Vermont Yankee Nuclear Power Station
SAFSTOR Alternative Decommissioning Cost Estimate
(thousands of 2014 dollars)

Activity Index	Costs run: Fri, Aug 22, 2014 at 09:27:05 DECCER Version 2010.09.091 Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
PERIOD 0 - Pre-Shutdown Early Planning																			
Period start date: Wednesday, January 1, 2014																			
Period end date: Thursday, January 1, 2015																			
Period duration: 11.99 months																			
Period 0 Additional Costs																			
0.2.1	Financing Cost and Interest	-	-	-	-	-	520	-	520	520	-	-	-	-	-	-	-	-	-
0.2.2	ARO - Outside Contractor Support Studies / Submittals (LT-CTC)	-	-	-	-	-	2,063	-	2,063	2,063	-	-	-	-	-	-	-	-	-
0.2.3	ARO - Outside Contractor Support Decommissioning Cost Estimates (LT-DCE)	-	-	-	-	-	1,500	-	1,500	1,500	-	-	-	-	-	-	-	-	-
0.2.4	ARO - Miscellaneous Expenses (LT-Misc)	-	-	-	-	-	1,011	-	1,011	1,011	-	-	-	-	-	-	-	-	-
0.2.5	ARO - Outside Contractor Support Plant Modifications (LT-Mod's)	-	-	-	-	-	1,567	-	1,567	1,567	-	-	-	-	-	-	-	-	-
0.2.6	ARO - ISFSI Pad (SF-ISFSI)	-	-	-	-	-	3,927	723	4,650	-	4,650	-	-	-	-	-	-	-	-
0.2.7	ARO - Miscellaneous Expenses (SF-MISC)	-	-	-	-	-	95	-	95	-	95	-	-	-	-	-	-	-	-
0.2.8	ARO - DPO and PMO Payroll (LT-PAYROLL)	-	-	-	-	-	3,976	-	3,976	3,976	-	-	-	-	-	-	-	-	-
0.2.9	ARO - Outside Consultants (LT-Consult)	-	-	-	-	-	1,000	-	1,000	1,000	-	-	-	-	-	-	-	-	-
0.2.10	ARO - (Other)	-	-	-	-	-	598	-	598	598	-	-	-	-	-	-	-	-	-
0.2.11	ARO - Spent Fuel Cask (SF-CASK)	-	-	-	-	-	8	-	8	-	8	-	-	-	-	-	-	-	-
0.2.29	Third Party Advisor	-	-	-	-	-	630	-	630	630	-	-	-	-	-	-	-	-	-
0.2.35	Non-Incremental Labor / Site Staff Support (Non-DPO) Planning and Preparation	-	-	-	-	-	1,786	14	1,800	1,800	-	-	-	-	-	-	-	-	-
0.2	Subtotal Period 0 Additional Costs	-	-	-	-	-	18,681	737	19,418	14,665	4,753	-	-	-	-	-	-	-	-
Period 0 Period-Dependent Costs																			
0.4.4	NRC Fees	-	-	-	-	-	455	45	500	500	-	-	-	-	-	-	-	-	-
0.4	Subtotal Period 0 Period-Dependent Costs	-	-	-	-	-	455	45	500	500	-	-	-	-	-	-	-	-	-
PERIOD 0 TOTALS		-	-	-	-	-	19,135	782	19,918	15,165	4,753	-	-	-	-	-	-	-	-
Period start date: Thursday, January 1, 2015																			
Period end date: Sunday, March 1, 2015																			
Period duration: 1.94 months																			
Period 1a Direct Decommissioning Activities																			
Period 1a Additional Costs																			
1a.2.1	Financing Cost and Interest	-	-	-	-	-	116	-	116	116	-	-	-	-	-	-	-	-	-
1a.2.2	ISFSI Pad	-	-	-	-	-	809	408	1,217	-	1,217	-	-	-	-	-	-	-	-
1a.2.3	ISFSI Pad (Utility Staff Contribution)	-	-	-	-	-	(201)	-	(201)	-	(201)	-	-	-	-	-	-	-	-
1a.2.8	Security Phase 1 & II (Lic Term)	-	-	-	-	-	180	11	191	191	-	-	-	-	-	-	-	-	-
1a.2.9	Security Phase 1 & II (Lic Term) (Utility Staff Contribution)	-	-	-	-	-	(15)	-	(15)	(15)	-	-	-	-	-	-	-	-	-
1a.2.10	Security Phase 1 & II (Spent Fuel)	-	-	-	-	-	358	-	358	-	358	-	-	-	-	-	-	-	-
1a.2.11	Security Phase 1 & II (Spent Fuel) (Utility Staff Contribution)	-	-	-	-	-	(14)	-	(14)	(14)	-	-	-	-	-	-	-	-	-
1a.2.12	Rad Waste / Water Mgt.	-	-	-	-	-	143	54	198	198	-	-	-	-	-	-	-	-	-
1a.2.13	Rad Waste / Water Mgt. (Utility Staff Contribution)	-	-	-	-	-	(6)	-	(6)	(6)	-	-	-	-	-	-	-	-	-
1a.2.14	B.5.B	-	-	-	-	-	40	-	40	40	-	-	-	-	-	-	-	-	-
1a.2.16	System Abandonment	-	-	-	-	-	50	-	50	50	-	-	-	-	-	-	-	-	-
1a.2.17	System Abandonment (Utility Staff Contribution)	-	-	-	-	-	(22)	-	(22)	(22)	-	-	-	-	-	-	-	-	-
1a.2.18	Building Layups	-	-	-	-	-	249	58	307	307	-	-	-	-	-	-	-	-	-
1a.2.19	Building Layups (Utility Staff Contribution)	-	-	-	-	-	(20)	-	(20)	(20)	-	-	-	-	-	-	-	-	-
1a.2.20	Credit (Site Non-Labor Overhead, Insurance, NRC Fees, Property Taxes, EP Fees, Energy, Corporate A&G while defueling)	-	-	-	-	-	(2,401)	-	(2,401)	(2,401)	-	-	-	-	-	-	-	-	-
1a.2.21	Credit (Utility and Security Staff Labor - O&M Expenditures while defueling)	-	-	-	-	-	(3,294)	-	(3,294)	(3,294)	-	-	-	-	-	-	-	-	(49,727)
1a.2.22	State of Vermont Payment in Lieu of Taxes	-	-	-	-	-	808	-	808	808	-	-	-	-	-	-	-	-	-
1a.2.23	E Plan and Licensing Contractors	-	-	-	-	-	36	-	36	36	-	-	-	-	-	-	-	-	-
1a.2.27	Asbestos Shipments	-	-	-	-	-	7	-	7	7	-	-	-	-	-	-	-	-	-
1a.2.28	ARO - (Other)	-	-	-	-	-	48	-	48	48	-	-	-	-	-	-	-	-	-
1a.2.29	Third Party Advisor	-	-	-	-	-	99	-	99	99	-	-	-	-	-	-	-	-	-
1a.2.30	IT Support and IT Projects	-	-	-	-	-	78	-	78	78	-	-	-	-	-	-	-	-	-
1a.2.33	Fees Paid by Headquarters (excl NEI annual)	-	-	-	-	-	14	-	14	-	14	-	-	-	-	-	-	-	-
1a.2.36	Communication Plan	-	-	-	-	-	48	-	48	48	-	-	-	-	-	-	-	-	-
1a.2.37	Transcanada - Min River Flow Contract	-	-	-	-	-	4	-	4	4	-	-	-	-	-	-	-	-	-
1a.2.38	NEI Annual Fee	-	-	-	-	-	10	-	10	-	10	-	-	-	-	-	-	-	-
1a.2.39	PMO Discretionary Contingency	-	-	-	-	-	-	404	404	404	-	-	-	-	-	-	-	-	-
1a.2	Subtotal Period 1a Additional Costs	-	-	-	-	-	(2,875)	935	(1,940)	(3,337)	1,398	-	-	-	-	-	-	-	(49,727)
Period 1a Collateral Costs																			
1a.3.1	Legal (License Termination)	-	-	-	-	-	326	-	326	326	-	-	-	-	-	-	-	-	-
1a.3.2	PMO Labor Support (excluding Legal)	-	-	-	-	-	389	58	448	448	-	-	-	-	-	-	-	-	-
1a.3	Subtotal Period 1a Collateral Costs	-	-	-	-	-	715	58	774	774	-	-	-	-	-	-	-	-	-
Period 1a Period-Dependent Costs																			
1a.4.1	Insurance	-	-	-	-	-	313	31	345	345	-	-	-	-	-	-	-	-	-
1a.4.2	Property taxes	-	-	-	-	-	118	12	129	129	-	-	-	-	-	-	-	-	-
1a.4.3	Health physics supplies	-	67	-	-	-	-	17	84	84	-	-	-	-	-	-	-	-	-
1a.4.4	Disposal of DAW generated	-	-	2	2	5	-	2	10	10	-	-	99	-	-	-	1,970	3	-
1a.4.5	Plant energy budget	-	-	-	-	-	598	90	688	688	-	-	-	-	-	-	-	-	-
1a.4.6	NRC Fees	-	-	-	-	-	299	30	329	329	-	-	-	-	-	-	-	-	-
1a.4.7	Emergency Planning Fees	-	-	-	-	-	837	84	920	-	920	-	-	-	-	-	-	-	-
1a.4.8	Site Non-Labor Overhead	-	-	-	-	-	681	102	783	783	-	-	-	-	-	-	-	-	-
1a.4.9	Corporate A&G Cost	-	-	-	-	-	1,398	210	1,608	1,608	-	-	-	-	-	-	-	-	-
1a.4.10	Security Staff Cost	-	-	-	-	-	1,838	276	2,114	2,114	-	-	-	-	-	-	-	-	45,514
1a.4.11	Utility Staff Cost	-	-	-	-	-	4,547	682	5,230	5,230	-	-	-	-	-	-	-	-	68,440
1a.4	Subtotal Period 1a Period-Dependent Costs	-	67	2	2	5	10,630	1,535	12,241	11,320	920	-	99	-	-	-	1,970	3	113,954
1a.0	**TOTAL PERIOD 1a COST**	-	67	2	2	5	8,471	2,528	11,075	8,757	2,318	-	99	-	-	-	1,970	3	64,227

