12-707-cv (L) Entergy Nuclear Vermont Yankee, LLC v. Shumlin

L 2 3	UNITED STATES COURT OF APPEALS FOR THE SECOND CIRCUIT
1 5	August Term, 2012
	(Argued: January 14, 2013 Decided: August 14, 2013)
	Docket Nos. 12-707-cv (L) 12-791-cv (XAP)
	X
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	ENTERGY NUCLEAR VERMONT YANKEE, LLC, ENTERGY NUCLEAR OPERATIONS, INC.,
	Plaintiffs-Appellees-Cross-Appellants,
	v.
	PETER SHUMLIN, in his official capacity as Governor of the State of Vermont, WILLIAM SORRELL, in his official capacity as Attorney General of the State of Vermont, JAMES VOLZ, in his official capacity as a member of the Vermont Public Service Board, JOHN BURKE, in his official capacity as a member of the Vermont Public Service Board, DAVID COEN, in his official capacity as a member of the Vermont Public Service Board, DAVID COEN, in his official capacity as a member of the Vermont Public Service Board, DAVID COEN, in his official capacity as a member of the Vermont Public Service Board, DAVID COEN, in his official capacity as a member of the Vermont Public Service Board, DAVID COEN, in his official capacity as a member of the Vermont Public Service Board, DAVID COEN, in his official capacity as a member of the Vermont Public Service Board, DAVID COEN, in his official capacity as a member of the Vermont Public Service Board, DAVID COEN, in his official capacity as a member of the Vermont Public Service Board, DAVID COEN, in his official capacity as a member of the Vermont Public Service Board, DAVID COEN, in his official capacity as a member of the Vermont Public Service Board,
	Defendants-Appellants-Cross-Appellees.
	X
	Before: CARNEY and DRONEY, <i>Circuit Judges</i> , and GARDEPHE, <i>District Judge</i> .*
	Owners of nuclear power plant brought action against officials of the State of Vermont, seeking declaratory judgment and permanent injunction that three Vermont statutes are preempted by the Atomic Energy Act, and that Vermont's efforts to require a below-market power purchase agreement is preempted by the Federal Power Act and violates the dormant Commerce Clause. Following a bench trial, the United States District Court for the District of Vermont (Murtha, <i>J.</i>) ruled in plaintiffs' favor on Atomic Energy Act preemption claim and dormant Commerce Clause claim, and found that the Federal Power Act preemption claim was not ripe. We AFFIRM the district court as to the Atomic Energy Act and Federal Power Act preemption claims, and REVERSE the district court as to the dormant Commerce Clause claim.
	Judge CARNEY concurs in a separate opinion.

^{*} The Honorable Paul G. Gardephe, United States District Judge for the Southern District of New York, sitting by designation.

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Eric T. Schneiderman, Attorney General of the State of New York, Barbara D. Underwood, Solicitor General, Monica Wagner, Deputy Bureau Chief, Environmental Protection Bureau, Denise A. Hartman and Andrew B. Ayers, Assistant Solicitors General of Counsel, Albany, NY,

for amici curiae States of New York, Connecticut, Iowa, Maryland, Massachusetts, Mississippi, Missouri, New Hampshire, and Utah in support of Defendants-Appellants-Cross-Appellees.

7 DRONEY, *Circuit Judge*:

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9 Entergy Nuclear Vermont Yankee, LLC, and Entergy Nuclear Operations, Inc., (collectively, "Entergy")¹ own and operate the Vermont Yankee Nuclear Power Station 10 ("Vermont Yankee"), a nuclear power plant in Vernon, Vermont. Entergy brought suit in the 11 United States District Court for the District of Vermont against the Governor and Attorney 12 General of the State of Vermont and the members of the Vermont Public Service Board in their 13 official capacities (collectively, "Vermont"), and asserted three claims. Count One alleged that 14 three recently enacted Vermont statutes governing Vermont Yankee - Acts 74, 160, and 189 -15 concerned issues of radiological safety and thus were preempted by the federal Atomic Energy 16 Act. Count Two alleged that Vermont had attempted to condition its grant of permission to 17 18 operate Vermont Yankee on the execution of a power purchase agreement that favored Vermont retail consumers, and that this attempt was preempted by the Federal Power Act. Count Three 19 20 asserted that these same actions with respect to the power purchase agreement also violated the dormant Commerce Clause of the United States Constitution. Following a bench trial, the district 21 22 court (Murtha, J.) found in favor of Entergy as to Count One with respect to Acts 74 and 160 and found the challenge to Act 189 to be moot.² The district court also found in favor of Entergy as 23 24 to Count Three. Lastly, the district court found Count Two to be premature. We affirm the district court as to Counts One and Two, and reverse the district court as to Count Three. 25

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BACKGROUND

We summarize here those findings of fact relevant to this appeal that were made by the 29 district court following the bench trial. 30

¹ Entergy Nuclear Vermont Yankee, LLC, and Entergy Nuclear Operations, Inc., are co-holders of the Nuclear Regulatory Commission Facility Operating License No. DPR-28 and Renewed Facility Operating License No. DPR-28. They are also indirect subsidiaries of parent Entergy Corporation, a Delaware corporation headquartered in New Orleans, Louisiana, that owns and operates twelve nuclear reactors in ten locations in the United States.

² Entergy does not appeal the district court's determination as to Act 189.

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I. The History of Vermont Yankee

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In 1972, Vermont Yankee opened and began operating under the ownership and 4 management of the Vermont Yankee Nuclear Power Corporation (VYNPC), a joint venture of 5 eight New England retail electric utilities. Among the eight members of the joint venture were 6 two Vermont electric companies (Central Vermont Public Service and Green Mountain Power), 7 which owned a collective fifty-five percent share of Vermont Yankee. Vermont Yankee had been 8 granted a forty-year Facility Operating License by the Atomic Energy Commission, the federal 9 agency that preceded the Nuclear Regulatory Commission (NRC). The forty-year license was to 10 expire on March 21, 2012. 11

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In 1999, VYNPC sought to sell Vermont Yankee. After an initial bid by one firm was 13 rejected by the Vermont Public Service Board (the "Board"),³ Entergy submitted a bid for 14 Vermont Yankee in the summer of 2001 and sought a "certificate of public good" (CPG), a 15 license from the Board to continue to operate Vermont Yankee under Vermont state law.⁴ As it 16 was negotiating with the Board, Entergy entered into a memorandum of understanding (MOU) 17 (the "2002 MOU") with the Vermont Department of Public Service (the "Department").⁵ The 18 2002 MOU incorporated a power purchase agreement (PPA) Entergy executed in 2001 (the 19 20 "2001 PPA") that promised Vermont retail electric utilities favorable pricing terms for the purchase of power from Vermont Yankee until 2012.⁶ Entergy maintains it agreed to the 2001 21 PPA because it feared that the Department would not otherwise recommend a CPG for Vermont 22 Yankee. Entergy also agreed in the 2002 MOU to "waive any claim . . . that federal law preempts 23 24 the jurisdiction of the Board."

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³ The Board is a three-member quasi-judicial state agency that regulates a variety of public utilities in Vermont, including power facilities. It supervises the utilities' rates, service quality, and overall financial management. *See* Vt. Stat. Ann. tit. 30, §§ 9, 203.

 $^{^4}$ The criteria the Board must consider in deciding whether to issue a CPG relate to such issues as power generation stability, economic impact on the State, aesthetic and environmental issues, and likelihood of compliance with federal regulations. *See* Vt. Stat. Ann. tit. 30, § 248(b).

⁵ The Department oversees laws relating to public service corporations and represents the State of Vermont in the procurement of energy in hearings before the Board in an advocacy capacity. *See* Vt. Stat. Ann. tit. 30, §§ 1, 2, 203. ⁶ Although VYNPC included retail utilities from outside Vermont, by 2009, Central Vermont Public Service and

⁶ Although VYNPC included retail utilities from outside Vermont, by 2009, Central Vermont Public Service and Green Mountain Power had accumulated a combined stake of 92.5% of VYNPC.

1 On June 13, 2002, the Board approved the sale of Vermont Yankee to Entergy and issued a new CPG. In its Decision and Final Order, the Board stated that the sale of Vermont Yankee to 2 3 Entergy would "promote the general good" in part because, "under most reasonably foreseeable scenarios, the transactions are highly likely to produce an economic benefit for Vermont 4 ratepayers." In re Vt. Yankee Nuclear Power Corp., Docket No. 6545, 2002 WL 1997942, at *1 5 (Vt. Pub. Serv. Bd. June 13, 2002). The Order specifically endorsed the 2001 PPA because it 6 7 allowed Vermont retail utilities to purchase power from Vermont Yankee at prices that "are substantially below the 'currently committed' operating costs of Vermont Yankee over the 8 9 remaining term of its license." Id. The Order noted that the 2001 PPA also imposed a "cap on the charges for Vermont Yankee power." Id. 10

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In 2002, Entergy obtained from the Federal Energy Regulatory Commission (FERC) authorization to sell power into the interstate market under a market-based tariff, which remains in effect. The authorization permits Entergy to sell power wholesale through ISO-New England ("ISO-NE"), a nonprofit independent system operator under FERC regulation that administers New England's energy markets. ISO-NE's stated responsibilities are to maintain "reliable power system operations," ensure "efficient and competitive markets," and to "administer [the] regional transmission tariff, including comprehensive regional system planning."

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20 II. The Recent Vermont Legislation Concerning Vermont Yankee

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- A. Act 74: The Vermont Legislation Concerning Increased Nuclear Waste Storage by Vermont Yankee
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In 2003, Entergy petitioned the Board to obtain a twenty-percent "uprate," which would allow an increase in Vermont Yankee's power output and also result in a concomitant increase in nuclear waste. *See Entergy Nuclear Vt. Yankee, LLC v. United States*, 95 Fed. Cl. 160, 173 (2010), *aff'd in part, rev'd in part sub nom., Vt. Yankee Nuclear Power Corp. v. Entergy Nuclear Vt. Yankee, LLC*, 683 F.3d 1330 (Fed. Cir. 2012). Under a statute enacted in 1977 – five years after Vermont Yankee first began operating – the construction of new nuclear waste storage facilities in Vermont was prohibited unless the Vermont Legislature passed a bill or joint resolution finding that the facilities promoted the "general good of the state." Vt. Stat. Ann. tit.
10, § 6501(a). However, two years later, in 1979, the Vermont Legislature enacted an "exemption" provision stating that the requirements imposed by § 6501 do "not apply to any temporary storage by Vermont Yankee Nuclear Power Corporation of spent nuclear fuel elements or other radioactive waste at its present site." *Id.* § 6505.

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7 At the same time that Entergy sought the uprate, it also entered into a new MOU (the "2003 MOU") with the Department under which Entergy would pay \$6 million into new "State 8 Benefits Funds," namely the "Environmental Benefit Fund," the "Low Income Benefit Fund," 9 and the "Entergy Fund for Economic Benefit." See Entergy Nuclear, 95 Fed. Cl. at 173-74; In re 10 Entergy Nuclear Vt. Yankee, LLC, 232 P.U.R.4th 219, 223 (Vt. Pub. Serv. Bd. Mar. 15, 2004). 11 The Board then issued a CPG approving the uprate on March 24, 2004. Entergy Nuclear, 95 Fed. 12 Cl. at 188. However, Entergy also needed to obtain approval to construct the new dry cask spent 13 nuclear fuel storage facility, even though it had recently received approval for it from the NRC.⁷ 14 Entergy then petitioned the Board, requesting permission to expand its spent fuel storage facility. 15 16 Entergy maintained that the exemption provision of section 6505 applied to the Vermont Yankee site in general, as opposed to a particular owner of the plant. The Board sought guidance from 17 18 the Vermont Senate, which, in turn, obtained a letter from the Office of the Vermont Attorney General opining that section 6505 was owner-specific. See Letter from Michael McShane, Asst. 19 20 Att'y Gen., to Sen. Peter Welch, Pres. Pro Tempore of the Vt. Senate, 2004 WL 1737093, at *1-2 (Apr. 30, 2004). Since Vermont Yankee had changed ownership from VYNPC to Entergy, the 21 22 letter provided that Entergy would need the approval of the Vermont Legislature to add spent fuel storage capacity. Id. at *4. 23

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In response, Entergy presented proposed legislation clarifying that section 6505 was sitespecific, rather than owner-specific. This proposal failed to obtain support from the Vermont

⁷ Spent fuel rods are typically stored in deep pools of treated water at the reactor site for a period of at least five years. Once the spent fuel rods' temperature and radiation emissions have sufficiently diminished, they can be moved into dry casks – consisting of sealed metal cylinders on a concrete pad – for long-term storage. Dry casks are monitored by the NRC for public health and safety. *See* 10 C.F.R. § 961.11. at App. E(B)(3); U.S. Nuclear Regulatory Comm'n, Backgrounder on Dry Cask Storage of Spent Nuclear Fuel (Feb. 28, 2013), *available at* http://www.nrc.gov/reading-rm/doc-collections/fact-sheets/dry-cask-storage.html.

Legislature, however. The Vermont Legislature then began hearings on the bill that would
 eventually become Act 74.

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Act 74, which was enacted on June 21, 2005, had two principal effects. First, Entergy 4 would only need to seek a CPG from the Board before constructing storage facilities for new 5 spent nuclear fuel, rather than the Vermont Legislature as had been required by section 6501(a). 6 7 However, this CPG would remain in effect only until March 21, 2012. The second effect of Act 74 was that after March 21, 2012, the storage of any new spent nuclear fuel in Vermont would 8 require an affirmative vote by the Vermont Legislature. If no such affirmative vote occurred, 9 storage of nuclear waste generated from operations after March 21, 2012, would not be 10 permitted. Thus, Vermont Yankee would have to shut down. 11

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The post-March 21, 2012, shift of responsibility for approving the storage of spent nuclear fuel generated by Vermont Yankee from the Board to the Vermont Legislature had important ramifications. Decisions of the Board may be appealed to the Vermont Supreme Court. Vt. Stat. Ann. tit. 30, § 12. No such review mechanism would exist for the Vermont Legislature's decision not to approve additional spent nuclear fuel storage space.

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Act 74 added three new sections to title 10 of the Vermont Statutes: sections 6521, 6522, and 6523. Section 6521 outlines the Vermont Legislature's findings, including recognition of the need to develop renewable and environmentally sustainable energy sources in Vermont. Vt. Stat. Ann. tit. 10, § 6521. To support this objective, section 6521 references the state's creation of an "energy efficiency fund . . . to support cost-effective investments in end-use energy efficiency resources," and a statewide energy purchasing pool with a "related program to accelerate investments in new renewable and combined-heat and power projects." *Id*.

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Section 6522 restates the requirement that the owners of Vermont Yankee cannot construct new spent fuel storage facilities for the period up to March 21, 2012, unless they obtain a CPG from the Board. *Id.* § 6522(a). Section 6522 also mandates that the Board find that the owners of Vermont Yankee have adequate resources to manage spent fuel and decommission the plant, if necessary, and a plan "to remove all spent fuel from Vermont to a federally certified

long-term storage facility in a timely manner," and that the owners comply with any existing 1 MOUs with the state. Id. § 6522(b). Lastly, section 6522 states that any CPG issued by the Board 2 3 pursuant to Act 74 will apply to spent nuclear fuel generated by Vermont Yankee only until March 21, 2012, which is the "end of the current operating license." Id. § 6522(c)(2). This 4 provision states that the owners have no "expectation or entitlement to continued operation of 5 Vermont Yankee following the expiration of its current operating license on March 21, 2012." 6 Id. § 6522(c)(5). Section 6522(c)(4) provides that Vermont Yankee cannot store spent nuclear 7 fuel generated after March 21, 2012, on site, unless the Vermont Legislature enacts legislation 8 granting such permission. In the absence of any other storage options, this would effectively shut 9 down Vermont Yankee. 10

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Section 6523⁸ established a "Clean Energy Development Fund" (the "Fund"), which 12 Entergy agreed to when it received permission for its uprate. See Vt. Stat. Ann. tit. 10, § 13 6523(a).⁹ Under section 6523(a), the money Entergy had promised to pay into the State Benefits 14 Funds under the 2003 MOU would instead be paid into the Fund. The Fund's purpose is to 15 16 "promote the development and deployment of cost-effective and environmentally sustainable electric power and thermal energy or geothermal resources for the long-term benefit of Vermont 17 18 consumers." Id. § 6523(c). Section 6523(d) outlines various types of renewable energy investments that the Fund can undertake, such as energy projects on farms, biofuel production, 19 20 and thermal energy facility development. Id. § 6523(d). Entergy estimated that its total obligation under section 6523 to the Fund would be \$2.5 million per year, or about \$15 million over the 21 period from 2005 to 2012.¹⁰ 22

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Act 74 also explicitly incorporates the MOUs, including the 2002 and 2003 MOUs, as well as a new MOU executed on June 21, 2005 (the "2005 MOU"). Vt. Stat. Ann. tit. 10, § 6522(b)(4).¹¹ The 2005 MOU mandated, *inter alia*, that Entergy locate the spent nuclear fuel

⁸ Section 6523 was subsequently recodified to title 30 of the Vermont Statutes relating to the powers of the Board. *See* Vt. Stat. Ann. tit. 30, § 8015.

