

NUCLEAR DECOMMISSIONING CITIZENS ADVISORY PANEL PUBLIC SERVICE DEPARTMENT

Nuclear Decommissioning Citizens Advisory Panel Annual Report to the Governor and the Vermont Legislature

2021

Published: January 2022 (Approved by the Panel on January 10, 2022)

1	- Nuclear Decommissioning Citizens Advisory Panel -
2	2021 Annual Report to the Governor of Vermont and the
3	Energy Committees of the General Assembly
4	(House Energy & Technology,
5	House Commerce & Economic Development,
6	House Natural Resources, Fish and Wildlife, and
7	Senate Natural Resources & Energy Committees)
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9	I. Statutory Authority and Duties
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11	The nineteen-member Vermont Nuclear Decommissioning Citizens Advisory Panel ("NDCAP" or
12	the "Panel") was established during the 2014 Legislative Session as part of Act 1/9 (Section E.233;
15 17	outlined in this Act, which is available online at:
14 15	https://legislature.vermont.gov/Documents/2014/Docs/ACTS/ACT179/ACT179%20As%20Enac
16	ted.ndf.
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18	Membership and duties of NDCAP were modified during the 2021 legislative session as part of
19	Act 54, (Section 13, pages 11 through 16 of the Act). Details on the current membership and
20	duties of NDCAP are available online at:
21	https://legislature.vermont.gov/statutes/fullchapter/18/034.
22	
23	The list of current members of the Nuclear Decommissioning Citizens Advisory Panel may be
24	found at <u>http://publicservice.vermont.gov/electric/ndcap (aka, the NDCAP website).</u> Changes in
25	Panel membership during 2021 may be discerned by reviewing the meeting minutes and meeting
26	recordings available at the NDCAP website.
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28	II. Charter
29 20	The NDCAP Charter was adopted on February 25, 2015, and amonded on May 26, 2016. The
30 21	current Charter is available at:
32	https://publicservice.vermont.gov/sites/dps/files/documents/NDCAP/Amended%20NDCAP%2
33	0Charter%20%28Adopted%202016.05.26%29.pdf.
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25	No changes to the NDCAP Charter were made during 2021 However, revision to the NDCAP
36	Charter is likely necessary due to the changes in Panel membershin and duties implemented in
37	Act 54 of the 2021 Legislative Session. NDCAP will review and undate its Charter during calendar
38	year 2022 to align it with Act 54 changes.
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41 III. Meeting Highlights

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43 The NDCAP held four meetings in 2021; meetings were held in April, June , September, and

- 44 December. All meetings were open to the public and opportunities for public comments were
- 45 provided. In response to the COVID-19 pandemic, the April and June meetings were conducted
- 46 entirely as Microsoft Teams webcasts. The September and December meetings were conducted
- 47 primarily as Microsoft Teams webcasts. However, in compliance with Open Meeting Law, a
- 48 physical meeting space was available in downtown Brattleboro for these latter meetings.
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- 50 All meetings included updates on recent VY decommissioning activities by both NorthStar and the
- 51 State of Vermont. Educational and issue-specific topics were also discussed. Several of the issue-
- 52 specific topics centered on Panel meeting logistics moving forward. Opportunities for discussion
- and comments from Panelists and the public on all covered topics were provided during each
- 54 meeting. A summary of each meeting is presented below.
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- 56 The minutes of each meeting can be found on the NDCAP website (a dedicated section of the Public
- 57 Service Department website) at <u>http://publicservice.vermont.gov/electric/ndcap</u>. A complete
- video or webcast recording for each meeting can be found at:
- 59 <u>https://www.brattleborotv.org/vt-nuclear-decommissioning-citizens-advisory-panel.</u>
- 60
- 61 Links to these video recordings are also available through the NDCAP website. Additional
- information regarding VY's active decommissioning is available at the Public Service Department's
 recently launched "VY Decommissioning" website at:
- 64 <u>https://publicservice.vermont.gov/content/vermont-yankee-decommissioning</u>

65 66 **April 12, 2021**

67 The Panel's first meeting of the year was originally scheduled for March 15. However, due to 68 world-wide connectivity issues with the Microsoft Teams platform that evening, the meeting was 69 rescheduled to April 12. At the start of the April 12 meeting, Panel Chair Emily Davis noted that 70 Paul Wolossow was appointed as the Panel's New Hampshire Towns representative prior to the 71 planned March 15 meeting. Unfortunately, Mr. Wolossow subsequently passed away during the 72 week of March 28.

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• NorthStar Update on VY Site Decommissioning Activities:

75 Panelist Corey Daniels, VY's Senior Spent Fuel Storage Manager, provided a presentation 76 that outlined ongoing decommissioning activities. Progress on Reactor Vessel (RV) 77 segmentation was described. While RV segmentation is behind schedule, Orano continues 78 to perform high-quality work on the task. No significant impact to the overall project 79 schedule is anticipated. Segmentation of the Core Shroud cylinder is nearing completion, which is one of the last difficult component segmentations to be completed. Recent 80 81 Control Rod Guide Tubes segmentation and waste packaging was also discussed. Current Turbine Building TB) demolition and equipment removals were described; the current 82 83 work includes removal of the Feedwater Heaters, disassembly of the Condenser and

84 removal of Emergency Diesel Generator Rooms equipment. The planned removal of the 85 500,000 gallon Condensate Storage Tank was discussed. In response to Panelist questions, onsite storage plans for VY's Greater-than-Class C radioactive waste were also 86 87 discussed. In response to a series of questions from the public, additional details on VY's radioactive waste shipment activities were described. 88 89 90 **State of Vermont Decommissioning Activities:** • Gerold Noyes, Environmental Engineer in the Department of Environmental 91 92 Conservation's (DEC's) Waste Management and Prevention Division outlined the Agency 93 of Natural Resources (ANR) / DEC's ongoing interactions with VY: regular (biweekly) 94 status calls, draft permit and corrective action plan reviews. Information from these communications is available from both the NorthStar and ANR websites. Quarterly 95 96 groundwater sampling, and the VY site post-demolition sampling plan were discussed. 97 DEC's approval of an onsite groundwater intercept well system, which would divert

- 98 groundwater from entering the Turbine Building and becoming contaminated, was 99 discussed. After confirming that the diverted water is clean, the collected groundwater 100 will be discharged to the Connecticut River.
- No new contamination areas have been found onsite thus far; however more sampling will
 be done as more site structures are demolished, allowing more areas to be sampled.
 Onsite asbestos abatements are largely complete.

106 Panel Member Dr. Bill Irwin, Vermont Radiological and Toxicology Sciences Chief, outlined 107 Vermont Department of Health oversight at VY. Health's sampling and monitoring 108 programs for air, milk, groundwater, sediments, fish and water supplies within the Vernon and Brattleboro vicinities were described. Monitoring program results are available at 109 110 https://www.healthvermont.gov/health-environment/radiological-health/vermont-<u>vankee</u>. Health's support in DEC's oversight of VY activities was also discussed. Despite 111 the Pandemic, Health was able to conduct several onsite inspections during 2020. Health 112 was significantly involved in ANR's water discharge permit process for Vermont Yankee. 113 114 Thus far, the decommissioning project has not had an adverse environmental impact.

