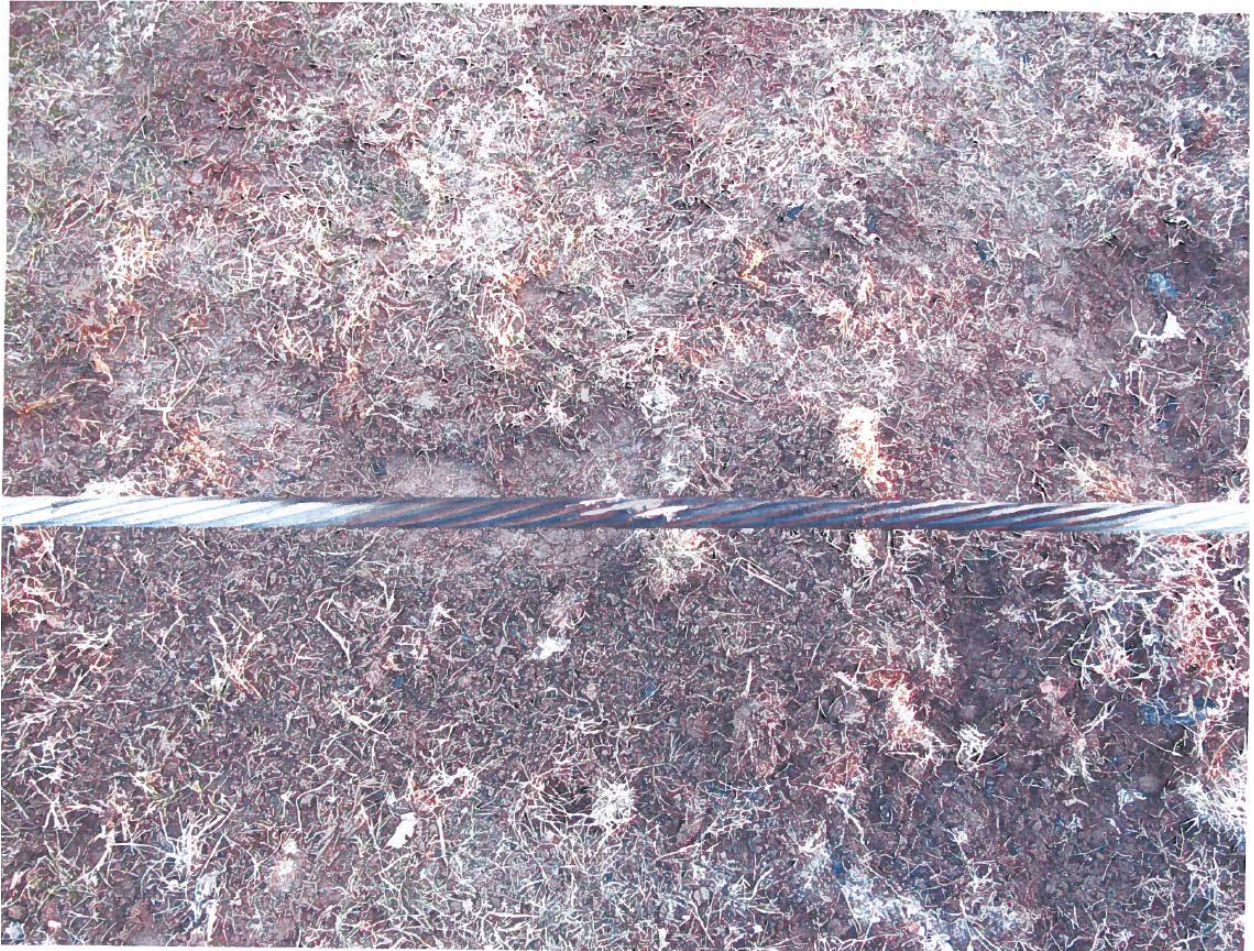


Photo B 3-17 Taken April 19, 2014 after contact was made. Close up of primary conductor rated for 7,200 volts and contact area. *Photo provided by Public Service of New Hampshire*

Photo B 3-18



Photo B 3-18 Taken April 19, 2014 after contact was made. Eastern side of cross arm for Pole 24 of W185. Phase 1 conductor and insulator are near the base of the wooden pole. Lower wire is the neutral wire. Upper wire is the phase 2 conductor. *Photo provided by Public Service of New Hampshire*

Photo B 3-19



Photo B 3-19 Taken April 19, 2014 after contact was made. Taken from below Pole 24 of W185. Looking northerly, phase 1 conductor and insulator are near the base of the wooden pole. Based on angle of camera the upper wire is phase 2 conductor, the middle wire is neutral and the lowest wire is the phase 3 conductor. *Photo provided by Public Service of New Hampshire*

Photo B 3-20



Photo B 3-20 Taken April 19, 2014 after contact was made. Western side of cross arm for Pole 24 of W185. Phase 1 conductor and insulator are near the base of the wooden pole. Phase 3 conductor is on the left side. Guy wire is second most left wire as shown. Neutral is on the foremost right side.

Photo provided by Public Service of New Hampshire

Photo B 4-21



Photo B 4-21 Taken April 21, 2014. Restored and repaired double cross arm on Pole 24 of W185. Phase 1 conductor is nearest the end of the cross arm and shows clearly on the new insulators.

Photo taken by NHPUC Safety Division

Photo B 4-22



Photo B 4-22 Taken April 21, 2014. Components of failed double cross arm on Pole 24 of W185 on floor of Keene Area Work Center. Insulators, removed conductor (3 ft), broken cross arm and supports *Photo taken by NHPUC Safety Division*

Photo B 4-23



Photo B 4-23 Taken April 21, 2014. Remnants of failed double cross arm on Pole 24 of W185 on floor of Keene Area Work Center. Wood Rot is evident, bolts will no longer hold brackets on broken cross arm and supports *Photo taken by NHPUC Safety Division*

Photo B 4-24



Photo B 4-24 Taken April 21, 2014. Remnants of failed double cross arm on Pole 24 of W185 on floor of Keene Area Work Center. Insect damage and wood rot witnessed on decayed broken cross arm and supports *Photo taken by NHPUC Safety Division*

Photo B 4-25



Photo B 4-25 Taken April 21, 2014. Removed failed double cross arm on Pole 24 of W185 on floor of Keene Area Work Center. *Photo taken by NHPUC Safety Division*

Photo B 4-26

4/19/14 MARTEL CT / KEENE STATE COLLEGE INCIDENT.

