

(PA)

From: Richard Emch
To: Bill Vinikour; David Miller; Ellen Moret; Jessie Muir; Kirk LaGory; Michael Masnik; Samuel Hernandez-Quinones
Date: 09/19/2006 12:48:18 PM
Subject: Fwd: VYNPS ER - Supplemental Information Chestnut Hill 115-kV Transmission Line Reference FTN 2006b

>>> Bob West <bmw@ftn-assoc.com> 09/18/2006 6:17 PM >>>
Rich:

I believe the email correspondence you need is attached and discussed below.
Please let us know if you need anything else.
thanks,

>Date: Mon, 31 Jul 2006 11:31:54 -0500
>To: Rick Buckley
>From: Bob West <bmw@ftn-assoc.com>
>Subject: VYNPS ER - Supplemental Information Chestnut Hill 115-kV
>Transmission Line Reference FTN 2006b
>Cc: jbroc94@entergy.com

>

>Rick:

>

>For the ER supplemental information regarding the Chestnut Hill 115-kV
>transmission line, we have summarized below relative info from
>conversations and email correspondence with the Public Service Company of
>New Hampshire and Northeast Utilities transmission engineering staff.

>

>1. Public Service of New Hampshire - Owns and operates the 115kV line
>from VY to substation at Hindsdale, NH. (Technically, they only own the
>line from the state boundary in the Connecticut River to Hindsdale; VELCO
>owns the short segment on the VT side at VYNPS.) Talked to Katie Kenney
>(603-634-2371) and Jim Myal the week of 22 November 2004. PSNH/NU uses no
>herbicides for ROW management. All clearing is mechanical; they quit using
>herbicides in the early 1980's. They are trying to use some innovative
>planting of low growth vegetation and livestock grazing to reduce
>maintenance costs. Stated ROW maintenance practices apply to the Amherst
>345-kV, Chestnut Hill 115-kV, and the NH portion of the Northfield 345-kV
>lines. Staff is unaware of any history of environmental issues or
>operation concerns with these transmission lines since their construction
>over 30 years ago.

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>2. Information in item 1 above regarding herbicide use was confirmed via
>email from Bob Gosling (NU) dated 19 June 2006. A brief summary provided
>by the NU Arborist is attached. The ROW is on a 4-year cycle and was last
>cleared in 2004. No formal management plan in place to document ROW
>maintenance practices.

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>3. Bob Gosling (goslirc@nu.com) in email dated 29 June 2006, confirmed
>that the Chestnut Hill line meets the NESC code requirements for induced
>shock hazard (see attached email).

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>4. No information was available on ROW erosion control policies. Because
>the Chestnut Hill 115 kV line occupies a small portion of the overall ROW

>with the Amherst (Scobie) and Northfield 345-kV lines, it is assumed that
>most potential erosion impacts would be attributed to the two 345-kV lines.
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>5. Spoke with Paul Agrila (413-603-3632) of Western Massachusetts Electric
>in Northfield, MA. He confirmed that the 345 kV ROW from near Northfield
>up the eastern side of the Connecticut River to the NH state line is
>maintained using only mechanical methods and hand-applied herbicides. No
>wide-spread use of herbicides is employed.
>
>
>Bob West
>FTN Associates, Ltd.
>#3 Innwood Circle
>Little Rock, AR 72211
>501-225-7779
>501-225-6738 (fax)
>
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Project Manager
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Water Resources - Environmental Consultants
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Mail Envelope Properties (45101F52.104 : 12 : 35320)

Subject: Fwd: VYNPS ER - Supplemental Information Chestnut Hill 115-kV
Transmission Line Reference FTN 2006b

Creation Date 09/19/2006 12:48:18 PM

From: Richard Emch

Created By: RLE@nrc.gov

Recipients	Action	Date & Time
anl.gov PM david.s.miller (David Miller) lagory (Kirk LaGory) moret (Ellen Moret) vinikour (Bill Vinikour)	Transferred	09/19/2006 12:48:55
nrc.gov TWGWPO01.HQGWDO01 PM JMM7 (Jessie Muir)	Delivered	09/19/2006 12:48:24
PM MTM2 (Michael Masnik)	Opened	09/19/2006 12:54:40
nrc.gov TWGWPO03.HQGWDO01 PM SHQ (Samuel Hernandez-Quinones)	Delivered	09/19/2006 12:48:24
PM	Opened	09/19/2006 12:51:26

Post Office	Delivered	Route
TWGWPO01.HQGWDO01	09/19/2006 12:48:24 PM	anl.gov nrc.gov
TWGWPO03.HQGWDO01	09/19/2006 12:48:24 PM	nrc.gov

Files	Size	Date & Time
MESSAGE	6582	09/19/2006 12:48:18 PM
VY Chestnut Hill ROW maintenance.doc		19456 09/19/2006 12:47:04
PM VY Chestnut Hill NESC.doc	26624	09/19/2006 12:47:04 PM

Options

Auto Delete: No
Expiration Date: None

Notify Recipients:	Yes
Priority:	Standard
ReplyRequested:	No
Return Notification:	None
Concealed Subject:	No
Security:	Standard
To Be Delivered:	Immediate
Status Tracking:	Delivered & Opened