Vermont Yankee Nuclear Power Station
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Activity Index	Costs run: Fri, Aug 22, 2014 at 09:27:05 DECCER Version 2010.09.091 Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
PERIOD 1b - SAFSTOR Limited DECON Activities																			
Period start date: Sunday, March 1, 2015																			
Period end date: Sunday, May 1, 2016																			
Period duration: 14.03 months																			
Period 1b Additional Costs																			
1b.2.1	Financing Cost and Interest	-	-	-	-	-	776	-	776	776	-	-	-	-	-	-	-	-	-
1b.2.2	ISFSI Pad	-	-	-	-	-	5,870	2,959	8,829	-	8,829	-	-	-	-	-	-	-	-
1b.2.3	ISFSI Pad (Utility Staff Contribution)	-	-	-	-	-	(1,549)	-	(1,549)	-	(1,549)	-	-	-	-	-	-	-	-
1b.2.8	Security Phase 1 & II (Lic Term)	-	-	-	-	-	933	57	990	990	-	-	-	-	-	-	-	-	-
1b.2.9	Security Phase 1 & II (Lic Term) (Utility Staff Contribution)	-	-	-	-	-	(80)	-	(80)	(80)	-	-	-	-	-	-	-	-	-
1b.2.10	Security Phase 1 & II (Spent Fuel)	-	-	-	-	-	1,150	707	1,857	-	1,857	-	-	-	-	-	-	-	-
1b.2.11	Security Phase 1 & II (Spent Fuel) (Utility Staff Contribution)	-	-	-	-	-	(71)	-	(71)	(71)	-	-	-	-	-	-	-	-	-
1b.2.12	Rad Waste / Water Mgt.	-	-	-	-	-	743	283	1,025	1,025	-	-	-	-	-	-	-	-	-
1b.2.13	Rad Waste / Water Mgt. (Utility Staff Contribution)	-	-	-	-	-	(30)	-	(30)	(30)	-	-	-	-	-	-	-	-	-
1b.2.14	B.5.B	-	-	-	-	-	210	-	210	210	-	-	-	-	-	-	-	-	-
1b.2.16	System Abandonment	-	-	-	-	-	259	-	259	259	-	-	-	-	-	-	-	-	-
1b.2.17	System Abandonment (Utility Staff Contribution)	-	-	-	-	-	(112)	-	(112)	(112)	-	-	-	-	-	-	-	-	-
1b.2.18	Building Layups	-	-	-	-	-	1,263	370	1,632	1,632	-	-	-	-	-	-	-	-	-
1b.2.19	Building Layups (Utility Staff Contribution)	-	-	-	-	-	(105)	-	(105)	(105)	-	-	-	-	-	-	-	-	-
1b.2.22	State of Vermont Payment in Lieu of Taxes	-	-	-	-	-	4,192	-	4,192	4,192	-	-	-	-	-	-	-	-	-
1b.2.23	E Plan and Licensing Contractors	-	-	-	-	-	217	-	217	217	-	-	-	-	-	-	-	-	-
1b.2.27	Asbestos Shipments	-	-	-	-	-	51	-	51	51	-	-	-	-	-	-	-	-	-
1b.2.28	ARO - (Other)	-	-	-	-	-	331	-	331	331	-	-	-	-	-	-	-	-	-
1b.2.29	Third Party Advisor	-	-	-	-	-	600	-	600	600	-	-	-	-	-	-	-	-	-
1b.2.30	IT Support and IT Projects	-	-	-	-	-	542	-	542	542	-	-	-	-	-	-	-	-	-
1b.2.31	SAFSTOR Organization Severance	-	-	-	-	-	1,389	-	1,389	1,389	-	-	-	-	-	-	-	-	-
1b.2.33	Fees Paid by Headquarters (excl NEI annual)	-	-	-	-	-	100	-	100	-	100	-	-	-	-	-	-	-	-
1b.2.36	Communication Plan	-	-	-	-	-	261	-	261	261	-	-	-	-	-	-	-	-	-
1b.2.37	Transcanada - Min River Flow Contract	-	-	-	-	-	29	-	29	29	-	-	-	-	-	-	-	-	-
1b.2.38	NEI Annual Fee	-	-	-	-	-	70	-	70	-	70	-	-	-	-	-	-	-	-
1b.2.39	PMO Discretionary Contingency	-	-	-	-	-	-	3,088	3,088	3,088	-	-	-	-	-	-	-	-	-
1b.2	Subtotal Period 1b Additional Costs	-	-	-	-	-	17,038	7,463	24,501	15,194	9,307	-	-	-	-	-	-	-	-
Period 1b Collateral Costs																			
1b.3.2	Legal (License Termination)	-	-	-	-	-	2,230	-	2,230	2,230	-	-	-	-	-	-	-	-	-
1b.3.3	PMO Labor Support (excluding Legal)	-	-	-	-	-	2,566	385	2,951	2,951	-	-	-	-	-	-	-	-	-
1b.3	Subtotal Period 1b Collateral Costs	-	-	-	-	-	4,797	385	5,182	5,182	-	-	-	-	-	-	-	-	-
Period 1b Period-Dependent Costs																			
1b.4.2	Insurance	-	-	-	-	-	2,223	222	2,445	2,445	-	-	-	-	-	-	-	-	-
1b.4.3	Property taxes	-	-	-	-	-	663	66	729	729	-	-	-	-	-	-	-	-	-
1b.4.4	Health physics supplies	-	488	-	-	-	-	122	610	610	-	-	-	-	-	-	-	-	-
1b.4.5	Disposal of DAW generated	-	-	13	13	36	-	12	73	73	-	-	713	-	-	-	14,261	23	-
1b.4.6	Plant energy budget	-	-	-	-	-	3,858	579	4,436	4,436	-	-	-	-	-	-	-	-	-
1b.4.7	NRC Fees	-	-	-	-	-	1,973	197	2,171	2,171	-	-	-	-	-	-	-	-	-
1b.4.8	Emergency Planning Fees	-	-	-	-	-	6,083	608	6,691	-	6,691	-	-	-	-	-	-	-	-
1b.4.9	Site Non-Labor Overhead	-	-	-	-	-	4,569	685	5,254	5,254	-	-	-	-	-	-	-	-	-
1b.4.10	Corporate A&G Cost	-	-	-	-	-	9,046	1,357	10,403	10,403	-	-	-	-	-	-	-	-	-
1b.4.11	Security Staff Cost	-	-	-	-	-	10,267	1,540	11,807	11,807	-	-	-	-	-	-	-	-	248,685
1b.4.12	Utility Staff Cost	-	-	-	-	-	32,829	4,924	37,754	37,754	-	-	-	-	-	-	-	-	495,320
1b.4	Subtotal Period 1b Period-Dependent Costs	-	488	13	13	36	71,510	10,314	82,373	75,683	6,691	-	713	-	-	-	14,261	23	744,005
1b.0	**TOTAL PERIOD 1b COST**	-	488	13	13	36	93,345	18,162	112,057	96,059	15,998	-	713	-	-	-	14,261	23	744,005
PERIOD 1 TOTALS		-	556	15	14	41	101,816	20,690	123,132	104,816	18,316	-	812	-	-	-	16,231	26	808,232
PERIOD 2a - SAFSTOR Dormancy with Wet Spent Fuel Storage																			
Period start date: Sunday, May 1, 2016																			
Period end date: July 1, 2020																			
Period duration: 50 months																			
Period 2a Direct Decommissioning Activities																			
2a.1.1	Quarterly Inspection	-	-	-	-	-	-	-	a	-	-	-	-	-	-	-	-	-	-
2a.1.2	Semi-annual environmental survey	-	-	-	-	-	-	-	a	-	-	-	-	-	-	-	-	-	-
2a.1.3	Prepare reports	-	-	-	-	-	-	-	a	-	-	-	-	-	-	-	-	-	-
2a.1.4	Bituminous roof replacement	-	-	-	-	-	121	18	139	139	-	-	-	-	-	-	-	-	-
2a.1.5	Maintenance supplies	-	-	-	-	-	579	145	724	724	-	-	-	-	-	-	-	-	-
2a.1	Subtotal Period 2a Activity Costs	-	-	-	-	-	700	163	863	863	-	-	-	-	-	-	-	-	-
Period 2a Additional Costs																			
2a.2.1	Financing Cost and Interest	-	-	-	-	-	2,367	-	2,367	2,367	-	-	-	-	-	-	-	-	-
2a.2.2	ISFSI Pad	-	-	-	-	-	5,745	2,896	8,641	-	8,641	-	-	-	-	-	-	-	-
2a.2.3	ISFSI Pad (Utility Staff Contribution)	-	-	-	-	-	(2,556)	-	(2,556)	-	(2,556)	-	-	-	-	-	-	-	-
2a.2.4	2019 DFS Campaign	-	-	-	-	-	73,670	7,367	81,037	-	81,037	-	-	-	-	-	-	-	-
2a.2.6	2020 DFS Campaign	-	-	-	-	-	26,200	2,620	28,820	-	28,820	-	-	-	-	-	-	-	-
2a.2.10	Security Phase 1 & II (Spent Fuel)	-	-	-	-	-	5,423	1,627	7,050	-	7,050	-	-	-	-	-	-	-	-
2a.2.18	Building Layups	-	-	-	-	-	51	63	114	114	-	-	-	-	-	-	-	-	-
2a.2.23	E Plan and Licensing Contractors	-	-	-	-	-	467	-	467	467	-	-	-	-	-	-	-	-	-
2a.2.24	2018 Spent Fuel Pool Clean Up (New Components to SFP Post Shutdown)	-	-	-	-	-	410	-	410	410	-	-	-	-	-	-	-	-	-
2a.2.27	Asbestos Shipments	-	-	-	-	-	205	-	205	205	-	-	-	-	-	-	-	-	-
2a.2.28	ARO - (Other)	-	-	-	-	-	521	-	521	521	-	-	-	-	-	-	-	-	-
2a.2.29	Third Party Advisor	-	-	-	-	-	171	-	171	171	-	-	-	-	-	-	-	-	-
2a.2.30	IT Support and IT Projects	-	-	-	-	-	301	-	301	301	-	-	-	-	-	-	-	-	-

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Period 2a Additional Costs (continued)																			
2a.2.31	SAFSTOR Organization Severance	-	-	-	-	-	3,707	-	3,707	3,707	-	-	-	-	-	-	-	-	-
2a.2.33	Fees Paid by Headquarters (excl NEI annual)	-	-	-	-	-	359	-	359	-	359	-	-	-	-	-	-	-	-
2a.2.36	Communication Plan	-	-	-	-	-	170	-	170	170	-	-	-	-	-	-	-	-	-
2a.2.37	Transcanada - Min River Flow Contract	-	-	-	-	-	104	-	104	104	-	-	-	-	-	-	-	-	-
2a.2.38	NEI Annual Fee	-	-	-	-	-	250	-	250	-	250	-	-	-	-	-	-	-	-
2a.2.39	PMO Discretionary Contingency	-	-	-	-	-	-	6,383	6,383	6,383	-	-	-	-	-	-	-	-	-
2a.2	Subtotal Period 2a Additional Costs	-	-	-	-	-	117,564	20,955	138,519	14,918	123,601	-	-	-	-	-	-	-	-
Period 2a Collateral Costs																			
2a.3.1	Legal (License Termination)	-	-	-	-	-	6,752	-	6,752	6,752	-	-	-	-	-	-	-	-	-
2a.3.2	PMO Labor Support (excluding Legal)	-	-	-	-	-	5,262	789	6,052	6,052	-	-	-	-	-	-	-	-	-
2a.3	Subtotal Period 2a Collateral Costs	-	-	-	-	-	12,014	789	12,804	12,804	-	-	-	-	-	-	-	-	-
Period 2a Period-Dependent Costs																			
2a.4.1	Insurance	-	-	-	-	-	3,072	307	3,379	2,239	1,140	-	-	-	-	-	-	-	-
2a.4.2	Property taxes	-	-	-	-	-	216	22	238	238	-	-	-	-	-	-	-	-	-
2a.4.3	Health physics supplies	-	700	-	-	-	-	175	875	875	-	-	-	-	-	-	-	-	-
2a.4.4	Disposal of DAW generated	-	-	17	17	48	-	16	99	99	-	-	962	-	-	-	19,238	31	-
2a.4.5	Plant energy budget	-	-	-	-	-	8,764	1,315	10,079	779	9,300	-	-	-	-	-	-	-	-
2a.4.6	NRC Fees	-	-	-	-	-	3,523	352	3,875	3,875	-	-	-	-	-	-	-	-	-
2a.4.7	Emergency Planning Fees	-	-	-	-	-	5,930	593	6,523	-	6,523	-	-	-	-	-	-	-	-
2a.4.8	Site Non-Labor Overhead	-	-	-	-	-	8,520	1,278	9,798	374	9,424	-	-	-	-	-	-	-	-
2a.4.9	Corporate A&G Cost	-	-	-	-	-	9,851	1,478	11,329	563	10,766	-	-	-	-	-	-	-	-
2a.4.10	Security Staff Cost	-	-	-	-	-	32,747	4,912	37,659	3,092	34,568	-	-	-	-	-	-	-	756,651
2a.4.11	Utility Staff Cost	-	-	-	-	-	23,434	3,515	26,949	5,027	21,923	-	-	-	-	-	-	-	347,886
2a.4	Subtotal Period 2a Period-Dependent Costs	-	700	17	17	48	96,059	13,963	110,804	17,161	93,643	-	962	-	-	-	19,238	31	1,104,537
2a.0	**TOTAL PERIOD 2a COST**	-	700	17	17	48	226,338	35,870	262,990	45,746	217,244	-	962	-	-	-	19,238	31	1,104,537
PERIOD 2aa - Post Spent Fuel Pool Layup Activities																			
Period start date: July 1, 2020																			
Period end date: Friday, January 1, 2021																			
Period duration: 6.05 months																			
Period 2aa Direct Decommissioning Activities																			
2aa.1.1	Prepare support equipment for storage	-	485	-	-	-	-	73	558	558	-	-	-	-	-	-	-	3,000	-
2aa.1.2	Install containment pressure equal. lines	-	48	-	-	-	-	7	55	55	-	-	-	-	-	-	-	700	-
2aa.1.3	Interim survey prior to dormancy	-	-	-	-	-	733	220	953	953	-	-	-	-	-	-	-	11,126	-
2aa.1.4	Secure building accesses	-	-	-	-	-	-	-	a	-	-	-	-	-	-	-	-	-	-
2aa.1.5	Prepare & submit interim report	-	-	-	-	-	74	11	85	85	-	-	-	-	-	-	-	-	583
2aa.1	Subtotal Period 2aa Activity Costs	-	533	-	-	-	807	311	1,651	1,651	-	-	-	-	-	-	-	14,826	583
Period 2aa Additional Costs																			
2aa.2.1	Financing Cost and Interest	-	-	-	-	-	261	-	261	261	-	-	-	-	-	-	-	-	-
2aa.2.25	Reactivate Rail Spur ($125 K)	-	-	-	-	-	125	-	125	125	-	-	-	-	-	-	-	-	-
2aa.2.26	Spent Fuel Racks	658	77	130	256	798	-	599	2,517	2,517	-	-	10,634	-	-	-	638,066	1,332	-
2aa.2.31	SAFSTOR Organization Severance	-	-	-	-	-	905	-	905	905	-	-	-	-	-	-	-	-	-
2aa.2.33	Fees Paid by Headquarters (excl NEI annual)	-	-	-	-	-	43	-	43	-	43	-	-	-	-	-	-	-	-
2aa.2.37	Transcanada - Min River Flow Contract	-	-	-	-	-	13	-	13	13	-	-	-	-	-	-	-	-	-
2aa.2.38	NEI Annual Fee	-	-	-	-	-	30	-	30	-	30	-	-	-	-	-	-	-	-
2aa.2.39	PMO Discretionary Contingency	-	-	-	-	-	-	126	126	126	-	-	-	-	-	-	-	-	-
2aa.2	Subtotal Period 2aa Additional Costs	658	77	130	256	798	1,377	725	4,020	3,947	73	-	10,634	-	-	-	638,066	1,332	-
Period 2aa Collateral Costs																			
2aa.3.1	Process decommissioning water waste	58	-	32	138	147	-	89	464	464	-	-	367	-	-	-	22,008	72	-
2aa.3.3	Small tool allowance	-	13	-	-	-	-	2	15	15	-	-	-	-	-	-	-	-	-
2aa.3.4	Legal (License Termination)	-	-	-	-	-	804	-	804	804	-	-	-	-	-	-	-	-	-
2aa.3.5	PMO Labor Support (excluding Legal)	-	-	-	-	-	578	87	665	665	-	-	-	-	-	-	-	-	-
2aa.3	Subtotal Period 2aa Collateral Costs	58	13	32	138	147	1,382	178	1,949	1,949	-	-	367	-	-	-	22,008	72	-
Period 2aa Period-Dependent Costs																			
2aa.4.1	Insurance	-	-	-	-	-	266	27	292	292	-	-	-	-	-	-	-	-	-
2aa.4.2	Property taxes	-	-	-	-	-	3	0	4	4	-	-	-	-	-	-	-	-	-
2aa.4.3	Health physics supplies	-	210	-	-	-	-	53	263	263	-	-	-	-	-	-	-	-	-
2aa.4.4	Disposal of DAW generated	-	-	3	3	10	-	3	20	20	-	-	194	-	-	-	3,874	6	-
2aa.4.5	Plant energy budget	-	-	-	-	-	1,040	156	1,196	1,196	-	-	-	-	-	-	-	-	-
2aa.4.6	NRC Fees	-	-	-	-	-	287	29	316	316	-	-	-	-	-	-	-	-	-
2aa.4.7	Site Non-Labor Overhead	-	-	-	-	-	163	24	188	188	-	-	-	-	-	-	-	-	-
2aa.4.8	Corporate A&G Cost	-	-	-	-	-	598	90	687	687	-	-	-	-	-	-	-	-	-
2aa.4.9	Security Staff Cost	-	-	-	-	-	1,268	190	1,458	1,458	-	-	-	-	-	-	-	-	27,337
2aa.4.10	Utility Staff Cost	-	-	-	-	-	955	143	1,098	1,098	-	-	-	-	-	-	-	-	16,823
2aa.4	Subtotal Period 2aa Period-Dependent Costs	-	210	3	3	10	4,581	715	5,523	5,523	-	-	194	-	-	-	3,874	6	44,160
2aa.0	**TOTAL PERIOD 2aa COST**	716	834	165	397	954	8,147	1,929	13,143	13,070	73	-	11,195	-	-	-	663,948	16,236	44,743