Appendix

Accident Investigation Physical Evidence Log Form

Item Tag Number	Evidence Description	Original Location	Where Stored	Inventoried & Tagged by (name, signature/ Date/Time)	Acknowledgements of Transfer	
					Released by: (Name/Signature/ Date/Time)	Received by: (Name/Signature/ Date/Time)
✓ 1	WIRE	Pole 185 / 24	KEENE AWC MEETING RM.	MIKE LAFFORD 4/20/14 10:35AM		
✓ 2	East Insulator	"	KEENE AWC MEETING RM.	MIKE LAFFORD 4/20/14 10:35AM		
✓ 3	West Insulator	"	KEENE AWC MEETING RM.	MIKE LAFFORD 4/20/14 10:35AM		
✓ 4	East cross arm	"	KEENE AWC MEETING RM.	MIKE LAFFORD 4/20/14 10:35AM		
✓ 5	West cross arm	"	KEENE AWC MEETING RM.	MIKE LAFFORD 4/20/14 10:35AM		

Safety Division

Photo B 4-26 Taken April 21, 2014. Catalog of Identified components East and West Crossarms, Removed Wire and insulators from Pole 24 of W185 at Keene Area Work Center. Photo taken by NHPUC Safety Division

Photo B 4-27



Photo B 4-27 Taken April 21, 2014. Removed failed double cross arm on Pole 24 of W185 on floor of Keene Area Work Center. *Photo taken by NHPUC Safety Division*

Appendix C

January 15, 2014

PSNH Maintenance Record

Pole 24 W185 Circuit

Keene NH

Line Number W-185 (Old Line Number _____)

Inspection Date 1/15/2004

Structure Number P-24 (Old Str. Number _____)

Pole Position Left (L) Middle (M) Right (R)

Other _____

Inspector, Company Paul Korman, A.T.E. + CO.

34.5 kV

Structure Type: (Circle - Sketch Type Below or on Back)

Additional Structure Info. (check if estimated or actual with information)

Height/Class: _____ Est. _____ Actual _____

Year: _____ Est. _____ Actual _____

Mfr: _____ Est. _____ Actual _____

Treatment Tag Yr.: _____ Treat: _____

Angle Structure? Yes _____ No _____

Dead End Structure? Yes _____ No _____

No Tags Found _____

M	M	L R	M	M	L M R	
Tangent-Angle	Tangent	Tangent-Angle	Angle	Angle	Dead End Angle	Other
"A" - 0°	"C"	Long Spans	"SB 1" 12-25°	"DEB"	"DA"	
"DX to 12°	Transposition	"Special H"	"SB 2" 25-45°	+ 60°	+ 50°	
"DE to 15°		"E"	"SB 3" 45-60°			

ABOVE ILLUSTRATIONS LOOKED DOWN THE LINE (Structure No. 1 ignored) Draw in all other types not shown, i.e.: X bracing, X bracing, etc.

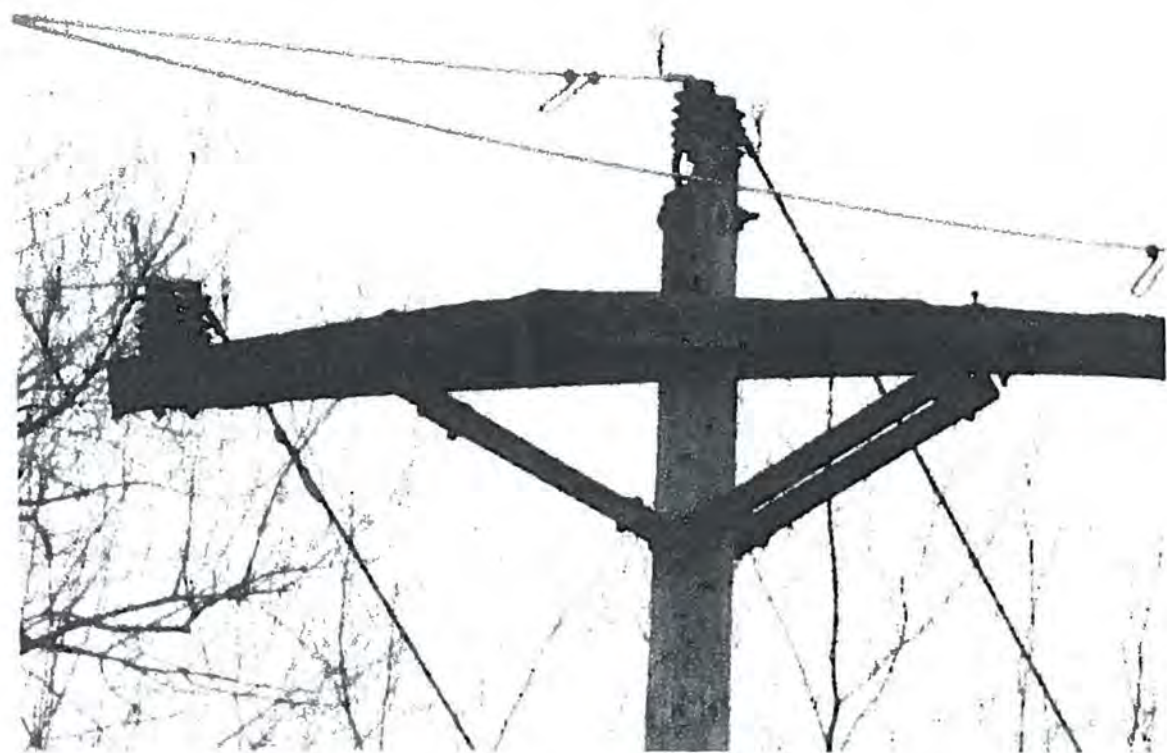
Indicate the following Pole Conditions: (Check appropriate item or write in "Remarks", N/A = Not Applicable)

Pole Top	OK <input checked="" type="checkbox"/>	N/A <input checked="" type="checkbox"/>	Remarks	
Static Wire	OK <input checked="" type="checkbox"/>	N/A <input checked="" type="checkbox"/>	Remarks	
Conductor	OK <input checked="" type="checkbox"/>	N/A <input checked="" type="checkbox"/>	Remarks	
Neutral	OK <input checked="" type="checkbox"/>	N/A <input checked="" type="checkbox"/>	Remarks	
* Cross Arm (s)	OK <input checked="" type="checkbox"/>	N/A <input checked="" type="checkbox"/>	Remarks	<u>Broken Cross Arm</u>
Cross Arm Bracket (s)	OK <input checked="" type="checkbox"/>	N/A <input checked="" type="checkbox"/>	Remarks	
Insulators	OK <input checked="" type="checkbox"/>	N/A <input checked="" type="checkbox"/>	Remarks	
Insulator Connection (s)	OK <input checked="" type="checkbox"/>	N/A <input checked="" type="checkbox"/>	Remarks	
Cross Bracing (s)	OK <input checked="" type="checkbox"/>	N/A <input checked="" type="checkbox"/>	Remarks	
Guy Banding	OK <input checked="" type="checkbox"/>	N/A <input checked="" type="checkbox"/>	Remarks	
* Guy Wire (s)	OK <input checked="" type="checkbox"/>	N/A <input checked="" type="checkbox"/>	Remarks	<u>1 guy loose + 1 guy broken</u>
Ground Line Area	OK <input checked="" type="checkbox"/>	N/A <input checked="" type="checkbox"/>	Remarks	
Grounding	OK <input checked="" type="checkbox"/>	N/A <input checked="" type="checkbox"/>	Remarks	
Guy Anchor (s)	OK <input checked="" type="checkbox"/>	N/A <input checked="" type="checkbox"/>	Remarks	
Overall Pole Condition	OK <input checked="" type="checkbox"/>	N/A <input checked="" type="checkbox"/>	Remarks	

Additional Remarks, Abnormal Conditions, etc. _____

Best Access to this structure: _____

(Note: Each Pole on multi pole structures must have its own report sheet)