From: Richard Emch
To: Nathan Goodman
Date: 09/19/2006 4:33:36 PM
Subject: Fwd: VYNPS ER - Supplemental Information Chestnut Hill 115-kV Transmission Line Reference FTN 2006b

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nrc.gov		
OWGWPO02.HQGWDO01	Delivered	09/19/2006 4:33:36
PM		
NEG (Nathan Goodman)	Opened	09/19/2006 4:45:15
PM		

Post Office	Delivered	Route
OWGWPO02.HQGWDO01	09/19/2006 4:33:36 PM	nrc.gov

Files	Size	Date & Time
MESSAGE	6582	09/19/2006 4:33:36 PM
VY Chestnut Hill ROW maintenance.doc		19456 09/19/2006 4:33:31
PM		
VY Chestnut Hill NESC.doc	26624	09/19/2006 4:33:31 PM

Options

Auto Delete: No
Expiration Date: None
Notify Recipients: Yes
Priority: Standard
ReplyRequested: No
Return Notification: None

Concealed Subject: No
Security: Standard

To Be Delivered: Immediate
Status Tracking: Delivered & Opened

N-186

Vegetation Management Practice

PSNH current practice of vegetation control on the N-186 line from VT / NH state line to Chestnut Hill substation in Hinsdale NH is performed by mowing unwanted vegetation on a 4 year cycle(next scheduled mowing 2008). Any wet land areas are kept cleared by manually cutting the undesirable vegetation species. Side trimming of the edge of right of way is currently on a 10 year cycle(next scheduled cycle side trimming 2010).

X-Modus-BlackList: 159.108.1.41=OK;goslirc@nu.com=OK
X-Modus-RBL: 159.108.1.41=OK
X-Modus-Trusted: 159.108.1.41=NO
Subject: Re: Fwd: Re: N-186
Sensitivity:
To: Bob West <bmw@ftn-assoc.com>
Cc: jbroc94@entergy.com, ldewald@entergy.com, bradspj@nu.com,
rbUCKLE@entergy.com, bradspj@nu.com
X-Mailer: Lotus Notes Release 6.5.2 June 01, 2004
From: goslirc@nu.com
Date: Thu, 29 Jun 2006 12:41:54 -0400
X-MIMETTrack: Serialize by Router on nunotesmta4/NUS(Release 6.5.4FP3 | January 13, 2006)
at
06/29/2006 12:41:55
X-Virus-Scanned: by local mailserver

Bob

Answer to

1 Yes It is very likely the line would have been located there (had a 345Kv line been necessary without VY)

There is no documentation available, however .

2

a.) Line does meet NESC criteria stated

b.) Still waiting for an answer from our Arborist

Have a great 4th

Bob

Mr. Constant:

Thank you for taking my call this afternoon. As you requested, I'm forwarding to you additional information regarding the objective of our transmission line assessments for Entergy's Vermont Yankee Nuclear Power Station (VYNPS).

Entergy is preparing information for an application to the Nuclear Regulatory Commission for a renewed operating license. We are required to address a specific list of issues related to potential environmental impacts for the plant and those transmission lines which were originally constructed in the 70's to connect VYNPS to the grid. As I described during our telephone call, the only PSNH line we need to address is the 115-kV line (# N-186) that spans the Connecticut River and connects at a substation near Hinsdale, NH.

The following information is needed for this line and ROW.

1. a brief description of ROW, vegetation control practices and any other applicable environmental management issues for the ROW. (Other issues could include issues such as threatened and endangered species, cultural resources, wetlands, etc. This info is typically addressed in old environmental assessments or current environmental management plans.)

2. does the N-186 line meet the following criteria?

"Design criteria that limit hazards from steady state currents are based on the National Electric Safety Code (NESC 1981). Adherence to this code requires that utility companies design transmission lines so that the short-circuit current to ground, produced from the largest anticipated vehicle or object, is limited to less than 5 mA. In practice, this limits the electric field near roadways to about 7-8 kV/m."

"Most transmission lines were designed to be in compliance with the (NESC) recommendations for electric shock hazard. However, unless that utility has had an active program of transmission line management aimed at reviewing changes in the uses of the land in the right-of-way and the operating characteristics of the transmission line, and ensuring compliance with changes in the NESC, the line may not meet current NESC recommendations."

We basically need documentation that the line meets today's NESC induced shock hazard code of 5 mA. If not, we'll need profiles or clearance measurements so we can calculate the values for the line. We have access to an EPRI program that models the induced shock hazard.

We are on a very short schedule to provide the needed information to the NRC staff.

As discussed with you today, my firm (FTN Associates) is under contract with Entergy Nuclear, Inc. to coordinate the completion of the assessment. So, please contact me at 501.225.7779 with any questions, or feel free to contact any of the following Entergy employees:

Rick Buckley, rbuckle@entergy.com, ph: 601-368-5372

Mike Stroud, mstroud@entergy.com, ph:479-858-4549

Paul Johnson, pjohnso@entergy.com, ph: 802-452-6742 x-3178 (at VYNPS)

Thank you,

Bob West
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