Vermont Yankee Nuclear Power Station
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Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
PERIOD 2b - SAFSTOR Dormancy with Dry Spent Fuel Storage																			
Period start date: Friday, January 1, 2021																			
Period end date: Wednesday, January 1, 2053																			
Period duration: 384 months																			
Period 2b Direct Decommissioning Activities																			
2b.1.1	Quarterly Inspection	-	-	-	-	-	-	-	a	-	-	-	-	-	-	-	-	-	-
2b.1.2	Semi-annual environmental survey	-	-	-	-	-	-	-	a	-	-	-	-	-	-	-	-	-	-
2b.1.3	Prepare reports	-	-	-	-	-	-	-	a	-	-	-	-	-	-	-	-	-	-
2b.1.4	Bituminous roof replacement	-	-	-	-	-	931	140	1,071	1,071	-	-	-	-	-	-	-	-	-
2b.1.5	Maintenance supplies	-	-	-	-	-	4,448	1,112	5,560	5,560	-	-	-	-	-	-	-	-	-
2b.1	Subtotal Period 2b Activity Costs	-	-	-	-	-	5,379	1,252	6,631	6,631	-	-	-	-	-	-	-	-	-
Period 2b Additional Costs																			
2b.2.1	Financing Cost and Interest	-	-	-	-	-	4,710	-	4,710	4,710	-	-	-	-	-	-	-	-	-
2b.2.2	NEI Annual Fee	-	-	-	-	-	1,920	-	1,920	-	1,920	-	-	-	-	-	-	-	-
2b.2	Subtotal Period 2b Additional Costs	-	-	-	-	-	6,630	-	6,630	4,710	1,920	-	-	-	-	-	-	-	-
Period 2b Collateral Costs																			
2b.3.1	Spent Fuel Capital and Transfer	-	-	-	-	-	12,540	1,881	14,421	-	14,421	-	-	-	-	-	-	-	-
2b.3.2	Legal (License Termination)	-	-	-	-	-	4,800	-	4,800	4,800	-	-	-	-	-	-	-	-	-
2b.3	Subtotal Period 2b Collateral Costs	-	-	-	-	-	17,340	1,881	19,221	4,800	14,421	-	-	-	-	-	-	-	-
Period 2b Period-Dependent Costs																			
2b.4.1	Insurance	-	-	-	-	-	15,633	1,563	17,196	17,196	-	-	-	-	-	-	-	-	-
2b.4.2	Property taxes	-	-	-	-	-	218	22	239	239	-	-	-	-	-	-	-	-	-
2b.4.3	Health physics supplies	-	2,601	-	-	-	-	650	3,252	3,252	-	-	-	-	-	-	-	-	-
2b.4.4	Disposal of DAW generated	-	-	63	63	177	-	60	363	363	-	-	3,539	-	-	-	70,783	115	-
2b.4.5	Plant energy budget	-	-	-	-	-	7,412	1,112	8,524	5,981	2,543	-	-	-	-	-	-	-	-
2b.4.6	NRC Fees	-	-	-	-	-	10,403	1,040	11,443	11,443	-	-	-	-	-	-	-	-	-
2b.4.7	Site Non-Labor Overhead	-	-	-	-	-	9,278	1,392	10,669	2,876	7,794	-	-	-	-	-	-	-	-
2b.4.8	Corporate A&G Cost	-	-	-	-	-	4,817	722	5,539	4,324	1,215	-	-	-	-	-	-	-	-
2b.4.9	Security Staff Cost	-	-	-	-	-	80,556	12,083	92,640	23,742	68,898	-	-	-	-	-	-	-	1,736,503
2b.4.10	Utility Staff Cost	-	-	-	-	-	60,672	9,101	69,773	38,603	31,170	-	-	-	-	-	-	-	1,068,617
2b.4	Subtotal Period 2b Period-Dependent Costs	-	2,601	63	63	177	188,988	27,746	219,638	108,018	111,620	-	3,539	-	-	-	70,783	115	2,805,120
2b.0	**TOTAL PERIOD 2b COST**	-	2,601	63	63	177	218,337	30,879	252,120	124,159	127,961	-	3,539	-	-	-	70,783	115	2,805,120
PERIOD 2c - SAFSTOR Dormancy without Spent Fuel Storage																			
Period start date: Wednesday, January 1, 2053																			
Period end date: Sunday, January 1, 2068																			
Period duration: 179.98 months																			
Period 2c Direct Decommissioning Activities																			
2c.1.1	Quarterly Inspection	-	-	-	-	-	-	-	a	-	-	-	-	-	-	-	-	-	-
2c.1.2	Semi-annual environmental survey	-	-	-	-	-	-	-	a	-	-	-	-	-	-	-	-	-	-
2c.1.3	Prepare reports	-	-	-	-	-	-	-	a	-	-	-	-	-	-	-	-	-	-
2c.1.4	Bituminous roof replacement	-	-	-	-	-	436	65	502	502	-	-	-	-	-	-	-	-	-
2c.1.5	Maintenance supplies	-	-	-	-	-	2,085	521	2,606	2,606	-	-	-	-	-	-	-	-	-
2c.1	Subtotal Period 2c Activity Costs	-	-	-	-	-	2,521	587	3,108	3,108	-	-	-	-	-	-	-	-	-
Period 2c Additional Costs																			
2c.2.1	Financing Cost and Interest	-	-	-	-	-	2,200	-	2,200	2,200	-	-	-	-	-	-	-	-	-
2c.2	Subtotal Period 2c Additional Costs	-	-	-	-	-	2,200	-	2,200	2,200	-	-	-	-	-	-	-	-	-
Period 2c Period-Dependent Costs																			
2c.4.1	Insurance	-	-	-	-	-	7,327	733	8,060	8,060	-	-	-	-	-	-	-	-	-
2c.4.2	Property taxes	-	-	-	-	-	102	10	112	112	-	-	-	-	-	-	-	-	-
2c.4.3	Health physics supplies	-	1,149	-	-	-	-	287	1,437	1,437	-	-	-	-	-	-	-	-	-
2c.4.4	Disposal of DAW generated	-	-	27	27	77	-	26	157	157	-	-	1,532	-	-	-	30,644	50	-
2c.4.5	Plant energy budget	-	-	-	-	-	2,437	366	2,803	2,803	-	-	-	-	-	-	-	-	-
2c.4.6	NRC Fees	-	-	-	-	-	3,223	322	3,545	3,545	-	-	-	-	-	-	-	-	-
2c.4.7	Site Non-Labor Overhead	-	-	-	-	-	1,172	176	1,348	1,348	-	-	-	-	-	-	-	-	-
2c.4.8	Corporate A&G Cost	-	-	-	-	-	1,762	264	2,026	2,026	-	-	-	-	-	-	-	-	-
2c.4.9	Security Staff Cost	-	-	-	-	-	9,676	1,451	11,127	11,127	-	-	-	-	-	-	-	-	281,726
2c.4.10	Utility Staff Cost	-	-	-	-	-	15,733	2,360	18,093	18,093	-	-	-	-	-	-	-	-	281,726
2c.4	Subtotal Period 2c Period-Dependent Costs	-	1,149	27	27	77	41,432	5,996	48,708	48,708	-	-	1,532	-	-	-	30,644	50	563,451
2c.0	**TOTAL PERIOD 2c COST**	-	1,149	27	27	77	46,153	6,582	54,016	54,016	-	-	1,532	-	-	-	30,644	50	563,451
PERIOD 2 TOTALS		716	5,284	274	504	1,256	498,975	75,260	582,269	236,990	345,279	-	17,228	-	-	-	784,613	16,433	4,517,852