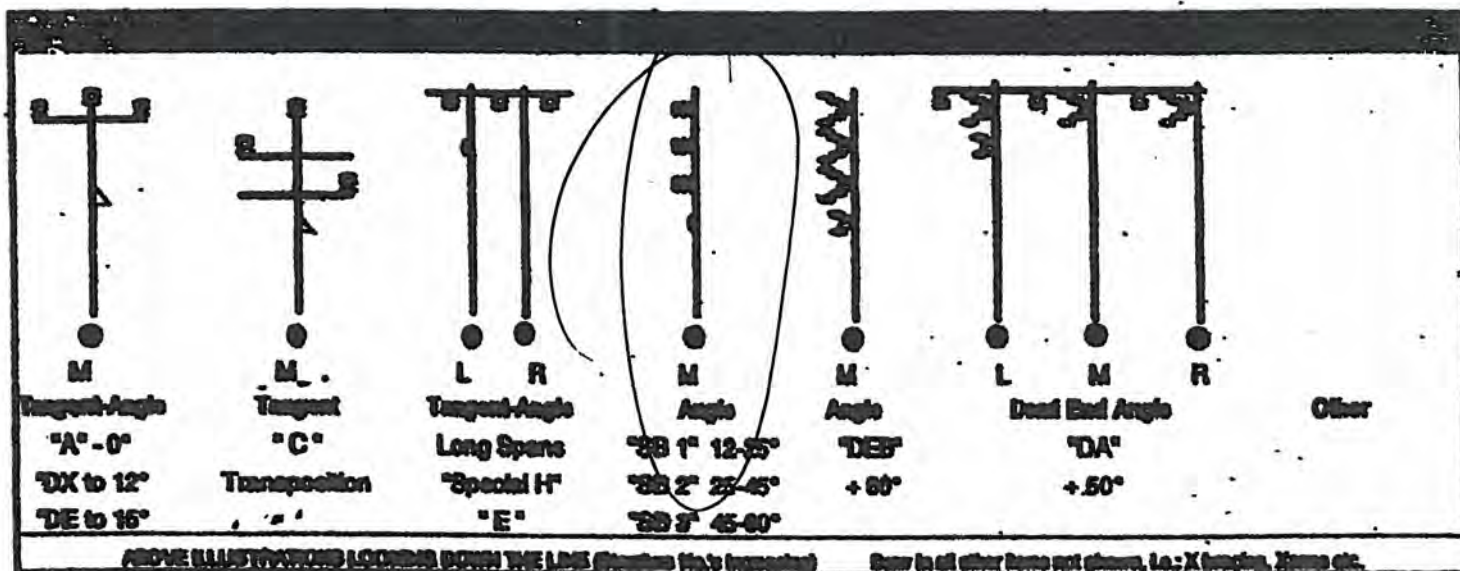
Line Number W-185 (Old Line Number) Inspection Date 1-15-1984
 Structure Number P-23 (Old Str. Number) Inspector Paul Fortin A.T.E. & CO.
 Pole Position: Left (L) Middle (M) ✓ Right (R) Inspector's Company
 Other

34.5 kV

Structure Type: (Circle - Sketch Type Below or on Back)

Additional Structure Info. (check if estimated or actual birth information)

Height/Class: Est. Actual Angle Structure? Yes No
 Year: Est. Actual Dead End Structure? Yes No
 Mfr: Est. Actual
 Treatment Tag Yr.: Tension: No Tags Found



ABOVE ILLUSTRATIONS LOOKING DOWN THE LINE (Structure No. 1 is nearest)

Draw in all other items not shown, i.e.: X bracing, Xmas etc.

Indicate the following Pole Conditions: (Check appropriate item or write in "Remarks", N/A = Not Applicable)

Pole Top	OK <u>✓</u>	N/A <u> </u>	Remarks	<u> </u>
Static Wire	OK <u> </u>	N/A <u>✓</u>	Remarks	<u> </u>
Conductor	OK <u>✓</u>	N/A <u> </u>	Remarks	<u> </u>
Neutral	OK <u>✓</u>	N/A <u> </u>	Remarks	<u> </u>
Cross Arm (s)	OK <u>✓</u>	N/A <u> </u>	Remarks	<u> </u>
Cross Arm Bracket (s)	OK <u>✓</u>	N/A <u> </u>	Remarks	<u> </u>
Insulators	OK <u>✓</u>	N/A <u> </u>	Remarks	<u> </u>
Insulator Connection (s)	OK <u>✓</u>	N/A <u> </u>	Remarks	<u> </u>
Cross Bracing (s)	OK <u> </u>	N/A <u>✓</u>	Remarks	<u> </u>
Guy Banding	OK <u>✓</u>	N/A <u> </u>	Remarks	<u> </u>
Guy Wire (s)	OK <u>✓</u>	N/A <u> </u>	Remarks	<u>5 wood strains on guy wires</u>
Ground Line Area	OK <u> </u>	N/A <u>✓</u>	Remarks	<u> </u>
Grounding	OK <u> </u>	N/A <u>✓</u>	Remarks	<u> </u>
Guy Anchor (s)	OK <u>✓</u>	N/A <u> </u>	Remarks	<u> </u>
Overall Pole Condition	OK <u>✓</u>	N/A <u> </u>	Remarks	<u> </u>
	OK <u> </u>	N/A <u> </u>	Remarks	<u> </u>

Additional Remarks, Abnormal Conditions, etc.

Best Access to this structure:

(Note: Each Pole on multi pole structures must have its own report sheet)

Week Ending : October 11, 2008

Public Service New Hampshire
Test and Treat Report

Inspection Company: UPT
Crew Number: 094132
Foreman: Aaron Jones
Supervisor: Mark Schroeder

Circuit: W185

ROW

Tag No.	Type	Yr Set	Cl	Ht	Mfg	Species	Org Trt	Org G/L	Eff G/L	Insp Type	Extras	LYT	LTB	LTT	Decay Zn/Ty	Insp Date	Visual Safety	Status
63	S	47E	3E	40E	KOP	SP	C	36	36	T	GPS	00	UPT	TE		10/07/2008		
					42.55.330		072.15.847		0		0							
47L	S	62	3E	55	UNK	WC	P	42	42	T	GPS	00	UPT	TE		10/07/2008		
					42.55.049		072.15.965		0		0							
46R	S	62	3E	55E	UNK	WC	P	45	45	T	GPS	00	UPT	TE		10/07/2008		
					42.55.989		072.15.983		0		0							
46M	S	62	3E	55E	UNK	WC	P	43	43	T	GPS	00	UPT	TE		10/07/2008		
					42.54.989		072.15.983		0		0							
46L	S	62	3E	55E	UNK	WC	P	46	46	T	GPS	00	UPT	TE		10/07/2008		
					42.54.989		072.15.983		0		0							
46X	S	94	3E	45	KOP	SP	P	38	38	T	GPS	00	UPT	TE		10/07/2008		
					42.55.022		072.15.972		0		0							
47R	S	62	3E	55	UNK	WC	P	41	41	T	GPS	00	UPT	TE		10/07/2008		
					42.55.049		072.15.965		0		0							
66	S	79	3E	35	KOP	SP	P	35	35	T	GPS	00	UPT	TE		10/07/2008		
					42.55.361		072.15.805		0		0							
22	S	88	3E	45E	UNK	WC	P	43	43	T	GPS	00	UPT	TE		10/08/2008		
					42.55.271		072.17.042		0		0							
24	S	69	3	45	UNK	SP	C	38	38	T	GPS	00	UPT	TE		10/08/2008		
					42.55.232		072.16.980		0		0							
25	S	56E	3E	40E	UNK	SP	C	35	35	V	GPS	N	NONE	NO		10/08/2008		
					42.55.219		072.16.898		0		0							
																		C:NO ACCESS OVERGROW
21	S	72E	3E	55E	UNK	WC	P	47	47	T	GPS	00	UPT	TE		10/08/2008		
					42.55.304		072.17.037		0		0							