⁹ Entergy is not challenging section 6523 in the instant appeal.

¹⁰ In its subsequent Order, the Board confirmed that Entergy's total obligation under the 2005 MOU to make payments into the Fund would be \$15,625,000 from 2005 to 2012, made in quarterly payments of \$625,000. *In re Entergy Nuclear Vt. Yankee, LLC,* 249 P.U.R.4th 1, 2006 WL 1418626, at *21 (Vt. Pub. Serv. Bd. Apr. 26, 2006).

¹¹ The 2005 MOU was not included in the record on appeal, but was introduced below as Plaintiffs' Trial Exhibit 465 (Document 46-19).

storage pad at least one hundred feet from a floodplain, space the storage casks to permit access 1 to individual casks "to the greatest extent possible," configure the spent-fuel pool so that high-2 3 decay heat assemblies are surrounded by low-decay heat assemblies, perform temperature monitoring and monthly manual radiation surveillance of the storage casks and report the results 4 to the Department, not store waste generated outside Vermont on site, remove "high level" spent 5 nuclear fuel from Vermont "as quickly as possible," and conduct a study addressing the stability 6 7 of the proposed new spent nuclear fuel storage facility based upon a stated concern that an adjacent river bank might erode and collapse. See 2005 MOU at 1-2; see also Entergy Nuclear 8 Vt. Yankee, 95 Fed. Cl. at 179; In re Entergy Nuclear Vt. Yankee, LLC, 249 P.U.R.4th 1, 2006 9 WL 1418626, at *48 (Vt. Pub. Serv. Bd. Apr. 26, 2006).¹² This "flood analysis" was more 10 extensive than that required by the NRC's licensing process for the same spent nuclear fuel 11 storage facility and, although Entergy believed that the Board's concerns regarding the 12 probability of a collapse were "not credible," Entergy agreed to undertake the study. In re 13 Entergy Nuclear Vt. Yankee, LLC, 2006 WL 1418626, at *28, *51. As with the earlier MOUs, 14 Entergy agreed to waive any federal preemption claim concerning the 2005 MOU. 2005 MOU at 15 16 3.

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18 On June 22, 2005, the day after Act 74 went into effect, Entergy filed a petition with the Board seeking to construct a dry fuel storage facility at Vermont Yankee, which, as mentioned, 19 20 the NRC had already pre-licensed. In re Entergy Nuclear Vt. Yankee, LLC, 2006 WL 1418626, at *6. In the subsequent eight months, the Board held a series of public meetings and conducted 21 22 technical hearings to evaluate the petition. Id. at *6-7. The Board also received public comments, of which the "vast majority . . . highlighted public concerns about the public uprate that [the 23 24 Board has] previously approved, and the desire for an independent safety assessment, general nuclear safety concerns, and Vermont Yankee as a terrorist target." Id. at *9. In addition, most of 25 those who attended the Board's public meetings "opposed the proposed dry fuel storage facility" 26 for reasons relating to the facility's "vulnerability to natural or manmade disasters," the adequacy 27 of dry fuel storage technology, and the potential for environmental harm. Id. at *9-10. On April 28 29 26, 2006, the Board issued an Order granting the petition until 2012, and issuing a new CPG for

¹² The Board imposed the flood analysis requirement in part in response to the U.S. Department of Energy's "failure to remove the spent nuclear fuel [generated by Vermont Yankee] in a timely fashion." *Entergy Nuclear Vt. Yankee*, 95 Fed. Cl. at 179-80.

the construction of the storage facility. Id. at *1. The Board stated that the "most significant 1 factor" in its decision was the "economic benefit of the facility." Id. at *5. Noting that Vermont 2 3 Yankee "now provides approximately one-third of the power consumed by the state of Vermont,"¹³ an early shutdown of the plant due to the absence of spent nuclear fuel storage 4 facilities would "impose substantial costs on Vermont ratepayers." Id. "Without the favorably-5 priced power from Vermont Yankee, Vermont utilities would need to purchase replacement 6 7 power from sources that are presently expected to be more expensive over this period. Approval of the dry fuel storage facility provides a direct economic benefit to the state by preserving the 8 power." Id. The Board estimated the likely savings to Vermont ratepayers arising from the 2001 9 PPA, under which Vermont Yankee power "has been sold to Vermont utilities at prices 10 consistently below the spot-market price of energy in New England," at "approximately \$61 11 million over the period from 2008 to 2012." Id. at *21. 12

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B. Act 160: The Vermont Legislation Requiring State Legislative Approval To Operate Vermont Yankee After 2012

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On January 25, 2006, Entergy applied to the NRC for a renewal license to operate Vermont Yankee through March 21, 2032. One week later, on February 1, 2006, the Vermont Legislature began considering the bill that would eventually become Act 160. Act 160 was passed on May 18, 2006, and provides that "a nuclear energy generating plant may be operated in Vermont only with the explicit approval of the General Assembly." Act 160, § 1(a).¹⁴

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Act 160 provides that, in deciding whether to approve operation of a nuclear power plant, the Vermont Legislature should consider "the state's need for power, the economics and environmental impacts of long-term storage of nuclear waste, and choice of power sources among various alternatives." *Id.* The preamble states that Act 160's general purpose is to provide the Vermont Legislature with the authority to determine whether to issue a new CPG for Vermont Yankee after March 21, 2012. *Id.* § 1(c). Act 160 would also help foster a "larger

¹³ This, in turn, represents fifty-five percent of Vermont Yankee's total power output. The remainder is sold on the wholesale market to retail utilities in other states. *See In re Proposed Sale of Vt. Yankee Nuclear Power Station*, 829 A.2d 1284, 1285 (Vt. 2003); *In re Entergy Nuclear Vt. Yankee, LLC*, 2006 WL 1418626, at *12.

¹⁴ The preamble to Act 160 was not published in the Vermont Statutes, but is contained in West's historical notes to Chapter 157 of title 10, Vermont Statutes Annotated (West 2011).

societal discussion of broader economic and environmental issues relating to the operation of a nuclear facility in the state, including an assessment of the potential need for the operation of the facility and its economic benefits, risks, and costs," and of alternative methods of power generation as well. *Id.* § 1(d). Act 160 also includes a stated purpose of ensuring that the evaluation of new CPGs be conducted under new cost-benefit assumptions and analyses, rather than those that supported the previous CPG. *Id.* § 1(e).

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Act 160 adds three new sections to title 30 of the Vermont Statutes: sections 248(e)(2), 8 248(m), and 254. Section 248(e)(2) requires that the Vermont Legislature approve an extension 9 of the Vermont Yankee operating lease before the Board issues a new CPG. See Vt. Stat. Ann. 10 tit. 30, § 248(e)(2). Legislative approval for continued operation of Vermont Yankee is no longer 11 limited to issues concerning spent fuel storage, as under section 6522(c)(4) of Act 74; rather, Act 12 160 requires that the Vermont Legislature approve all aspects of the continued operation of 13 Vermont Yankee. Section 248(m) requires that the Board "evaluate the application [for a new 14 CPG] under current assumptions and analyses" and not apply "an extension of the cost benefit 15 assumptions and analyses forming the basis of the previous certificate of public good for the 16 operation of the facility." Id. § 248(m). Lastly, section 254 requires that the owners of Vermont 17 Yankee apply for a new CPG at least four years prior to the expiration of the current CPG, and 18 that the Board inform the Vermont Legislature of the receipt of any new CPG application. Id. § 19 20 254(a)(1)-(2). When any new CPG application is submitted, the Department is directed to engage in fact-finding with three stated objectives in mind: 21

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 (A) to facilitate public discussion of long-term economic and environmental issues relating to the operation of any nuclear facility in the state;

- (B) to identify and assess the potential need for the operation of the facility and its long-term
 economic and environmental benefits, risks, and costs; and
 - (C) to assess all practical alternatives to those set forth in the applicant's petition that may be more cost-effective or that otherwise may better promote the general welfare.
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30 *Id.* § 254(b)(1).

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Section 254 also requires that the Department collect information relating to Entergy's 1 2 "funding plans for guardianship of nuclear waste after licensure but before removal of nuclear 3 waste from the site," plant closure procedures, and funding for emergency management systems. One subsection of section 254 requires the Department to "identify, collect information on, and 4 provide analysis of long-term environmental, economic, and public health issues, including 5 issues relating to dry cask storage of nuclear waste and decommissioning options." Id. § 6 7 254(b)(2)(B). The Department is further directed to report its findings to the Board and to the Vermont Legislature. Id. § 254(a)(2)-(3). The Board, in turn, is directed to consider the findings 8 9 of the Department in assessing an application for a new CPG. Id. § 254(c).

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C. Act 189: The Vermont Legislation Requiring State Inspections of Vermont Yankee

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On June 5, 2008, then-Vermont Governor Jim Douglas signed into law Act 189, entitled 14 "An Act Relating to a Comprehensive Vertical Audit and Reliability Assessment of the Vermont 15 Yankee Nuclear Facility." The purpose of Act 189 was to assist the Vermont Legislature in 16 making its determination as to whether Vermont Yankee should be permitted to operate past 17 2012, and to reconfirm the "obligation and authority of the general assembly to examine the 18 reliability of the nuclear power station of Entergy Nuclear Vermont Yankee." Act 189, § 1(a).¹⁵ 19 Act 189 further provides that, because Entergy was applying to extend the life of Vermont 20 Yankee beyond its original forty-year design, the Vermont Legislature needed to assess any 21 22 "reliability issues associated with operating [Entergy] for an additional 20 years after its scheduled closure in 2012." Id. § 1(b). Act 189's text also addresses concerns relating to the 23 24 operating reliability of Vermont Yankee and issues relating to its performance that might arise from expanding the plant. Id. § 2. 25

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Act 189 calls for Department inspections of Vermont Yankee's operations, such as its electrical, emergency, and mechanical systems. *Id.* §§ 3(a), 5(a). The Act also sets out documentation requirements and inquiries that must be undertaken by the Department relating to

¹⁵ Though the original bill called for Act 189 to be codified as an addition to section 254 of title 30 of the Vermont Statutes, the final version of Act 189 was not codified. *Entergy Nuclear Vt. Yankee, LLC v. Shumlin*, 838 F. Supp. 2d 183, 213 (D. Vt. 2012).

the installation, maintenance, and inspection of safety systems in Vermont Yankee. *Id.* § 4. To maximize the public visibility of these inspections of Vermont Yankee, Act 189 creates an oversight panel consisting of experts in nuclear power appointed by the governor and the Vermont Legislature. *Id.* § 6. The panel's findings and evaluation of Vermont Yankee were to be reported to the Vermont Legislature, which would use this information to determine whether to extend the operating license for the plant beyond March 21, 2012. *Id.* § 6(d).

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D. S.289: The Vermont Senate Bill That Would Have Permitted the Continued Operation of Vermont Yankee Beyond 2012, as Required by Act 160

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On January 7, 2010, Entergy disclosed a leak of tritium, a decay product of nuclear energy, emanating from Vermont Yankee. Entergy stopped the leak and remediated its impact on the surrounding soil, and after a subsequent investigation, the NRC concluded that the "public's health and safety and the off-site environment were not adversely affected." A report by an independent consulting group retained by the State of Vermont concluded, on April 30, 2010, that the leak did not affect the reliability of Vermont Yankee.

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At the time of the leak, the Vermont Senate was considering S.289, which was originally titled, "An Act Relating to Approval for Continued Operation of the Vermont Yankee Nuclear Power Station." S.289, if passed, would have authorized the operation of Vermont Yankee for an additional twenty years past March 21, 2012, as required by Act 160. Although the NRC granted a twenty-year renewal for the operation of Vermont Yankee on March 21, 2011, S.289 failed to pass in the Vermont Senate. As a result, Vermont Yankee has not been granted permission by the Vermont Legislature to operate past March 21, 2012.

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Collectively, under Acts 74 and 160, and due to the failure to pass S.289, the operation of Vermont Yankee after March 21, 2012, depends upon the Vermont Legislature approving the power plant's continued operation. As the Vermont Legislature has failed to act, Vermont Yankee's CPG expired on March 21, 2012, and the plant would have been forced to shut down
 absent the district court's decision below.

3

In making its determination whether to permit further operation, the Vermont Legislature 4 is required by Acts 74 and 160 to consider the impact of the local storage of spent nuclear fuel on 5 the local economy and environment, and on the diversity of power sources available to Vermont 6 7 retail utilities. Under the two Acts, the Vermont Legislature must also consider the following in determining whether to allow Vermont Yankee to continue operating: (1) the "public health" 8 implications related to dry cask storage of nuclear waste and decommissioning of the plant; (2) 9 Entergy's resources for emergency management systems, management of spent nuclear fuel 10 storage, and decommissioning of the plant; (3) Entergy's planning for the removal of nuclear 11 waste; and (4) Entergy's long-term plan for the closure of Vermont Yankee. 12

13

In addition, Acts 74 and 160 require that Entergy comply with the 2002, 2003, and 2005 14 MOUs. Those MOUs impose, *inter alia*, the following additional requirements on Entergy, apart 15 16 from making payments into a fund used to promote alternative energy sources: (1) analysis of the operational safety of Vermont Yankee in the event of flooding in excess of federal licensing 17 requirements; (2) compliance with specific requirements for the construction and monitoring of 18 spent nuclear fuel casks; (3) monitoring of the temperature and radiation of the storage casks and 19 20 regular reporting to the Department; (4) no storage of any nuclear waste generated outside of Vermont; (5) removal of the nuclear waste generated by Vermont Yankee from the state as 21 22 quickly as possible; and (6) waiver of any federal preemption challenge to the Board's authority to regulate the plant. Lastly, the MOUs require that Entergy comply with the 2001 PPA under 23 24 which Vermont retail utilities must receive favorable pricing terms for the power produced by Vermont Yankee relative to retail utilities in other states. 25

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III. Proceedings Before the District Court

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On April 18, 2011, Entergy brought suit in the United States District Court for the District of Vermont against the Governor and Attorney General of the State of Vermont and the members of the Vermont Public Service Board. The complaint sets forth three claims: Count One: Entergy sought a permanent injunction and declaration that Act 74, Act 160,
 and Act 189 are invalid under the Supremacy Clause of the United States Constitution
 because they are preempted by the Atomic Energy Act. *Entergy Nuclear Vt. Yankee, LLC v. Shumlin*, 838 F. Supp. 2d 183, 188-89 (D. Vt. 2012).

Count Two: Entergy sought a permanent injunction and declaration that the Federal Power
 Act preempts the State of Vermont from conditioning Vermont Yankee's continued
 operation on the existence of a power purchase agreement between Vermont Yankee and
 Vermont's retail utilities, because FERC has exclusive jurisdiction over the regulation of
 power transmission and sale. *Id.* at 189.