Eric Guzman, Special Counsel in the Vermont Public Service Department outlined the 116 117 Department's monitoring of the VY Decommissioning Project since the Panel's December 118 2020 meeting. Reviews conducted by Four Points Group, the Department's consultant for 119 VY Decommissioning oversight was also discussed. In general, the expenditures thus far on the project are consistent with the project's observed progress. NorthStar remains on 120 121 track to complete the project with available funding. NorthStar's required annual project certification report and financial disclosures were received on March 31, which the 122 123 Department is currently reviewing.

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- 126 • **Discussion of Federal Nuclear Waste Policy Committee Activities:** Lissa Weinmann, Chair of the Panel's Federal Nuclear Waste Policy Committee, briefly 127 128 outlined the Committee's activities during its first several meetings. The Committee has 129 been compiling a reading list of relevant materials to help them come-up to speed on 130 various nuclear waste policy issues. This reading list is included on a webpage that has been created for the Committee: https://publicservice.vermont.gov/content/vt-ndcap-131 132 federal-nuclear-waste-policy. 133
- Nuclear waste policy issues being considered by the Committee include Yucca Mountain,
 Consolidated Interim Storage, Nuclear Waste Transportation, the durability of Interim
 Nuclear Waste Storage Facilities (ISFSIs) and potential community compensation for
 hosting an ISFSI. The Committee plans to have recommendations for potential Advisory
 Opinions on these subjects for Panel consideration by the end of this year.
- 140The Committee has been meeting monthly, typically on the third Monday of the month,141and tries to limit its meetings to one hour. Much of the Committee's efforts is actually142"homework" outside of the Committee meetings. The Committee has made arrangements143to have invited speakers briefly present on Committee Topics.
 - Overview of Texas Compact Commission Contingency Planning Report:
- State Nuclear Engineer Tony Leshinskie reported that the Texas Compact Commission is 146 147 required to publish a Contingency Planning Report to comply with Federal and State of 148 Texas law. The report recommends that low-level radioactive waste producers maintain a contingency plan for alternate waste disposal in case the Compact Facility becomes 149 150 unavailable for whatever reason. Of particular concern is Class B and Class C low level 151 waste because there are no other licensed facilities in the US that can accept these waste classes. While active and decommissioning nuclear power plants have the ability to store 152 Class B and C wastes for some period of time, other waste producers may not. Tony 153 154 indicated that he will work with NorthStar and the Department of Health in coordinating a continency plan for all Vermont radioactive waste producers. The Compact Facility does 155 not currently foresee any reason why it would become unavailable; however, planning for 156 157 this potential contingency needs to be done.
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• Status Report on Panel Legislation:

Panel Members and Vermont House Representatives Sara Coffey and Laura Sibilia briefly outlined the status of their bill to realign the Panel's composition and provide a funding source for the Panel. This bill was the result of several Panel discussions in late 2019 and early 2020. The Panel voted on the wording of the bill in February 2020 and it was introduced to the Legislature. Due to other priorities (particularly the response to the Pandemic), the bill did not come to a Senate vote in 2020. The bill was reintroduced this year and has again passed the House (part of House Bill H.431,

167	https://legislature.vermont.gov/bill/status/2022/H.431). The bill has been referred to
168	the Senate Finance Committee, which has yet to take testimony on the bill.
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170	Potential Revamp of Panel Website:
171	Panel Chair Emily Davis requested that Panel members review the Panel's website
172	(https://publicservice.vermont.gov/electric/ndcap) and consider whether there are ways
173	to improve its usefulness to the Panel and the public. Panel member and Public Service
174	Commissioner June Tierney cautioned that there may be limits on what can be done to
175	undate the website due to the current strain on PSD resources and the State's standards
176	for official websites
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177	Cohoduling 2021 Denal Mastinger
170	 Scheduling 2021 Panel Meetings: The Danel agreed to most on June 14, Sontember 20, and December 6
100	The Fallel agreed to meet on june 14, September 20, and December 0.
101	June 14, 2021
101	julie 14, 2021
182	NorthStar Update on VY Site Decommissioning Activities: NorthStar Densist Corey Densisk symmetrized decommissioning activities completed since
183	NorthStar Panelist Corey Daniels summarized decommissioning activities completed since
104	April 2021. (Silies for this presentation was described. BV core shroud sogmentation is
186	nearing completion Segmentation of the RV shroud cylinder is done. The remaining steps
187	in the RV segmentation project are to remove the RV jet numps segment the RV pozzles
188	and then begin segmenting the RV itself. Degraded water clarity, which reduces visibility
189	while conducting segmentation tasks, was noted, but thus far, this has not significantly
190	impacted the project. Progress in clearing Turbine Building equipment and preparation
191	for demolishing the Administrative Offices Building were described.
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193	Assessment of NorthStar 2020 Annual Project Report:
194	PSD Special Counsel Eric Guzman outlined PSD's fiscal oversight of the VY
195	Decommissioning project required by the Memorandum of Understanding (MOU) in effect
196	as part of NorthStar's purchase of VY. Nick Capik and Mark Gymr of Four Points Group
197	(FPG). PSD's consultants for overseeing the project, were also present to discuss the
198	assessment. (Slides for this presentation are available from the Panel's website.) Review
199	of North Star's required annual financial disclosures identified no causes for concern. The
200	expenditures thus far on the project are consistent with the project's observed progress
200	NorthStar remains on track to complete the project with available funding. It was noted
201	that the Vermont Venkee indirect license transfer case before the Vermont Public Itility
202	Commission is surrently staved nonding a submittal shange from the Detitioners
205	(Neith Store even eachin)
204	(Northstar ownership).
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206	 Department of Environmental Conservation Update:
207	Gerold Noyes, Environmental Engineer in the Department of Environmental
208	Conservation's (DEC's) Waste Management and Prevention Division outlined the
209	Agency of Natural Resources (ANR) / DEC's recent interactions with VY. (Slides for this
210	presentation are available from the Panel's website.) Regular status calls, draft permit

211 and corrective action plan reviews continue. Additionally, ANR / DEC staff visited the 212 VY site on June 2, which allowed Panelist Patricia Coppolino and DEC's Anna 213 Bourakovsky to observe site activities first-hand. (Both are new to working on VY 214 oversight.) Quarterly groundwater sampling was also observed during this site visit. Some PFAS contamination has been found onsite, most likely due to an onsite 215 216 transformer fire that occurred years ago. No site-wide contamination is expected from 217 this finding. No other, new contamination areas have been found onsite; however, as 218 more site structures are demolished, this will allow more areas to be sampled. Onsite asbestos abatements are largely complete. 219

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- During Panel Questions: Marvin Resnikoff voiced concerns that the radwaste volumes 221 222 reported from the RV segmentation, particularly the Greater-than-Class C (GTCC) waste volumes are low. He has requested that NorthStar provide details on its radwaste 223 224 measurement methods. Corey Daniels replied that while NorthStar has attempted to 225 answer Marvin's questions, some of the requested information is proprietary. They may not be able to fully answer the questions as a result. Corey noted that some of the 226 227 questions are based on 40-year-old NRC estimates. Lissa Weinmann asked whether some 228 of the site's uncontaminated equipment can be sold for reuse rather than for scrap. Corey 229 Daniels replied that while attempts to resell equipment have been made, the loss of quality assurance pedigrees when the equipment was abandoned makes resale difficult. In many 230 instances, it is cheaper for a buyer to purchase new equipment than reestablishing the 231 required pedigrees for old equipment. 232 233
- In response to questions from the Public: Gerold Noyes clarified that onsite PFAS
 contamination is limited to the immediate vicinity of the transformer fire and nowhere
 else. In response to additional public questions, Corey Daniels noted that disposal
 locations for VY's non-radiological waste is tracked. Gerold added that DEC also tracks this
 through current State rules. Corey also noted that NorthStar plans to use current NRC
 radioactivity limits for radwaste disposal rather than any that may result from new NRC
 rulemaking.