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Vermont Yankee Nuclear Power Station
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Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
PERIOD 3a - Reactivate Site Following SAFSTOR Dormancy																			
Period start date: Sunday, January 1, 2068																			
Period end date: Tuesday, January 1, 2069																			
Period duration: 12.02 months																			
Period 3a Direct Decommissioning Activities																			
3a.1.1	Prepare preliminary decommissioning cost	-	-	-	-	-	165	25	189	189	-	-	-	-	-	-	-	-	1,300
3a.1.2	Review plant dwgs & specs.	-	-	-	-	-	583	87	670	670	-	-	-	-	-	-	-	-	4,600
3a.1.3	Perform detailed rad survey	-	-	-	-	-	-	-	a	-	-	-	-	-	-	-	-	-	-
3a.1.4	End product description	-	-	-	-	-	127	19	146	146	-	-	-	-	-	-	-	-	1,000
3a.1.5	Detailed by-product inventory	-	-	-	-	-	165	25	189	189	-	-	-	-	-	-	-	-	1,300
3a.1.6	Define major work sequence	-	-	-	-	-	950	143	1,093	1,093	-	-	-	-	-	-	-	-	7,500
3a.1.7	Perform SER and EA	-	-	-	-	-	393	59	452	452	-	-	-	-	-	-	-	-	3,100
3a.1.8	Perform Site-Specific Cost Study	-	-	-	-	-	634	95	729	729	-	-	-	-	-	-	-	-	5,000
3a.1.9	Prepare/submit License Termination Plan	-	-	-	-	-	519	78	597	597	-	-	-	-	-	-	-	-	4,096
3a.1.10	Receive NRC approval of termination plan	-	-	-	-	-	-	-	a	-	-	-	-	-	-	-	-	-	-
Activity Specifications																			
3a.1.11.1	Re-activate plant & temporary facilities	-	-	-	-	-	934	140	1,074	967	-	107	-	-	-	-	-	-	7,370
3a.1.11.2	Plant systems	-	-	-	-	-	528	79	607	546	-	61	-	-	-	-	-	-	4,167
3a.1.11.3	Reactor internals	-	-	-	-	-	900	135	1,035	1,035	-	-	-	-	-	-	-	-	7,100
3a.1.11.4	Reactor vessel	-	-	-	-	-	824	124	947	947	-	-	-	-	-	-	-	-	6,500
3a.1.11.5	Sacrificial shield	-	-	-	-	-	63	10	73	73	-	-	-	-	-	-	-	-	500
3a.1.11.6	Moisture separators/reheaters	-	-	-	-	-	127	19	146	146	-	-	-	-	-	-	-	-	1,000
3a.1.11.7	Reinforced concrete	-	-	-	-	-	203	30	233	117	-	117	-	-	-	-	-	-	1,600
3a.1.11.8	Main Turbine	-	-	-	-	-	265	40	304	304	-	-	-	-	-	-	-	-	2,088
3a.1.11.9	Main Condensers	-	-	-	-	-	265	40	304	304	-	-	-	-	-	-	-	-	2,088
3a.1.11.10	Pressure suppression structure	-	-	-	-	-	253	38	291	291	-	-	-	-	-	-	-	-	2,000
3a.1.11.11	Drywell	-	-	-	-	-	203	30	233	233	-	-	-	-	-	-	-	-	1,600
3a.1.11.12	Plant structures & buildings	-	-	-	-	-	395	59	455	227	-	227	-	-	-	-	-	-	3,120
3a.1.11.13	Waste management	-	-	-	-	-	583	87	670	670	-	-	-	-	-	-	-	-	4,600
3a.1.11.14	Facility & site closeout	-	-	-	-	-	114	17	131	66	-	66	-	-	-	-	-	-	900
3a.1.11	Total	-	-	-	-	-	5,656	848	6,504	5,927	-	578	-	-	-	-	-	-	44,633
Planning & Site Preparations																			
3a.1.12	Prepare dismantling sequence	-	-	-	-	-	304	46	350	350	-	-	-	-	-	-	-	-	2,400
3a.1.13	Plant prep. & temp. svces	-	-	-	-	-	3,000	450	3,450	3,450	-	-	-	-	-	-	-	-	-
3a.1.14	Design water clean-up system	-	-	-	-	-	177	27	204	204	-	-	-	-	-	-	-	-	1,400
3a.1.15	Rigging/Cont. Cntrl Envlps/tooling/etc.	-	-	-	-	-	2,300	345	2,645	2,645	-	-	-	-	-	-	-	-	-
3a.1.16	Procure casks/liners & containers	-	-	-	-	-	156	23	179	179	-	-	-	-	-	-	-	-	1,230
3a.1	Subtotal Period 3a Activity Costs	-	-	-	-	-	15,128	2,269	17,397	16,820	-	578	-	-	-	-	-	-	77,559
Period 3a Additional Costs																			
3a.2.1	Financing Cost and Interest	-	-	-	-	-	520	-	520	520	-	-	-	-	-	-	-	-	-
3a.2	Subtotal Period 3a Additional Costs	-	-	-	-	-	520	-	520	520	-	-	-	-	-	-	-	-	-
Period 3a Period-Dependent Costs																			
3a.4.1	Insurance	-	-	-	-	-	534	53	588	588	-	-	-	-	-	-	-	-	-
3a.4.2	Property taxes	-	-	-	-	-	7	1	7	7	-	-	-	-	-	-	-	-	-
3a.4.3	Health physics supplies	-	366	-	-	-	-	91	457	457	-	-	-	-	-	-	-	-	-
3a.4.4	Heavy equipment rental	-	727	-	-	-	-	109	836	836	-	-	-	-	-	-	-	-	-
3a.4.5	Disposal of DAW generated	-	-	9	9	26	-	9	53	53	-	-	516	-	-	-	10,315	17	-
3a.4.6	Plant energy budget	-	-	-	-	-	1,629	244	1,873	1,873	-	-	-	-	-	-	-	-	-
3a.4.7	NRC Fees	-	-	-	-	-	215	21	236	236	-	-	-	-	-	-	-	-	-
3a.4.8	Site Non-Labor Overhead	-	-	-	-	-	119	18	137	137	-	-	-	-	-	-	-	-	-
3a.4.9	Corporate A&G Cost	-	-	-	-	-	1,760	264	2,024	2,024	-	-	-	-	-	-	-	-	-
3a.4.10	Security Staff Cost	-	-	-	-	-	1,732	260	1,992	1,992	-	-	-	-	-	-	-	-	64,834
3a.4.11	Utility Staff Cost	-	-	-	-	-	15,420	2,313	17,733	17,733	-	-	-	-	-	-	-	-	259,337
3a.4	Subtotal Period 3a Period-Dependent Costs	-	1,093	9	9	26	21,416	3,384	25,937	25,937	-	-	516	-	-	-	10,315	17	324,171
3a.0	**TOTAL PERIOD 3a COST**	-	1,093	9	9	26	37,064	5,653	43,854	43,277	-	578	516	-	-	-	10,315	17	401,730
PERIOD 3b - Decommissioning Preparations																			
Period start date: Tuesday, January 1, 2069																			
Period end date: Monday, July 1, 2069																			
Period duration: 5.95 months																			
Period 3b Direct Decommissioning Activities																			
Detailed Work Procedures																			
3b.1.1.1	Plant systems	-	-	-	-	-	600	90	690	621	-	69	-	-	-	-	-	-	4,733
3b.1.1.2	Reactor internals	-	-	-	-	-	507	76	583	583	-	-	-	-	-	-	-	-	4,000
3b.1.1.3	Remaining buildings	-	-	-	-	-	171	26	197	49	-	148	-	-	-	-	-	-	1,350
3b.1.1.4	CRD housings & NIs	-	-	-	-	-	127	19	146	146	-	-	-	-	-	-	-	-	1,000
3b.1.1.5	Incore instrumentation	-	-	-	-	-	127	19	146	146	-	-	-	-	-	-	-	-	1,000
3b.1.1.6	Removal primary containment	-	-	-	-	-	253	38	291	291	-	-	-	-	-	-	-	-	2,000
3b.1.1.7	Reactor vessel	-	-	-	-	-	460	69	529	529	-	-	-	-	-	-	-	-	3,630
3b.1.1.8	Facility closeout	-	-	-	-	-	152	23	175	87	-	87	-	-	-	-	-	-	1,200
3b.1.1.9	Sacrificial shield	-	-	-	-	-	152	23	175	175	-	-	-	-	-	-	-	-	1,200
3b.1.1.10	Reinforced concrete	-	-	-	-	-	127	19	146	73	-	73	-	-	-	-	-	-	1,000
3b.1.1.11	Main Turbine	-	-	-	-	-	264	40	303	303	-	-	-	-	-	-	-	-	2,080
3b.1.1.12	Main Condensers	-	-	-	-	-	265	40	304	304	-	-	-	-	-	-	-	-	2,088
3b.1.1.13	Moisture separators & reheaters	-	-	-	-	-	253	38	291	291	-	-	-	-	-	-	-	-	2,000
3b.1.1.14	Radwaste building	-	-	-	-	-	346	52	398	358	-	40	-	-	-	-	-	-	2,730
3b.1.1.15	Reactor building	-	-	-	-	-	346	52	398	358	-	40	-	-	-	-	-	-	2,730

Vermont Yankee Nuclear Power Station
SAFSTOR Alternative Decommissioning Cost Estimate
(thousands of 2014 dollars)

Activity Index	Costs run: Fri, Aug 22, 2014 at 09:27:05 DECCER Version 2010.09.091 Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
3b.1.1	Total	-	-	-	-	-	4,149	622	4,771	4,315	-	456	-	-	-	-	-	-	32,741
3b.1	Subtotal Period 3b Activity Costs	-	-	-	-	-	4,149	622	4,771	4,315	-	456	-	-	-	-	-	-	32,741
Period 3b Additional Costs																			
3b.2.1	Financing Cost and Interest	-	-	-	-	-	357	-	357	357	-	-	-	-	-	-	-	-	-
3b.2.2	Site characterization	-	-	-	-	-	3,013	904	3,917	3,917	-	-	-	-	-	-	-	19,100	7,852
3b.2.3	Asbestos remediation	-	2,227	63	84	1,482	-	946	4,801	4,801	-	-	35,826	-	-	-	734,506	27,290	-
3b.2.4	Reactivate Rail Spur	-	-	-	-	-	125	-	125	125	-	-	-	-	-	-	-	-	-
3b.2	Subtotal Period 3b Additional Costs	-	2,227	63	84	1,482	3,495	1,850	9,200	9,200	-	-	35,826	-	-	-	734,506	46,390	7,852
Period 3b Collateral Costs																			
3b.3.1	Decon equipment	750	-	-	-	-	-	113	863	863	-	-	-	-	-	-	-	-	-
3b.3.2	DOC staff relocation expenses	-	-	-	-	-	1,080	162	1,242	1,242	-	-	-	-	-	-	-	-	-
3b.3.3	Small tool allowance	-	28	-	-	-	-	4	33	33	-	-	-	-	-	-	-	-	-
3b.3.4	Pipe cutting equipment	-	1,100	-	-	-	-	165	1,265	1,265	-	-	-	-	-	-	-	-	-
3b.3	Subtotal Period 3b Collateral Costs	750	1,128	-	-	-	1,080	444	3,402	3,402	-	-	-	-	-	-	-	-	-
Period 3b Period-Dependent Costs																			
3b.4.1	Decon supplies	23	-	-	-	-	-	6	28	28	-	-	-	-	-	-	-	-	-
3b.4.2	Insurance	-	-	-	-	-	264	26	291	291	-	-	-	-	-	-	-	-	-
3b.4.3	Property taxes	-	-	-	-	-	3	0	4	4	-	-	-	-	-	-	-	-	-
3b.4.4	Health physics supplies	-	305	-	-	-	-	76	381	381	-	-	-	-	-	-	-	-	-
3b.4.5	Heavy equipment rental	-	359	-	-	-	-	54	413	413	-	-	-	-	-	-	-	-	-
3b.4.6	Disposal of DAW generated	-	-	5	5	14	-	5	30	30	-	-	289	-	-	-	5,770	9	-
3b.4.7	Plant energy budget	-	-	-	-	-	805	121	926	926	-	-	-	-	-	-	-	-	-
3b.4.8	NRC Fees	-	-	-	-	-	190	19	209	209	-	-	-	-	-	-	-	-	-
3b.4.9	Site Non-Labor Overhead	-	-	-	-	-	89	13	102	102	-	-	-	-	-	-	-	-	-
3b.4.10	Corporate A&G Cost	-	-	-	-	-	987	148	1,135	1,135	-	-	-	-	-	-	-	-	-
3b.4.11	Security Staff Cost	-	-	-	-	-	857	129	985	985	-	-	-	-	-	-	-	-	32,063
3b.4.12	DOC Staff Cost	-	-	-	-	-	5,297	795	6,092	6,092	-	-	-	-	-	-	-	-	57,920
3b.4.13	Utility Staff Cost	-	-	-	-	-	7,626	1,144	8,769	8,769	-	-	-	-	-	-	-	-	128,251
3b.4	Subtotal Period 3b Period-Dependent Costs	23	664	5	5	14	16,118	2,536	19,365	19,365	-	-	289	-	-	-	5,770	9	218,234
3b.0	TOTAL PERIOD 3b COST	773	4,020	68	89	1,496	24,842	5,452	36,739	36,283	-	456	36,115	-	-	-	740,276	46,399	258,827
PERIOD 3 TOTALS		773	5,113	77	98	1,522	61,906	11,105	80,593	79,559	-	1,034	36,630	-	-	-	750,592	46,416	660,557
PERIOD 4a - Large Component Removal																			
Period start date: Monday, July 1, 2069																			
Period end date: Friday, October 10, 2070																			
Period duration: 15.31 months																			
Period 4a Direct Decommissioning Activities																			
Nuclear Steam Supply System Removal																			
4a.1.1.1	Recirculation System Piping & Valves	25	82	21	42	164	-	82	416	416	-	-	1,181	-	-	-	131,132	1,762	-
4a.1.1.2	Recirculation Pumps & Motors	9	42	14	64	139	-	61	329	329	-	-	1,969	-	-	-	111,100	946	-
4a.1.1.3	CRDMs & NIs Removal	22	534	198	75	195	-	224	1,248	1,248	-	-	2,065	-	-	-	155,900	8,874	-
4a.1.1.4	Reactor Vessel Internals	31	3,330	3,864	1,981	6,877	304	7,458	23,846	23,846	-	-	2,128	1,002	505	-	349,132	28,867	1,287
4a.1.1.5	Vessel & Internals GTCC Disposal	-	-	-	-	1,428	-	214	1,642	1,642	-	-	-	-	-	357	65,690	-	-
4a.1.1.6	Reactor Vessel	13	7,143	2,149	1,151	1,337	304	6,903	19,001	19,001	-	-	10,777	-	-	-	1,090,230	28,867	1,287
4a.1.1	Totals	100	11,130	6,247	3,313	10,141	609	14,943	46,482	46,482	-	-	18,121	1,002	505	357	1,903,184	69,315	2,573
Removal of Major Equipment																			
4a.1.2	Main Turbine/Generator	-	248	897	1,202	3,751	-	1,270	7,367	7,367	-	-	50,008	-	-	-	3,000,454	3,897	-
4a.1.3	Main Condensers	-	530	503	675	2,105	-	810	4,623	4,623	-	-	28,067	-	-	-	1,684,000	8,400	-
Cascading Costs from Clean Building Demolition																			
4a.1.4.1	Reactor	-	760	-	-	-	-	114	874	874	-	-	-	-	-	-	-	7,765	-
4a.1.4.2	AOG	-	97	-	-	-	-	15	111	111	-	-	-	-	-	-	-	1,032	-
4a.1.4.3	Radwaste	-	31	-	-	-	-	5	36	36	-	-	-	-	-	-	-	339	-
4a.1.4.4	Turbine	-	268	-	-	-	-	40	309	309	-	-	-	-	-	-	-	2,999	-
4a.1.4	Totals	-	1,156	-	-	-	-	173	1,330	1,330	-	-	-	-	-	-	-	12,134	-
Disposal of Plant Systems																			
Reactor Building System Components																			
4a.1.5.1	RX-BLD-213-2_2	-	154	36	43	95	-	72	400	400	-	-	1,901	-	-	-	107,770	2,569	-
4a.1.5.2	RX-BLD-213-3_2	-	135	27	30	65	-	57	315	315	-	-	1,310	-	-	-	74,368	2,268	-
4a.1.5.3	RX-BLD-213-4_2	-	142	14	17	37	-	49	258	258	-	-	732	-	-	-	41,539	2,334	-
4a.1.5.4	RX-BLD-213-5_2	-	252	70	84	185	-	129	722	722	-	-	3,717	-	-	-	210,751	4,219	-
4a.1.5.5	RX-BLD-232-2_2	-	128	40	45	99	-	68	380	380	-	-	1,983	-	-	-	112,573	2,154	-
4a.1.5.6	RX-BLD-232-3_2	-	115	39	46	100	-	65	365	365	-	-	2,003	-	-	-	113,661	1,956	-
4a.1.5.7	RX-BLD-232-4_2	-	56	7	7	15	-	20	105	105	-	-	303	-	-	-	17,240	904	-
4a.1.5.8	RX-BLD-232-5_2	-	62	11	12	27	-	25	138	138	-	-	541	-	-	-	30,688	1,013	-
4a.1.5.9	RX-BLD-252-10_2	-	11	1	1	2	-	3	17	17	-	-	32	-	-	-	1,818	171	-
4a.1.5.10	RX-BLD-252-1_2	-	8	0	1	1	-	2	12	12	-	-	23	-	-	-	1,303	120	-
4a.1.5.11	RX-BLD-252-1_3	-	3	0	0	0	-	1	5	5	-	-	10	-	-	-	565	53	-
4a.1.5.12	RX-BLD-252-2_2	-	41	12	14	32	-	21	120	120	-	-	632	-	-	-	35,818	673	-
4a.1.5.13	RX-BLD-252-3_2	-	51	5	6	14	-	18	95	95	-	-	277	-	-	-	15,708	834	-
4a.1.5.14	RX-BLD-252-3_3	-	2	0	0	1	-	1	5	5	-	-	19	-	-	-	1,080	40	-
4a.1.5.15	RX-BLD-252-4_2	-	107	34	41	89	-	59	329	329	-	-	1,788	-	-	-	101,361	1,810	-
4a.1.5.16	RX-BLD-252-4_3	-	1	0	0	0	-	0	2	2	-	-	5	-	-	-	270	14	-
4a.1.5.17	RX-BLD-252-5_2	-	264	47	57	126	-	111	606	606	-	-	2,522	-	-	-	142,959	4,315	-
4a.1.5.18	RX-BLD-252-5_3	-	115	19	16	34	-	42	226	226	-	-	684	-	-	-	39,041	1,668	-