Count Three: Entergy sought a permanent injunction and declaration that Vermont may not condition continued operation of Vermont Yankee on the existence of a power purchase agreement, because doing so places substantial burdens on interstate commerce, in violation of the dormant Commerce Clause. *Id.*

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On January 19, 2012, the district court issued its opinion following a bench trial. The 15 court first concluded that the Atomic Energy Act facially preempts Act 160, which, through the 16 17 operation of section 248(e)(2), effectively allows the Vermont Legislature to "deny a pending renewal petition by taking no action on the petition, for any reason, procedural or substantive, 18 stated or unstated, permissible or impermissible under federal law." Entergy Nuclear, 838 F. 19 Supp. 2d at 227. The court also pointed to section 254(b)(2)(B), which calls upon the Department 20 21 to support the Vermont Legislature's fact-finding by conducting studies on, inter alia, "long-22 term environmental, economic, and public health issues, including issues relating to dry cask storage of nuclear waste and decommissioning options." Id. at 227-28. In light of the statute's 23 required consideration of "public health issues," which are not defined elsewhere in the statute, 24 the court then examined the actual legislative purpose leading to the passage of Act 160. Id. 25 26 Finding the stated legislative policy and purposes offered by Vermont for Act 160 to be unpersuasive, the court conducted an extensive review of the act's legislative history, including 27 statements made by legislators and state regulators during both committee hearings and on the 28 floor. See id. at 229-31. On the basis of this review, the court held that there was "overwhelming 29 30 evidence in the legislative record that Act 160 was grounded in radiological safety concerns and the concomitant desire to empower the legislature to act on those concerns in deciding the 31

question of Vermont Yankee's continued operation." *Id.* at 230. The court concluded that Act
 160 was thus preempted on its face by the Atomic Energy Act under the standards articulated by
 the Supreme Court in *Pacific Gas & Electric Co. v. State Energy Resources Conservation & Development Commission*, 461 U.S. 190 (1983) ("*Pacific Gas*").

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6 The district court performed the same analysis of Act 74. The court reasoned that by not permitting Entergy to store spent nuclear fuel generated after March 21, 2012, in Vermont, 7 "absent affirmative action by the General Assembly," section 6522(c)(4) effectively "permits the 8 General Assembly to fail to act on a pending petition to store spent fuel for radiological safety 9 reasons, in a manner that evades review." Entergy Nuclear, 838 F. Supp. 2d at 231. The court 10 conducted another extensive analysis of the legislative history behind Act 74, and determined 11 that Act 74 was "enacted with radiological safety purposes in mind," and that by "giving the 12 General Assembly the unreviewable power to prohibit storage of fuel, and therefore to prohibit 13 continued operation for preempted radiological safety reasons," Act 74 was facially preempted 14 under the Atomic Energy Act. Id. at 232-33. 15

16

As to Entergy's preemption challenge to the PPA under the Federal Power Act, the 17 district court considered the scope of FERC authority under the Act and the "filed-rate doctrine," 18 which holds that "state courts and regulatory agencies are preempted by federal law from 19 20 requiring the payment of rates other than the federal filed rate." Id. at 233-34. The district court noted that Vermont Yankee has been operating under a market-based tariff filed with FERC, 21 which only requires that the seller of power "enter into *freely negotiated* contracts with 22 purchasers," as opposed to setting a prescribed rate. Id. at 234 (quoting Morgan Stanley Capital 23 24 Grp., Inc. v. Pub. Util. Dist. No. 1 of Snohomish Cnty., 554 U.S. 527, 537 (2008) (emphasis in *Entergy Nuclear*) (internal quotation marks omitted)). The court then held that even if Entergy 25 were to be forced to enter into a new PPA in violation of the market-based tariff, its recourse 26 would be to have the agreement reviewed by FERC. Id. at 235. However, the court concluded 27 28 that "it is not clear what preemptive effect the [Federal Power Act] has to prevent [Vermont] from refusing to consider continued operation without such an agreement," as there would be no 29 30 such agreement to review. Id. The court thus declined to enjoin the defendants on the basis of Entergy's Federal Power Act claim. 31

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2 Lastly, the district court found merit in Entergy's claim that Vermont had conditioned 3 "approval of a CPG for continued operation on the existence of a power purchase agreement at below-wholesale market rates" in violation of the dormant Commerce Clause. Id. at 235. The 4 court concluded that an injunction was an appropriate remedy in this case, even though no new 5 PPA past March 21, 2012, had yet been issued, because there was "evidence of intent to 6 7 condition continued operation on the demonstration of some marked 'economic benefit,' . . . in the form of below-wholesale-market long-term power purchase agreements for Vermont 8 utilities." Id. at 236. The court made this finding by examining the materials submitted and 9 testimony of the representatives of the Department in proceedings before the Board, as well as 10 the statements of state legislators, to find impermissible intent on the part of the defendants. Id. 11 at 236-39. On this basis, the court issued an injunction "enjoin[ing] Defendants from 12 conditioning Vermont Yankee's continued operation on the existence of a below-market PPA 13 with Vermont utilities." Id. at 239. 14

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16 In sum, the district court permanently enjoined Vermont from taking any action to shut down Vermont Yankee after March 21, 2012, pursuant to Act 160 or pursuant to section 17 6522(c)(4) of title 10, as enacted in Act 74. Id. at 243. It also permanently enjoined Vermont 18 from conditioning the issuance of a CPG on the execution of a favorable power purchase 19 20 agreement. Id. After the district court rendered its decision, Vermont suggested in a statement dated February 22, 2012, that it still had authority over Vermont Yankee's storage of spent 21 22 nuclear fuel pursuant to section 6522(c)(2) of title 10 of the Vermont Statutes. ECF No. 192. On March 19, 2012, the district court entered an injunction enjoining Vermont from seeking to shut 23 24 down Vermont Yankee on the basis of this statute as well. ECF No. 209.

25

Vermont appeals the district court's determinations with respect to Entergy's challenges to Acts 74 and 160 under the Atomic Energy Act and Entergy's claim under the dormant Commerce Clause. Entergy cross-appeals the district court's determination that its preemption challenge under the Federal Power Act is premature. Neither party appeals the district court's determination that the challenge to Act 189 is most because the safety assessments mandated by Act 189 had been completed by the time of trial.

1		
2	DISCUSSION	
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4	I. Standard of Review	
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6	"We review de novo a district court's application of preemption principles." N.Y. SMS	SA
7	Ltd. P'ship v. Town of Clarkstown, 612 F.3d 97, 103 (2d Cir. 2010) (per curiam). "Findings	of
8	fact in a bench trial are reviewed for clear error; application of law to those facts is reviewed	de
9	novo." Goodspeed Airport LLC v. E. Haddam Inland Wetlands & Watercourses Comm'n, 6	34
10	F.3d 206, 209 n.3 (2d Cir. 2011).	
11		
12	A district court's grant of a permanent injunction is reviewed for abuse of discretion	m.
13	ACORN v. United States, 618 F.3d 125, 133 (2d Cir. 2010). "A district court abuses its discretion	on
14	'when (1) its decision rests on an error of law (such as application of the wrong legal principl	e)
15	or a clearly erroneous factual finding, or (2) its decision - though not necessarily the product of	fa
16	legal error or a clearly erroneous factual finding - cannot be located within the range	of
17	permissible decisions." Id. (quoting Kickham Hanley P.C. v. Kodak Ret. Income Plan, 558 F.	3d
18	204, 209 (2d Cir. 2009)).	
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20	II. Analysis	
21		
22	A. Atomic Energy Act Preemption Claim	
23		
24	A(1). Preemption Principles	
25		
26	The Supremacy Clause of the United States Constitution provides that federal law "sha	
27	be the supreme Law of the Land." U.S. Const. art. VI, cl. 2. In determining whether preempti-	
28	exists, we must "start with the assumption that the historic police powers of the States were n	
29	to be superseded by the Federal Act unless that was the clear and manifest purpose of Congress	
30	Wyeth v. Levine, 555 U.S. 555, 565 (2009) (internal quotation marks omitted). "This assumption	on

31 provides assurance that the federal-state balance will not be disturbed unintentionally by

Congress or unnecessarily by the courts." *Jones v. Rath Packing Co.*, 430 U.S. 519, 525 (1977)
 (internal citation and quotation marks omitted). "[O]ur task is to ascertain Congress' intent in
 enacting the federal statute at issue." *Shaw v. Delta Air Lines, Inc.*, 463 U.S. 85, 95 (1983). "The
 purpose of Congress is the ultimate touchstone." *Allis-Chalmers Corp. v. Lueck*, 471 U.S. 202,
 208 (1985) (internal quotation marks omitted).

6

7 There are several forms of preemption. "The most obvious is where Congress expressly states that it is preempting state authority." Cnty. of Suffolk v. Long Island Lighting Co., 728 F.2d 8 52, 57 (2d Cir. 1984) (citing Jones, 430 U.S. at 525). Preemption may also occur "where 9 compliance with both federal and state regulations is a physical impossibility," Fla. Lime & 10 Avocado Growers, Inc. v. Paul, 373 U.S. 132, 142-43 (1963), or where state law impedes the 11 "execution of the full purposes and objectives of Congress." Hines v. Davidowitz, 312 U.S. 52, 12 67 (1941). In the absence of such explicit or functionally overt preemption, "Congress' intent to 13 supersede state law may be found from 'a scheme of federal regulation . . . so pervasive as to 14 make reasonable the inference that Congress left no room for the States to supplement it." Cnty. 15 of Suffolk, 728 F.2d at 57 (quoting Rice v. Santa Fe Elevator Corp., 331 U.S. 218, 230 (1947)). 16 In this latter context, "federal law occupies an entire field of regulation." Wachovia Bank, N.A. v. 17 Burke, 414 F.3d 305, 313 (2d Cir. 2005). 18

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A(2). The Atomic Energy Act and Pacific Gas

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The domestic nuclear power industry had its genesis in the Atomic Energy Act of 1946, 22 in which Congress "contemplated that the development of nuclear power would be a 23 24 Government monopoly." Duke Power Co. v. Carolina Envtl. Study Grp., Inc., 438 U.S. 59, 63 (1978). This view changed with the passage of the Atomic Energy Act of 1954, 42 U.S.C. §§ 25 26 2011-2281, which "stemmed from Congress' belief that the national interest would be served if the Government encouraged the private sector to develop atomic energy for peaceful purposes 27 28 under a program of federal regulation and licensing." English v. Gen. Electric Co., 496 U.S. 72, 80-81 (1990). "The Act implemented this policy decision by providing for licensing of private 29 30 construction, ownership, and operation of commercial nuclear power reactors." Pacific Gas, 461 U.S. at 207. The Atomic Energy Commission, the predecessor to the present-day NRC, "was 31

given exclusive jurisdiction to license the transfer, delivery, receipt, acquisition, possession and 1 use of nuclear materials. Upon these subjects, no role was left for the states." Id. (internal 2 3 citations omitted). "Congress' decision to prohibit the states from regulating the safety aspects of nuclear development was premised on its belief that the [Atomic Energy] Commission was more 4 qualified to determine what type of safety standards should be enacted in this complex area." 5 Silkwood v. Kerr-McGee Corp., 464 U.S. 238, 250 (1984). Indeed, the congressional findings 6 7 supporting the Atomic Energy Act affirm that the "processing and utilization of source, byproduct, and special nuclear material must be regulated in the national interest," and that the 8 regulation of such materials "by the United States . . . is necessary in the national interest to 9 assure the common defense and security and to protect the health and safety of the public." 42 10 U.S.C. § 2012(c)-(e). Radiological safety therefore represents an arena of field preemption that 11 "Congress, acting within its proper authority, has determined must be regulated by its exclusive 12 governance," thus precluding any regulation by the states. Arizona v. United States, 132 S. Ct. 13 2492, 2501 (2012); see also Skull Valley Band of Goshute Indians v. Nielson, 376 F.3d 1223, 14 1242 (10th Cir. 2004) ("[S]tate laws within 'the entire field of nuclear safety concerns' are 15 preempted, even if they do not directly conflict with federal law." (quoting Pacific Gas, 461 U.S. 16 at 212)). 17

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Nonetheless, "[t]here is little doubt that under the Atomic Energy Act of 1954, state 19 20 public utility commissions or similar bodies are empowered to make the initial decision regarding the need for power." Vt. Yankee Nuclear Power Corp. v. Natural Res. Def. Council, 21 22 Inc., 435 U.S. 519, 550 (1978). The Atomic Energy Act also contains two savings clauses reserving certain regulatory powers not related to nuclear safety to the states. The first clause 23 24 states that the Atomic Energy Act does not limit state authority regarding regulation of the "generation, sale, or transmission of electric power produced through the use of nuclear facilities 25 26 licensed by the Commission." 42 U.S.C. § 2018. The second clause provides that the Atomic Energy Act shall not "be construed to affect the authority of any State or local agency to regulate 27 28 activities for purposes other than protection against radiation hazards." Id. § 2021(k).

29

It was against this background that the Supreme Court issued its 1983 decision in *Pacific Gas*, which concerned whether the Atomic Energy Act preempted a California state statute, the

Warren-Alquist State Energy Resources Conservation and Development Act (the "Warren-1 2 Alguist Act"). 461 U.S. at 197. Under the Warren-Alguist Act, a utility seeking to build a new 3 nuclear power plant in California was first required to obtain permission from the California State Energy Resources and Conservation Commission (the "State Energy Commission"). Id. 4 Section 25524.2 of the Warren-Alquist Act imposed a moratorium on the construction of new 5 power plants until the State Energy Commission determined that a viable long-term spent 6 nuclear fuel disposal method had been developed. Id. at 197-98. The State Energy Commission 7 was also required to report this determination to the California Legislature, which could override 8 it. Id. at 198. The Supreme Court noted that laws similar to the Warren-Alquist Act had been 9 10 enacted in response to two emerging societal concerns about nuclear waste management:

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[F]irst, if not properly stored, nuclear wastes might leak and endanger both the environment and human health; second, the lack of a long-term disposal option increases the risk that the insufficiency of interim storage space for spent fuel will lead to reactor-shutdowns, rendering nuclear energy an unpredictable and uneconomical adventure.

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17 *Id.* at 196-97.¹⁶

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The Court then considered whether the Warren-Alquist Act was preempted because "it 19 regulates construction of nuclear plants and because it is allegedly predicated on safety 20 concerns." Id. at 204. The Court reviewed the legislative history of the Atomic Energy Act and 21 22 concluded that while the "federal government maintains complete control of the safety and 'nuclear' aspects of energy generation," "the states exercise their traditional authority over the 23 need for additional generating capacity, the type of generating facilities to be licensed, land use, 24 ratemaking, and the like." Id. at 211-12. Examples of sole federal authority include the 25 "construction and operation of any production or utilization facility," and the disposal of 26 27 "byproduct, source or special nuclear material . . . because of the hazards or potential hazards thereof." Id. at 209 (quoting 42 U.S.C. § 2021(c)). However, states retain authority over "the 28

¹⁶ The Court also considered a challenge to section 25524.1(b), which required the State Energy Commission to determine on a case-by-case basis whether there would be "adequate capacity" for the short-term storage of spent nuclear fuel before granting certification for the construction of a new plant. *Pacific Gas*, 461 U.S. at 197. The Court determined that the challenge to section 25524.1(b) was not ripe for review because, under the case-by-case methodology required by the statute, the Court could not "know whether the [State] Energy Commission will ever find a nuclear plant's storage capacity to be inadequate." *Id.* at 203 (internal quotation marks omitted).

economic question [of] whether a particular plant should be built"; indeed, "utility financial
 qualifications are only of concern to the NRC if related to public health and safety." *Id.* at 207.
 Examples of exclusive state authority therefore include "ratemaking and plant-need questions."
 Id. at 208.