• Discussion of Federal Nuclear Waste Policy Committee Activities:

Lissa Weinmann, Chair of the Panel's Federal Nuclear Waste Policy Committee, briefly outlined the Committee's activities during its first several meetings. The Committee continues to compile relevant materials on several nuclear waste policy issues, particularly Yucca Mountain and Consolidated Interim Storage. Compiled materials are available at: https://publicservice.vermont.gov/content/vt-ndcap-federal-nuclear-waste-policy.

249The May Committee meeting featured an excellent discussion with Mark Holt of the250Congressional Research Service that summarized nuclear waste policy bills that have been251proposed in Congress over the past several years. It is expected that many of these bills252will be offered again. The Committee is investigating whether Vermont should formally

support these efforts or any of the proposed Nuclear Waste Policy changes that the BidenAdministration is currently considering.

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• Status Report on Panel Legislation:

257 Panelist Sara Coffey reported that H.431 was signed into law on June 3 as Act 54 of the 258 2021 Legislative Session. The NDCAP-related portions of the Act are effective July 1. The 259 Act provides the Town of Vernon with an additional representative on the Panel (two representatives in total) and a \$35,000 annual budget for the Panel. The Panel briefly 260 discussed potential uses for this budget. Initial suggestions included purchasing of 261 hardware to support Panel meetings and bringing in subject matter experts to speak at 262 Panel Meetings. Panel Chair Emily Davis committed to making a first draft of a Panel 263 budget for discussion at a future meeting. 264

• Formats for Future Panel Meetings:

The Panel discussed logistics for upcoming Panel meetings. With COVID-19 emergency 267 measures lifted, future Panel meetings once again require a physical meeting space (for 268 269 compliance with Open Meeting Law). Pre-pandemic meeting sites were typically school 270 facilities, which may remain unavailable for the rest of 2021. A few Panelists expressed a 271 desire to return strictly to in-person meetings, but it was agreed that the Panel would adopt a hybrid meeting approach that would allow Panelists travelling from other parts of 272 273 the state to instead join meetings through a webcast. State Nuclear Engineer Tony Leshinskie noted that whatever meeting space is used, it will need to have high-speed 274 275 internet access to assure that the webcast runs smoothly. Some concern was expressed that using webcasts was straining the Panel's public outreach. More outreach by the Panel 276 277 is needed. Several potential meeting sites were discussed, but it was agreed that a specific meeting site would need to be determined at a later date, but in time for the Panel's 278 279 planned September 20 meeting.

281 September 20, 2021

Due to the lifting of Pandemic countermeasures in June, this was the Panel's first meeting since
early 2020 for which a physical meeting space was available. Most Panel members and all public
attendees joined this meeting via webcast.

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Texas Low Level Radioactive Waste Disposal Compact (TLLRWDC) Commission

TLLRWDC Compact Commissioner Peter Bradford, one of Vermont's two Commissioners 287 for the TLLRWDC, outlined the Compact's history and purpose. An overview of the 288 289 Compact's Low Level Radioactive Waste (LLRW) Disposal Facility and its operations was 290 provided. Interactions between the Disposal Facility and the Texas Commission on Environmental Quality, which regulates the facility's safety and environmental impact, was 291 292 also discussed. (Slides for this presentation are available from the Panel's website.) 293 Commissioner Bradford answered questions provided by Panel members and the public 294 on the Compact's positions on several radioactive waste disposal and details of the 295 Disposal Facility's operations. Some of this discussion centered on the NRC's recent 296 (September 13) approval of an Orano / Waste Control Specialists request to construct and

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297	operate a Consolidated Interim Spent Fuel Storage Facility adjacent to the Compact's LLRW
298	Disposal Facility. The Compact has no position on the Interim Storage Facility; its
299	operation would be outside the scope of the Compact's jurisdiction. It was noted that the
300	Compact's Low Level Radioactive Waste (LLRW) Disposal Facility and its operator, WCS,
301	has undergone some financial difficulties in recent years. However, based on Commission
302	assessments, it is likely that the Disposal Facility and WCS will continue to remain operable
303	and available to accept all low-level radioactive waste from VY's decommissioning.
304	Additional details for this presentation are available from the Meeting Minutes and
305	Meeting Recording available at the Panel's website
306	(https://publicservice.vermont.gov/electric/ndcap).
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308 •	Discussion of Federal Nuclear Waste Policy Committee Activities:
309	Lissa Weinmann. Chair of the Panel's Federal Nuclear Waste Policy Committee, discussed
310	the draft report that the Committee published on the on the Panel website. This report is
311	available at
312	https://publicservice.vermont.gov/sites/dps/files/documents/Final Nuclear Waste Com
313	mittee Update 2021 NDCAP Rev2.pdf.
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315	The report summarizes many of the items that the Committee has examined thus far and
316	discussions that have occurred at its monthly meetings. The Committee requests that
317	Panel members review the draft and provide feedback to the Committee.
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319	The draft report highlights several potential topics where common ground among the
320	Panelists may be possible for an Advisory Opinion.
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322	Additionally, the Panel may want to support the new US House Caucus for spent nuclear
323	fuel solutions. A restart is needed on a national integrated spent fuel management system,
324	as is a reexamination of deep geological repository requirements. Currently, there are no
325	such repositories operating anywhere worldwide, although Finland and China are each
326	close to opening one.
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328	The Committee expects to have at least one Advisory Opinion draft available for
329	consideration by the end of the year.
330	
331 •	NorthStar Update on VY Site Decommissioning Activities:
332	NorthStar Panelist Corey Daniels summarized decommissioning activities completed since
333	June 2021. (Slides for this presentation are available from the Panel's website.) It was
334	noted that the VY site recently exceeded 1,000,000 person-hours worked (since NorthStar
335	took ownership of VY on January 11, 2019) without an OSHA Recordable Lost Time
336	Accident. Progress on Reactor Vessel (RV) segmentation was described. Removal of RV
337	internal components is essentially complete. Preparations for segmenting the RV nozzles
338	and the RV itself have commenced. Efforts to removed expended cutting media, which is
339	degrading water clarity, were discussed. Clearing of Turbine Building equipment

- 340continues. Recent additional structure demolitions were also described, including341demolition of the Effluent Stack, component removals at the River Intake Structure and342the demolition of the remaining onsite radwaste processing and other system tanks. A343walk-through of a radwaste transfer from the Reactor Building to shipment offsite via a344dedicated railcar was also described
- Groundwater discharge from VY's several diversion wells to the Connecticut River occurs
 in accordance with the river discharge permit approved by the DEC. Discharges are
 typically 15,000 gallons per day when they occur.
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• Department of Environmental Conservation Update:

351 Gerold Noyes, Environmental Engineer in the Department of Environmental 352 Conservation's (DEC's) Waste Management and Prevention Division outlined the Agency of Natural Resources (ANR) / DEC's recent interactions with VY. (Slides for this 353 presentation are available from the Panel's website.) Regular status calls, draft permit and 354 corrective action plan reviews continue. Quarterly groundwater sampling for non-355 356 radiological contaminants continue to show no area-wide contamination issues at the VY 357 site. The next sampling is scheduled for September 22. No new contamination areas (including potential PCB contaminations) have been found onsite; however, as more site 358 359 structures are demolished, this will allow more areas to be sampled. A modification to the 360 site's potable water system, required for demolishing the Administrative Offices Building, 361 was discussed.