Vermont Yankee Nuclear Power Station
SAFSTOR Alternative Decommissioning Cost Estimate
(thousands of 2014 dollars)

Activity Index	Costs run: Fri, Aug 22, 2014 at 09:27:05 DECCER Version 2010.09.091 Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Burial Volumes Class A Cu. Feet	Class B Cu. Feet	Class C Cu. Feet	GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
Reactor Building System Components (continued)																			
4a.1.5.19	RX-BLD-252-6_2	-	220	35	43	95	-	89	483	483	-	-	1,915	-	-	-	108,509	3,576	-
4a.1.5.20	RX-BLD-252-6_3	-	119	20	17	37	-	43	236	236	-	-	735	-	-	-	41,939	1,733	-
4a.1.5.21	RX-BLD-252-7_2	-	198	19	22	49	-	67	355	355	-	-	977	-	-	-	55,423	3,209	-
4a.1.5.22	RX-BLD-252-8_2	-	60	9	10	23	-	23	126	126	-	-	458	-	-	-	25,996	976	-
4a.1.5.23	RX-BLD-252-9_2	-	99	11	12	27	-	34	184	184	-	-	539	-	-	-	30,580	1,603	-
4a.1.5.24	RX-BLD-252-9_3	-	22	4	5	10	-	9	50	50	-	-	201	-	-	-	11,423	344	-
4a.1.5	Totals	-	2,366	462	530	1,164	-	1,008	5,530	5,530	-	-	23,305	-	-	-	1,322,380	38,556	-
Turbine Building System Components																			
4a.1.6.1	TURB-BLD-222-10_2	-	112	12	14	32	-	39	209	209	-	-	646	-	-	-	36,021	1,862	-
4a.1.6.2	TURB-BLD-222-11_2	-	69	8	9	20	-	24	130	130	-	-	401	-	-	-	22,764	1,133	-
4a.1.6.3	TURB-BLD-222-1_2	-	446	130	146	320	-	226	1,268	1,268	-	-	6,414	-	-	-	364,074	7,518	-
4a.1.6.4	TURB-BLD-222-2_2	-	346	147	170	372	-	220	1,255	1,255	-	-	7,459	-	-	-	423,204	5,922	-
4a.1.6.5	TURB-BLD-222-3_2	-	99	35	42	93	-	58	327	327	-	-	1,867	-	-	-	105,854	1,657	-
4a.1.6.6	TURB-BLD-222-8_2	-	287	31	35	77	-	100	530	530	-	-	1,547	-	-	-	87,777	4,753	-
4a.1.6.7	TURB-BLD-222-9_2	-	162	118	122	267	-	137	806	806	-	-	5,340	-	-	-	303,519	2,912	-
4a.1.6.8	TURB-BLD-228-12_2	-	230	24	28	62	-	79	423	423	-	-	1,237	-	-	-	70,144	3,757	-
4a.1.6.9	TURB-BLD-228-13_2	-	150	11	14	30	-	48	252	252	-	-	601	-	-	-	34,088	2,457	-
4a.1.6.10	TURB-BLD-228-1_2	-	143	27	30	66	-	59	325	325	-	-	1,332	-	-	-	74,682	2,341	-
4a.1.6.11	TURB-BLD-228-2_2	-	420	162	175	384	-	244	1,385	1,385	-	-	7,692	-	-	-	436,884	7,211	-
4a.1.6.12	TURB-BLD-228-3_2	-	356	88	110	242	-	175	970	970	-	-	4,844	-	-	-	274,516	5,982	-
4a.1.6.13	TURB-BLD-228-4_2	-	396	102	127	278	-	198	1,101	1,101	-	-	5,583	-	-	-	316,403	6,640	-
4a.1.6.14	TURB-BLD-228-5_2	-	186	56	71	157	-	102	572	572	-	-	3,147	-	-	-	178,117	3,124	-
4a.1.6.15	TURB-BLD-228-6_2	-	153	47	60	132	-	85	478	478	-	-	2,654	-	-	-	150,217	2,594	-
4a.1.6	Totals	-	3,553	999	1,153	2,533	-	1,794	10,032	10,032	-	-	50,764	-	-	-	2,878,265	59,863	-
Augmented Offgas Building System Components																			
4a.1.7.1	AOG-BLD-FL1-1_2	-	36	6	6	14	-	14	76	76	-	-	274	-	-	-	15,388	585	-
4a.1.7.2	AOG-BLD-FL1-2_2	-	110	27	33	71	-	53	294	294	-	-	1,494	-	-	-	81,203	1,796	-
4a.1.7.3	AOG-BLD-FL1-3_2	-	108	27	29	64	-	50	278	278	-	-	1,288	-	-	-	73,150	1,754	-
4a.1.7.4	AOG-BLD-FL1-4_2	-	113	23	25	54	-	48	263	263	-	-	1,077	-	-	-	61,191	1,829	-
4a.1.7.5	AOG-BLD-FL1-5_2	-	113	13	16	36	-	41	220	220	-	-	732	-	-	-	41,112	1,825	-
4a.1.7.6	AOG-BLD-FL2-1_2	-	70	16	18	39	-	31	174	174	-	-	780	-	-	-	44,286	1,145	-
4a.1.7.7	AOG-BLD-FL2-2_2	-	8	1	1	2	-	3	16	16	-	-	50	-	-	-	2,815	135	-
4a.1.7.8	AOG-BLD-FL2-3_2	-	8	1	1	2	-	3	15	15	-	-	44	-	-	-	2,532	125	-
4a.1.7.9	AOG-BLD-FL2-4_2	-	60	15	17	38	-	29	159	159	-	-	760	-	-	-	43,099	982	-
4a.1.7.10	AOG-BLD-FL2-5_2	-	8	1	1	1	-	2	13	13	-	-	28	-	-	-	1,593	126	-
4a.1.7.11	AOG-BLD-FL2-6_2	-	7	1	1	2	-	3	14	14	-	-	44	-	-	-	2,532	117	-
4a.1.7.12	AOG-BLD-FL2-7_2	-	34	4	4	8	-	12	62	62	-	-	167	-	-	-	9,513	548	-
4a.1.7.13	AOG-BLD-FL2-8_2	-	17	2	2	5	-	6	32	32	-	-	93	-	-	-	5,274	268	-
4a.1.7.14	AOG-BLD-FL2-9_2	-	110	28	33	72	-	53	295	295	-	-	1,477	-	-	-	82,001	1,777	-
4a.1.7.15	AOG-BLDG-1_2	-	55	9	9	20	-	21	114	114	-	-	401	-	-	-	22,818	880	-
4a.1.7.16	AOG-BLDG-2_2	-	184	4	5	10	-	50	253	253	-	-	209	-	-	-	11,635	2,489	-
4a.1.7.17	AOG-BLDG-PENT_2	-	39	6	7	16	-	16	85	85	-	-	330	-	-	-	18,674	620	-
4a.1.7.18	AOG-BLDG-RF_2	-	85	21	27	59	-	42	233	233	-	-	1,182	-	-	-	66,958	1,338	-
4a.1.7	Totals	-	1,165	205	235	515	-	476	2,596	2,596	-	-	10,431	-	-	-	585,776	18,338	-
4a.1.8	Scaffolding in support of decommissioning	-	1,300	28	32	69	-	350	1,779	1,779	-	-	1,388	-	-	-	78,630	23,202	-
4a.1	Subtotal Period 4a Activity Costs	100	21,448	9,341	7,140	20,277	609	20,824	79,739	79,739	-	-	182,083	1,002	505	357	11,452,689	233,705	2,573
Period 4a Additional Costs																			
4a.2.1	Financing Cost and Interest	-	-	-	-	-	765	-	765	765	-	-	-	-	-	-	-	-	-
4a.2.2	Remedial action support surveys	-	-	-	-	-	1,645	494	2,139	2,139	-	-	-	-	-	-	-	26,538	-
4a.2.3	Retired low presure turbine rotors and casings	-	-	276	353	150	-	118	896	896	-	-	2,000	-	-	-	750,842	3,840	-
4a.2.4	Make up water for RPV segmentation & decontamination	-	-	-	-	-	100	15	115	115	-	-	-	-	-	-	-	-	-
4a.2	Subtotal Period 4a Additional Costs	-	-	276	353	150	2,510	627	3,915	3,915	-	-	2,000	-	-	-	750,842	30,378	-
Period 4a Collateral Costs																			
4a.3.1	Process decommissioning water waste	1	-	1	5	5	-	3	15	15	-	-	13	-	-	-	802	3	-
4a.3.3	Small tool allowance	-	213	-	-	-	-	32	245	220	-	24	-	-	-	-	-	-	-
4a.3	Subtotal Period 4a Collateral Costs	1	213	1	5	5	-	35	260	235	-	24	13	-	-	-	802	3	-
Period 4a Period-Dependent Costs																			
4a.4.1	Decon supplies	58	-	-	-	-	-	15	73	73	-	-	-	-	-	-	-	-	-
4a.4.2	Insurance	-	-	-	-	-	680	68	748	748	-	-	-	-	-	-	-	-	-
4a.4.3	Property taxes	-	-	-	-	-	9	1	10	9	-	1	-	-	-	-	-	-	-
4a.4.4	Health physics supplies	-	1,444	-	-	-	-	361	1,805	1,805	-	-	-	-	-	-	-	-	-
4a.4.5	Heavy equipment rental	-	2,736	-	-	-	-	410	3,147	3,147	-	-	-	-	-	-	-	-	-
4a.4.6	Disposal of DAW generated	-	-	82	82	229	-	78	470	470	-	-	4,581	-	-	-	91,619	149	-
4a.4.7	Plant energy budget	-	-	-	-	-	1,970	295	2,265	2,265	-	-	-	-	-	-	-	-	-
4a.4.8	NRC Fees	-	-	-	-	-	490	49	539	539	-	-	-	-	-	-	-	-	-
4a.4.9	Site Non-Labor Overhead	-	-	-	-	-	259	39	298	298	-	-	-	-	-	-	-	-	-
4a.4.10	Liquid Radwaste Processing Equipment/Services	-	-	-	-	-	512	77	589	589	-	-	-	-	-	-	-	-	-
4a.4.11	Corporate A&G Cost	-	-	-	-	-	2,541	381	2,922	2,922	-	-	-	-	-	-	-	-	-
4a.4.12	Security Staff Cost	-	-	-	-	-	2,206	331	2,536	2,536	-	-	-	-	-	-	-	-	82,549
4a.4.13	DOC Staff Cost	-	-	-	-	-	16,503	2,476	18,979	18,979	-	-	-	-	-	-	-	-	183,737
4a.4.14	Utility Staff Cost	-	-	-	-	-	19,793	2,969	22,762	22,762	-	-	-	-	-	-	-	-	332,857
4a.4	Subtotal Period 4a Period-Dependent Costs	58	4,180	82	82	229	44,962	7,549	57,143	57,142	-	1	4,581	-	-	-	91,619	149	599,143
4a.0	TOTAL PERIOD 4a COST	159	25,841	9,700	7,579	20,662	48,081	29,035	141,057	141,032	-	25	188,678	1,002	505	357	12,295,951	264,235	601,716