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6 The Court then examined the purposes underlying section 25524.2, emphasizing that a 7 state statute that seeks to "regulate the construction or operation of a nuclear powerplant . . . even if enacted out of non-safety concerns, would nevertheless directly conflict with the NRC's 8 9 exclusive authority over plant construction and operation." Id. at 212. The Court focused on the state legislative committee report that accompanied section 25524.2, which articulated a purely 10 economic rationale for the bill. The committee report noted that in the absence of "a federally 11 approved method of waste disposal," a "clog' in the nuclear fuel cycle" would emerge because 12 "[s]torage space was limited while more nuclear wastes were continuously produced." *Id.* at 213. 13 This scenario could lead to "unpredictably high costs to contain the problem or, worse, 14 shutdowns in reactors." Id. at 213-14. Because section 25524.2 was "concerned not with the 15 adequacy of the method [of spent nuclear fuel storage], but rather its existence," the Court 16 concluded that it was not preempted by the Atomic Energy Act. Id. at 214 (quoting Pac. Legal 17 Found. v. State Energy Res. Conservation & Dev. Comm'n, 659 F.2d 903, 925 (9th Cir. 1981)). 18

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A(3). The Evolution of the Wholesale Energy Market After Pacific Gas

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22 Critical to appreciating the Supreme Court's concern in *Pacific Gas* about the prospect of state responsibility for rising nuclear energy costs is an understanding of the structure of the 23 24 retail energy market in the 1970s and 1980s. In that era, electric utilities were typically vertically integrated entities that sold the power they generated directly to in-state retail consumers. State 25 26 regulatory agencies would focus on the "retail rates charged directly to the public." Pub. Util. Dist. No. 1 of Snohomish Cntv. Wash. v. FERC, 471 F.3d 1053, 1062 (9th Cir. 2006) ("PUD No. 27 28 1"), vacated on other grounds, 547 F.3d 1081 (9th Cir. 2008). These state agencies would determine the rates at which power could be sold by the electric utility to ensure that such rates 29 30 were reasonable. See, e.g., Consol. Edison Co. of N.Y., Inc. v. Pataki, 292 F.3d 338, 343 (2d Cir. 2002). Federal agencies, on the other hand, would regulate the "wholesale rates charged among 31

businesses involved in providing" power. *PUD No. 1*, 471 F.3d at 1062 (internal quotation marks
omitted). Nonetheless, prior to the 1980s, the dominance of retail utilities ensured that "armslength transactions on wholesale markets were relatively few." David B. Spence & Robert
Prentice, *The Transformation of American Energy Markets and the Problem of Market Power*,
53 B.C. L. Rev. 131, 146 (2012).

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7 As a result of this market structure, "electricity generation, transmission, and distribution for a particular geographic area were generally provided by and under the control of a single 8 regulated utility." Midwest ISO Transmission Owners v. FERC, 373 F.3d 1361, 1363 (D.C. Cir. 9 2004) (Roberts, J.). "Although there were some interconnections among utilities, most operated 10 as separate, local monopolies subject to state or local regulation." New York v. FERC, 535 U.S. 11 1, 5 (2002). This concentration of market power meant that if a local utility's operating costs rose 12 - due to the expense associated with long-term storage of spent nuclear fuel, for example – then 13 consumers would likely experience direct increases in prices as well. As a result, the Pacific Gas 14 Court accepted California's argument that the spent nuclear "waste disposal problem was largely 15 economic or the result of poor planning, not safety related." Pacific Gas, 461 U.S. at 213 16 (internal quotation marks omitted).¹⁷ 17

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The national marketplace for power began to evolve in the late 1970s. First, Congress 19 20 passed the Public Utility Regulatory Policies Act of 1978 (PURPA), 16 U.S.C. §§ 2601 et seq., which sought "to promote the development of new generating facilities and to conserve the use 21 of fossil fuels." New York, 535 U.S. at 9. To do so, PURPA "directed FERC to promulgate rules 22 requiring utilities to purchase electricity from 'qualifying cogeneration and small power 23 24 production facilities." Id. (quoting FERC v. Mississippi, 456 U.S. 742, 751 (1982)). Even more significant, Congress enacted the Energy Policy Act of 1992, which "authorized FERC to order 25 26 individual utilities to provide transmission services to unaffiliated wholesale generators (*i.e.*, to 'wheel' power) on a case-by-case basis." Id. (citing 16 U.S.C. §§ 824j-824k). FERC exercised 27 28 this authority in 1996 by promulgating Orders 888 and 889, which require "all public utilities 29 owning and/or controlling transmission facilities to offer non-discriminatory open access

¹⁷ Indeed, the power market in California was not opened to competition until the late 1990s. *See* David B. Spence, *Can Law Manage Competitive Energy Markets?*, 93 Cornell L. Rev. 765, 779-81 (2008).

transmission service." *Transmission Access Policy Study Grp. v. FERC*, 225 F.3d 667, 682 (D.C.
Cir. 2000) (per curiam), *aff'd sub nom.*, *New York*, 535 U.S. 1.¹⁸

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By the late 1990s, the structure of the power industry had changed dramatically. Many 4 integrated utilities had divested their generating assets, and new participants entered the market 5 "in the form of both independent and affiliated power marketers and generators as well as 6 7 independent power exchanges." Regional Transmission Organizations, Order No. 2000, 89 F.E.R.C. ¶ 61,285, at *7 (Dec. 20, 1999). Many formerly retail utilities became independent 8 "merchant generators," selling the power they generated wholesale across state lines. The 9 emergence of merchant generators placed a significant strain on existing power grids. In 10 response, FERC sought to organize owners of transmission lines into "independent system 11 operators" (ISOs) and "regional transmission organizations" (RTOs) "to help manage the grid, 12 ensure system reliability, and guard against discrimination and the exercise of market power in 13 the provision of transmission services." Spence & Prentice, supra, at 148. These ISOs and RTOs 14 gave rise to several large regional electricity trading hubs, including the California ISO, the 15 Pennsylvania-New Jersey-Maryland (PJM) ISO, the New York ISO, the Electric Reliability 16 Council of Texas (ERCOT) ISO, and ISO New England.¹⁹ 17

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The development of merchant generators had two effects on the marketplace for power 19 20 that are relevant here. First, consumers gained access to new sources of power, which meant that they were no longer captive to a single in-state provider. See Transmission Access, 225 F.3d at 21 22 683. Correspondingly, "[l]ocal energy utilities, could, rather than producing their own power to sell to the public, choose between various competing producers and then transfer the expected 23 24 savings from this competition to the public." PUD No. 1, 471 F.3d at 1065. The development of large regional power grids gave consumers access to power generated by out-of-state merchant 25 generators. As the Supreme Court has noted, it is now "possible for a customer in Vermont [to] 26 purchase electricity from an environmentally friendly power producer in California or a 27

¹⁸ The orders may be read in full at Promoting Wholesale Competition Through Open Access Non-Discriminatory Transmission Services by Public Utilities, Order 888, 61 Fed. Reg. 21,540, 21,541-43 (FERC May 10, 1996) (codified at 18 C.F.R. pt. 37); and at Open Access Same-Time Information System (Formerly Real-Time Information Networks) and Standards of Conduct, Order 889, 61 Fed. Reg. 21,737, 21,740-41 (FERC Apr. 24, 1996) (codified at 18 C.F.R. pt. 37).

¹⁹ See U.S. Energy Info. Admin., The Changing Structure of the Electric Power Industry 2000: An Update, at 74-77 (2000), *available at* http://www.eia.gov/cneaf/electricity/chg_stru_update/update2000.pdf.

cogeneration facility in Oklahoma." *New York*, 535 U.S. at 8 (internal quotation marks omitted).
Indeed, Vermont Yankee presently supplies only one-third of the power consumed by Vermont
residents; the rest is purchased by Vermont electrical companies from other sources. *See In re Entergy Nuclear Vt. Yankee, LLC*, 2006 WL 1418626, at *12. Second, because states may obtain
power from energy plants located in other states, there is less public support for continued
operation of in-state nuclear power plants and greater opposition to such local plants on safety as
well as non-safety grounds.²⁰

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With the advent of merchant generators, the challenge of identifying a long-term spent 9 nuclear fuel storage solution has grown even more pressing. After a useful life of four-to-six 10 years, spent nuclear fuel rods are thermally hot when removed from reactors and emit substantial 11 amounts of radiation. New York v. NRC, 681 F.3d 471, 474 (D.C. Cir. 2012) (citing Blue Ribbon 12 Commission on America's Nuclear Future, Report to the Secretary of Energy 10-11 (2012)). The 13 rods are transferred to deep, water-filled pools for cooling; they may then be transferred to large 14 concrete and steel "casks" for storage, even though they will continue to emit dangerous 15 radiation "for time spans seemingly beyond human comprehension." Id. (quoting Nuclear 16 Energy Inst., Inc. v. EPA, 373 F.3d 1251, 1258 (D.C. Cir. 2004) (per curiam)). Nonetheless, 17 despite the continued production of nuclear waste, and despite "years of 'blue ribbon' 18 commissions, congressional hearings, agency reports, and site investigations, the United States 19 has not yet developed a permanent solution." Id. Most recently, plans to develop a federally-20 sponsored storage site at Yucca Mountain in Nevada were abandoned when the Department of 21 22 Energy withdrew its license application for the facility. See Nat'l Ass'n of Regulatory Util. Comm'rs v. U.S. Dep't of Energy, 680 F.3d 819, 822-23 (D.C. Cir. 2012). "At this time, there is 23 24 not even a prospective site for a repository, let alone progress toward the actual construction of one." New York v. NRC, 681 F.3d at 474. 25

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²⁰ See, e.g., New York v. United States, 505 U.S. 144, 197 (1992) (noting that "public opposition" undermined a state's efforts to identify sites for nuclear waste disposal); *State of Nev. v. Watkins*, 914 F.2d 1545, 1550-51 (9th Cir. 1990) (noting the opposition of the Nevada Legislature to the storage of spent nuclear fuel in the state); *see also* Michael B. Gerrard, *Fear and Loathing in the Siting of Hazardous and Radioactive Waste Facilities: A Comprehensive Approach to a Misperceived Crisis*, 68 Tul. L. Rev. 1047, 1137-46 (1994) (discussing the sources of public opposition to spent nuclear fuel storages sites).

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A(4). Act 160

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3 With this general background in mind, we begin our preemption analysis of Act 160, the most recent of Vermont's legislative enactments at issue.²¹ The proper place to begin the analysis 4 of a statute is its text. See, e.g., United States v. Am. Trucking Ass'ns, 310 U.S. 534, 543 (1940) 5 ("There is, of course, no more persuasive evidence of the purpose of a statute than the words by 6 which the legislature undertook to give expression to its wishes."). As described previously, Act 7 160 adds three new sections to the Vermont Statutes: sections 248(e)(2), 248(m), and 254 of title 8 30. Section 248(e)(2) requires the Vermont Legislature to determine whether an extension of the 9 Vermont Yankee operating lease should be granted (that is, to determine whether the lease 10 advances the "general welfare") before the Board can issue a new CPG. Vt. Stat. Ann. tit. 30, § 11 248(e)(2). Section 248(m) requires that the evaluation of a new CPG be conducted using current 12 cost-benefit assumptions, rather than those that informed the issuance of the previous CPG. Id. § 13 248(m). Section 254 requires that an application to operate Vermont Yankee past March 21, 14 2012, be submitted at least four years in advance, and that the Department engage in extensive 15 16 fact-finding to support the legislative determination that the lease advances the general welfare. Id. § 254(a). The statute requires that the Department "identify, collect information on, and 17 provide analysis of long-term environmental, economic, and *public health issues*, including 18 issues relating to dry cask storage of nuclear waste and decommissioning options." Id. § 19 20 254(b)(2)(B) (emphasis added). These are factors that the Board "shall consider" in "acting on a petition" subject to the statute, id. § 254(b)-(c), and the Board's conclusions are reported to the 21 22 Vermont Legislature to inform its own determination regarding the status of Vermont Yankee, *id.* § 254(a)(2)-(3). 23

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As an initial matter, we must consider whether it is appropriate to consider a facial challenge to Act 160. In this regard, we find it important that Act 160, through the operation of section 248(e)(2), transfers the process for determining whether to approve a new operating

²¹ As the party asserting preemption, Entergy carries the burden of proof. *See Silkwood*, 464 U.S. at 255 (stating that Kerr-McGee, as the party asserting the preemption claim, bore the "burden to show that Congress intended to [preempt] such [punitive damages] awards in the Atomic Energy Act); see also English, 496 U.S. at 85-86 (following the approach set out in Silkwood). We thus reject the burden-shifting approach that the district court imported from Equal Protection Clause and First Amendment jurisprudence. See Entergy Nuclear, 838 F. Supp. 2d at 225, 230-31 (citing Vill. of Arlington Heights v. Metro. Hous. Dev. Corp., 429 U.S. 252, 271 n.21 (1977), and Mt. Healthy City Sch. Dist. Bd. of Educ. v. Doyle, 429 U.S. 274, 285-86 (1977)).

license for Vermont Yankee from the Board to the Vermont Legislature. Before the passage of 1 Act 160, the Board's decision regarding whether to approve the continued operation of Vermont 2 3 Yankee would have been subject to review by the Vermont Supreme Court. Vt. Stat. Ann. tit. 30, § 12. Such a review likely would have encompassed legal questions regarding whether Act 160 4 was preempted by federal law. See, e.g., Petition of E. Ga. Cogeneration Ltd. P'ship, 614 A.2d 5 799, 804-05 (Vt. 1992). After the passage of Act 160, if the Vermont Legislature chose not to 6 7 act, the operating license for Vermont Yankee would lapse on March 21, 2012, and that decision would not be subject to judicial review. See Bd. of Educ. of Kiryas Joel Vill. Sch. Dist. v. 8 Grumet, 512 U.S. 687, 703 (1994) ("[U]nlike an administrative agency's denial of an exemption 9 from a generally applicable law, which would be entitled to a judicial audience, a legislature's 10 failure to enact a special law is itself unreviewable." (internal citations and quotation marks 11 omitted)). 12

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Because a "state moratorium" on the operation of Vermont Yankee "grounded in safety 14 concerns falls squarely within the prohibited field," Pacific Gas, 461 U.S. at 213, a law enacted 15 for that purpose would facially lack any "plainly legitimate sweep." Wash. State Grange v. 16 Wash. State Republican Party, 552 U.S. 442, 449 (2008) (internal quotation marks omitted). We 17 also note several other reasons why it is appropriate to consider Entergy's facial challenge to the 18 validity of Act 160. First, because of the extensive legislative record accompanying Act 160 and 19 20 the detailed inquiry conducted by the district court below, it "is not the case . . . that the Court today is premature in interpreting [Act 160] on the basis of a factually barebones record."" 21 Citizens United v. FEC, 130 S. Ct. 876, 894 (2010) (internal quotation marks and alterations 22 omitted). Second, because Act 160 shifts the decision regarding whether to approve the operation 23 24 of Vermont Yankee into the unreviewable province of the Vermont Legislature's "failure to enact a special law," Grumet, 512 U.S. at 703, we will not otherwise have any "occasion to 25 26 construe the law in the context of actual disputes." Wash. State Grange, 552 U.S. at 450. Lastly, we believe that "the issues before the court are concrete and sharply presented" so as to permit 27 meaningful review. Dickerson v. Napolitano, 604 F.3d 732, 741 (2d Cir. 2010) (quoting 28 Thibodeau v. Portuondo, 486 F.3d 61, 71 (2d Cir. 2007)). It is therefore "necessary to determine 29 whether there is a non-safety rationale" for Act 160 by considering whether the decision to 30

effectively shut down Vermont Yankee serves the policy interests articulated in the statute.
 Pacific Gas, 461 U.S. at 213.

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The legislative policy and purpose section of Act 160 sets forth several rationales for the statute. Section 1(a) states that "a nuclear energy generating plant may be operated in Vermont only with the explicit approval of the General Assembly expressed in law," and that legislative approval requires a "public deliberation" of such factors as "the state's need for power, the economics and environmental impacts of long-term storage of nuclear waste, and choice of power sources among various alternatives." Act 160 § 1(a). The statute later states that the issue of long-term spent fuel storage should be framed as

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a part of the larger societal discussion of broader economic and environmental issues relating to the operation of a nuclear facility in the state, including an assessment of the potential need for the operation of the facility and its economic benefits, risks, and costs; and in order to allow opportunity to assess alternatives that may be more cost-effective or that otherwise may better promote the general welfare.

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Id. § 1(d). Drawing on the language in sections 1(a) and 1(d), Vermont argues that Act 160
advances two policy interests: (1) increased use of a diverse array of renewable power sources;
and (2) promotion of energy sources that are more cost-effective.

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Although Vermont's asserted policy interests would not necessarily interfere with the preempted concern of radiological safety, our inquiry does not end at the text of the statute.

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We do not blindly accept the articulated purpose of [a state statute] for preemption purposes. If that were the rule, legislatures could "nullify nearly all unwanted federal legislation by simply publishing a legislative committee report articulating some state interest or policy – other than frustration of the federal objective – that would be tangentially furthered by the proposed state law."