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• Public Service Department (PSD) Update:

PSD Special Counsel Eric Guzman outlined PSD's fiscal oversight of the VY Decommissioning project required by the Memorandum of Understanding (MOU) in effect as part of NorthStar's purchase of VY. (Slides for this presentation are available from the Panel's website.) The expenditures thus far on the project are consistent with the project's observed progress. NorthStar remains on track to complete the project with available funding. It was noted that the Vermont Yankee indirect license transfer case before the Vermont Public Utility Commission is currently stayed at the Petitioner's (NorthStar ownership) request.

- During Panel Questions: Lissa Weinmann asked whether all underground piping at the site had been removed. Corey Daniels answered no. To date, the bulk of piping removals have been from the interior of the Turbine Building. The Turbine Building needs to be taken "cold and dark" to assure that underground piping and other large below grade components can be removed safely. Portions of the Turbine and Reactor Buildings that still require electricity need to be transferred to "street power" (i.e., the local power grid) before these removals can start. Efforts for this transition have begun.
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382	Potential Panel Budget Uses:
383	Panel Chair Emily Davis provided a first draft of a proposed Panel budget, which is
384	available at:
385	https://publicservice.vermont.gov/content/2022-proposed-ndcap-budget
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387	In addition to covering current Panel meeting expenses such as space rental and meeting
388	recording fees, the budget proposes additional expenditures such as meeting
389	infrastructure (e.g., a better projector for meeting presentations), a potential upgrade to
390	the Panel's website, and possibly a transcription service for generating the meeting
391	minutes. A Panel staff person was also proposed to assist in meeting promotion (press
392	releases, additional social media, etc.). A line item for the State Nuclear Engineer's time
393	supporting the Panel was also included. Public Service Commissioner June Tierney noted
394	that any Panel staff and the State Nuclear Engineer's salary were within the Public Service
395	Department's budget and outside of the Panel's \$35,000 annual budget allocation. Ensuing
396	discussion determined that the Panel initially intended to use its budget to alleviate some
397	of the State Nuclear Engineer's administrative burdens from the Panel. (It was noted that
398	the State Nuclear Engineer's supervision for these tasks was still essential to assure they
399	are properly carried out.) Consensus was reached that some of the budget should be used
400	for improving the Panel's website. (It was noted that all website changes would need to
401	comply with Vermont State standards for official websites.) Budget would also be
402	allocated to make subject matter experts available to the Panel. Some discussion on
403	whether Panel stipends could be increased occurred. But it was recognized that increasing
404	the current stipend for Panel volunteers would require action by the Legislature. Based on
405	this discussion, Panel Chair Emily Davis committed to revising the Panel budget draft for
406	further discussion at a future meeting.
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408 **December 6, 2021**

During Panel Member roll call, it was noted that the website for Massachusetts State
Representative Paul Mark (Massachusetts Towns representative for the Panel) indicates that he
has stepped down from NDCAP. Several letters have been sent to the Massachusetts Governor's
Office requesting that a replacement be named.

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• Review of Panel Charge and Purpose / Panel Draft Budget:

- 415The latest version of the Panel FY 2022 budget is included in the Panel Duties and Budget416Notes available at: https://publicservice.vermont.gov/content/ndcap-duties-and-budget-notes-dec-6-discussions.417budget-notes-dec-6-discussions.
- The Panel's duties center on disseminating information on Vermont Yankee
 decommissioning activities and assuring that public can ask questions or voice concerns
 about these activities. In short, the Panel's purpose is public outreach. Emily Davis
 noted that the proposed budget allocations reflect the Panelists' desires to enhance its
 public outreach and allow Panel members to be better informed on decommissioningrelated topics. The proposed budget allocates funds for improving the Panel's website,
 potentially expanding meeting publicity, improving electronic access to meetings and

426 assuring that high-quality meeting recordings remain available. The budget also 427 allocates honoraria for experts speaking to the Panel. This last item would be in lieu of allocations for Panel members to attend decommissioning conferences. Some discussion 428 429 on Panelists potentially attending decommissioning conferences and how or whether expenses for such conferences could be covered by the Panel's \$35,000 annual budget 430 ensued. However, with no specific conferences in mind, no consensus was reached. 431 General agreement was reached that the current budget draft has sufficient detail for the 432 433 Panel to use its current budget. Additional details for specific expenses can be addressed 434 during the Public Service Department's approval process for individual expenses. 435 **Panel Current Public Engagement / Participation:** 436 • 437 An outline of the Panel's current public engagement practices is included in the Panel 438 Duties and Budget Notes available at: https://publicservice.vermont.gov/content/ndcap-duties-and-budget-notes-dec-6-439 discussions. 440 441 442 Public engagement currently consists of notifications / publications on the Panel website 443 (https://publicservice.vermont.gov/electric/ndcap), press releases for upcoming meetings, 444 and redistribution of the press releases to a voluntary public interest email distribution list. The Panel discussed the potential enhancements in public outreach identified in the draft 445 446 budget. 447 448 Meeting Webcast Platform: Panel Chair Emily Davis indicated that she and State Nuclear Engineer Tony Leshinskie have discussed having Brattleboro Community Television (BCTV) 449 run the meeting webcasts. Tony currently runs the webcasts on Microsoft Teams; BCTV is 450 currently responsible for recording "in-person" and webcast meetings. Having BCTV run 451 452 the webcasts potentially allows Zoom to be used as the meeting platform rather than Teams. The contract for this new option is currently being worked out. 453 454 455 <u>Panel Website Update</u>: The Panel generally agreed that refreshing the Panel website would be helpful for improving outreach. It was suggested that recent updates to the 456 457 Vermont Climate Control Council website could serve as a template for revamping the Panel's website. It was noted that the Panel website must remain the responsibility of 458 459 the Public Service Department. However, its web design can be contracted out. Website 460 updates would need to be reviewed by the Department to assure that they comply with 461 State website requirements. It was again suggested that the Panel form a committee to 462 oversee the website revisions. 463 Enhancements to Public Outreach: While it was agreed that additional public outreach is 464 465 needed, no consensus was reached on potential improvements. A committee to look at potential new outreach options was suggested, but no action to create such a committee 466 was taken. The Panel will pursue potential Public Outreach options in 2022. 467 468 469

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• Discussion of Federal Nuclear Waste Policy Committee Activities:

Lissa Weinmann, Chair of the Panel's Federal Nuclear Waste Policy Committee, discussed 471 472 recent Committee activities. The Committee continues to meet monthly, with the last meeting of the year scheduled for December 20. The Committee's meetings are drawing 473 attention. Several members of the public from across the United States have attended 474 475 Committee's webcasts. One official from the US Department of Energy joins meetings on a 476 regular basis. The Committee is currently working on a draft Advisory Opinion regarding the US Department of Energy's development of a Consent-Based Siting process. Recently 477 (last week) the Department of Energy issued a Request for Information (public comments) 478 479 on the temporary, consolidated storage of spent nuclear fuel using a Consent-Based approach; the Committee will examine whether anything in this request should be 480 481 addressed by the Advisory Opinion. The Committee plans to continue meeting in 2022 to 482 discuss Federal Nuclear Waste Policy topics. However, it may opt to meet less frequently 483 (probably quarterly, rather than monthly).