Vermont Yankee Nuclear Power Station
SAFSTOR Alternative Decommissioning Cost Estimate
(thousands of 2014 dollars)

Costs run: Fri, Aug 22, 2014 at 09:27:05
DECCER Version 2010.09.091

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
PERIOD 4b - Site Decontamination																			
Period start date: Friday, October 10, 2070																			
Period end date: Sunday, March 26, 2073																			
Period duration: 29.5 months																			
Disposal of Plant Systems																			
Reactor Building System Components																			
4b.1.2.1	RX-BLD-213-1_2	-	1,224	330	413	906	-	627	3,501	3,501	-	-	18,173	-	-	-	1,029,806	21,766	-
4b.1.2.2	RX-BLD-213-1_3	-	57	8	10	22	-	22	121	121	-	-	451	-	-	-	25,534	935	-
4b.1.2.3	RX-BLD-232-1_2	-	532	172	210	462	-	297	1,674	1,674	-	-	9,262	-	-	-	525,020	8,796	-
4b.1.2.4	RX-BLD-232-1_3	-	25	3	4	8	-	9	49	49	-	-	164	-	-	-	9,323	377	-
4b.1.2.5	RX-BLD-280-1_2	-	26	3	3	7	-	9	49	49	-	-	148	-	-	-	8,440	423	-
4b.1.2.6	RX-BLD-280-1_3	-	55	7	9	19	-	21	111	111	-	-	385	-	-	-	21,809	910	-
4b.1.2.7	RX-BLD-280-2_2	-	31	4	4	9	-	11	59	59	-	-	185	-	-	-	10,509	498	-
4b.1.2.8	RX-BLD-280-2_3	-	83	19	23	51	-	39	215	215	-	-	1,031	-	-	-	58,399	1,370	-
4b.1.2.9	RX-BLD-280-3_2	-	219	66	79	174	-	117	656	656	-	-	3,497	-	-	-	198,263	3,618	-
4b.1.2.10	RX-BLD-280-4_2	-	91	15	14	31	-	34	186	186	-	-	628	-	-	-	35,742	1,469	-
4b.1.2.11	RX-BLD-280-5_2	-	186	25	28	60	-	68	367	367	-	-	1,209	-	-	-	68,643	3,003	-
4b.1.2.12	RX-BLD-280-6_2	-	202	22	27	60	-	72	383	383	-	-	1,194	-	-	-	67,700	3,269	-
4b.1.2.13	RX-BLD-280-7_2	-	164	47	53	117	-	83	464	464	-	-	2,340	-	-	-	132,776	2,697	-
4b.1.2.14	RX-BLD-280-ROOF_2	-	31	35	30	67	-	32	195	195	-	-	1,327	-	-	-	75,665	571	-
4b.1.2.15	RX-BLD-303-1_2	-	46	6	7	15	-	17	91	91	-	-	302	-	-	-	17,154	762	-
4b.1.2.16	RX-BLD-303-1_3	-	154	37	41	90	-	71	393	393	-	-	1,795	-	-	-	101,906	2,541	-
4b.1.2.17	RX-BLD-303-2_3	-	66	9	11	25	-	25	137	137	-	-	509	-	-	-	27,957	1,069	-
4b.1.2.18	RX-BLD-303-3_3	-	24	2	2	4	-	7	39	39	-	-	82	-	-	-	4,658	384	-
4b.1.2.19	RX-BLD-303-4_2	-	218	59	66	144	-	106	593	593	-	-	2,880	-	-	-	163,484	3,580	-
4b.1.2.20	RX-BLD-303-5_2	-	23	2	3	6	-	8	42	42	-	-	118	-	-	-	6,707	381	-
4b.1.2.21	RX-BLD-303-6_2	-	13	1	1	3	-	4	22	22	-	-	50	-	-	-	2,857	212	-
4b.1.2.22	RX-BLD-303-7_2	-	95	19	24	52	-	42	233	233	-	-	1,051	-	-	-	59,595	1,554	-
4b.1.2.23	RX-BLD-303-7_3	-	24	4	6	13	-	10	57	57	-	-	251	-	-	-	14,218	368	-
4b.1.2.24	RX-BLD-303-8_2	-	84	14	15	34	-	33	180	180	-	-	680	-	-	-	38,605	1,332	-
4b.1.2.25	RX-BLD-318-1_3	-	20	2	2	4	-	6	34	34	-	-	83	-	-	-	4,563	328	-
4b.1.2.26	RX-BLD-318-2_3	-	38	5	4	9	-	13	69	69	-	-	182	-	-	-	10,393	590	-
4b.1.2.27	RX-BLD-318-3_3	-	28	3	3	8	-	10	52	52	-	-	150	-	-	-	8,524	447	-
4b.1.2.28	RX-BLD-318-4_2	-	591	93	118	260	-	240	1,302	1,302	-	-	5,207	-	-	-	294,977	9,640	-
4b.1.2.29	RX-BLD-318-4_3	-	15	3	3	6	-	6	31	31	-	-	114	-	-	-	6,458	224	-
4b.1.2.30	RX-BLD-318-5_2	-	104	21	25	54	-	45	250	250	-	-	1,098	-	-	-	61,777	1,673	-
4b.1.2.31	RX-BLD-318-6_2	-	56	7	8	18	-	20	108	108	-	-	353	-	-	-	19,905	848	-
4b.1.2.32	RX-BLD-318-7_2	-	46	10	11	24	-	20	111	111	-	-	482	-	-	-	27,356	745	-
4b.1.2.33	RX-BLD-345-1_3	-	309	1	1	2	-	78	391	391	-	-	48	-	-	-	2,722	5,187	-
4b.1.2.34	RX-BLD-345-2_3	-	217	0	0	1	-	54	272	272	-	-	12	-	-	-	672	3,647	-
4b.1.2.35	RX-BLD-345-3_2	-	474	2	3	7	-	121	607	607	-	-	138	-	-	-	7,809	7,973	-
4b.1.2.36	RX-BLD-345-3_3	-	6	1	1	3	-	2	13	13	-	-	51	-	-	-	2,905	92	-
4b.1.2.37	RX-BLD-345-4_2	-	6	0	0	0	-	2	8	8	-	-	8	-	-	-	456	91	-
4b.1.2.38	RX-BLD-345-5_2	-	54	8	11	23	-	22	118	118	-	-	466	-	-	-	26,434	862	-
4b.1.2.39	RX-BLD-345-6_2	-	69	8	10	21	-	25	133	133	-	-	419	-	-	-	23,790	1,126	-
4b.1.2.40	RX-BLD-345-7_2	-	41	7	9	19	-	17	92	92	-	-	376	-	-	-	21,318	653	-
4b.1.2.41	RX-BLD-345-8_2	-	42	5	6	14	-	16	84	84	-	-	282	-	-	-	15,995	665	-
4b.1.2.42	RX-BLD-DW_2	-	319	43	51	112	-	120	645	645	-	-	2,248	-	-	-	127,507	5,276	-
4b.1.2.43	RX-BLD-DW_3	-	560	187	199	438	-	298	1,681	1,681	-	-	8,752	-	-	-	497,188	9,191	-
4b.1.2	Totals	-	6,666	1,318	1,549	3,402	-	2,881	15,816	15,816	-	-	68,180	-	-	-	3,865,518	111,146	-
Turbine Building System Components																			
4b.1.3.1	TURB-BLD-232-1_2	-	147	21	26	57	-	57	309	309	-	-	1,171	-	-	-	64,658	2,435	-
4b.1.3.2	TURB-BLD-232-2_2	-	259	47	46	101	-	102	555	555	-	-	2,019	-	-	-	114,863	4,242	-
4b.1.3.3	TURB-BLD-232-3_2	-	165	19	20	44	-	57	304	304	-	-	885	-	-	-	49,962	2,669	-
4b.1.3.4	TURB-BLD-232-4_2	-	129	15	15	33	-	44	236	236	-	-	656	-	-	-	37,297	2,077	-
4b.1.3.5	TURB-BLD-232-5_2	-	174	24	24	53	-	63	338	338	-	-	1,065	-	-	-	60,559	2,835	-
4b.1.3.6	TURB-BLD-232-6_2	-	200	21	24	52	-	69	366	366	-	-	1,045	-	-	-	59,284	3,252	-
4b.1.3.7	TURB-BLD-232-7_2	-	135	14	15	33	-	46	243	243	-	-	665	-	-	-	37,680	2,189	-
4b.1.3.8	TURB-BLD-246-1_2	-	126	38	45	100	-	67	377	377	-	-	2,002	-	-	-	113,533	2,112	-
4b.1.3.9	TURB-BLD-248-1_2	-	127	24	28	61	-	53	292	292	-	-	1,224	-	-	-	68,773	2,102	-
4b.1.3.10	TURB-BLD-248-2_2	-	180	12	15	34	-	57	298	298	-	-	679	-	-	-	38,457	2,962	-
4b.1.3.11	TURB-BLD-248-3_2	-	329	104	132	289	-	185	1,039	1,039	-	-	5,796	-	-	-	328,421	5,549	-
4b.1.3.12	TURB-BLD-248-4_2	-	228	83	103	227	-	138	779	779	-	-	4,554	-	-	-	258,072	3,863	-
4b.1.3.13	TURB-BLD-248-5_2	-	59	14	16	35	-	27	150	150	-	-	691	-	-	-	39,213	970	-
4b.1.3.14	TURB-BLD-248-6_2	-	132	22	27	58	-	54	292	292	-	-	1,168	-	-	-	66,208	2,163	-
4b.1.3.15	TURB-BLD-248-7_2	-	81	28	36	78	-	48	271	271	-	-	1,569	-	-	-	88,893	1,368	-
4b.1.3.16	TURB-BLD-252-10_2	-	163	15	19	41	-	56	295	295	-	-	832	-	-	-	47,144	2,693	-
4b.1.3.17	TURB-BLD-252-13_2	-	142	10	12	27	-	45	237	237	-	-	547	-	-	-	30,986	2,276	-
4b.1.3.18	TURB-BLD-252-14_2	-	105	12	14	32	-	38	201	201	-	-	634	-	-	-	35,940	1,704	-
4b.1.3.19	TURB-BLD-252-1_2	-	102	39	48	106	-	63	359	359	-	-	2,115	-	-	-	119,925	1,694	-
4b.1.3.20	TURB-BLD-252-2_2	-	100	39	47	104	-	62	352	352	-	-	2,083	-	-	-	118,092	1,669	-
4b.1.3.21	TURB-BLD-252-3_2	-	24	3	4	8	-	9	48	48	-	-	169	-	-	-	9,227	387	-
4b.1.3.22	TURB-BLD-252-4_2	-	31	1	2	4	-	9	46	46	-	-	72	-	-	-	4,089	507	-
4b.1.3.23	TURB-BLD-252-5_2	-	206	18	21	46	-	68	359	359	-	-	926	-	-	-	52,525	3,413	-
4b.1.3.24	TURB-BLD-252-6_2	-	73	2	2	5	-	20	101	101	-	-	92	-	-	-	5,200	1,206	-
4b.1.3.25	TURB-BLD-252-7_2	-	154	30	36	80	-	67	367	367	-	-	1,608	-	-	-	90,912	2,513	-
4b.1.3.26	TURB-BLD-252-8_2	-	54	4	5	12	-	18	93	93	-	-	232	-	-	-	13,148	876	-
4b.1.3.27	TURB-BLD-252-9_2	-	223	36	42	92	-	89	481	481	-	-	1,902	-	-	-	104,780	3,632	-
4b.1.3.28	TURB-BLD-272-1_2	-	31	13	17	36	-	21	118	118	-	-	728	-	-	-	41,225	533	-
4b.1.3.29	TURB-BLD-272-3_2	-	370	41	48	105	-	130	694	694	-	-	2,105	-	-	-	119,414	5,911	-
4b.1.3.30	TURB-BLD-272-4_2	-	147	28	36	78	-	64	353	353	-	-	1,590	-	-	-	88,841	2,374	-
4b.1.3.31	TURB-BLD-272-5_2	-	108	18	23	52	-	45	247	247	-	-	1,034	-	-	-	58,615	1,699	-

Vermont Yankee Nuclear Power Station
SAFSTOR Alternative Decommissioning Cost Estimate
(thousands of 2014 dollars)