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Greater N.Y. Metro. Food Council, Inc. v. Giuliani, 195 F.3d 100, 108 (2d Cir. 1999) (quoting
Gade v. Nat'l Solid Wastes Mgmt. Ass'n, 505 U.S. 88, 106 (1992)) (internal citation omitted),

abrogated on other grounds by Lorillard Tobacco Co. v. Reilly, 533 U.S. 525 (2001). As a result,

"we have refused to rely solely on the legislature's professed purpose and have looked as well to 1 the effects of the law." Gade, 505 U.S. at 105; see also Vango Media, Inc. v. City of N.Y., 34 2 3 F.3d 68, 73 (2d Cir. 1994) ("[T]he question of preemption is defined, in part, by the purpose of the state law, and, in part, by the state law's actual effect. Both must be considered in answering 4 the question whether state regulation in a given field so interferes with federal regulation as to be 5 deemed preempted by the federal statute." (citing Gade, 505 U.S. at 103-06) (internal citations 6 omitted)).²² Although the *Pacific Gas* Court did not explicitly delineate the level of scrutiny a 7 court must perform to determine whether a statute is preempted by the Atomic Energy Act, we 8 believe the Court's admonition against a "state judgment that nuclear power is not safe enough to 9 be further developed," 461 U.S. at 213, requires us to conduct a more searching review to 10 determine whether a statute was enacted based upon radiological safety concerns. See also Cnty. 11 of Suffolk, 728 F.2d at 58 ("[A] state, in evaluating the need for a nuclear generating facility, 12 [can] not even consider the safety aspects." (citing Pacific Gas, 461 U.S. at 213)). We therefore 13 decline Vermont's invitation to apply an analytic framework akin to "rational basis review," 14 which would preclude us from identifying the true purpose of a statute as required by *Pacific* 15 Gas and would allow states to implement a "moratorium on nuclear construction grounded in 16 safety concerns [that] falls squarely within the prohibited field." Pacific Gas, 461 U.S. at 213.²³ 17

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As to the goal of diversifying the State's means of producing power, Vermont argues that the presence of Vermont Yankee "hamper[s] efforts at diversification and has a dampening effect on the development of alternatives." Citing the testimony of the State's former Director of Regulated Utility Planning, Vermont argues that closing Vermont Yankee "would free up space in the electrical generation market and make it easier to promote diversity and sustainable resources." Vermont also quotes a former Maine state power regulator and NRC commissioner, who testified before the district court that the State has a "legitimate interest in energy planning

²² See also Loyal Tire & Auto Ctr., Inc. v. Town of Woodbury, 445 F.3d 136, 145 (2d Cir. 2006) (Sotomayor, J.) (noting, in the context of Interstate Commerce Act preemption, that a court must inquire into whether the state or local regulation is "genuinely responsive" to the proffered rationale).

²³ Moreover, the statute provides that "public health issues," including those related to storage of nuclear waste, are to be considered in determining whether to permit the continued operation of Vermont Yankee. As this phrase is not defined in the statute, we must look to the legislative intent to determine its meaning. *See Universal Church v. Geltzer*, 463 F.3d 218, 223 (2d Cir. 2006) ("[W]e may look to the legislative history to determine the legislative intent where the plain statutory language is ambiguous").

and promoting renewables" and argued that "any sensible energy planner would be anticipating a
 time when Vermont would be without Vermont Yankee."

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However, this argument presupposes that Vermont retail utilities lack choices with 4 respect to the sources of the energy they purchase. "[S]tates have broad powers under state law 5 to direct the planning and resource decisions of utilities under their jurisdiction. States may, for 6 example, order utilities to build renewable generators themselves, or . . . order utilities to 7 purchase renewable generation." S. Cal. Edison Co. San Diego Gas & Elec. Co., 71 FERC ¶ 8 61,269, at *8 (June 2, 1995). Vermont Yankee provides only one third of the power consumed in 9 the State, so it is clear that the Vermont Legislature can direct retail utilities to "purchase 10 electricity from an environmentally friendly power producer in California or a cogeneration 11 facility in Oklahoma," if it so chooses. New York, 535 U.S. at 8 (internal quotation marks 12 omitted). Vermont can also direct or encourage its utilities to purchase power from nuclear 13 power plants located out-of-state. Indeed, Vermont recently pursued this exact approach by 14 approving a petition to allow its retail utilities to purchase power from the Seabrook Station 15 16 Nuclear Power Plant in New Hampshire, a merchant generator like Vermont Yankee. In re Green Mountain Power Corp., Docket No. 7742, 2011 WL 5507224, at *1 (Vt. Pub. Serv. Bd. 17 18 Nov. 4, 2011). Closing Vermont Yankee would thus have little effect on the actual array of energy sources from which Vermont utilities can purchase power.²⁴ 19

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As to the second goal of containing costs, Vermont argues that the economic rationale relied on by the *Pacific Gas* Court applies with equal force here. Vermont suggests that shutting down Vermont Yankee might assist the State in identifying "alternatives that may be more cost-

²⁴ Indeed, the Board recognized alternative sources of energy in its Order approving the sale of Vermont Yankee to Entergy in 2002, but noted some of the related problems:

We cannot assume, as urged by several members of the public, that the power from Vermont Yankee can be quickly replaced by renewable resources. Vermont already gets a higher percentage of its power from renewable sources (mostly large hydro-power dams) than many other states. With the exception of large hydro dams, renewable energy resources tend to be relatively small sources of generation, particularly in relation to Vermont Yankee. Thus, instead of renewable sources, Vermont utilities would need to rely on fossil fuel generating stations to replace much of the power now provided by Vermont Yankee. This option would have the very serious disadvantage of significantly increasing the emission of air contaminants and greenhouse gases.

In re Vt. Yankee Nuclear Power Corp., 2002 WL 1997942 (footnote omitted).

effective." However, this argument is also not persuasive in light of Vermont Yankee's status as 1 a merchant generator. Increases in the prices Vermont Yankee charges for its power would not 2 3 be borne directly by a captive audience of retail consumers, as was the case for California residents in Pacific Gas. Instead, Vermont Yankee is "a merchant generator, which means that it 4 sells power on the open wholesale market." Envtl. Law & Policy Ctr. v. NRC, 470 F.3d 676, 679 5 (7th Cir. 2006). For that reason, local energy utilities could simply "choose between various 6 competing producers" and purchase power from the more cost-effective provider. See PUD No. 7 1, 471 F.3d at 1065. Closing Vermont Yankee would not affect the availability of other sources 8 of power from which local retail utilities could purchase power that might be more "cost-9 effective;" indeed, they are free to do so now.²⁵ 10

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Vermont's second economic argument regarding the State's potential future liability for 12 decommissioning costs is also of little weight. Vermont contends that the recent collapse of the 13 plan to construct a long-term spent nuclear fuel storage facility in Yucca Mountain means that 14 "[i]f plant operators such as Entergy become insolvent or abandon their obligations, the financial 15 burdens will fall on host states." However, "[i]n 1988, the Nuclear Regulatory Commission 16 adopted a final rule requiring operators of nuclear facilities to file decommissioning plans, and to 17 pre-fund decommissioning by placing money aside in an external sinking fund." Neb. Pub. 18 Power Dist. v. MidAmerican Energy Co., 234 F.3d 1032, 1037 (8th Cir. 2000) (citing Nuclear 19 20 Regulatory Commission Final Rule, General Requirements for Decommissioning Nuclear Facilities, 53 Fed. Reg. 24018-01 (June 27, 1988) (codified at 10 C.F.R. § 50.82)). "By 21 22 regulation, decommissioning funds may not be used for non-decommissioning related expenses, such as [spent nuclear fuel] storage." Bos. Edison Co. v. United States, 93 Fed. Cl. 105, 136 23 24 (2010), rev'd on other grounds, 658 F.3d 1361 (Fed. Cir. 2011). Nuclear power plants must provide periodic reports to the NRC concerning the status of such funds for the purpose of 25

²⁵ We note that in its 2006 Order granting a new CPG to Vermont Yankee to store additional spent nuclear fuel on site, the Board made the following argument regarding the effect of the plaint shutting down:

In the absence of the dry fuel storage project, a substantial likelihood exists that Vermont Yankee would shut down by 2008 due to the inability to store the spent nuclear fuel it generates. [Vermont retail utilities] could replace the power with other purchases, but such replacement power would probably cost more (perhaps significantly more) than the Vermont Yankee power.

In re Entergy Nuclear Vt. Yankee, LLC, 2006 WL 1418626, at *20.

providing "reasonable assurance that funds will be available for the decommissioning process."
 10 C.F.R. § 50.75(a).²⁶

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We must also look to the statute's legislative history to determine if it was passed with an 4 impermissible motive. Vermont argues that *Pacific Gas* forecloses the use of legislative history 5 to analyze a state statute for Atomic Energy Act preemption, noting the Court's dictum 6 describing "inquiry into legislative motive [as] often an unsatisfactory venture." 461 U.S. at 216. 7 In analyzing the purpose of the Warren-Alquist Act, however, the Court looked to a report issued 8 by the state legislative committee that presented the bill. Id. at 214. Moreover, in a subsequent 9 decision, the Court interpreted Pacific Gas to hold that a "state moratorium on nuclear 10 construction grounded in safety concerns falls squarely within the prohibited field." English, 496 11 U.S. at 84 (quoting Pacific Gas, 461 U.S. at 213). "In other words, the Court defined the 12 preempted field, in part, by reference to the motivation behind the state law." Id. (emphasis 13 added); see also Gade, 505 U.S. at 105-06 ("We can no longer adhere to the aberrational 14 doctrine . . . that state law may frustrate the operation of federal law as long as the state 15 16 legislature in passing its law had some purpose in mind other than one of frustration [of the federal regulatory scheme]." (quoting Perez v. Campbell, 402 U.S. 637, 651-52 (1971)) 17 18 (emphasis added)). Indeed, several other courts applying *Pacific Gas* have endorsed the use of legislative history to determine whether the Atomic Energy Act preempts a particular state 19 statute or local ordinance. See, e.g., Skull Valley, 376 F.3d at 1251-53; Long Island Lighting Co. 20 v. Cnty. of Suffolk, N.Y., 628 F. Supp. 654, 665-66 (E.D.N.Y. 1986); see also Loyal Tire & Auto 21 22 Ctr., Inc. v. Town of Woodbury, 445 F.3d 136, 145 (2d Cir. 2006) (Sotomayor, J.) (holding, in the context of Interstate Commerce Act preemption, that a court "must consider any specific 23 24 expressions of legislative intent in the statute itself as well as the legislative history"); Greater N.Y. Metro., 195 F.3d at 108 & n.1 (examining legislative history to determine whether a New 25 York City local law was preempted by the Federal Cigarette Labeling and Advertising Act). We 26

²⁶ In conducting this analysis, we do not suggest that Vermont Yankee's status as a merchant generator precludes every possible economic argument Vermont could offer as a basis for regulating the plant. *See Pacific Gas*, 461 U.S. at 208-09, 215; *see also Nieman v. NLO, Inc.*, 108 F.3d 1546, 1552 (6th Cir. 1997) ("[W]hile recognizing that Congress has preempted the entire field of nuclear safety regulation, the Supreme Court has been willing to uphold the application of state law where it affects nuclear regulation only indirectly, *i.e.*, where state law amounted to economic regulation"). We note only that the rationales proffered here are implausible in light of the actual effect of Act 160, and that the non-safety-related rationales for a legislative decision to shut down Vermont Yankee are not adequately supported by the record.

therefore believe that legislative history is an important source for determining whether a
 particular statute was motivated by an impermissible motive in the preemption context.²⁷

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Vermont argues that the task of determining the legislative intent behind Act 160 is 4 particularly difficult in this case because the Vermont Legislature, as a "part-time citizen body, 5 does not produce formal committee reports like those Congress prepares, and it has no 6 requirement to preserve complete records of its proceedings." In addition, "[c]ommittee hearings 7 are generally recorded, but are not contemporaneously transcribed, and often do not identify the 8 speaker. Floor debates are usually recorded in the Senate, but not in the House of 9 Representatives." For this reason, Vermont argues that much of the legislative history behind Act 10 160 is "missing or incomplete." 11

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Acknowledging these conditions does not change the fact that a "court's primary purpose 13 in statutory interpretation is to discern legislative intent." Morgan v. Gay, 466 F.3d 276, 277 (3d 14 Cir. 2006).²⁸ Although the lack of systemized record-keeping may make our task more 15 16 challenging, the informality of the proceedings of the Vermont Legislature and the State's decision to not document its legislative history do not immunize Act 160 from judicial inquiry 17 18 into legislative motivation. Cf. Blanton v. City of Murfreesboro, 856 F.2d 731, 734 (6th Cir. 1988) ("While we recognize today that the use of legislative history, much of which is not 19 20 recorded until after the final congressional action, in trying to understand the intent of Congress, is not as meaningful as it once was, we find ourselves with no other means of determining the 21 22 intent of Congress in enacting this legislation.").

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²⁷ We acknowledge that *Pacific Gas* does not explain with precision the role legislative history plays in the analysis of an Atomic Energy Act preemption claim. *See English*, 496 U.S. at 84 n.7 ("Whether the suggestion of the majority in *Pacific Gas* that legislative purpose is relevant to the definition of the pre-empted field is part of the holding of that case is not an issue before us today"); *see also Kerr-McGee Chem. Corp. v. City of W. Chi.*, 914 F.2d 820, 827 (7th Cir. 1990) ("It is not clear how heavily legislative purpose is to be weighed in determining preemption."); *Norris v. Lumbermen's Mut. Cas. Co.*, 881 F.2d 1144, 1150-51 (1st Cir. 1989) (interpreting the "teaching of *Pacific Gas & Electric*" as requiring an analysis of a state statute's text and effect). *But see Skull Valley*, 376 F.3d at 1252 ("[W]e are required to follow the preemption analysis set forth in *Pacific Gas*, *Silkwood*, and *English*, which requires consideration of the purpose of the allegedly preempted statute, along with its effects."). Moreover, the *Pacific Gas* Court conducted a methodical analysis of the legislative intent undergirding the federal Atomic Energy Act to determine its scope and effect, 461 U.S. at 205-11, and we see no reason why the state statute at issue should not be so scrutinized as well.

²⁸ See also Belanger v. Salvation Army, 556 F.3d 1153, 1155 (11th Cir. 2009); Nike, Inc. v. McCarthy, 379 F.3d 576, 581-82 (9th Cir. 2004); Femedeer v. Haun, 227 F.3d 1244, 1249 (10th Cir. 2000).

We agree with the district court's careful analysis of the legislative intent motivating 1 Vermont's enactment of Act 160 insofar as the district court identified radiological safety as the 2 Vermont legislature's primary purpose in enacting the statute.²⁹ The district court concluded that 3 the legislative record contained "references, almost too numerous to count, [that] reveal 4 legislators' radiological safety motivations and reflect their wish to empower the legislature to 5 address their constituents' fear of radiological risk, and [the legislators'] beliefs that the plant 6 7 was too unsafe to operate, in deciding a petition for continued operation." Entergy Nuclear, 838 F. Supp. 2d at 229. We need not repeat the entirety of the district court's examination, which 8 included considering many hours of audiotapes of floor debates and committee meetings for 9 which written transcriptions are not typically maintained, except to note the remarkable 10 consistency with which both state legislators and regulators expressed concern about radiological 11 safety and expressed a desire to evade federal preemption. See Disabled in Action of Metro. N.Y. 12 v. Hammons, 202 F.3d 110, 124 (2d Cir. 2000) (noting that the "sponsor/floor manager statement 13 and floor and hearing colloquy" are among "the most authoritative and reliable materials of 14 legislative history"). 15

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The Vermont Senate Finance Committee conducted its first hearings on the bill that 17 18 would ultimately become Act 160 only days after Entergy filed its application with the NRC for an extension of its operating license for Vermont Yankee past 2012. During those first hearings, 19 20 the committee chair and the chairman of the Board engaged in an extended colloquy regarding the permissible legislative purposes for the bill, with particular emphasis on Pacific Gas and its 21 22 roadmap for appropriate state legislative regulation of nuclear facilities. After being informed that regulation based on radiological safety was preempted and impermissible, the committee 23 chair responded, "Okay, let's find another word for safety," an approach also adopted by the 24 Board chairman. A state legislator participating in the hearing responded to testimony from a law 25 professor regarding the permissible scope of the bill by stating, "I understand that only the feds 26 are allowed to think of safety issues, and we carefully don't use that word here." Another 27

²⁹ Our analysis focuses on whether radiological safety was the primary purpose undergirding the passage of Act 160, not simply whether safety was only one of several considerations. *See Pacific Gas*, 461 U.S. at 196, 213 (identifying "*both* safety and economic aspects to the nuclear waste issue," yet finding no preemption where the Warren-Alquist Act had "*a* non-safety rationale" (emphasis added)); *cf. Vango Media, Inc. v. City of N.Y.*, 34 F.3d 68, 73 (2d Cir. 1994) (finding that while the challenged statute had "an associated economic impact on society," its "primary interest" was the preempted field of "public health").