Report Created:
10/15/200 4:55:19PM

Week Ending : October 11, 2008

**Public Service New Hampshire
Test and Treat Report**

Inspection Company: UPT
Crew Number: 094132
Foreman: Aaron Jones
Supervisor: Mark Schroeder

Circuit: W185

ROW

Tag No.	Type	Yr Set	Cl	Ht	Mfg	Species	Org Trt	Org G/L	Eff G/L	Insp Type	Extras	LYT	LTB	LTT	Decay Zn/Ty	Insp Date	Visual Safety	Status
19	S	79	2	50	UNK	WC	P	46	46	T	GPS	00	UPT	TE		10/08/2008		
					42.55.398		072.17.030		0		0							
18	S	68	3	45	UNK	WC	P	46	46	T	GPS	00	UPT	TE		10/08/2008		
					42.55.420		072.17.029		0		0							
20	S	79	2	55E	UNK	WC	P	48	48	T	GPS	00	UPT	TE		10/08/2008		
					42.55.356		072.17.032		0		0							
23	S	62	3	45E	UNK	SP	C	36	36	T	GPS	00	UPT	TE		10/08/2008		
					42.55.239		072.17.041		0		0							
17	S	68	3	45	UNK	WC	P	43	43	T	GPS	00	UPT	TE		10/08/2008		
					42.55.445		072.17.055		0		0							

Appendix D

March 19, 2014

MUST Safety Training

Keene NH



Communication
Cooperation
Education
Safe Excavation

KESGNTS 55

Be Prepared to Work Safely this Spring.
Join us at a Free Excavation Safety
Breakfast Seminar.

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Bangor Hydro Electric	National Grid
Bangor Gas	NH Gas
Central Maine Power	NH PUC
Champagne's Energy	NStar
Columbia Gas of Massachusetts	On Target Utility Services
Comcast	PNCTS
Common Ground Alliance	Portland-Montreal Pipe Line
Dig Safe	Propane Gas Association of New England
Dig Smart of Maine	Public Service of NH
ENPRO	R. H. Foster
ETTI	RI PUC
Exxon/Mobil	Spectra Energy
FairPoint Communications	Summit Natural Gas of Maine
Kinder Morgan/Tennessee Gas Pipeline	Tennessee Gas Pipeline
Liberty Utilities	Unitil
M&N Operating Co.	Verizon
Maine PUC	Vermont DPS

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Wilmington, MA 01897



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3/26/14 SACO
Ramada Inn
352 North Street

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ISLE**
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Community College
33 Edgemont Drive

4/16/14 AUGUSTA
Augusta Civic Center
76 Community Drive

MASSACHUSETTS

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Press 1, then ext. 1560

3/3/14 PEABODY
Holiday Inn
1 Newbury Street
(Route 1)

3/4/14 SPRINGFIELD
Basketball Hall of Fame
1000 Hall of Fame Ave

3/5/14 TAUNTON
Holiday Inn
700 Myles Standish Blvd

3/6/14 HAVERHILL
DiBurro's Function Facility
887 Boston Road

3/13/14 DEVENS
Devens Common Center
31 Andrews Parkway

NEW HAMPSHIRE

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or 888-883-MUST

3/17/14 NASHUA
Crowne Plaza Hotel
2 Somerset Parkway

3/18/14 WHITEFIELD
Mountainview Grand Hotel
101 Mountain View Road

3/19/14 KEENE
Keene State College
229 Main Street

3/20/14 HAMPTON
Ashworth by the Sea
295 Ocean Boulevard

RHODE ISLAND

Sign up at must-ne.com
or 800-698-0940
Press 1, then ext. 1560

3/11/14 WARWICK
Radisson Hotel
2081 Post Road

VERMONT

Sign up at must-ne.com
or 802-951-0370

4/1/13 MIDDLEBURY
Middlebury Inn
14 Court Square

4/2/14 BURLINGTON
Doubletree Hilton Hotel
1117 Williston Road

4/3/14 SAINT ALBANS
St. Albans Historical
Museum - Bliss Center
9 Church Street

2014 Safety Breakfast Seminars

Before the start of the busy construction season, prepare your crew for working safely around our growing underground infrastructure.

Hear from the experts to learn more about:

- Potential hazards of utility damage
- Damage Prevention laws and rules
- Dig Safe notification procedures
- Common Ground Alliance's Best Practices
- Working safely around underground electric, gas transmission and distribution, propane and communications facilities
- Marking techniques for proposed excavation sites and underground facilities
- Excavator impact and experience
- Enforcement and regulation

Registration 7:00am; Breakfast 7:30am, Program 8:00am.



MUST

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MARCH 19, 2014 KEENE, NH

Company	Name	registered	attended
BDM Sweeper Swervice Inc	Matthew Robinson	3	2
Berg Contracting	Joel Berg	5	
Comcast	Ivan Peelle	1	1
D.R. Key Corp	Dana Key	2	
keene state	Donald Sherrick	1	1
Keene State College	William Rymes	1	
Keene state College	Elena Knorr	1	1
Keene State College	Nathan DeMond	1	1
Keene State College	Bud Winsor	1	1
Keene State College	Geoff Davis	1	1
keene state college	Joe Britton	1	1
Keene State College	Scott Evans	1	1
Keene State College	Dee Denehy	1	1
Keene State College	Brendan Woods	1	1
keene state college	Kennth Maynard	1	1
KSC	Doug Adler	1	1
Larry Hill Construction	Larry Hill	2	3
LJM Construction LLC	John Cooper	8	
McElreavys Property management	Keith McElreavy	2	1
MONADNOCK SEPTIC DESIGN LLC	Scott & Carl Hagstrom	2	2
NH Fish & Game	Alan Moody	4	2
NHDOT	Julie Kroupa	10	10
North Swanzey Water & Fire Precinct	Sly Karasinski	1	1
On Target Services	Craig Weed	1	
RH WHITE			1
Phil Caron Trucking & Excavating	Dana Caron	1	
S. W. Cole Engineering Inc.	Andrew Michaud	3	1
Septic Manager/Ed Csenge & Son Excavating	Ed Csenge	7	6
Thomas Drilling & Blasting	John Whittaker	1	1
Town of Charlestown Hwy.	Keith Weed	6	5
Town of Hancock	Kurtis Grassett	2	2
Twin State Utilities Corp.	George Burns	5	5
UMass EH&S	Robert Laford	1	
		79	54