Activity Index	Costs run: Fri, Aug 22, 2014 at 09:27:05 DECCER Version 2010.09.091 Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Burial Volumes Class A Cu. Feet	Class B Cu. Feet	Class C Cu. Feet	GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
Turbine Building System Components (continued)																			
4b.1.3.32	TURB-BLD-272-6_2	-	149	28	36	79	-	65	358	358	-	-	1,581	-	-	-	89,636	2,352	-
4b.1.3.33	TURB-BLD-272-9_0	-	13	-	-	-	-	2	15	-	-	15	-	-	-	-	-	212	-
4b.1.3	Totals	-	4,666	825	984	2,161	-	1,936	10,571	10,556	-	15	43,439	-	-	-	2,455,571	76,434	-
Control/Radwaste/Other Building System Components																			
4b.1.4.1	CONT-BLD-248-1_0	-	157	-	-	-	-	24	181	-	-	181	-	-	-	-	-	2,578	-
4b.1.4.2	CONT-BLD-248-1_2	-	1	0	0	0	-	1	3	3	-	-	8	-	-	-	459	20	-
4b.1.4.3	CONT-BLD-248-2_0	-	2	-	-	-	-	0	2	-	-	2	-	-	-	-	-	36	-
4b.1.4.4	CONT-BLD-262-1_0	-	120	-	-	-	-	18	138	-	-	138	-	-	-	-	-	1,974	-
4b.1.4.5	CONT-BLD-272-1_0	-	52	-	-	-	-	8	60	-	-	60	-	-	-	-	-	874	-
4b.1.4.6	CST-BASE-TRENCH_2	-	405	101	120	263	-	195	1,085	1,085	-	-	5,467	-	-	-	299,176	6,602	-
4b.1.4.7	CT_0	-	225	-	-	-	-	34	259	-	-	259	-	-	-	-	-	3,726	-
4b.1.4.8	DISCHARGE-STR_0	-	67	-	-	-	-	10	77	-	-	77	-	-	-	-	-	1,111	-
4b.1.4.9	DST-BASE_0	-	23	-	-	-	-	3	26	-	-	26	-	-	-	-	-	367	-
4b.1.4.10	INTAKE-STR_0	-	162	-	-	-	-	24	187	-	-	187	-	-	-	-	-	2,675	-
4b.1.4.11	RW-BLD-230-1_3	-	108	17	21	46	-	43	235	235	-	-	947	-	-	-	51,774	1,754	-
4b.1.4.12	RW-BLD-230-2_3	-	141	25	30	65	-	59	320	320	-	-	1,362	-	-	-	74,325	2,295	-
4b.1.4.13	RW-BLD-230-3_3	-	61	8	8	18	-	22	118	118	-	-	367	-	-	-	20,683	982	-
4b.1.4.14	RW-BLD-230-4_3	-	43	6	7	16	-	16	88	88	-	-	326	-	-	-	17,849	700	-
4b.1.4.15	RW-BLD-230-5_3	-	34	4	5	11	-	12	66	66	-	-	227	-	-	-	12,445	547	-
4b.1.4.16	RW-BLD-230-7_3	-	161	21	22	49	-	58	312	312	-	-	987	-	-	-	56,089	2,532	-
4b.1.4.17	RW-BLD-246-8_2	-	45	5	5	12	-	16	83	83	-	-	235	-	-	-	13,363	720	-
4b.1.4.18	RW-BLD-252-10_2	-	16	1	1	2	-	5	25	25	-	-	50	-	-	-	2,834	259	-
4b.1.4.19	RW-BLD-252-11_2	-	14	2	2	5	-	5	28	28	-	-	103	-	-	-	5,837	226	-
4b.1.4.20	RW-BLD-252-12_2	-	104	19	22	48	-	43	236	236	-	-	1,015	-	-	-	55,091	1,652	-
4b.1.4.21	RW-BLD-252-13_2	-	85	14	17	36	-	34	186	186	-	-	764	-	-	-	41,439	1,347	-
4b.1.4.22	RW-BLD-252-1_2	-	74	4	6	12	-	23	119	119	-	-	246	-	-	-	13,918	1,212	-
4b.1.4.23	RW-BLD-252-2_2	-	41	7	9	20	-	17	94	94	-	-	393	-	-	-	22,278	678	-
4b.1.4.24	RW-BLD-252-3_2	-	17	1	2	4	-	6	31	31	-	-	83	-	-	-	4,683	286	-
4b.1.4.25	RW-BLD-252-4_2	-	29	3	3	8	-	10	53	53	-	-	152	-	-	-	8,597	487	-
4b.1.4.26	RW-BLD-252-5_2	-	43	7	7	16	-	16	89	89	-	-	318	-	-	-	17,993	683	-
4b.1.4.27	RW-BLD-252-6_3	-	80	14	13	28	-	30	164	164	-	-	550	-	-	-	31,337	1,282	-
4b.1.4.28	RW-BLD-252-7_3	-	27	3	4	8	-	10	52	52	-	-	173	-	-	-	9,544	437	-
4b.1.4.29	RW-BLD-252-8_2	-	47	8	7	16	-	18	95	95	-	-	319	-	-	-	18,153	755	-
4b.1.4.30	RW-BLD-252-9_3	-	50	5	6	13	-	17	92	92	-	-	274	-	-	-	15,278	807	-
4b.1.4.31	RW-BLD-264-1_2	-	5	0	0	0	-	1	6	6	-	-	2	-	-	-	103	78	-
4b.1.4.32	RW-BLD-264-2_2	-	6	0	0	0	-	2	9	9	-	-	10	-	-	-	544	100	-
4b.1.4.33	RW-BLD-264-RF_2	-	19	2	3	6	-	7	38	38	-	-	125	-	-	-	7,067	310	-
4b.1.4.34	RW-BLD-280-1_2	-	13	2	3	6	-	6	30	30	-	-	127	-	-	-	7,184	224	-
4b.1.4.35	RW-BLD-280-2_2	-	10	0	1	1	-	3	16	16	-	-	28	-	-	-	1,588	167	-
4b.1.4.36	SERV-BLD-248-1_2	-	79	8	10	21	-	27	144	144	-	-	419	-	-	-	23,780	1,281	-
4b.1.4.37	STACK_2	-	73	9	10	23	-	26	141	141	-	-	455	-	-	-	25,806	1,166	-
4b.1.4.38	YARD-252-CONT_2	-	640	331	424	930	-	489	2,814	2,814	-	-	18,663	-	-	-	1,057,171	10,842	-
4b.1.4.39	YARD-252-CONT_3	-	50	7	7	16	-	18	97	97	-	-	312	-	-	-	17,757	718	-
4b.1.4.40	YARD-252-SBO_0	-	60	-	-	-	-	9	69	-	-	69	-	-	-	-	-	983	-
4b.1.4.41	YARD-252_0	-	330	-	-	-	-	49	379	-	-	379	-	-	-	-	-	5,599	-
4b.1.4	Totals	-	3,721	634	775	1,702	-	1,416	8,248	6,869	-	1,379	34,506	-	-	-	1,934,146	61,072	-
4b.1.5	Scaffolding in support of decommissioning	-	1,950	42	47	104	-	525	2,669	2,669	-	-	2,082	-	-	-	117,945	34,804	-
Decontamination of Site Buildings																			
4b.1.6.1	Reactor	1,682	2,972	1,342	1,219	2,543	-	2,537	12,294	12,294	-	-	50,644	-	-	-	3,000,101	76,812	-
4b.1.6.2	AOG	197	108	5	23	30	-	137	499	499	-	-	604	-	-	-	51,817	4,700	-
4b.1.6.3	Control	1	2	0	0	0	-	1	5	5	-	-	9	-	-	-	786	46	-
4b.1.6.4	Equipment Lock	14	2	0	2	2	-	8	29	29	-	-	43	-	-	-	3,708	255	-
4b.1.6.5	LLRW	2	-	-	-	-	-	1	3	3	-	-	-	-	-	-	-	27	-
4b.1.6.6	Radwaste	145	156	3	30	40	-	126	500	500	-	-	796	-	-	-	66,517	4,572	-
4b.1.6.7	Radwaste Compactor	6	11	0	2	3	-	7	28	28	-	-	52	-	-	-	4,494	249	-
4b.1.6.8	Service	1	19	0	3	4	-	7	36	36	-	-	88	-	-	-	7,662	298	-
4b.1.6.9	Turbine	1,145	697	206	375	510	-	951	3,884	3,884	-	-	10,137	-	-	-	836,948	28,582	-
4b.1.6.10	Vent Stack	29	150	2	44	57	-	73	356	356	-	-	1,130	-	-	-	97,890	2,590	-
4b.1.6.11	Reactor (SFP & Sacrifical Shield)	186	1,476	89	1,265	1,645	-	1,072	5,734	5,734	-	-	32,758	-	-	-	2,814,668	22,718	-
4b.1.6	Totals	3,407	5,593	1,648	2,964	4,835	-	4,920	23,367	23,367	-	-	96,260	-	-	-	6,884,591	140,850	-
4b.1	Subtotal Period 4b Activity Costs	3,407	22,597	4,467	6,319	12,204	-	11,677	60,671	59,277	-	1,393	244,467	-	-	-	15,257,772	424,306	-
Period 4b Additional Costs																			
4b.2.1	Financing Cost and Interest	-	-	-	-	-	1,482	-	1,482	1,482	-	-	-	-	-	-	-	-	-
4b.2.2	License termination survey planning	-	-	-	-	-	1,536	461	1,997	1,997	-	-	-	-	-	-	-	-	12,480
4b.2.3	Remedial action support surveys	-	-	-	-	-	3,171	951	4,122	4,122	-	-	-	-	-	-	-	51,140	-
4b.2.4	Soil remediation	-	106	607	6,523	7,532	-	2,949	17,716	17,716	-	-	150,643	-	-	-	13,256,570	2,669	-
4b.2.5	Underground services excavations	-	431	-	-	-	66	75	572	-	-	572	-	-	-	-	-	4,421	-
4b.2.6	Septic field removal	-	412	-	-	-	1,460	281	2,153	-	-	2,153	-	-	-	-	-	3,359	-
4b.2.7	License termination - ISFSI	-	149	139	369	638	2,754	1,012	5,062	5,062	-	-	12,370	-	-	-	1,080,379	12,333	8,911
4b.2.8	Operational tools & equipment	-	-	7	115	-	87	31	240	240	-	-	-	-	-	-	-	41	-
4b.2.9	Water Processing	-	-	-	-	-	7,487	2,246	9,733	9,733	-	-	-	-	-	-	-	-	-
4b.2	Subtotal Period 4b Additional Costs	-	1,098	753	7,007	8,170	18,043	8,005	43,076	40,352	-	2,725	163,013	-	-	-	14,336,949	73,963	21,391
Period 4b Collateral Costs																			
4b.3.1	Process decommissioning water waste	6	-	9	38	40	-	20	112	112	-	-	100	-	-	-	6,016	20	-
4b.3.3	Small tool allowance	-	361	-	-	-	-	54	415	415	-	-	-	-	-	-	-	-	-
4b.3.4	Decommissioning Equipment Disposition	-	-	129	144	316	-	114	703	703	-	-	6,348	-	-	-	359,614	88	-
4b.3	Subtotal Period 4b Collateral Costs	6	361	138	182	357	-	187	1,230	1,230	-	-	6,449	-	-	-	365,630	108	-

Vermont Yankee Nuclear Power Station
SAFSTOR Alternative Decommissioning Cost Estimate
(thousands of 2014 dollars)