1 member of the Finance Committee expressed concern that "all of our work [will] get overturned . . . by the feds because it's based on safety? That's all it's going to be based on." A third member 2 3 of the committee asserted that the federal government likely would not be able to transport Vermont Yankee's spent nuclear fuel out of the state, and then asked rhetorically, "[D]o we want 4 another 40 years' worth of radioactive materials sitting somewhere in this State? I think the 5 people . . . are getting a little concerned and obviously the closer you live to that radioactivity, 6 7 the more concerned you are." That same senator also referenced the incidents at Three Mile Island and Chernobyl, and stated that the potential for a similar disaster was sufficiently serious 8 that "the legislature felt [that the bill presented] a public policy decision that they needed to 9 make." The Committee also considered testimony from the Vermont Legislature's Chief 10 Legislative Counsel and a Department representative concerning ways of writing the bill so as to 11 avoid overt references to radiological safety. 12

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The record also indicates that during hearings on the bill that would become Act 160, 14 members of the Department, regulators, and Vermont legislators repeatedly demonstrated 15 awareness of the potential for a preemption problem and disguised their comments accordingly. 16 For example, during a hearing of the Senate Finance Committee on the bill that would become 17 Act 160, a member of the Vermont State Nuclear Advisory Panel told the committee chair that 18 the Board "is not allowed to think about safety, as you know," but then proceeded to opine on 19 20 various safety risks. The committee chair then admonished the panel member to speak purely about "economic risks," which led that individual to suggest that "a safety problem has economic 21 implications, too." The committee also heard testimony from a professor at a local law school 22 and former chairman of the Board, who warned the committee that because "the State is 23 24 preempted in its concerns about radiological safety," the "State has to make its decision on other grounds, which would include anything from aesthetics to the obvious ones about financial 25 implication to such things as reliability of the electric grid." During a subsequent exchange, the 26 current chairman of the Board instructed the committee on whether and in what circumstances it 27 28 could "talk about public health." A member of the Department then recommended that "some alternative language be placed into the bill" so as to avoid the issues referenced by the chairman 29 of the Board. These are not merely isolated comments by a few legislators, but rather a part of a 30 consistent effort by those responsible for drafting and passing Act 160 to obfuscate the record 31

through the use of misleading statements that they thought would pass muster under *Pacific Gas*.
We conclude that the district court carefully, fairly, and properly analyzed the legislative intent
undergirding Act 160 and found that it demonstrated an impermissible primary purpose on the
part of the Vermont Legislature.³⁰

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In concluding that the Vermont Legislature was improperly motivated by concerns 6 7 relating to radiological safety in enacting Act 160, we recognize that many legislators were likely acting with some non-preempted concerns in mind as well. "What motivates one legislator to 8 vote for a statute is not necessarily what motivates scores of others to enact it." Pacific Gas, 461 9 U.S. at 216. We also acknowledge that the mere transfer of authority from a state administrative 10 board to the legislature does not require a finding of preemption. We further recognize that the 11 extent to which a state legislature's permissible concerns outweigh its impermissible motive in 12 passing a statute is not an issue that the *Pacific Gas* Court elucidated with great clarity. *Compare* 13 id. at 213 ("A state prohibition on nuclear construction for safety reasons would also be in the 14 teeth of the Atomic Energy Act's objective to insure that nuclear technology be safe enough for 15 widespread development and use – and would be preempted for that reason." (emphasis added)), 16 with id. ("[I]t is necessary to determine whether there is a non-safety rationale for [the Warren-17 Alguist Act]." (emphasis added)). Nonetheless, our task is not "[t]o look for the sole purpose" of 18 the Vermont Legislature; that exercise would require us "probably to look for something that 19 20 does not exist." Edwards v. Aguillard, 482 U.S. 578, 637 (1987) (Scalia, J., dissenting). Our task is to determine whether the Vermont Legislature's decision to pass Act 160 was "grounded in 21 [radiological] safety concerns." Pacific Gas, 461 U.S. at 213. A record as consistent and replete 22

³⁰ We reach this conclusion without needing to consider the legislative history behind S.289, which – had it passed – would have permitted Vermont Yankee to operate for twenty years after March 21, 2012. We note that although S.289 arguably shares "a common heritage" with Act 160, it is "not before the Court, and indeed, . . . was not passed." S.289's "provisions and [its] pedigree do not taint other parts of" Act 160. *Pacific Gas*, 461 U.S. at 215-16; *see also Pension Benefit Guar. Corp. v. LTV Corp.*, 496 U.S. 633, 650 (1990) ("[S]ubsequent legislative history is a hazardous basis for inferring the intent of an earlier Congress." (internal quotation marks omitted)). However, we note that consideration of S.289's legislative history would nonetheless confirm our analysis of Act 160, as its record contains numerous references to radiological safety concerns. For instance, during a meeting of the Senate Finance Committee debating the bill, a Department commissioner adverted to the recent tritium leak at the Vermont Yankee site and suggested delaying the vote on S.289, commenting that determining "what sort of public health and safety issues . . . we need to address is sort of priority one." Various senators also reiterated concerns regarding the potential safety risks to Vermont residents living near the plant during the hearings on S.289. Echoing an earlier comment by the chair of the Senate Finance Committee during its debates regarding Act 160, one senator argued on the Senate floor that the other senators should consider "safety concerns, although I'm not supposed to talk about that so I won't go into detail on that, but it's certainly in everybody's mind in this room, we all know it."

with references to radiological safety as that here meets any conceivable standard for the
allowable threshold level of impermissible concerns under *Pacific Gas*. As such, we affirm the
district court's determination that Act 160 is preempted on its face by the Atomic Energy Act.

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5 We likewise affirm the district court's grant of a permanent injunction enjoining the 6 defendants from enforcing Act 160. A plaintiff seeking a permanent injunction must 7 demonstrate:

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10 11 (1) that it has suffered an irreparable injury; (2) that remedies available at law, such as monetary damages, are inadequate to compensate for that injury; (3) that, considering the balance of hardships between the plaintiff and defendant, a remedy in equity is warranted; and (4) that the public interest would not be disserved by a permanent injunction.

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Monsanto Co. v. Geertson Seed Farms, 130 S. Ct. 2743, 2756 (2010) (quoting eBay, Inc. v. 14 MercExchange, L.L.C., 547 U.S. 388, 391 (2006)). Each of these four factors is clearly satisfied 15 here. First, Entergy would suffer an irreparable injury if the defendants were able to enforce Act 16 160 and shut down Vermont Yankee. See Tom Doherty Assocs., Inc. v. Saban Entm't, Inc., 60 17 F.3d 27, 37 (2d Cir. 1995) (finding irreparable harm in part because "the right to continue a 18 business 'is not measurable entirely in monetary terms'" (quoting Semmes Motors, Inc. v. Ford 19 Motor Co., 429 F.2d 1197, 1205 (2d Cir. 1970))). Second, Entergy would be unable to recover 20 monetary damages from Vermont because of the Eleventh Amendment. See United States v. 21 22 State of N.Y., 708 F.2d 92, 93 (2d Cir. 1983) (per curiam). Third, the balance of hardships favors Entergy because it would suffer irreparable losses from Vermont Yankee being shut down while 23 Act 160 would not meaningfully advance the rationales offered by Vermont. Lastly, the public 24 interest would not be disserved by a permanent injunction, because Vermont would be able to 25 26 continue purchasing the power generated by Vermont Yankee while still diversifying its energy 27 base and purchasing power from more cost-effective sources if it so chooses. The district court thus did not abuse its discretion in granting the permanent injunction enjoining the defendants 28 29 from enforcing Act 160.

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A(5). Act 74

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3 As with Act 160, our analysis of Act 74 begins with the text of the statute. Act 74 adds three sections to title 10 of the Vermont statutes: sections 6521, 6522, and 6523. As discussed 4 above, section 6521 summarizes the stated legislative findings. Vt. Stat. Ann. tit. 10, § 6521. 5 Section 6522 requires that the Board make certain findings before issuing a CPG allowing an 6 7 expansion of the spent nuclear fuel storage facility beyond the capacity previously authorized, and for any such expansion after the expiration of the CPG on March 21, 2012, the affirmative 8 approval of the Vermont Legislature is required. Id. § 6522(c)(2), (c)(4). Section 6523 9 establishes a "Clean Energy Development Fund" into which, pursuant to the 2003 MOU entered 10 into between Entergy and the Department, Entergy would make payments for the purpose of 11 promoting "cost-effective and environmentally sustainable" power for the "long-term benefit of 12 Vermont electric consumers." Id. § 6523 (current version at Vt. Stat. Ann. tit. 30, § 8015). 13

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Act 74 also incorporates the 2005 MOU, which imposes on Entergy a variety of 15 16 requirements related to radiological safety. These requirements include rules regarding the placement and configuration of dry-fuel-storage facilities that exceed the licensing standards 17 required by the NRC; the spacing of casks; temperature and radiation monitoring with 18 concomitant reporting requirements to the Department; and the density of spent-fuel pools. 2005 19 20 MOU at 1-2. The 2005 MOU also prohibits the storage of waste generated outside Vermont on site, and requires Entergy to use its best efforts to move the spent nuclear fuel generated by 21 22 Vermont Yankee to a permanent location outside the state as soon as possible. *Id.* at 2.

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24 Lastly, much like Act 160, section 6522 allows the Vermont Legislature to terminate the operation of Vermont Yankee after March 21, 2012, by refusing to act affirmatively. This 25 26 effectively codifies the Vermont Attorney General's opinion that section 6505, which had previously exempted Vermont Yankee from the provision requiring legislative approval of new 27 28 dry cask storage facilities codified at section 6501(a), did not apply to Entergy. As a result, the 29 decision regarding whether to permit Entergy to build additional spent nuclear fuel storage facilities was vested in the Vermont Legislature. Unlike a decision of the Board, which would be 30 31 subject to review by the Vermont Supreme Court, the Vermont Legislature's decision not to

authorize the construction of new storage facilities – even those already approved by the NRC, as
 in this case – would be unreviewable.

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The reasons for the statute articulated in Act 74's legislative findings section mirror many 4 of those offered in the preamble to Act 160. For instance, section 6521 expresses the State's goal 5 of making its "future power supply . . . diverse, reliable, economically sound, and 6 7 environmentally sustainable." Vt. Stat. Ann. tit. 10, § 6521(3). The statute also emphasizes the State's need "to make a smooth transition to the future," which requires accelerating "Vermont's 8 investment in electricity resources that are economically and environmentally sound and that can 9 be acquired in modest increments." Id. § 6521(4). To make this "transition," the statute states, 10 "there is a great value in investing in renewable energy sources, efficient, combined heat and 11 power facilities, and energy efficiency." Id. § 6521(5). 12

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These statements of legislative purpose reflect the two policy interests Vermont argues 14 are advanced by Act 160: (1) increased use of a diverse array of renewable power sources; and 15 (2) promotion of energy sources that are more cost-effective. For the reasons discussed above, 16 we believe that neither of these interests is plausibly served by Act 74's conferring unreviewable 17 power over the continued operation of Vermont Yankee past March 21, 2012, on the Vermont 18 Legislature. In addition, the regulations relating to radiological safety incorporated into Act 74 19 20 from the 2005 MOU demonstrate that the Vermont Legislature's primary motivation in enacting Act 74 relates to neither diversifying the State's power supply nor reducing costs. We therefore 21 22 turn to the legislative history behind Act 74 to determine the actual intent motivating its passage.

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24 As with Act 160, we find that the district court's comprehensive review of the legislative history demonstrates convincingly that Act 74 was motivated by impermissible concerns about 25 26 the radiological safety of spent nuclear fuel storage. We note again the frequency with which concerns about radiological safety appear in the legislative record in Senate committee meetings 27 28 and floor debates from legislators and regulators, notwithstanding obvious and frequent attempts to avoid specific mention of safety concerns and of deference to Pacific Gas. In hearings of the 29 House Natural Resources Committee considering the bill that would become Act 74, for 30 example, representatives asked numerous questions about the relative safety of spent nuclear fuel 31

storage methods Entergy was considering and heard testimony questioning the competence of the 1 NRC to evaluate safety. One witness described the legislative "problem that we're dealing with 2 3 here [is] that a lot of the concerns that citizens have are concerns that you can't address directly the way they want them to be addressed." Several representatives asked questions about the 4 dangers posed by an accidental release of radioactive waste. One member of the committee 5 admonished another for referring to radiological safety, stating, "but we can't say that, anything 6 7 about safety. It can only be about economics and aesthetics." A member of the Department expressed the same sentiment and advised a representative to frame his questions about the value 8 of maintaining Vermont Yankee as an "aesthetic issue," rather than one concerned with safety. In 9 a concluding committee meeting on the bill, one representative praised the committee's work to 10 ensure that "the findings have been emasculated and sanitized," noting that the bill no longer 11 makes any "mention of high-level nuclear waste" or "the fact that [nuclear waste] lasts, it's 12 dangerous for 100,000 years." During the subsequent floor debate on Act 74, one senator stated 13 candidly, "none of us wants to have nuclear waste stored on the soil of Vermont.... The reality 14 is that [Vermont Yankee] will require some temporary storage . . . in order to [e]nsure safety for 15 16 our environment." Other speeches adverted to the problem of storing radioactive nuclear waste in Vermont while the federal government worked on developing a long-term storage facility, and to 17 18 the need to ensure that the method of waste storage employed by Vermont Yankee was safe. As with our analysis of Act 160, the deficiencies in the record-keeping of Vermont legislative 19 20 history, as well as the obvious coaching of Vermont legislators to avoid explicit statements about nuclear safety, make our task in determining the principal purpose of Act 74 more difficult. 21 22 Nonetheless, this does not make our task less important, and the volume, frequency, and content of the legislators' comments show clearly that their actions were motivated by preempted safety 23 24 concerns.

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The record also contains several statements by state legislators about the value of assigning their concerns regarding radiological safety to the 2005 MOU, which required Entergy to take several actions specifically addressing radiological safety. *In re Entergy Nuclear Vt. Yankee, LLC*, 2006 WL 1418626, at *48.³¹ During a meeting of the Senate Natural Resources

 $^{^{31}}$ As previously discussed, sections 6522(b)(4) and 6523(a)(1)(A) sweep all MOUs executed before July 1, 2005, into the ambit of Act 74, including the MOU executed on June 21, 2005.