Electric Presentation



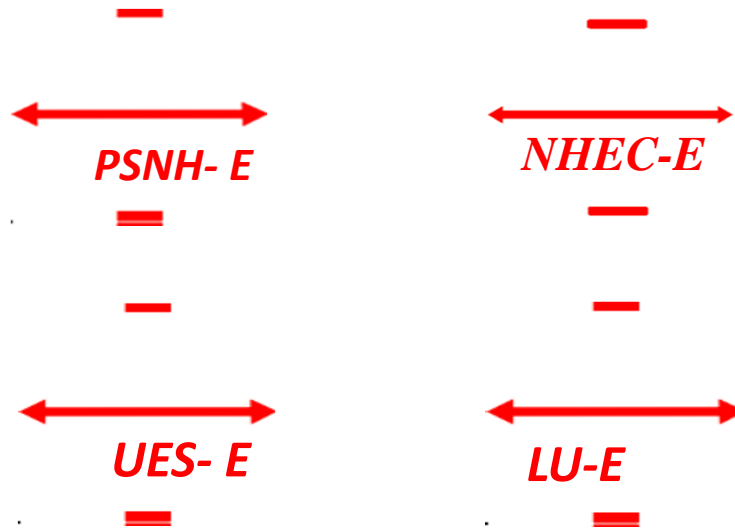
**Public Service
of New Hampshire**
The Northeast Utilities System



Liberty Utilities™



Electric Utilities Markings



Padmounted Transformer



Warning Labels/Inspections



Warnings Disregarded



Warnings Disregarded



Warnings Disregarded



Primary Sector Cabinet



Primary Sector Cabinet



3phase Riser





Substation “Getaways”

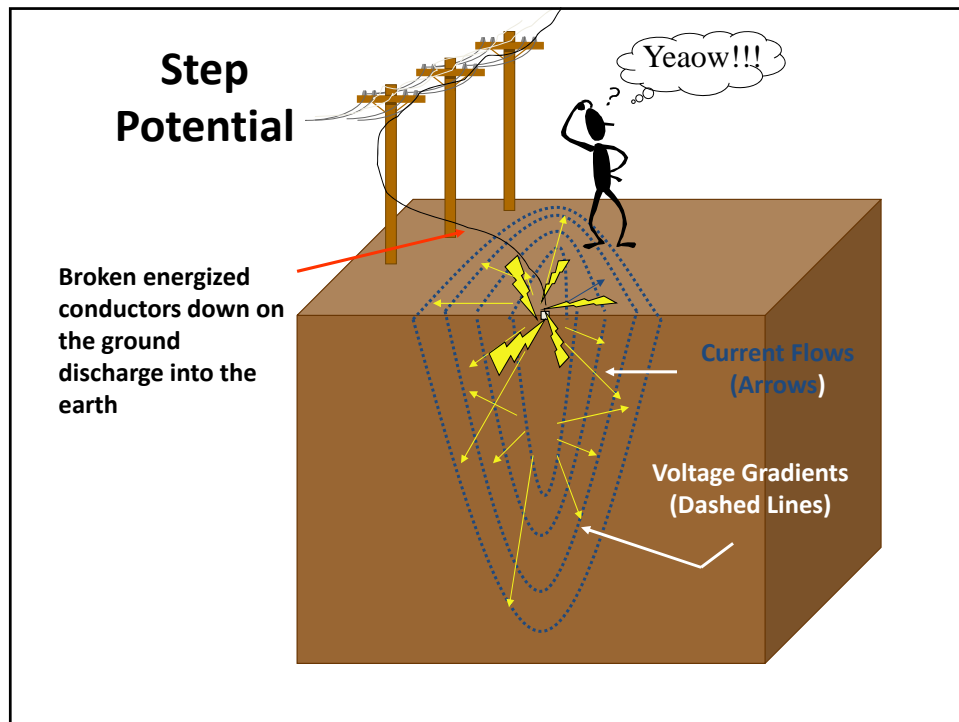


Switchgear



Wire Down – Safe Zone





Escape the area

- If you begin to feel a sensation place both feet together
- Shuffle your feet keeping contact with the ground with both feet as you move further back
- Another option is to hop away from the area with both feet together



No!!

Yes!!



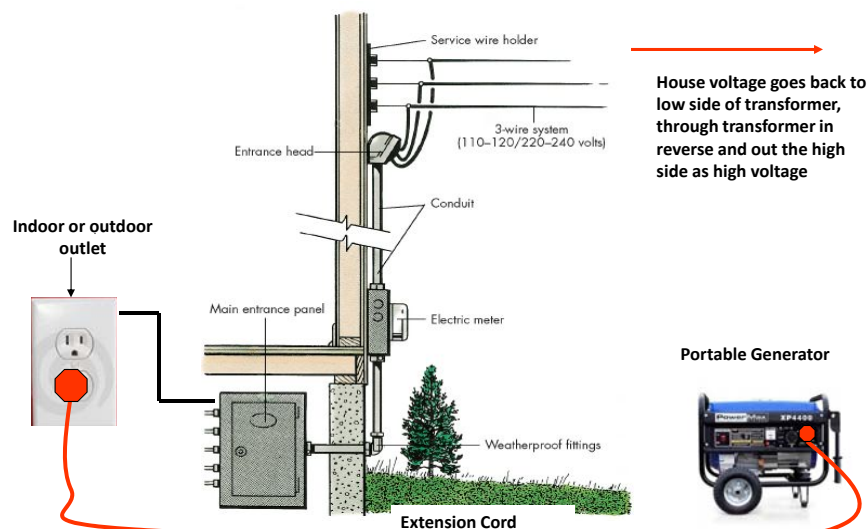
Protecting Yourself

- What is a safe distance to stay back for down wires or equipment?

- 10'
- 15'
- 20'
- 25'
- 30' ←
- 40'

Stay back 30' from the closest piece of down wire or electrical equipment....this avoids step potential

Understanding Backfeed



Safe Zone- More Hidden Hazards



Down wires fall anywhere and everywhere...if they are down on a fence, guardrail, or RR track, they too may be energized...Stay Clear

[Oh Crap!2.wmv](#)

Working Clearances - OSHA

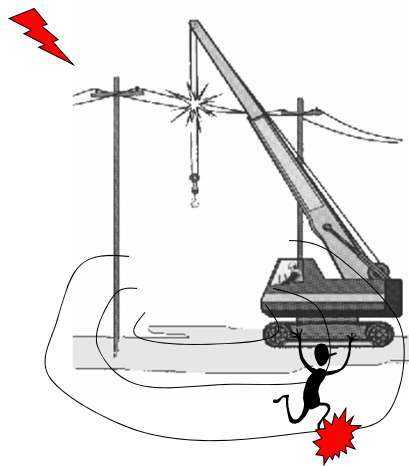
Backhoes & Excavators & Cranes*

- For lines 50 kV and below (including secondaries),
OSHA Minimum = **10' Clearance**
- * Crane operation has other specific rules and if voltage is not known crane must remain 20 feet away unless de-energized and grounded.



Mitigate the Hazards

- Contact utility who have 2 days to provide response on voltage level.
- Survey & Identify hazards > wire, poles, anchors, guys, terrain
- Cone & tape off area. Spotter, warning device.
- Avoid touching equipment at all times
- Avoid stepping/walking away if contact made
- 25% of deaths for crane fatalities are due to power line contact.

