



October 14, 2011

Docket No. 50-443
SBK-L-11209

U.S. Nuclear Regulatory Commission
Attn.: Document Control Desk
Washington, DC 20555-0001

Seabrook Station
Correction to 2010 Annual Radioactive Effluent Release Report

Reference: SBK-L-11203, Seabrook Station Resubmittal of 2010 Annual Radioactive Effluent Release Report, dated October 3, 2011.

In accordance with the requirements of Regulatory Guide 1.21, Measuring, Evaluating and Reporting Radioactivity in Solid Wastes and Releases of Radioactive Materials in Liquid and Gaseous Effluents from Light-Water-Cooled Nuclear Power Plants, NextEra Energy Seabrook LLC submits the enclosed correction to the 2010 Annual Radioactive Effluent Release Report.

The correction is to Table 1B, Effluent and Waste Disposal Annual Report 2010, Gaseous Effluents – Elevated Releases Continuous, Item 3, Particulates. Carbon-14 particulates were reported using incorrect values. The values were reported as fractions in the referenced submittal. The error affected the carbon-14 values in Table 1B only and the affected page is attached in the enclosure.

Should you have any questions regarding this letter, please contact David Robinson, Chemistry Department Manager, at (603) 773-7496.

Sincerely,

NextEra Energy Seabrook, LLC



Michael O'Keefe
Licensing Manager

IE48
NRR

cc: NRC Region I Administrator
G. E. Miller, NRC Project Manager, Project Directorate I-2
W.J. Raymond, NRC Senior Resident Inspector
Jason Martinez, American Nuclear Insurers

ENCLOSURE TO SBK-L-11209

TABLE 1B
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT 2010
GASEOUS EFFLUENTS-ELEVATED RELEASES
CONTINUOUS

Nuclides R	Unit	Quarter 1	Quarter 2	Quarter 3	Quarter 4
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1. Fission and activation gases

argon-41	Ci	3.26E-03	3.47E-03	1.98E-03	7.09E-03
krypton-85	Ci	ND	ND	ND	ND
krypton-85	Ci	ND	ND	ND	ND
krypton-87	Ci	ND	7.35E-04	ND	ND
krypton-88	Ci	ND	ND	ND	ND
xenon-131	Ci	ND	ND	ND	ND
xenon-133	Ci	ND	5.24E-04	1.33E-04	ND
xenon-133	Ci	ND	ND	ND	ND
xenon-135	Ci	2.08E-04	4.44E-04	2.48E-04	1.21E-03
xenon-135	Ci	ND	ND	3.87E-04	1.19E-03
xenon-138	Ci	ND	ND	ND	ND
	Ci				
	Ci				
unidentified	Ci	ND	ND	ND	ND
Total for pe	Ci	3.47E-03	5.17E-03	2.75E-03	9.49E-03

2. Iodines

iodine-131	Ci	ND	ND	ND	ND
iodine-133	Ci	ND	ND	ND	ND
iodine-135	Ci	ND	ND	ND	ND
Total for pe	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00

3. Particulates

strontium-8	Ci	ND	ND	ND	ND
strontium-9	Ci	ND	ND	ND	ND
cesium-134	Ci	ND	ND	ND	ND
cesium-137	Ci	ND	ND	ND	ND
barium-lan	Ci	ND	ND	ND	ND
cobalt-58	Ci	ND	ND	ND	ND
cobalt-60	Ci	ND	ND	ND	ND
chromium-	Ci	ND	ND	ND	ND
manganes	Ci	ND	ND	ND	ND
niobium-95	Ci	ND	ND	ND	ND
iron-59	Ci	ND	ND	ND	ND
carbon-14	Ci	2.05E+00	1.86E+00	3.13E+00	5.02E+00
unidentified	Ci	ND	ND	ND	ND
Total for pe	Ci	2.05E+00	1.86E+00	3.13E+00	5.02E+00