485 NorthStar Update on Recent VY Site Decommissioning Activities: NorthStar Panelist • 486 Corey Daniels summarized decommissioning activities completed since September 2021. 487 (Slides for this presentation are available from the Panel's website.) It was noted that the VY site recently exceeded 1,100,000 person-hours worked (since NorthStar took ownership 488 of VY on January 11, 2019) without an OSHA Recordable Lost Time Accident. The Nuclear 489 490 Regulatory Commission (NRC) has issued no cited violations, nor have there been any non-491 cited violations, for the decommissioning project thus far in 2021. There were no cited or non-cited violations in 2019 and 2020. Progress on Reactor Vessel (RV) segmentation and 492 493 the ongoing dismantling of the Turbine Building was described. The RV is now empty; all 494 RV internal components have been removed. In preparation for segmenting the RV itself, some drain down of water in the Reactor Cavity and the Dry Separator Pit (DSP) has 495 occurred. Efforts for the remainder of the year will focus on filtering expended garnet 496 497 cutting media from the RV and DSP water. Although RV segmentation remains somewhat 498 behind schedule, the decommissioning project overall remains ahead of schedule. The 499 largest Turbine Building structure, the Main Condenser, is essentially gone. Approximately 500 2.5 million pounds of Condenser scrap has been removed thus far. Demolition of the Administration Building (adjacent to the north side of the Turbine Building) superstructure 501 is complete. Progress on the demolition of the Radioactive Waste Clean-Up Building and the 502 503 Cooling Tower basins / foundations was also described.

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• Department of Environmental Conservation Update:

506Gerold Noyes, Environmental Engineer in the Department of Environmental Conservation's507(DEC's) Waste Management and Prevention Division outlined the Agency of Natural508Resources (ANR) / DEC's recent interactions with VY. (Slides for this presentation are509available from the Panel's website.) Regular status calls, draft permit and corrective action510plan reviews continue. ANR / DEC staff visited the VY site on December 1, which allowed511DEC's Grahame Bradley to observe site activities first-hand. (Mr. Noyes will be retiring

512 from state government in February 2022 and Mr. Bradley will be taking over Mr. Noyes' project role.) Quarterly groundwater sampling for non-radiological contaminants continue 513 to show no area-wide contamination issues at the VY site. The next sampling is scheduled 514 515 for December 14. No new contamination areas have been found onsite; however, as more site structures are demolished, this will allow more areas to be sampled. The first soil 516 sampling for a demolished structure will occur on December 12 from under the concrete 517 518 floor of Cooling Tower #1. No additional asbestos abatement work has occurred; onsite asbestos abatement is largely complete, although asbestos checks are still occurring. 519 520 **Public Service Department (PSD) Update:** 521 • PSD Special Counsel Eric Guzman outlined PSD's fiscal oversight of the VY Decommissioning 522 project required by the Memorandum of Understanding (MOU) in effect as part of 523 NorthStar's purchase of VY. (Slides for this presentation are available from the Panel's 524 website.) The expenditures thus far on the project are consistent with the project's 525 observed progress. NorthStar remains on track to complete the project with available 526 527 funding. It was noted that in Vermont Yankee indirect license transfer case before the 528 Vermont Public Utility Commission (PUC), the Petitioner (NorthStar ownership) has asked 529 to withdraw the case. In response to the withdrawal request, PSD has asked for several 530 additional reporting requirements in NorthStar's self-reporting. NorthStar and PSD are awaiting PUC decisions for these requests. 531 532 533 • Draft Annual Report for 2021: 534 State Nuclear Engineer Tony Leshinskie summarized the current status of the Panel's 2021 Annual Report to the Legislature, which is due on January 15, 2022. Expected contents for 535 536 the report were described. A draft of this report will be available by December 21 for 537 Panelist review and comments. After some discussion, the Panel agreed to hold a Special Meeting on January 10, 2022, to discuss and approve the final draft of the report. 538 539 Election of New Panel Officers: In separate votes, Emily Davis was reelected Panel Chair 540 • and Josh Unruh was reelected Panel Vice-Chair for terms of 1 year. The Panel thanked 541 Emily Davis for her service as Panel Chair in 2021. Emily Davis thanked Josh Unruh for his 542 assistance in addressing her "numerous questions" regarding the Panel Chair position. 543 544 545 IV. Major Milestones and Activities at the Vermont Yankee Site 546 547 • 1/4 Site Decommissioning Activities resume following Holiday Break • 1/4 Preparations for Reactor Vessel (RV) Core Shroud segmentation resume; 548 Turbine Building (TB) piping and equipment removals resume; Radwaste Clean-Up 549 550 (RWCU) Building Piping and component removal underway; Radioactive waste 551 shipments via railcars resume 1/11 Removal of Condensate Storage Tank (CST) ancillary structures begins; 552 • 553 clearing of TB Feedwater Heater Bay equipment underway