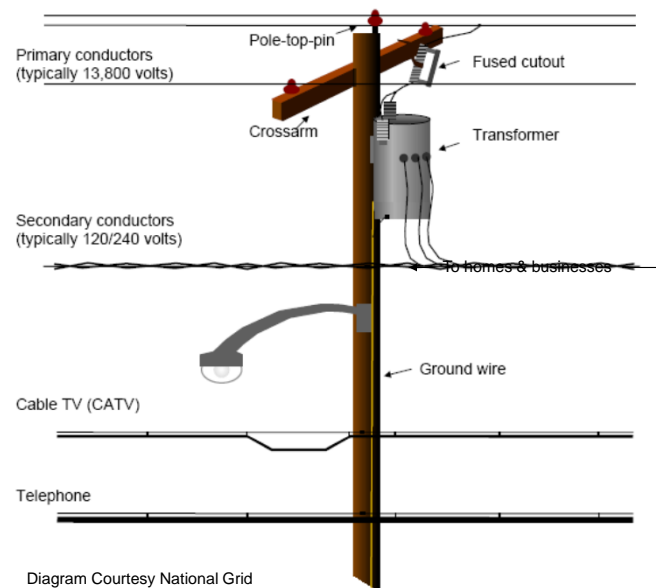




Distribution Pole/Lines

Typical pole construction layout

Location on pole governed by NESC



Questions ??



Appendix E

June 16, 2014

NH Fire Marshal's Office

Incident Report of

Electrocution April 19, 2014

Keene NH



New Hampshire State Fire Marshal's Office

INCIDENT REPORT

Official Law Enforcement Report - Unauthorized Dissemination is Prohibited

Incident Type: Fire / Accidental

Result Type:

Agency Incident ID: 1140046

BATS ID: i- 332094



Incident Date/Time/Location

Status

Investigation Closed

Jurisdiction

Primary

Start Date/Time

4/19/2014 2:18 PM Saturday

Address - Street Address

110 Krif Road

City/State/Zip

KEENE , NH 03435

County

CHESHIRE

Investigator Information

Name

Christopher T Wyman

Phone

603-223-4289

Email

Christopher.Wyman@dos.nh.gov

Title

Investigator

Badge Number

905

Property Use or Target Information

Type

Outside / Special Properties

Subtype

Open land / field



New Hampshire State Fire Marshal's Office

INCIDENT REPORT

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Result Type:

Agency Incident ID: 1140046

BATS ID: I- 332094



Scene Details

Area of Origin/Device Placement

Area of Origin

Area of Origin Subtype

Other

Wildland, woods

Fire Descriptors

Arcs and sparks

Ground Fuels - Wildland (e.g., duff, peat soils, tree roots, leaf litter, grass, low brush, and dead wood)

Multiple fires (separate, unrelated, distinct)

Open Flame

Damage and Casualties

Number of Fatalities

1

Pre Incident Value

\$0.00

Primary Gov't Association

Property is Associated With State
Government

Miscellaneous Information

Other Agencies Involved

Keene FD / PD

Sky Conditions

Scattered Clouds

Wind Speed/Direction

17 MPH / N

Temperature

57F

Humidity

36%

Investigator Right of Entry

Consent

Public Access



New Hampshire State Fire Marshal's Office

INCIDENT REPORT

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BATS ID: i- 332094



Contact Arrival

Requesting Person	Requesting Agency	Requested Date	Arrival Date	Scene Released Date
Marc Howard - Fire Chief	Keene Fire Department	4/19/2014 2:58 PM	4/19/2014 4:37 PM	4/19/2014 6:00 PM



New Hampshire State Fire Marshal's Office

INCIDENT REPORT

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Result Type:

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BATS ID: I- 332094



Person/Organization Information

Name

COLE, DANIELLE

Business Name

NH State Fire Marshal's Office

Race

White

Sex

F

Juvenile

No

Relationship(s)

Law Enforcement Official

Address Information

Street Address

33 Hazen Drive

City/State/Zip

CONCORD
03305

County

, MERRIMACK

Contact Information

Primary Phone

603-223-4289

Name

DEMOND, NATHAN

DOB

[REDACTED]

Sex

M

Juvenile

No

Business Name

Keene State College - Grounds Crew

Race

White

Ethnicity

Non-Hispanic

Age at time of Incident

46



New Hampshire State Fire Marshal's Office

INCIDENT REPORT

Official Law Enforcement Report - Unauthorized Dissemination is Prohibited

Incident Type: Fire / Accidental
Agency Incident ID: 1140046

Result Type:
BATS ID: I- 332094



Name

BOUSQUET, BRENDAN

DOB

[REDACTED]

Sex

M

Juvenile

No

Relationship(s)

Business Name

Keene State College Security

Race

White

Ethnicity

Age at time of Incident

48

Discovering Party, Reporting Party, Witness

Address Information

Street Address

[REDACTED]

City/State/Zip

[REDACTED]

County

CHESHIRE

Contact Information

Primary Phone

[REDACTED]

Name

LAFRENIERE, GARY

Sex

M

Juvenile

No

Relationship(s)

Business Name

Captain - Keene Fire Department

Race

White



New Hampshire State Fire Marshal's Office

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Firefighter - Career Dept

Name

SNIDE, CONNOR

DOB

[REDACTED]

Sex

M

Juvenile

No

Relationship(s)

Business Name

Keene State College - Grounds Crew

Race

White

Ethnicity

Non-Hispanic

Age at time of Incident

23

Witness

Address Information

Street Address

[REDACTED]

City/State/Zip

[REDACTED]

County

CHESHIRE

Contact Information

Primary Phone

[REDACTED]

Name

DAVIS, GEOFF

DOB

[REDACTED]

Sex

M

Juvenile

Business Name

Keene State College - Grounds Crew

Race

White

Ethnicity

Non-Hispanic

Age at time of Incident

30



New Hampshire State Fire Marshal's Office

INCIDENT REPORT

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Juvenile

No

Relationship(s)

Witness

Address Information

Street Address

City/State/Zip

County

, CHESHIRE

Contact Information

Primary Phone

Name

RICHMOND, TIMOTHY

DOB

Sex

M

Juvenile

No

Relationship(s)

Witness

Business Name

Keene State College - Grounds Crew

Race

White

Ethnicity

Non-Hispanic

Age at time of Incident

22



New Hampshire State Fire Marshal's Office

INCIDENT REPORT

Official Law Enforcement Report - Unauthorized Dissemination is Prohibited

Incident Type: Fire / Accidental

Result Type:

Agency Incident ID: 1140046

BATS ID: i- 332094



Address Information

Street Address

[REDACTED]

City/State/Zip

County

[REDACTED]

, CHESHIRE

Contact Information

Primary Phone

[REDACTED]

Name

SWAIN, ROSEMARY

Business Name

NH Medical Examiner's Office - ADME

Race

White

Sex

F

Juvenile

No

Relationship(s)

Government Official (non-police/fire)

Name

CLARK, STEPHEN

Business Name

Public Service Company of NH

Juvenile

No

Relationship(s)

Other



New Hampshire State Fire Marshal's Office

INCIDENT REPORT

Official Law Enforcement Report - Unauthorized Dissemination is Prohibited

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BATS ID: I- 332094



Address Information

Street Address

780 North Commercial Street

City/State/Zip

County

MANCHESTER
, 03101

HILLSBOROUGH

Contact Information

Primary Phone

603-634-2410

Name

LANG, DANIEL

DOB

[REDACTED]

Sex

M

Juvenile

No

Relationship(s)

Firefighter - Career Dept, Witness

Business Name

Keene Fire Department

Race

White

Ethnicity

Non-Hispanic

Age at time of Incident

40

Name

READ, TIMOTHY

DOB

[REDACTED]

Sex

M

Juvenile

No

Business Name

Keene Fire Department

Race

White

Ethnicity

Non-Hispanic

Age at time of Incident

46



New Hampshire State Fire Marshal's Office

INCIDENT REPORT

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Agency Incident ID: 1140046

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Relationship(s)

Firefighter - Career Dept, Witness

Name

BROWN, ZACHARY

DOB

Race

Ethnicity

Age at time of Incident

20

Juvenile

No

Relationship(s)

Reporting Party

Notes

Person reporting the power line down.

