



Entergy Nuclear Operations, Inc.
Vermont Yankee
320 Governor Hunt Road
Vernon, VT 05354
Tel 802 257 7711

Robert J. Wanczyk
Licensing Manager

BVY 11-041

May 11, 2011

ATTN: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

SUBJECT: 2010 Radioactive Effluent Release Report
Vermont Yankee Nuclear Power Station
Docket No. 50-271
License No. DPR-28

Dear Sir or Madam,

In accordance with Vermont Yankee (VY) Technical Specifications (TS) 6.6.D, attached is a copy of the annual 2010 Radioactive Effluent Release Report.

In addition, VY TS 6.7.B requires reporting of changes to the Off-Site Dose Calculation Manual (ODCM). The changes made to the ODCM during 2010 are provided in Appendix H of the subject report.

There are no new regulatory commitments being made in this submittal.

Should you have any questions concerning this submittal, please contact me at (802) 451-3166.

Sincerely,

A handwritten signature in black ink that reads "Robert J. Wanczyk".

[RJW/JTM]

Attachment: 1. Radioactive Effluent Release Report for 2010
2. CD-ROM with Revision 33 of the VY ODCM

cc listing (next page)

A009
JE48
MCA

**RADIOACTIVE EFFLUENT
RELEASE REPORT
FOR 2010
INCLUDING ANNUAL RADIOLOGICAL
IMPACT ON MAN**

**Entergy Nuclear Vermont Yankee, LLC
Docket No. 50-271
License No. DPR-28**

Prepared by: Edward R. Cumming 15/9/2011
Edward R. Cumming, CHP, Advisory Scientist, AREVA, Inc. Date

Preparation coordinated by: Stephen P. Skibniowsky 15/10/2011
Stephen P. Skibniowsky, Senior Environmental Specialist (SEMP) Date

Reviewed by: Stephen C. McAvoy 5/10/11
Stephen C. McAvoy, Chemistry Supervisor Date

Approved for Distribution: JA Hardy 15-10-2011
Jeffery A. Hardy, Chemistry Manager Date

TABLE 1C

**Entergy Nuclear Vermont Yankee
Effluent and Waste Disposal Annual Report for 2010
Gaseous Effluents - Ground Level Releases ⁽²⁾**

Nuclides Released	Continuous Mode		Batch Mode		
	Units	Quarter		Quarter	
		1	2(1)	1(1)	2(1)
1. Fission Gases					
Krypton-85	Ci	ND			
Krypton-85m	Ci	ND			
Krypton-87	Ci	ND			
Krypton-88	Ci	ND			
Xenon-133	Ci	ND			
Xenon-135	Ci	ND			
Xenon-135m	Ci	ND			
Xenon-138	Ci	ND			
Unidentified	Ci	ND			
Total for Period	Ci	ND			
2. Iodines					
Iodine-131	Ci	ND			
Iodine-133	Ci	ND			
Iodine-135	Ci	ND			
Total for Period	Ci	ND			
3. Particulates					
Strontium-89	Ci	5.30E-08			
Strontium-90	Ci	3.17E-08			
Cesium-134	Ci	5.92E-08			
Cesium-137	Ci	1.80E-06			
Barium-Lanthanum-140	Ci	ND			
Manganese-54	Ci	ND			
Chromium-51	Ci	ND			
Cobalt-58	Ci	ND			
Cobalt-60	Ci	3.92E-06			
Cerium-141	Ci	ND			
Zinc-65	Ci	ND			
Iron-55	Ci	4.69E-07			
Total for Period	Ci	6.33E-06			

(1) There were no ground level gaseous releases for this reporting period.

(2) Radioactively contaminated used oil was burned only during the first quarter of 2010.

Bruneau, Judy

From: Miller, Elizabeth
Sent: Monday, August 08, 2011 7:02 PM
To: Bruneau, Judy
Subject: Fwd: UCS letter to Larry Smith re strontium
Attachments: 20110511-vy-annual-radiological-effluent-report-ML11160A217.pdf; ATT00001..htm

For vsnapers

Connected by DROID on Verizon Wireless

-----Original message-----

From: Hattie Nestel <hattieshalom@verizon.net>
To: "Miller, Elizabeth" <Elizabeth.Miller@state.vt.us>
Sent: Mon, Aug 8, 2011 22:29:08 GMT+00:00
Subject: Fwd: UCS letter to Larry Smith re strontium

Subject: UCS letter to Larry Smith re strontium

From: Dave Lochbaum <DLochbaum@ucsusa.org>
Date: August 8, 2011 8:38:01 AM EDT
To: "lsmith14@entergy.com" <lsmith14@entergy.com>
Cc: "Daniel.Holody@nrc.gov" <Daniel.Holody@nrc.gov>
Subject: Strontium in fish taken from the Connecticut River

Mr. Smith:

I was forwarded a copy of the statement you released on August 2, 2011, which contained the following statement:
"There is absolutely no evidence to suggest that Vermont Yankee is the source for the strontium-90. We have 31 monitoring wells on site that are tested regularly. No groundwater sample from any well at Vermont Yankee has ever indicated the presence of strontium-90, or any other isotope other than tritium."

'Absolutely no evidence'?

Really? Come on.

How about the report that Entergy submitted to the NRC on May 11, 2011 (pages attached)?

Table 1C from Entergy's report to the NRC stated that 3.17E-08 curies of strontium-90 were released in gaseous form at ground-level from Vermont Yankee during the 1st quarter of 2010. Past reports also show strontium-90 routinely released to the environment from VY.

So what you said in the statement about not detecting strontium-90 in monitoring wells may be true, it is not the whole truth is it Mr. Smith? In fact, it is so short of the whole truth as to be very misleading bordering on deceitful.

The whole truth is that Vermont Yankee routinely releases strontium-90 to the environment. This fact does not mean that Vermont Yankee is the primary or sole source of the strontium found in the fish. But this fact also means that Vermont Yankee cannot be excluded as a potential source, as your very misleading statement sought to establish.

I have copied Mr. Daniel Holody in NRC Region I. Mr Holody handles allegations. I trust he will look into whether Entergy was lying in its August 2, 2011, statement to the media or perhaps was lying in its May 2010 report to the NRC.

David Lochbaum

Director, Nuclear Safety Project

Union of Concerned Scientists

PO Box 15316

Chattanooga, TN 37415

(423) 468-9272 office

(423) 488-8318 cell

dlochbaum@ucsusa.org