554	•	1/19	Panel Chair & Vice-Chair tour VY site to observe current decommissioning activities	
555	•	1/25	Clearing of TB Condensate Pump Room components begins; preparations for TB	
556			Condenser dismantling begin	
557	•	1/26	RV Core Shroud segmentation begins	
558	•	1/29	Phase 1 of Radwaste Building Piping and component removal completed; clearing of	
559			TB Feedwater Heater Bay equipment completed	
560	•	2/1	RV Drywell insulation and ductwork removal begins	
561	•	, 2/22	Dismantling of TB Condenser ancillary structures (water boxes) begins	
562	•	2/23	First Nuclear Regulatory Commission (NRC) onsite inspection of the year occurs	
563			(2/23 through 2/25)	
564	•	3/5	Packaging & shipment of final Control Rod Guide Tube completed (activity began in	
565		October 2020); clearing of TB Condensate Pump Room components completed		
566	•	3/8	TB Condenser segmentation begins	
567	•	3/19	RV Drywell insulation and ductwork removal completed	
568	•	3/22	Modified RB Ventilation System fully operational; VY Effluent Stack abandoned	
569	•	3/29	Northstar files required Annual VY Decommissioning Trust Fund and Spent	
570			Fuel Management Fund reports	
571	•	4/1	VY "Tabletop" Site Emergency Drills Completed	
572	•	4/1	DEC issues revised VY river discharge permit; diversion well water from VY can	
573			now be discharged to the Connecticut River	
574	•	4/1	First shipment of VY "Process" Water occurs	
575	•	4/5	Cutting of TB Condenser Tubes (largest portion of the Condenser) underway	
576	•	4/5	Lead paint abatement at River Water Intake Structure begins	
577	•	4/12	Dismantling of Effluent Stack internal components begins	
578	•	4/14	Federal Railroad Administration inspections at VY to review hazmat rail shipment	
579			procedures	
580	•	4/15	Lead paint abatement at River Water Intake Structure completed	
581	•	4/16	Clearing of abandoned RB Ventilation System components completed	
582	•	4/19	Second NRC onsite inspection of the year occurs $(4/19 \text{ through } 4/22)$	
583	•	4/29	650,000 working hours without an OSHA lost time incident at VY celebrated	
584	•	5/7	NRC approves VY disposal of up to 2,000,000 gallons of radioactive water at	
585			US Ecology Idaho hazmat disposal facilities	
586	•	5/10	CST decontamination and removal of internal components begins	
587	•	5/15	Dismantling of - internal components completed	
588	•	5/19	Demolition of Effluent Stack begins	
589	•	5/20	First shipment of expended cutting media (sand-garnet) collected from RV water	
590			sent to WCS	
591	•	6/2	Quarterly groundwater sampling completed	
592	•	6/2	First Groundwater Diversion Well discharge to the Connecticut River occurs	
593	•	6/11	CST decontamination and removal of internal components completed	
594	•	6/14	Demolition of TB Administrative Offices section begins	

595	•	6/16	RV Core Shroud segmentation completed
596	•	6/21	Removal of RV Jet Pumps begins
597	•	6/21	Third NRC onsite inspection of the year occurs (6/21 through 6/24)
598	•	6/23	Onsite Rail Spur Maintenance completed (one day job)
599	•	6/24	Annual self-inspections spent fuel casks and ISFSI pads completed;
600			no significant issues identified
601	•	6/28	CST demolition begins
602	•	6/30	CST demolition completed
603	•	7/8	Cutting of TB Condenser Tubes (largest portion of the Condenser) completed
604	•	7/13	Effluent Stack demolition completed
605	•	7/15	Clearing of Effluent Stack debris completed
606	•	7/19	NRC Early 2020 Inspection Exit Meeting – no issues, findings, or violations
607	•	7/19	Vacuuming garnet cutting media from RV water begins
608	•	7/20	NRC Region 1 Administrator tours VY site
609	•	7/21	Annual site roadway assessment completed (required by Town of Vernon)
610	•	7/26	River Intake Structure Chemical Shed demolition begins
611	•	8/10	Fourth NRC onsite inspection of the year occurs this week (8/10 through 8/12)
612	•	8/12	River Intake Structure Chemical Shed demolition competed
613	•	8/25	Removal of RV Jet Pumps completed
614	•	9/13	Preparations for RV Nozzle Cutting begins
615	•	9/22	Quarterly groundwater sampling completed
616	•	9/27	RV Nozzle Decontamination begins
617	•	10/1	Removal of Condenser Internal Components completed
618	•	10/4	Condenser Outer Shell segmentation begins
619	•	10/7	DEC issues Potable Water System modification permit, allowing final phase of
620			TB Administrative Offices demolition
621	•	10/11	Potable Water System modified; Reactor and Turbine Buildings
622			disconnected from Potable Water System
623	•	10/11	Radiological characterization surveys at the Cooling Tower foundations begin
624	•	, 10/12	Fifth NRC onsite inspection of the year occurs (10/12 through 10/14)
625	•	10/15	RV Nozzle Decontamination completed
626	•	10/20	Onsite Radiological Emergency Drill completed
627	•	10/25	Preparations for Radwaste Processing Building demolition begin
628	•	10/28	Demolition of TB Administrative Offices completed*
629	•	11/2	Demolition of Meteorological Towers completed
630	•	11/8	Draining of RV Cavity & Dryer / Separator Pit (DSP) begins
631	•	11/12	Condenser Outer Shell segmentation completed
632	•	11/15	East Cooling Tower foundation demolition begins
633	•	11/22	Radwaste Processing Building demolition begins
634	•	11/29	West Cooling Tower foundation demolition begins
635	•	12/3	East Cooling Tower foundation demolition completed
636	٠	12/6	Control Blade Crushing begins

637	• 12/7 NRC postpones planned onsite inspection to January 2022				
638	 12/14 Quarterly groundwater sampling completed 				
639	• 12/17 Radwaste Processing Building demolition completed*				
640	• 12/21 Control Blade Crushing complet	ed			
641					
642	* Below grade portions of these structures	will be demolished at a future date			
643					
644	V. Nuclear Decommissioning Trust (NDT) an	d Site Restoration Trust (SRT) Fund Updates			
645	(based on latest available data for 2021).			
646					
647	NDT	SRT			
648	\$361.1 M Balance on December 31, 2020	\$62.4 M Balance on December 31, 2020			
649	\$342.5 M Balance on March 31, 2021	\$60.5 M Balance on March 31, 2021			
650	\$322.8 M Balance on June 30, 2021	\$59.8 M Balance on June 30, 2021			
651	\$307.8 M Balance on August 31, 2020	\$58.9 M Balance on August 31, 2020			
652	\$298.7 M Balance on September 30, 2021	\$57.6 M Balance on September 30, 2021			
653	\$276.3 M Balance on December 31, 2021	\$56.9 M Balance on December 31, 2021			
654					
655	Monthly balances for the NDT and SRT are avai	lable at:			
656	https://publicservice.vermont.gov/content	<u>/trust-balances.</u>			
657					
658	Summaries of monthly expenditures for the Ver	mont Yankee Decommissioning Project are			
659	available: <u>https://publicservice.vermont.go</u>	v/content/public-reports.			
661	VI Spont Nuclear Fuel Status at Vermont Var	alkaa			
001	vi. Spent Nuclear Fuer Status at Vermont Far	IREE			
662	Transfer of VY's entire spent fuel inventory to d	ry cask storage was completed on August 1.			
663	2018 No changes to VY's spent fuel storage have occurred since then A total of 58 dry casks				
664	holding a total of 3,880 spent fuel assemblies, a	re stored at the VY Independent Spent Fuel			
665	Storage Installation (ISFSI). VY's spent fuel will remain stored at the VY ISFSI until such time				
666	that the US Department of Energy fulfills its obligation to provide a national spent nuclear fuel				
667	repository.				
668					
669	A total of 7 vacant cask spaces remain on the IS	FSI pads. Four of these are required should the			
670	arrangement of the dry casks on the two ISFSI pads need to be changed for any reason. The				
671	remaining three spaces are designated for storing Greater than Class C (GTCC) Low Level				
672	Nuclear Waste (e.g., highly contaminated VY Reactor Vessel internal components) resulting from				
673	VY's active decommissioning. VY continues to anticipate that the GTCC Nuclear Waste from VY's				
674	decommissioning can be stored in one GTCC waste container. A GTCC waste container will be				
675	loaded and moved to the VY ISFSI at a future date. No US low level radioactive waste disposal				
676					

conducted at VY during 2021, VY's GTCC waste currently resides in the Spent Fuel Pool. Transfer
of VY's GTCC to the ISFSI is expected to occur in mid-2022.