Address Information

Street Address

City/State/Zip

County

, HARTFORD

Contact Information

Primary Phone

Name

BROWN, ZACHARY



New Hampshire State Fire Marshal's Office

INCIDENT REPORT

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BATS ID: i- 332094



DOB

Race

Ethnicity

Age at time of Incident

20

Juvenile

No

Relationship(s)

Reporting Party

Notes

Person reporting the
power line down.



New Hampshire State Fire Marshal's Office

INCIDENT REPORT

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Agency Incident ID: 1140046

BATS ID: I- 332094



Relationship(s)

Deceased

Address Information

Street Address

[REDACTED]

City/State/Zip

[REDACTED]

County

CHESHIRE

Contact Information

Primary Phone

[REDACTED]

Name

DEMOND, REBECCA

Race

White

Sex

F

Juvenile

No

Relationship(s)

Spouse



New Hampshire State Fire Marshal's Office

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Address Information

Street Address

[REDACTED]

City/State/Zip

[REDACTED]

County

CHESHIRE

Contact Information

Primary Phone

[REDACTED]



New Hampshire State Fire Marshal's Office

INCIDENT REPORT

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Agency Incident ID: 1140046

BATS ID: I- 332094



Narrative(s)

Title

Interview of Brendan Bosquet

Author

Danielle Cole

[REDACTED]
danielle.cole@dos.nh.gov

Description

On April 19, 2014 I was called to respond to an incident that had occurred at Keene State College in the City of Keene involving a downed electrical wire and a fatality. I arrived at the scene and spoke with a subject who was present at the time:

Sgt. Brendan Bosquet
Keene State College Campus Safety

Who was working at the time of the incident. BOSQUET stated that at approximately 1400 hours that day a student had called to report that there was a power line down in the area leading to the stadium. BOSQUET did not know of the exact location of the power line and went to check the area. As he was out looking for the power line he came across a member of the college grounds staff, Nathan DeMond who was working but had some downtime between games and was bird watching. BOSQUET stated that DEMOND had a camera on him to take photos of the birds and he showed BOSQUET some photos.

When BOSQUET explained to DEMOND what he was out looking for DEMOND agreed to help look for the downed power line. DEMOND went out in one direction and BOSQUET went out in another. A short time later BOSQUET heard DEMOND say something to the affect of "I think I found it" and then "it doesn't look live." After those two comments BOSQUET heard DEMOND yell and saw his figure drop to the ground. BOSQUET had to go around an area of water to be able to get access to where DEMOND was. As BOSQUET was heading there he called in to report the situation to dispatch. When BOSQUET located DEMOND again he was joined by a female campus safety officer. As they approached where DEMOND was located they were able to see him. He was lying on his back with his right leg hung up entangled in the power line with his head facing toward Route 101.

At one point DEMOND was moving his head up and down and was attempting to move his leg from where it was across the wire. BOSQUET reported that when DEMOND moved his leg from the wire his foot caught on fire and the fire spread up his body to his head.

See DLC-1, a digital recording of the interview for more details.

END OF REPORT



New Hampshire State Fire Marshal's Office

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Title

Interview of Phil Davis

Author

Danielle Cole

[REDACTED]
danielle.cole@dos.nh.gov

Description

On April 19, 2014 I was called to respond to an incident that had occurred at Keene State College in the City of Keene involving a downed electrical wire and a fatality. I arrived at the scene and spoke with a subject who responded to the fire:

Phil Davis
Fire Fighter
Keene Fire Department

Who was sent to the call which came in as a person electrocuted. DAVIS stated that he carried in the medical bag to the call but that they were unable to get close to the victim because of the power line. DAVIS described that DEMOND was lying on his back with his right leg on top of the wire. DAVIS stated that DEMOND was still alive because he was lifting his head up and down attempting to get off of the wire. DAVIS stated that when DEMOND started to move his leg he heard the electricity up the line hitting the ground. DAVIS stated that there was a small brush fire in close proximity to where DEMOND was lying.

See DLC-2, a digital recording for more information.

END OF REPORT



New Hampshire State Fire Marshal's Office

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Result Type:

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BATS ID: i- 332094



Title

Keene State College Electrocution Investigation

Author

Christopher Wyman

Christopher.Wyman@dos.nh.gov

Description

Incident Information:

On Saturday, April 19, 2014 at approximately 2:00 pm, Keene State College Security officers were dispatched to the rear area of the Owl Athletic Stadium for the report a power line down. A student walking in the area observed the line down and called security. While searching for the power line, a Keene State College grounds crew member located the downed power and came in contact with the live power line. When security officers reached the grounds crew member they could observe that his leg was still in contact with the power line and contacted the Keene Fire Department. The incident resulted in the death of the grounds crew member and an approximately half acre brush fire.

Property Description:

The property involved is an open grass field area owned by Keene State College adjacent to a river. The utility equipment involved is Public Service Company of New Hampshire pole # 185 / 24. This pole supports three, three phase distribution lines which supply 12,500 volts phase to phase and 7,200 volts phase to ground. According to PSNH representative Mr. Stephen Clark the pole involved was last inspected by ground crew in January 2014 and by an aerial inspection in October of 2013. Clark stated that PSNH's initial inspection of the cross arms of the pole found no evidence that the cross arms or pole had been tampered with.

Investigation:

On Saturday, April 19, 2014 at approximately 3:00 pm, I was contacted by telephone by Deputy State Fire Marshal Robert Farley and advised me to respond to a possible electrocution and small brush fire in the rear of the Owl's Stadium, 110 Kriff Road, on the Keene State College campus. FARLEY stated that a Keene State College employee had possibly come in contact with a live, down power line resulting in a small brush fire and the employee's death. FARLEY stated that investigator Danielle Cole would also be responding and that the Keene Fire and Police Departments were securing the scene and awaiting our arrival. At approximately 4:37 PM, COLE and I arrived at the scene and entered the athletic fields by a foot bridge connecting Martel Court to the rear of the fields. Keene State College Security personnel were limiting access to the fields at the Martel Court end of the bridge. COLE and I crossed the foot bridge and followed the river to the right back towards Rt. 101. About 200 yards down we found Keene Fire and Police personnel in an open grass area adjacent to the river.