Costs run: Fri, Aug 22, 2014 at 09:27:05
DECCER Version 2010.09.091

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
Period 4b Period-Dependent Costs																			
4b.4.1	Decon supplies	1,542	-	-	-	-	-	386	1,928	1,928	-	-	-	-	-	-	-	-	-
4b.4.2	Insurance	-	-	-	-	-	1,311	131	1,442	1,442	-	-	-	-	-	-	-	-	-
4b.4.3	Property taxes	-	-	-	-	-	17	2	18	18	-	-	-	-	-	-	-	-	-
4b.4.4	Health physics supplies	-	2,727	-	-	-	-	682	3,409	3,409	-	-	-	-	-	-	-	-	-
4b.4.5	Heavy equipment rental	-	5,466	-	-	-	-	820	6,286	6,286	-	-	-	-	-	-	-	-	-
4b.4.6	Disposal of DAW generated	-	-	129	128	360	-	122	740	740	-	-	7,208	-	-	-	144,159	235	-
4b.4.7	Plant energy budget	-	-	-	-	-	2,997	450	3,446	3,446	-	-	-	-	-	-	-	-	-
4b.4.8	NRC Fees	-	-	-	-	-	818	82	900	900	-	-	-	-	-	-	-	-	-
4b.4.9	Site Non-Labor Overhead	-	-	-	-	-	479	72	551	551	-	-	-	-	-	-	-	-	-
4b.4.10	Liquid Radwaste Processing Equipment/Services	-	-	-	-	-	986	148	1,134	1,134	-	-	-	-	-	-	-	-	-
4b.4.11	Corporate A&G Cost	-	-	-	-	-	4,557	683	5,240	5,240	-	-	-	-	-	-	-	-	-
4b.4.12	Security Staff Cost	-	-	-	-	-	4,250	638	4,888	4,888	-	-	-	-	-	-	-	-	159,074
4b.4.13	DOC Staff Cost	-	-	-	-	-	31,067	4,660	35,727	35,727	-	-	-	-	-	-	-	-	343,806
4b.4.14	Utility Staff Cost	-	-	-	-	-	36,172	5,426	41,598	41,598	-	-	-	-	-	-	-	-	605,509
4b.4	Subtotal Period 4b Period-Dependent Costs	1,542	8,194	129	128	360	82,654	14,300	107,308	107,308	-	-	7,208	-	-	-	144,159	235	1,108,389
4b.0	**TOTAL PERIOD 4b COST**	4,955	32,249	5,487	13,635	21,091	100,697	34,170	212,285	208,167	-	4,118	421,137	-	-	-	30,104,510	498,612	1,129,780
PERIOD 4f - License Termination																			
Period start date: Sunday, March 26, 2073																			
Period end date: Thursday, December 21, 2073																			
Period duration: 8.87 months																			
Period 4f Direct Decommissioning Activities																			
4f.1.1	ORISE confirmatory survey	-	-	-	-	-	171	51	223	223	-	-	-	-	-	-	-	-	-
4f.1.2	Terminate license	-	-	-	-	-	-	-	a	-	-	-	-	-	-	-	-	-	-
4f.1	Subtotal Period 4f Activity Costs	-	-	-	-	-	171	51	223	223	-	-	-	-	-	-	-	-	-
Period 4f Additional Costs																			
4f.2.1	Financing Cost and Interest	-	-	-	-	-	397	-	397	397	-	-	-	-	-	-	-	-	-
4f.2.2	License termination survey	-	-	-	-	-	10,968	3,290	14,258	14,258	-	-	-	-	-	-	-	165,937	6,240
4f.2	Subtotal Period 4f Additional Costs	-	-	-	-	-	11,364	3,290	14,655	14,655	-	-	-	-	-	-	-	165,937	6,240
Period 4f Collateral Costs																			
4f.3.1	DOC staff relocation expenses	-	-	-	-	-	1,080	162	1,242	1,242	-	-	-	-	-	-	-	-	-
4f.3	Subtotal Period 4f Collateral Costs	-	-	-	-	-	1,080	162	1,242	1,242	-	-	-	-	-	-	-	-	-
Period 4f Period-Dependent Costs																			
4f.4.1	Insurance	-	-	-	-	-	31	3	34	34	-	-	-	-	-	-	-	-	-
4f.4.2	Property taxes	-	-	-	-	-	5	1	6	6	-	-	-	-	-	-	-	-	-
4f.4.3	Health physics supplies	-	642	-	-	-	-	160	802	802	-	-	-	-	-	-	-	-	-
4f.4.4	Disposal of DAW generated	-	-	6	6	17	-	6	35	35	-	-	345	-	-	-	6,897	11	-
4f.4.5	Plant energy budget	-	-	-	-	-	240	36	276	276	-	-	-	-	-	-	-	-	-
4f.4.6	NRC Fees	-	-	-	-	-	242	24	267	267	-	-	-	-	-	-	-	-	-
4f.4.7	Site Non-Labor Overhead	-	-	-	-	-	36	5	41	41	-	-	-	-	-	-	-	-	-
4f.4.8	Corporate A&G Cost	-	-	-	-	-	611	92	703	703	-	-	-	-	-	-	-	-	-
4f.4.9	Security Staff Cost	-	-	-	-	-	586	88	674	674	-	-	-	-	-	-	-	-	18,514
4f.4.10	DOC Staff Cost	-	-	-	-	-	5,184	778	5,962	5,962	-	-	-	-	-	-	-	-	56,314
4f.4.11	Utility Staff Cost	-	-	-	-	-	4,998	750	5,748	5,748	-	-	-	-	-	-	-	-	73,286
4f.4	Subtotal Period 4f Period-Dependent Costs	-	642	6	6	17	11,935	1,943	14,549	14,549	-	-	345	-	-	-	6,897	11	148,114
4f.0	**TOTAL PERIOD 4f COST**	-	642	6	6	17	24,550	5,446	30,668	30,668	-	-	345	-	-	-	6,897	165,948	154,354
PERIOD 4 TOTALS		5,114	58,732	15,194	21,220	41,770	173,329	68,651	384,010	379,866	-	4,144	610,160	1,002	505	357	42,407,358	928,795	1,885,850
PERIOD 5b - Site Restoration																			
Period start date: Thursday, December 21, 2073																			
Period end date: Saturday, June 22, 2075																			
Period duration: 18 months																			
Period 5b Direct Decommissioning Activities																			
Demolition of Remaining Site Buildings																			
5b.1.1.1	Reactor	-	4,326	-	-	-	-	649	4,974	-	-	4,974	-	-	-	-	-	44,306	-
5b.1.1.2	AOG	-	1,846	-	-	-	-	277	2,123	-	-	2,123	-	-	-	-	-	19,658	-
5b.1.1.3	Bottle Storage Shed	-	7	-	-	-	-	1	8	-	-	8	-	-	-	-	-	81	-
5b.1.1.4	Construction Office	-	66	-	-	-	-	10	76	-	-	76	-	-	-	-	-	961	-
5b.1.1.5	Control	-	197	-	-	-	-	30	227	-	-	227	-	-	-	-	-	2,292	-
5b.1.1.6	Control Access	-	90	-	-	-	-	14	104	-	-	104	-	-	-	-	-	1,197	-
5b.1.1.7	Cooling Towers	-	2,053	-	-	-	-	308	2,361	-	-	2,361	-	-	-	-	-	30,940	-
5b.1.1.8	Discharge & Aerating Structures	-	237	-	-	-	-	35	272	-	-	272	-	-	-	-	-	1,688	-
5b.1.1.9	Equipment Lock	-	90	-	-	-	-	14	104	-	-	104	-	-	-	-	-	1,094	-
5b.1.1.10	Gatehouse 1	-	12	-	-	-	-	2	13	-	-	13	-	-	-	-	-	148	-
5b.1.1.11	Gatehouse 2	-	24	-	-	-	-	4	27	-	-	27	-	-	-	-	-	287	-
5b.1.1.12	Intake Structure	-	497	-	-	-	-	75	572	-	-	572	-	-	-	-	-	4,732	-
5b.1.1.13	LLRW	-	87	-	-	-	-	13	100	-	-	100	-	-	-	-	-	1,126	-
5b.1.1.14	Misc Yard Structures	-	1,185	-	-	-	-	178	1,363	-	-	1,363	-	-	-	-	-	13,551	-
5b.1.1.15	New Warehouse	-	290	-	-	-	-	43	333	-	-	333	-	-	-	-	-	4,054	-
5b.1.1.16	Office Area (Turbine Bldg)	-	116	-	-	-	-	17	133	-	-	133	-	-	-	-	-	1,530	-
5b.1.1.17	Radwaste	-	284	-	-	-	-	43	327	-	-	327	-	-	-	-	-	3,147	-
5b.1.1.18	Radwaste Compactor	-	6	-	-	-	-	1	7	-	-	7	-	-	-	-	-	74	-
5b.1.1.19	Security Modifications	-	581	-	-	-	-	87	668	-	-	668	-	-	-	-	-	5,069	-
5b.1.1.20	Service	-	70	-	-	-	-	10	80	-	-	80	-	-	-	-	-	949	-

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Vermont Yankee Nuclear Power Station
SAFSTOR Alternative Decommissioning Cost Estimate
(thousands of 2014 dollars)

Activity Index	Costs run: Fri, Aug 22, 2014 at 09:27:05 DECCER Version 2010.09.091 Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
Demolition of Remaining Site Buildings (continued)																			
5b.1.1.21	Station Blackout Diesel	-	55	-	-	-	-	8	63	-	-	63	-	-	-	-	-	681	-
5b.1.1.22	Turbine	-	2,497	-	-	-	-	375	2,872	-	-	2,872	-	-	-	-	-	28,234	-
5b.1.1.23	Turbine Pedestal	-	656	-	-	-	-	98	754	-	-	754	-	-	-	-	-	6,331	-
5b.1.1.24	Turbine Storage Facility	-	127	-	-	-	-	19	147	-	-	147	-	-	-	-	-	1,986	-
5b.1.1.25	Vent Stack	-	760	-	-	-	-	114	874	-	-	874	-	-	-	-	-	9,329	-
5b.1.1.26	Vent Stack (Concrete Duct)	-	159	-	-	-	-	24	182	-	-	182	-	-	-	-	-	2,023	-
5b.1.1.27	Reactor (SFP & Sacrifical Shield)	-	32	-	-	-	-	5	37	-	-	37	-	-	-	-	-	512	-
5b.1.1	Totals	-	16,348	-	-	-	-	2,452	18,800	-	-	18,800	-	-	-	-	-	185,978	-
Site Closeout Activities																			
5b.1.2	Grade & landscape site	-	92	-	-	-	-	14	106	-	-	106	-	-	-	-	-	286	-
5b.1.3	Final report to NRC	-	-	-	-	-	198	30	227	227	-	-	-	-	-	-	-	-	1,560
5b.1	Subtotal Period 5b Activity Costs	-	92	-	-	-	198	43	333	227	-	106	-	-	-	-	-	286	1,560
Period 5b Additional Costs																			
5b.2.1	Financing Cost and Interest	-	-	-	-	-	1,240	-	1,240	-	-	1,240	-	-	-	-	-	-	-
5b.2.2	Intake & discharge structure cofferdams	-	665	-	-	-	-	100	764	-	-	764	-	-	-	-	-	6,383	-
5b.2.3	Concrete processing for concrete recycling	-	550	-	-	-	1,079	244	1,874	-	-	1,874	-	-	-	-	-	2,875	-
5b.2.4	Backfill underground services excavation	-	768	-	-	-	-	115	884	-	-	884	-	-	-	-	-	4,967	-
5b.2.5	Backfill structures	-	663	-	-	-	-	99	762	-	-	762	-	-	-	-	-	1,364	-
5b.2.6	Demolition and site restoration - ISFSI	-	1,066	-	-	-	120	178	1,364	-	-	1,364	-	-	-	-	-	11,667	160
5b.2.7	Disposal of contruction debris from demolition	-	-	-	-	-	860	129	989	-	-	989	-	-	-	-	-	-	-
5b.2	Subtotal Period 5b Additional Costs	-	3,712	-	-	-	3,300	866	7,877	-	-	7,877	-	-	-	-	-	27,255	160
Period 5b Collateral Costs																			
5b.3.1	Small tool allowance	-	191	-	-	-	-	29	219	-	-	219	-	-	-	-	-	-	-
5b.3.2	Corporate A&G Cost	-	-	-	-	-	364	55	418	-	-	418	-	-	-	-	-	-	-
5b.3	Subtotal Period 5b Collateral Costs	-	191	-	-	-	364	83	637	-	-	637	-	-	-	-	-	-	-
Period 5b Period-Dependent Costs																			
5b.4.1	Insurance	-	-	-	-	-	64	6	70	-	-	70	-	-	-	-	-	-	-
5b.4.2	Property taxes	-	-	-	-	-	10	1	11	-	-	11	-	-	-	-	-	-	-
5b.4.3	Heavy equipment rental	-	4,970	-	-	-	-	746	5,716	-	-	5,716	-	-	-	-	-	-	-
5b.4.4	Plant energy budget	-	-	-	-	-	244	37	280	-	-	280	-	-	-	-	-	-	-
5b.4.5	NRC Fees	-	-	-	-	-	541	54	595	595	-	-	-	-	-	-	-	-	-
5b.4.6	Site Non-Labor Overhead	-	-	-	-	-	292	44	336	-	-	336	-	-	-	-	-	-	-
5b.4.7	Security Staff Cost	-	-	-	-	-	1,190	178	1,368	-	-	1,368	-	-	-	-	-	-	37,577
5b.4.8	DOC Staff Cost	-	-	-	-	-	10,289	1,543	11,833	-	-	11,833	-	-	-	-	-	-	106,469
5b.4.9	Utility Staff Cost	-	-	-	-	-	4,290	644	4,934	-	-	4,934	-	-	-	-	-	-	61,063
5b.4	Subtotal Period 5b Period-Dependent Costs	-	4,970	-	-	-	16,920	3,253	25,143	595	-	24,548	-	-	-	-	-	-	205,109
5b.0	**TOTAL PERIOD 5b COST**	-	25,312	-	-	-	20,781	6,697	52,790	823	-	51,968	-	-	-	-	-	213,520	206,829
PERIOD 5 TOTALS		-	25,312	-	-	-	20,781	6,697	52,790	823	-	51,968	-	-	-	-	-	213,520	206,829
TOTAL COST TO DECOMMISSION		6,604	94,997	15,559	21,837	44,588	875,941	183,186	1,242,712	817,219	368,347	57,145	664,829	1,002	505	357	43,958,794	1,205,190	8,079,320

TOTAL COST TO DECOMMISSION WITH 17.3% CONTINGENCY:	**1,242,712**	**thousands of 2014 dollars**
TOTAL NRC LICENSE TERMINATION COST IS 65.8% OR:	**817,219**	**thousands of 2014 dollars**
SPENT FUEL MANAGEMENT COST IS 29.6% OR:	**368,347**	**thousands of 2014 dollars**
NON-NUCLEAR DEMOLITION COST IS 4.6% OR:	**57,145**	**thousands of 2014 dollars**
TOTAL LOW-LEVEL RADIOACTIVE WASTE VOLUME BURIED (EXCLUDING GTCC):	**666,336**	**cubic feet**
TOTAL GREATER THAN CLASS C RADWASTE VOLUME GENERATED:	**357**	**cubic feet**
TOTAL CRAFT LABOR REQUIREMENTS:	**1,205,190**	**man-hours**

End Notes:
n/a - indicates that this activity not charged as decommissioning expense.
a - indicates that this activity performed by decommissioning staff.
0 - indicates that this value is less than 0.5 but is non-zero.
a cell containing " - " indicates a zero value