Committee, for example, the State's legislative council remarked that an earlier draft of Act 74 1 contained a "laundry list of [nuclear-waste] cask-related issues . . . [that] are now covered by the 2 3 [2005] MOU." A member of the Department testified that "the federal government takes jurisdiction over any radiological safety and health. And so anything that touched on that, it's 4 better to have in an agreed upon MOU than to have in the bill itself." Other legislators echoed 5 this sentiment at several other junctures. On the Senate floor, one senator stated explicitly that a 6 favorable aspect of Act 74 was that it left regulations relating to radiological safety to the 2005 7 MOU entered into by Entergy and the Department, which, the senator believed, could save Act 8 74 from a preemption challenge.³² Indeed, the 2005 MOU endorsed by Act 74 includes a 9 provision under which Entergy "waived" any right to bring a preemption challenge to the 10 Board's authority to regulate Vermont Yankee, which clearly demonstrates the concern of the 11 Vermont Legislature and the Board as to whether their actions would withstand scrutiny under 12 the Atomic Energy Act and Pacific Gas.³³ 13

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These statements demonstrate the Vermont Legislature's impermissible motive in passing 15 16 Act 74 – namely, to shut down Vermont Yankee based on concerns of radiological safety while attempting to avoid a preemption challenge under Pacific Gas. Vermont legislators and 17 regulators attempted to achieve this objective by shifting provisions regarding radiological safety 18 into the 2005 MOU and by creating an unreviewable mechanism by which the construction of 19 20 new spent nuclear fuel storage facilities based on safety concerns would not be authorized. This is a legislative approach that Pacific Gas does not permit. We therefore also affirm the district 21 22 court's judgment that sections 6522(c)(2) and 6522(c)(4) of title 10 of the Vermont Statutes, as enacted by Act 74, are preempted on their face by the Atomic Energy Act. For the reasons 23 24 discussed above regarding Act 160, we also affirm the district court's grant of a permanent

³² Our concerns regarding the intent behind Act 74 are consistent with a recent opinion of the Federal Circuit, which examined the provision in the 2005 MOU requiring that Entergy perform an analysis of the stability of the river bank near a proposed spent nuclear storage facility "due to the perceived inadequacies of a previously performed NRC-required flood analysis." *Vt. Yankee Nuclear Power Corp. v. Entergy Nuclear Vt. Yankee, LLC*, 683 F.3d 1330, 1349 (Fed. Cir. 2012). The Federal Circuit noted that "because the requirement to perform an additional analysis was directly motivated by safety concerns, it is clear that the flood analysis requirement was likely preempted under *Pacific Gas.*" *Id.*

³³ We cite this provision of the 2005 MOU not for the purpose of ruling on whether a party may validly waive the right to bring a preemption challenge, but only to demonstrate the impermissible intent on the part of the Vermont Legislature. *But see Olympic Pipe Line Co. v. City of Seattle*, 437 F.3d 872, 883 (9th Cir. 2006) ("Preemption is a power of the federal government, not an individual right of a third party that the party can 'waive.' [The plaintiff] could not, therefore, waive a right that it did not possess.").

injunction enjoining the defendants from enforcing sections 6522(c)(2) or 6522(c)(4) of the
 Vermont Statutes.

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In conducting this analysis of Acts 74 and 160 and their adoption, we are mindful of the 6 7 traditional "presumption against preemption with respect to areas where states have historically exercised their police powers." N.Y. SMSA Ltd. P'ship, 612 F.3d at 104. Vermont would have us 8 9 conclude that Acts 74 and 160 are merely "process statutes" that simply reallocate the responsibility for approving the continued operation of Vermont Yankee from an administrative 10 agency to the state legislature. Indeed, Justice Brandeis once observed that the "franchise to 11 operate a public utility . . . is a special privilege which . . . may be granted or withheld at the 12 pleasure of the state." Frost v. Corp. Comm'n, 278 U.S. 515, 534 (1929) (Brandeis, J., 13 dissenting). Vermont further contends that it enacted Acts 74 and 160 on several bases, such as 14 diversifying the state's power supply and controlling economic costs, that, if true, would surely 15 be permissible reasons to deny the construction of a nuclear power plant. See Pacific Gas, 461 16 U.S. at 211. However, the Supreme Court has instructed us that the regulation of nuclear power 17 is different from the "areas where states have historically exercised their police powers." N.Y. 18 SMSA Ltd. P'ship, 612 F.3d at 104. "The federal government has occupied the entire field of 19 20 nuclear safety concerns, except the limited powers expressly ceded to the states." Silkwood, 464 U.S. at 249 (internal quotation marks and alteration omitted). We have conducted a review that 21 reflects the Supreme Court's specific directive that a "state judgment that nuclear power is not 22 safe enough to be further developed would conflict directly with the countervailing judgment of 23 24 the NRC . . . and would be preempted for that reason." Pacific Gas, 461 U.S. at 212. We conclude that Vermont legislators and regulators have undertaken a sustained effort to shut down 25 Vermont Yankee based on this impermissible reason. 26

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We have considered the legislative history behind Acts 74 and 160 – undertaken in large part through the district court's exhaustive examination of audiotape recordings – and found that it contains innumerable expressions of concern for radiological safety from Vermont legislators

and regulators.³⁴ We have taken note of the fact that the Vermont Legislature began considering 1 the bill that would become Act 160 – requiring Entergy to seek legislative approval to operate 2 3 Vermont Yankee past 2012 – only one week after Entergy applied to the NRC for an extension of its operating license. We have observed that witnesses at committee meetings, legislators, 4 executive officials, and regulators were obviously coached to avoid making references to 5 radiological safety to navigate the shoals of Pacific Gas. We have sought to reconcile the 6 rationales proffered by the Vermont Legislature for Acts 74 and 160 with those Acts' operative 7 effects and found them to be untethered from Vermont Yankee's status as a merchant generator 8 and from the oversight already provided by the NRC. We have noted Vermont's efforts to evade 9 court review by shunting requirements that concern radiological safety to MOUs, which in turn 10 contain provisions requiring Entergy to "waive" its right to bring a preemption challenge in 11 court. We have concluded that Vermont shifted decision-making responsibility for approving the 12 continued operation of Vermont Yankee from the Board, whose decisions were subject to review 13 by the Vermont Supreme Court, to the Vermont Legislature, where no judicial review of its 14 action - or inaction - would be available. Providing an inadequate and misleading legislative 15 16 record, failing to provide plausible legislative rationales, and imposing impermissible safetyrelated obligations through non-statutory memoranda of understanding, do not and cannot shield 17 18 Acts 74 and 160 from this Court's review.

³⁴ We have limited our analysis to Acts 74 and 160 in light of the district court's determination that Entergy's challenge to Act 189 is moot, a ruling that neither party challenges. Moreover, we recognize that the legislative history of Act 189, which was passed after Act 160, is an imperfect indicator of the legislative intent behind Acts 74 and 160. See Pension Benefit Guar. Corp., 496 U.S. at 650. However, we nonetheless note that Act 189 directly regulates on the basis of radiological safety by requiring assessments of Vermont Yankee's electrical, emergency, primary containment, and heat removal systems, with periodic audits to be conducted by a public oversight panel. Act 189, §§ 3, 6. Furthermore, the legislative history behind Act 189 demonstrates that the purpose of the Act was to allow Vermont regulators to conduct an "independent safety inspection" of Vermont Yankee, in large part because Vermont legislators doubted the competence of the NRC. Several Vermont legislators also expressed concern that a nuclear accident could tarnish Vermont's "environmentally friendly" image. In addition, the testimony of Department commissioners and Vermont legislators contains familiar examples of coaching to avoid explicit references to radiological safety. Indeed, the committee chairperson drafting Act 189 specifically described the bill as a "reliability assessment because safety is not within our purview." Moreover, during a hearing of the House Natural Resources Committee, a member of the Department distributed a handout entitled, "Everything You Wanted to Ask About Preemption But Shouldn't," and provided testimony advising Vermont legislators on how to discuss Act 189 in a manner that disguised their concerns about radiological safety. Testimony presented to the Committee explicitly referenced Pacific Gas and recommended that Vermont legislators discuss closing Vermont Yankee because it caused non-radiological environmental problems or was "unreliable," so as to avoid a preemption challenge. During later hearings, legislators openly admonished each other for using the word "safety" and similar terms and expressed concerns over the prospect of preemption.

We do not question the legitimacy or sincerity of those Vermont residents and officials 1 who have safety-related concerns about Vermont Yankee, but Vermont has other avenues 2 3 available to air its concerns. For example, the Atomic Energy Act mandates that the NRC hold hearings - if requested by "any person whose interest may be affected" - when taking certain 4 actions relating to the licensing of a nuclear power plant. See Brodsky v. U.S. Nuclear Regulatory 5 Comm'n, 578 F.3d 175, 177-78 (2d Cir. 2009) (quoting 42 U.S.C. § 2239(a)(1)(A)). The NRC 6 7 has also promulgated regulations requiring a public notice-and-comment period before amending any aspect of a nuclear power plant's operating license. See 10 C.F.R. § 50.91. Lastly, "the 8 federal courts of appeals have exclusive jurisdiction to adjudicate appeals from 'all final orders 9 of the [NRC] made reviewable by section 2239 of title 42."" Riverkeeper, Inc. v. Collins, 359 10 F.3d 156, 164 (2d Cir. 2004) (quoting 28 U.S.C. § 2342(4)). Such reviewable final orders include 11 "all final orders in licensing proceedings whether or not a hearing before the [NRC] occurred or 12 could have occurred." Id. (quoting Fla. Power & Light Co. v. Lorion, 470 U.S. 729, 737 (1985)). 13 Vermont and its residents are free to pursue any of these routes to express their concerns 14 regarding the potential public safety hazards posed by Vermont Yankee. The legislation passed 15 16 here, however, was not the way to resolve those concerns.

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18 As the Supreme Court has held, the one avenue Vermont may not pursue is to pass a "state moratorium" on nuclear energy "grounded in safety concerns." Pacific Gas, 461 U.S. at 19 20 213. For this reason, we hold that sections 6522(c)(2) and 6522(c)(4) of title 10 of the Vermont Statutes and Act 160 in its entirety are preempted on their face by the Atomic Energy Act.³⁵ We 21 22 affirm the district court's grant of a permanent injunction enjoining the defendants from enforcing Act 160 or section 6522(c)(4) of title 10 of the Vermont Statutes, as enacted by Act 74. 23 24 Entergy Nuclear, 838 F. Supp. 2d at 243. We also affirm the district court's subsequent order of March 19, 2012, enjoining the defendants from enforcing section 6522(c)(2) of title 10 of the 25 Vermont Statutes. 26

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³⁵ We agree with the district court's determination that Entergy's initial challenge to Act 189 is moot, as Entergy has already completed the studies of Vermont Yankee's safety systems required by the statute, and the results have been reported to the Vermont Legislature. In addition, because we hold that Act 160 is preempted by the Atomic Energy Act, the Board will no longer be able to consider the studies mandated by Act 189. *See Entergy Nuclear*, 838 F. Supp. 2d at 233.

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B. Dormant Commerce Clause Claim

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3 Entergy argues that Vermont's efforts to condition the approval of a new CPG for Vermont Yankee on the execution of a new PPA (to replace the 2001 PPA) represents a demand 4 "that Entergy provide more favorable rates to in-state than out-of-state retail utilities" in 5 6 contravention of the dormant Commerce Clause. The district court agreed, after examining 7 materials submitted by the Department to the Board, statements by state legislators and regulators during committee meetings, and floor debates in the Vermont Legislature advocating 8 for a new favorable PPA. Entergy Nuclear, 838 F. Supp. 2d at 236-39. The district court found 9 "evidence of intent to condition continued operation [of Vermont Yankee] on the demonstration 10 of some marked 'economic benefit,' or 'incremental value,' beyond that reflected in market rates 11 for long-term contracts, in the form of below-wholesale-market long-term power purchase 12 agreements for Vermont utilities." Id. at 236. The district court held that this conduct violated the 13 dormant Commerce Clause. Vermont argues, however, that the district court erred in issuing an 14 injunction on the basis of its finding mere intent on the part of the defendants to seek a favorable 15 PPA, and that the issue was therefore not ripe for judicial review. We agree. 16

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The "basic rationale" of the ripeness doctrine is to "prevent the courts, through avoidance 18 of premature adjudication, from entangling themselves in abstract disagreements over 19 20 administrative policies, and also to protect the agencies from judicial interference until an administrative decision has been formalized and its effects felt in a concrete way by the 21 challenging parties." Abbott Labs. v. Gardner, 387 U.S. 136, 148-49 (1967), overruled on other 22 grounds by Califano v. Sanders, 430 U.S. 99 (1977). Ripeness encompasses two overlapping 23 24 doctrines concerning the exercise of federal court jurisdiction. See Reno v. Catholic Soc. Servs., Inc., 509 U.S. 43, 57 n.18 (1993). The first of these is drawn from "Article III limitations on 25 judicial power," id., and "hence goes, in a fundamental way, to the existence of jurisdiction." 26 Simmonds v. INS, 326 F.3d 351, 357 (2d Cir. 2003). "The second is a more flexible doctrine of 27 judicial prudence, and constitutes an important exception to the usual rule that where jurisdiction 28 exists a federal court must exercise it." Id. In either case, "the question of ripeness may be 29 considered on a court's own motion." Nat'l Park Hospitality Ass'n v. Dep't of Interior, 538 U.S. 30 803, 808 (2003). 31

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"Constitutional ripeness is a doctrine that, like standing, is a limitation on the power of 2 3 the judiciary. It prevents courts from declaring the meaning of the law in a vacuum and from constructing generalized legal rules unless the resolution of an actual dispute requires it." N.Y. 4 *Civil Liberties Union v. Grandeau*, 528 F.3d 122, 131 (2d Cir. 2008) (internal quotation marks 5 omitted). The district court held that Vermont's efforts to secure favorable pricing for its in-state 6 7 retail utilities violated the prohibition discussed in New England Power Co. v. New Hampshire, 455 U.S. 331, 335-36 (1982), against providing "residents an 'economic benefit' not available to 8 9 customers in other states." Entergy Nuclear, 838 F. Supp. 2d at 239. However, we believe that the district court erred in applying this "generalized legal rule" in the absence of a fully-formed 10 PPA. 11

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The dormant Commerce Clause, a doctrine inferred from the Commerce Clause of the 13 United States Constitution, see U.S. Const. art. I, § 8 cl. 3, is a "restriction on permissible state 14 regulation." Hughes v. Oklahoma, 441 U.S. 322, 326 (1979). The dormant Commerce Clause 15 stands for the "principle that one state in its dealings with another may not place itself in a 16 position of economic isolation." H.P. Hood & Sons, Inc. v. DuMond, 336 U.S. 525, 538 (1949) 17 (internal quotation marks omitted). A state law may burden interstate commerce when it "has the 18 practical effect of requiring out-of-state commerce to be conducted at the regulating state's 19 20 direction." Am. Booksellers Found. v. Dean, 342 F.3d 96, 102 (2d Cir. 2003) (internal quotation marks omitted). When a statute "directly controls commerce occurring wholly outside the 21 boundaries of a State," it is invalid under the dormant Commerce Clause because it "exceeds the 22 inherent limits of the enacting State's authority." Healy v. Beer Inst., 491 U.S. 324, 336 (1989). 23 24 "The transmission of electric current from one state to another . . . is interstate commerce" subject to the Commerce Clause. Pub. Utils. Comm'n of R.I. v. Attleboro Steam & Elec. Co., 273 25 26 U.S. 83, 86 (1927), abrogated on other grounds by Quill Corp. v. North Dakota ex rel. Heitkamp, 504 U.S. 298 (1992). 27

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The district court largely based its conclusion on the Supreme Court's decision in *New England Power*, which considered an order of a New Hampshire regulatory commission prohibiting an in-state power plant from exporting some of its output to out-of-state retail utilities

in an effort to reduce prices for in-state consumers. 455 U.S. at 335-36. The Supreme Court 1 stated that the Commerce Clause "precludes a state from mandating that its residents be given a 2 3 preferred right of access, over out-of-state consumers, to natural resources located within its borders or to the products derived therefrom." Id. at 338. On this basis, the Court held that New 4 Hampshire's "exportation ban" constituted "precisely the sort of protectionist regulation that the 5 Commerce Clause declares off-limits to the states," because it was "designed to gain an 6 7 economic advantage for New Hampshire citizens at the expense of [the power plant's] customers in neighboring states." Id. at 339. 8