679

680 VII. Significant Vermont Yankee Site Changes

681 Monitoring of the Vermont Yankee Spent Nuclear Fuel is controlled from the site's Central Alarm 682 Station (CAS) Building, which became operational on August 23, 2018. No significant changes to 683 Vermont Yankee's spent fuel monitoring programs occurred during 2021. All Vermont Yankee 684 site changes that occurred during 2021 were the result of continuing decommissioning activities 685 which commenced on January 11, 2019.

686

The following onsite structures were demolished during 2021:

- Abandoned 500,000 gallon Condensate Storage Tank (CST)
- River Intake Structure Chemical Shed
- 690 Radioactive Waste Clean-Up Building
- Effluent Stack
- Administrative Offices Building (a section of the Turbine Building)
- Cooling Tower foundations and water basins
- Several abandoned security structures (none of which impact the VY ISFSI)
- 695
- Additionally, all Reactor Vessel internal components have been removed. Segmentation and
- 697 removal of the Reactor Vessel itself is expected in 2022. A significant portion of Turbine
- Building components, including the Main Steam Condenser, have been demolished.
- 700 The concrete pads for the previously demolished Shipping and Receiving Warehouse and the
- Advanced Off-Gas (AOG) Building remain in place. The below grade structures for the AOG
- 702 Building and the Transformer pad also remain in place.
- 703
- No significant onsite road repairs were required this year. The onsite rail spur has undergonemaintenance as needed.
- 706
- 707Several modifications to the onsite potable water supply system were made to permit
- 708 demolition of the Administrative Offices Building.
- 709 710

- 712 • Because 2021 has had significantly more rain than several previous years, the rate of groundwater entering the Turbine Building has been higher than rates seen in 2018 713 through 2020. 714 715 Increased rainfall produced a rate range between 300 and 1500 gallons per day • At End of Year the rate was roughly 300 gallons per day (similar to 2019 and 2020 716 717 end of year rates). 718 • In leakage is still below rates initially seen in 2015 Roughly 450,835 gallons of in leakage water have shipped in 2021 719 ٠ • All in leakage water has shipped to Waste Control Specialists (WCS) NRC-licensed 720 721 disposal site in Andrews County, Texas during 2021. • No water has shipped to US Ecology's hazardous waste disposal facility in 722 Grandview, Idaho, even though Vermont Yankee received NRC approval to ship up 723 to 2,000,000 gallons of contaminated water to this facility (authorization received 724 May 7, 2021); Vermont Yankee was previously authorized to ship 200,000 gallons of 725 contaminated water to this facility. Shipments under this prior authorization 726 727 occurred in 2019 and 2020. • All 2021 water shipments made were via tanker rail cars; 20 rail shipments in total. 728 Groundwater shipments to WCS facilities continue "as-needed." 729 0 • A total of 1,709,000 gallons have been shipped to date 730 • The system of water diversion wells along the Turbine Building periphery that was installed 731 in 2020 to mitigate the need for future water shipments received its water discharge permit 732 733 from the Department of Environmental Conservation on April 1. Diverted, uncontaminated water is discharged to the Connecticut River roughly 2 to 3 times per week. Each discharge 734 735 is \sim 15,000 gallons per day. • VY has begun shipping an ~900,000 gallon inventory of contaminated Process Water (water 736 737 from abandoned VY systems previously stored in the Suppression System Torus) to WCS 738 facilities. 739 • ~23,000 gallons per shipment • 21 shipments (462,843 gallons) shipped in 2021 740 741 742 **IX. Decommissioning Waste Shipments Summary** 743 744 A summary of radiological and hazardous waste shipments made from the Vermont Yankee site during 2021 follows. 745
- 746 IX.A Radioactive Waste Shipments Summary
- 747

An annual summary of Vermont Yankee's radioactive waste shipments is published in mid-May

of the following calendar year as part of the "Radioactive Effluent Release Report" filed with the

750 US Nuclear Regulatory Commission and the Vermont Public Service Department. Preliminary

- radioactive waste volume data available as of December 31, 2021 indicates that approximately
- 752 379,944 cubic feet of radioactive waste was shipped from the Vermont Yankee site during 2021

VIII. Vermont Yankee Water Management Program

753 754 755 756 757 758 759	(similar to the 309,152 cubic feet of radioactive waste shipped in 2020). The total weight of the waste shipped in 2021 exceeds 19,500,000 pounds (>9,750 tons). The total radiological activity of the shipped waste is 27,460 Curies (up from 522.8 Curies shipped in 2020 and 126.8 Curies shipped in 2019). All 2021 calendar year radioactive waste shipments were sent to Waste Control Specialists' (WCS) disposal facility Andrews County, Texas. 171 radioactive waste shipments were made in 2021; 142 of these were made via railcar. The remaining 29 shipments were made by truck.				
760					
761	Based on data provided by NorthStar in response to Panel questions in April 2021, the total				
762 763	activity of radioactive waste stored at the VT Yankee site is estimated as follows:				
764 765 766 767	• Total activity stored at the VY Independent Spent Fuel Storage Installation (ISFSI), consisting of 3880 spent fuel bundles stored in 58 spent fuel cannisters: 117,176,000 Curies (roughly 2,054,000 Curies per cannister)				
768	• The Greater Than Class C radioactive waste cask to be stored at the VY ISFSI will contain				
769	approximately 175,000 Curies once loaded.				
770					
771	IX.B Hazardous Waste Shipments Summary				
772					
773	• 6 tons of construction and demolition debris was shipped to the following facilities:				
774	 Resource Waste Services, Salem, NH 				
775	• 74 cubic yards of asbestos was shipped to the following facilities:				
776	 Minerva Landfill, Waynesburg, OH 				
777	 WMNH Tree, Rochester, NH 				
778	• 609,360 pounds of ferrous and non-ferrous scrap metal was shipped to the following				
779	facility for recycling:				
780	 Mattuchio Scrap Metal, Everett, MA 				
781					
782	X. Vermont Congressional Delegation				
783					
784	Representatives of Vermont's Congressional Delegation attended the August 23 NDCAP Federal				
785	Nuclear Waste Policy Committee meeting and discussed nuclear waste policy bills currently				
786	before Congress. Haley Pero from Senator Bernie Sanders' Office and Thea Wurzburg from				
787	Congressman Peter Welch's Office outlined the Nuclear Plant Decommissioning Act of 2020, a				
788	bill that Senator Sanders and Congressman Welch sponsored. If enacted, the bill would give				
789	states and local governments a meaningful role in the development of reactor decommissioning				
790	plans, as well as any post-shutdown reactor license transfer efforts. The bill would require				
791	consultation with host state governments and neighboring local governments for a				
792	decommissioning nuclear power plant. The Nuclear Regulatory Commission would be required				
793	to document its evaluation and dispositioning of comments received via this consultation				

794 process. Details of this bill are available at:

https://publicservice.vermont.gov/sites/dps/files/documents/NDA of 2020 OnePage Summar
 y.pdf.