Once we arrived at the open grass area, we were able to observe a green colored power line hanging off the ground approximately two feet running from west to east. Directly under the hanging power line was the deceased male victim. We were able to observe that the victim was lying supine with his head pointed west and his feet pointed east towards Martel Court. We were able to observe that the victim's clothing was burned



New Hampshire State Fire Marshal's Office

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and that the victim was covered with a yellow colored powder. Fire Fighters at the scene stated that they had utilized a dry chemical fire extinguisher to put out the fire on the victim. To the left of the victim, we were able to observe a large area of brush that had been burned also as a result of the downed wire. Keene Fire Department estimated the area at approximately a half an acre. Also located in the same area was a wooden power line pole with wooden cross arms at the top. The cross arms to the south side of the pole appeared to have broken; thus causing the power line to fall towards the ground.

While at the scene Captain Gary LaFreniere provided COLE and I an incident briefing. LAFRENIERE stated that Keene State College Security Officer, Sgt. Brendan Bousquet was responding to the report of a power line down in the area at approximately 2:00 PM. LAFRENIERE stated that the down wire was reported by a KSC student, later identified as Mr. Zachary Brown. LAFRENIERE stated that when BOUSQUET arrived in the area he ran into Mr. Nathan DeMond, a member of the Keene State College Grounds Crew. LAFRENIERE stated that after they had a brief conversation, DEMOND volunteered to help BOUSQUET look for the downed wire. BOUSQUET returned to Martel Court and proceeded to the opposite side of the fields, while DEMOND continued along the river. LAFRENIERE stated that when BOUSQUET got to the opposite side of the wooded area, DEMOND yelled to BOUSQUET that he had found the downed power line and thought it was dead. LAFRENIERE stated that BOUSQUET then heard a yell and a groan coming from where DEMOND was located. LAFRENIERE stated that BOUSQUET immediately went to the area where DEMOND was located and also contacted the Keene Fire Department to respond for a man down. LAFRENIERE stated that when BOUSQUET found DEMOND, he was lying on his back, his right leg in the air with the back of his right foot on the power line. LAFRENIERE stated that the Keene Fire Department was dispatched at 2:20 PM and the first unit arrived at the scene at approximately 2:23 PM. LAFRENIERE stated that the first arriving Fire Fighters made the same observations about the victim and immediately contacted Public Service Company of New Hampshire to de-energize the power line. LAFRENIERE stated that at some point the victim's foot came off the power line, an arch was observed and the victim's clothing ignited on fire. At approximately the same time, fire fighters observed the brush fire starting.

Following LAFRENIERE'S incident briefing the scene and the victim were photographed and a scene inspection conducted. Prior to our arrival, LAFRENIERE with the assistance of on scene personnel had conducted measurements of the victim's location. During the scene inspection I was able to observe a burned area on the top of the power line. The area had been blackened by the fire resulting from the victim's contact with the power line. The ground the victim was lying on was grass that had been mowed and was found to be damp to the touch. Fire damage was observed to be limited to the small burn area on the power line and the victim. While inspecting the area surrounding the power line pole, I was able to observe that the remains of the broken cross arms were lying on the ground at the base of the pole. The power line was observed to be approximately one foot off the ground and resting on the insulators, which would have been on the cross arms.

Once ADME Rosemary Swain arrived at the scene, I assisted her with examination of the victim. ADME SWAIN photographed the victim and overall incident scene. At approximately 6:05 PM, the victim was removed from the scene and transported to the State Medical Examiner's Office in Concord by Foley's Funeral Home for autopsy and positive identification. During the removal of the victim, a digital camera was located under the victim's right side. Several other items were also found with the victim and identified on a possessed property report. This items, with the exception of the digital camera, NH Driver's License and a Keene State College photo ID were given to the Keene Police Department so they could be returned to the



New Hampshire State Fire Marshal's Office

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victim's wife. COLE and I cleared the scene at approximately 6:30 PM after speaking with family members of DeMond that were waiting on Martel Court.

On Monday, April 21, 2014, I attended the autopsy of Mr. Nathan DeMond which was conducted by Dr. Jennie Duval at Medical Examiner's Office at Concord Hospital. At the conclusion of the examination it was discovered that the victim's preliminary CO level was 1.8 %. Dr. Duval listed the cause of death as "high voltage electrocution" following contact with a downed power line.

Evidence:

With the consent of the Mrs. Rebecca DeMond several digital photographs were copied from the digital camera found with victim. Three photos contained on the camera showed that the victim had taken pictures of the downed power line and the broken pole prior to the incident. The camera and a Keene State College employee identification found with the victim were returned to Mrs. DeMond on May 12, 2014 at her residence.

G. Interviews:

On Wednesday, April 23, 2014, at approximately 2:00 PM, I had the opportunity to speak with Mrs. Rebecca DeMond by telephone. DEMOND confirmed that her husband was working the day of the incident and that he was working from about 6:00 AM to approximately 3:30 to 4:00 PM. DEMOND stated that the end time depended on how long the games were going that day. DEMOND stated that her husband had been a full-time employee at the college since approximately 2000. DEMOND stated that her husband was a bird watcher and normally carried a camera with him at work to photograph birds on his breaks. During our conversation I asked Mrs. DeMond if I could review the photos contained on the camera found with DEMOND at the scene. Mrs. DeMond granted me verbal permission to review and copy the photographs. The remainder of our conversation I was answering what questions I could for Mrs. DeMond.

On April 29, 2014 at approximately 12:00 PM, I had the opportunity to speak with the following people working with DEMOND the day of the incident Mr. Connor Snide, Mr. Geoff Davis, and Mr. Timothy Richmond. The men stated that they came on duty at 6:00 AM the day of the incident. They stated that games that day were scheduled to go until about 3:30 - 4:00 PM. The three men stated they last spoke with DEMOND just before 2:00 PM. They stated that DEMOND told them that he was going to the concession stand for popcorn and hot chocolate, and to take a break. They stated that no one reported a downed power line to them and didn't know anything was wrong until they heard sirens. DAVIS stated that he looked across the field and could see smoke from a brush fire. DAVIS stated that as he was running across the fields the fire department was pulling into the stadium area. DAVIS stated that by the time he reached where DEMOND was located, the fire department EMS crew was already there. All three men stated that DEMOND normally goes bird watching on every break and is always carrying his camera with him to take pictures of birds. The three men stated that they believed the wind was blowing S/SE across the athletic fields that day.

The party initially reporting the downed power line is Mr. Zachary Brown, a KSC student. Mr. Brown did not return phone calls.

Conclusions:



New Hampshire State Fire Marshal's Office

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Following an autopsy of the victim conducted on April 21, 2014, the state Deputy Medical Examiner, Dr. Jennie Duval, determined that the victim died as a result of high voltage electrocution. The fire on the victim and the subsequent brush fire are most probably the result of the energy from the power line being transferred to the ground. Witnesses reported seeing arcing while the victim's right foot was in contact with the power line. How Mr. DeMond came in contact with the power line has not been determined. Based on Sgt. Bousquet's statement, Mr. DeMond may have been under the impression that the power line was de-energized. As far as the damage to the utility pole, the New Hampshire Public Utilities Commission and Public Service Company of NH are conducting the investigation into what caused the cross arms to break which resulted in the power line coming down. In the absence of any new information forthcoming, the cause of this incident and fire shall be classified as "Accidental" and this report shall stand as final.



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Property



New Hampshire State Fire Marshal's Office

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This section intentionally left blank

Investigator - Wyman, Christopher

6/16/2014

Date

District Chief - SOUTHWELL, JOHN

6/16/2014

Date