797

798 While the bill was introduced, but not passed, in the 2020 Congressional Session, Senator 799 Sanders and Congressman Welch expect to reintroduce the bill in the current Congressional 800 Session. Both offices seek feedback regarding any changes to the 2020 bill language that should 801 be introduced. Ms. Pero and Ms. Wurzburg also took questions from the Committee and 802 members of the public attending the meeting regarding other potential Congressional actions. It is expected that several decommissioning and spent fuel disposition-related bills that were 803 804 introduced in the past several sessions will likely be reintroduced. Differences between the 805 Trump and Biden Administration's approaches to nuclear decommissioning and spent fuel 806 policies were highlighted. The Trump Administration focused on restarting Yucca Mountain as 807 the nation's permanent spent fuel repository. However, no significant funding was appropriated 808 for this effort. The Biden Administration has indicated that it will not pursue Yucca Mountain as 809 a repository. The US Department of Energy has been directed, under existing authority (that is 810 currently being challenged in Federal Court), to pursue one or more locations for an interim spent fuel storage facility. (Note that these are not the storage facility efforts currently being 811 pursued by Waste Control Specialists and Holtec International at locations in Texas and New 812 813 Mexico, respectively.) It was noted though that additional Biden Administration policies in these 814 areas are currently unknown. 815 816 Ms. Pero and Ms. Wurzburg agreed to follow-up with the Committee to track additional 817 decommissioning and spent fuel policy bills as they are introduced or reintroduced in the 818 current Congressional Session. They also agreed to provide further information to the 819 Committee about the Spent Nuclear Fuels Solutions Caucus recently formed by US Rep. Mike 820 Levin of California (whose district includes the currently decommissioning San Onofre Nuclear 821 Generating Station). Details on this caucus are available at: 822 https://www.sandiegouniontribune.com/news/politics/story/2021-07-22/nuclear-regulatory-823 caucus. 824 825 Additional information on the August 23 NDCAP Federal Nuclear Waste Policy Committee 826 meeting is available in the Committee's Summary Report available at:

827 <u>https://publicservice.vermont.gov/sites/dps/files/documents/Final_Nuclear_Waste_Committee</u>

- 828 <u>Update 2021 NDCAP Rev2.pdf</u>.
- 829
- 830 In one significant follow-up to the August 23 discussion, Ms. Pero alerted NDCAP to the US
- 831 Department of Energy's (DOE's) restart of a Consent-Based Siting process for locating a national
- consolidated interim spent fuel storage facility. Restart of this process began on November 30.
- 833 Details regarding DOE's Consent-Based Siting efforts are available at:
- 834 <u>https://www.energy.gov/ne/consent-based-siting</u>.
- 835

836	XI. Current NDCAP Committees
0.50	m. current nDem committees

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0	-	'

XI.A NDCAP Issues Committee

838 839

The Issues Committee, formed in 2015 and reconstituted in 2019, is intended to provide
recommendations for topics to be discussed at meetings of the Full Panel. The Issues Committee
did not meet during 2021. For 2021, the Issues Committee's function (selection of meeting

topics) was performed by the Full Panel at its regular meetings, with additional interactions

844 between the Panel Chair and the State Nuclear Engineer as needed.

845

846 XI.B NDCAP Federal Nuclear Waste Policy Committee

847

NDCAP created the Federal Nuclear Waste Policy Committee in December 2020 as a means for
the Panel to learn more about US national spent nuclear fuel storage and disposal issues. The
Committee is developing recommendations on US nuclear waste policies for the Full Panel to
consider as potential Advisory Opinions on these subjects. The Committee consists of the
following Panel members: Lissa Weinmann (Committee Chair), Corey Daniels, Maddy Arms,
Marvin Resnikoff and Emily Davis (NDCAP Chair). Other Panel members, including Bill Irwin,
Sara Coffey and Bob Leach, have attended several of the Committee's meetings held in 2021. The

855 Committee is administered by State Nuclear Engineer Tony Leshinskie.

856

857 The Committee met monthly throughout 2021, typically on the third Monday of the month. In

- 858 learning about current US national spent nuclear fuel storage and disposal policies, the
- 859 Committee has compiled a reading list of relevant materials. This list is available at the
- 860 Committee's webpage at:
- 861 <u>https://publicservice.vermont.gov/content/vt-ndcap-federal-nuclear-waste-policy</u>
- 862
- A summary of the topics considered and the current status of Committee recommendations forthe Full Panel to consider are available at:
- 865 <u>https://publicservice.vermont.gov/content/federal-nuclear-waste-policy-committee-rev-2-</u>
 866 <u>draft-report</u>
- 867
- The Committee has begun assessing the US Department of Energy's recently published Request for Information (RFI) regarding the temporary, consolidated storage of spent nuclear fuel using
- a Consent-Based approach. The Department of Energy's RFI is available at:
- 871 https://www.federalregister.gov/documents/2021/12/01/2021-25724/notice-of-request-for-
- 872 <u>information-rfi-on-using-a-consent-based-siting-process-to-identify-federal</u>
- 873
- 874 Further information on the US Department of Energy's effort to develop a Consent Based Siting
- 875 process is available at:
- 876 <u>https://www.energy.gov/ne/consent-based-siting</u>
- 877

- 878 The Committee expects to have at least one Advisory Opinion and comments on the US
- 879 Department of Energy Consent-Based Siting RFI available in early 2022.
- 880

881 **XII. Meeting Schedule and Priorities for 2022**

882

883 During the Panel's December 6 meeting, the Panel reached consensus on the following meeting 884 dates for 2022:

- 885 January 10: Special Meeting for approval of the 2021 Annual Report •
- February 28: Tentative meeting for discussing potential filings in response to the US 886 ٠ Department of Energy's Consent-Based Siting Request for Information 887
- 888 May 9: Regular meeting discussing and assessing the Decommissioning Project Annual 889 Status Reports (required by PUC Case 8880)
- 890 September 19: Regular meeting (agenda items to be determined) ٠
- 891 • December 12: Regular meeting (agenda items to be determined)
- 892

893 The Panel's initial focus for 2022 will be assessing any Advisory Opinions submitted for

894 consideration by the Federal Nuclear Waste Policy Committee. Any proposed Advisory Opinions

will likely focus on the US Department of Energy's renewed efforts in developing a Consent-895

Based Siting Process for national spent nuclear fuel repositories. The tentative February 28 896

- 897 meeting date was selected with the US Department of Energy's March 4, 2022 deadline for comments in mind. 898
- 899

900 The Panel will also focus on improving its public outreach. As noted in the September 20 and

- December 6 meeting summaries (see Section III), the Panel intends to use parts of its new 901
- 902 \$35,000 annual budget to revamp its website, improve its webcast / hybrid meeting capabilities,
- 903 and identify additional options for public outreach.
- 904

905 **XIII. Panel Composition and Duties Change Recommendations**

906

907 As part of the Panel Duties outlined in Part II of the Panel Charter (see Section II of this Report),

908 the Panel "shall assess further changes to the Panel's membership or duties as appropriate."

909 With the recent changes in Panel composition and duties approved by the 2021 Legislature in

910 Act 54, the Panel currently has no additional change recommendations for its composition or

- 911 duties.
- 912