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The order at issue in New England Power did not violate the dormant Commerce Clause 10 simply because it conferred an economic benefit on New Hampshire residents, however. Rather, 11 by preventing a power plant from exporting its output to other states, the effect of the order was 12 to "overtly block[] the flow of interstate commerce at a State's borders." City of Phila. v. New 13 Jersev, 437 U.S. 617, 624 (1978). Such laws have "the undeniable effect of controlling 14 commercial activity occurring wholly outside the boundary of the State." Healy, 491 U.S. at 337. 15 "While a State may seek lower prices for its consumers, it may not insist that producers or 16 consumers in other States surrender whatever competitive advantages they may possess." Brown-17 Forman Distillers Corp. v. N.Y. State Liquor Auth., 476 U.S. 573, 580 (1986). Although the 18 record shows that Vermont was interested in obtaining favorable pricing for the power produced 19 20 by Vermont Yankee for Vermont retail utilities, it does not show that Vermont was also seeking to prevent retail utilities in other states from negotiating favorable rates with Entergy as well. Cf. 21 22 SPGGC, LLC v. Blumenthal, 505 F.3d 183, 194 (2d Cir. 2007) (holding that a statute prohibiting the in-state sale of certain types of "gift certificates" did not violate the dormant Commerce 23 24 Clause because it did "not, by its terms or its effects, directly regulate sales of gift cards in other states . . . [or] prevent other states from regulating gift card sales differently within their own 25 26 territories"). The record also does not demonstrate that Vermont sought to impose a "prohibition[] on out-of-state access to in-state resources," *Camps Newfound/Owatonna, Inc. v.* 27 28 Town of Harrison, Me., 520 U.S. 564, 578 (1997), by limiting the extent to which Vermont Yankee could sell power to other states, as was the case in New England Power. 29

At present, in the absence of a completed PPA and without evidence regarding its effect 1 2 on out-of-state power consumers, we cannot determine whether the PPA Vermont has sought 3 will have a direct impact on commerce in other states. We also do not have a factual record 4 concerning incidental effects of such an agreement on interstate commerce and the commensurate benefits of the agreement within Vermont. Entergy's claim cannot be 5 characterized as "purely legal" in that it "may be decided without further factual development." 6 Gary D. Peake Excavating Inc. v. Town Bd. of Town of Hancock, 93 F.3d 68, 72 (2d Cir. 1996). 7 This case therefore does not present a "concrete dispute affecting cognizable current concerns of 8 the parties within the meaning of Article III," and is therefore not "ripe within the constitutional 9 sense." Ehrenfeld v. Mahfouz, 489 F.3d 542, 546 (2d Cir. 2007) (internal quotation marks 10 omitted). 11

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Of course, we do not suggest that any PPA providing favorable pricing for Vermont 13 residents would pass muster under the dormant Commerce Clause. A regulation that "evinces" 14 discriminatory purpose against interstate commerce, "or unambiguously discriminates in its 15 effect . . . almost always is 'invalid per se." Brown & Williamson Tobacco Corp. v. Pataki, 320 16 F.3d 200, 209 (2d Cir. 2003) (quoting Nat'l Elec. Mfrs. Ass'n v. Sorrell, 272 F.3d 104, 108 (2d 17 Cir. 2001)). For example, an agreement requiring Entergy "to seek regulatory approval in 18 [Vermont] before undertaking a transaction in another" state would likely be *per se* invalid under 19 20 the dormant Commerce Clause. Brown-Forman, 476 U.S. at 582; see also Baldwin v. G.A.F. Seelig, Inc., 294 U.S. 511, 521 (1935) (holding that one state "has no power to project its 21 22 legislation into [another state] by regulating the price to be paid in that state for [products] acquired there"). It is also likely that Vermont could not require Entergy to "affirm that [its] 23 24 prices are no higher than the prices being charged in [other] states." Healy, 491 U.S. at 335. An agreement requiring Vermont Yankee to allot a certain percentage of it output to satisfy local 25 demand would also likely violate the dormant Commerce Clause. See New Eng. Power, 455 U.S. 26 at 338-39.³⁶ Finally, we note that a facially-neutral statute that imposes an incidental "burden on 27 interstate commerce incommensurate with the local benefits secured," Nat'l Elec. Mfrs. Ass'n, 28

³⁶ Agreements of this nature would be "scrutinized strictly, *i.e.*, 'the burden falls on the State to justify [the discrimination] both in terms of the local benefits flowing from the statute and the unavailability of nondiscriminatory alternatives adequate to preserve the local interests at stake." *Brown & Williamson*, 320 F.3d at 209 (quoting *Hunt v. Wash. State Apple Advertising Comm'n*, 432 U.S. 333, 353 (1977)).

272 F.3d at 108, would fail the balancing test articulated by the Supreme Court in *Pike v. Bruce Church, Inc.*, 397 U.S. 137, 142 (1970).³⁷

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However, no agreement is before us. Accordingly, the analysis required under the 4 dormant Commerce Clause may not be performed, and so Entergy's claim is unripe at this time. 5 Cf. Middle S. Energy, Inc. v. City of New Orleans, 800 F.2d 488, 491 (5th Cir. 1986) ("When and 6 how the Council exercises its option, if it ever does, are the critical determinants of the propriety 7 of federal court jurisdiction over this matter. Until the City Council actually votes to exercise the 8 purchase option, we must be careful to 'avoid imposition under [our] jurisdiction through 9 obtaining futile or premature interventions, especially in the field of public law." (quoting Pub. 10 Serv. Comm'n of Utah v. Wycoff Co., 344 U.S. 237, 243 (1952))). We therefore vacate the 11 district court's grant of a permanent injunction enjoining the defendants from conditioning a new 12 CPG for Vermont Yankee on the execution of a favorable PPA.³⁸ 13

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C. Federal Power Act Claim

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Under the Federal Power Act, FERC has jurisdiction over "the transmission of electric 17 energy in interstate commerce and . . . the sale of electric energy at wholesale in interstate 18 commerce." 16 U.S.C. § 824(b)(1). FERC's authority includes "exclusive jurisdiction over the 19 20 rates to be charged [a utility's] interstate wholesale customers." Nantahala Power & Light Co. v. Thornburg, 476 U.S. 953, 966 (1986). This authority is exclusive, "without regard to the source 21 of production." New Eng. Power, 455 U.S. at 340. After a rate has been approved by FERC, "a 22 State may not conclude in setting retail rates that the FERC-approved wholesale rates are 23 24 unreasonable. A State must rather give effect to Congress' desire to give FERC plenary authority

³⁷ A statute or regulation would discriminate against commerce itself when the statute

⁽i) shifts the costs of regulation onto other states, permitting in-state lawmakers to avoid the costs of their political decisions, (ii) has the practical effect of requiring out-of-state commerce to be conducted at the regulating state's direction, or (iii) alters the interstate flow of the goods in question, as distinct from the impact on companies trading in those goods.

Am. Booksellers Found. v. Dean, 342 F.3d 96, 102 (2d Cir. 2003) (internal quotation marks omitted).

³⁸ Because we vacate the district court's grant of an injunction regarding Entergy's dormant Commerce Clause claim, we need not address the question of whether Entergy's suit sought to enjoin the proper officials under *Ex Parte Young*, 209 U.S. 123 (1908), and *Verizon Maryland Inc. v. Public Service Commission of Maryland*, 535 U.S. 635 (2002).

over interstate wholesale rates, and to ensure that the States do not interfere with this authority." 1 Nantahala, 476 U.S. at 966. Under the filed-rate doctrine, "the right to a reasonable rate is the 2 3 right to the rate which [FERC] files or fixes, and that, except for review of [FERC's] orders, the courts can assume no right to a different one on the ground that, in its opinion, it is the only or 4 the more reasonable one." Mont.-Dakota Utils. Co. v. Nw. Pub. Serv. Co., 341 U.S. 246, 251-52 5 (1951). The filed-rate doctrine applies with equal force to federal and state courts. See Ark. La. 6 7 Gas Co. v. Hall, 453 U.S. 571, 581-82 (1981). The filed-rate doctrine also applies to efforts by state regulators to modify the terms of a FERC-mandated rate determination or cost allocation. 8 See Entergy La., Inc. v. La. Pub. Serv. Comm'n, 539 U.S. 39, 47-49 (2003). 9

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In recent years, FERC has "encouraged transmission providers to establish 'Regional 11 Transmission Organizations' - entities to which transmission providers would transfer 12 operational control of their facilities for the purpose of efficient coordination." Morgan Stanley 13 Capital Grp., 554 U.S. at 536. Regional transmission organizations (RTOs), in turn, are managed 14 by "independent system operators" (ISOs), which are nonprofit entities that coordinate the 15 transmission of power and auctions for energy across regional markets. Id. at 536-37 (citing 16 Midwest ISO Transmission Owners, 373 F.3d at 1364). To accommodate the development of 17 regional power markets, FERC "has begun to permit sellers of wholesale electricity to file 18 'market-based' tariffs," which, "instead of setting forth rate schedules or rate-fixing contracts, 19 20 simply state that the seller will enter into freely negotiated contracts with purchasers." Id. at 537. In Simon v. KeySpan Corp., we held that there was "no need for us to decide whether the filed 21 rate doctrine always applies to market-based auction rates." 694 F.3d 196, 204-05 (2d Cir. 2012). 22 However, when the doctrine does apply, as when the auction process for establishing market-23 24 based rates is adequately safeguarded by FERC, a plaintiff's claim that the rates for energy are unreasonable is barred by the filed-rate doctrine. Id. at 207-08. 25

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Entergy argues that Vermont's efforts to obtain a favorable PPA violate the market-based tariff approved by FERC for the New England regional wholesale market. According to Entergy, capping the prices it can charge Vermont residents would interfere with the rates FERC has approved for the market, and so the PPA is "preempted" under the filed-rate doctrine. However, the market-based tariff approved by FERC for Vermont Yankee states only that Entergy "may sell electric energy and capacity from time to time at rates, terms and conditions established by
agreement with the purchaser . . . All such transactions shall be voluntary." The market-based
tariff's only other guidance on rates is that "[a]ll sales shall be made at rates established by
agreement between the purchaser and Entergy Nuclear VY."

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We agree with the district court's determination that this claim is not ripe. In addition to 6 7 the fact that a new favorable PPA has not yet been executed, Entergy has not sought a determination from FERC about whether the terms of such a PPA would violate the market-8 based tariff.³⁹ Because FERC has the exclusive jurisdiction to "determine just and reasonable 9 wholesale rates or to insure that agreements affecting wholesale rates are reasonable," Entergy's 10 recourse should be first to FERC to determine whether the PPA - if and when executed -11 complies with this standard. See Miss. Power & Light Co. v. Miss. ex rel. Moore, 487 U.S. 354, 12 374 (1988); see also In re Permian Basin Area Rate Cases, 390 U.S. 747, 767 (1968) ("[C]ourts 13 are without authority to set aside any rate *selected by the Commission* which is within a 'zone of 14 reasonableness."" (quoting Fed. Power Comm'n v. Natural Gas Pipeline Co. of Am., 315 U.S. 15 575, 585 (1942)) (emphasis added)); Pub. Util. Dist. No. 1 of Snohomish Cnty. v. Dynergy Power 16 Mktg., Inc., 384 F.3d 756, 761-62 (9th Cir. 2004) (holding that a utility may not seek injunctive 17 18 relief alleging manipulation of FERC-approved market based tariffs because doing so would "encroach[] upon the substantive provisions of the tariff, an area reserved exclusively to FERC, 19 20 both to enforce and to seek remedy" (internal quotation marks omitted)); Cal. Pub. Utils. *Comm'n*, 132 FERC ¶ 61,047, at *17 ("The Commission's authority under the [Federal Power 21 22 Act] includes the *exclusive jurisdiction* to regulate the rates, terms and conditions of sales for resale of electric energy in interstate commerce by public utilities." (emphasis added)), *clarified* 23 24 on reh'g, 133 FERC ¶ 61,059 (2010). We therefore agree with the district court that Entergy's claim under Count Two is unripe at the present time. Entergy Nuclear, 838 F. Supp. 2d at 234-25 35. 26

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³⁹ Entergy also has not offered an explanation for why it did not seek review of the 2001 PPA before FERC, and the record does not reveal any prior attempts to do so. Nonetheless, FERC's "passive permission for a rate to go into effect does not constitute a finding that the rate is just and reasonable," as required by the Federal Power Act pursuant to 16 U.S.C. § 824d(a). *See Morgan Stanley Capital Grp.*, 554 U.S. at 546.

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CONCLUSION

3 For the reasons stated above, we AFFIRM the district court's grant of a declaratory judgment that Act 74 and Act 160 are facially preempted by the Atomic Energy Act. We 4 REVERSE the district court's determination that Vermont's efforts to condition a new 5 Certificate of Public Good for Vermont Yankee on the execution of a favorable power purchase 6 7 agreement violate the dormant Commerce Clause. We AFFIRM the district court's determination that Entergy's challenge under the Federal Power Act is unripe. We AFFIRM the district court's 8 grant of a permanent injunction enjoining the defendants from enforcing sections 6522(c)(2) or 9 6522(c)(4) in title 10 of the Vermont Statutes, as enacted by Act 74, or sections 248(e)(2), 10 248(m), or 254 in title 30 of the Vermont Statutes, as enacted by Act 160. Finally, we VACATE 11 the district court's permanent injunction enjoining the defendants from conditioning the issuance 12 of a Certificate of Public Good on the execution of a below-wholesale-market power purchase 13 agreement between Entergy and Vermont utilities or otherwise requiring Vermont Yankee to sell 14 power to Vermont utilities at preferential rates. 15

SUSAN L. CARNEY, Circuit Judge, concurring:

I concur, reluctantly, in the majority's detailed and carefully reasoned opinion striking down Vermont Acts 74 and 160. My reluctance stems not from any flaw in the majority's analysis, but rather from my concern that Congress, in enacting the Atomic Energy Act ("AEA"), did not intend the result we reach. Rather, we are led to our conclusion principally by an expansive gloss on the preemptive scope of the AEA first set forth in <u>Pacific Gas & Electric Co. v. State</u> <u>Energy Resources Conservation & Development Commission</u>, 461 U.S. 190 (1983) ("<u>Pacific Gas</u>"). There, the Supreme Court instructed that "[a] state moratorium on nuclear construction grounded in safety concerns falls squarely within the prohibited field" and would therefore be preempted. <u>Id.</u> at 213 (emphasis added).

As Judge Droney persuasively demonstrates, the State legislative record before us is "replete with references to radiological safety." Maj. Op. at 37. No reader of this record can fairly claim that the statutes at issue were not "grounded in safety concerns." <u>Pacific Gas</u>, 461 U.S. at 213. Acts 74 and 160 therefore run afoul of the dictate of <u>Pacific Gas</u>.

And yet, in <u>Pacific Gas</u>, the Court *upheld* a State moratorium on the construction of nuclear power plants, declining to look too closely at the State's motivation. Cognizant of that setting, we might feel free to discount the "grounded in safety concerns" phrase as merely a stray comment. But it undeniably captures the full thrust of the Court's opinion: in <u>Pacific Gas</u>, the Court stressed that "[a] state prohibition on nuclear construction for safety reasons would . . . be *in the teeth*

of the Atomic Energy Act's objective to insure that nuclear technology be safe enough for widespread development and use—and would be preempted for that reason." Id. at 213 (emphasis added). And the <u>Pacific Gas</u> majority pointedly declined to accept the more tailored view of the preempted field offered by Justice Blackmun in concurrence, when he suggested instead that "Congress has occupied not the broad field of 'nuclear safety concerns,' but only the narrower area of how a nuclear plant should be constructed and operated to protect against radiation hazards." Id. at 224. Furthermore, not long after, in both <u>Silkwood v. Kerr-McGee</u> <u>Corp.</u>, 464 U.S. 238 (1984), and <u>English v. General Electric Co.</u>, 496 U.S. 72 (1990), the Court reiterated its allegiance to the preemption contours it drew in <u>Pacific Gas</u>.

I write separately to emphasize that it is principally the judicial phrase "grounded in safety concerns," and not the Court's holdings or the text of the Atomic Energy Act, that compels us to strike down Vermont's statutes. Particularly in the context of a Congressional enactment that contains protection for State and local interests, 42 U.S.C. § 2018, and indeed invites State-Federal cooperation, <u>id.</u> § 2021, it seems anomalous to conclude that nothing more than the Vermont legislature's expression of concern about nuclear safety is needed to invalidate these largely procedural statutes.

As the Court recently observed, "Federalism, central to the constitutional design, adopts the principle that both the National and State Governments have elements of sovereignty the other is bound to respect." <u>Arizona v. United States</u>, 132 S.Ct. 2492, 2500 (2012). The "[n]eed for new power facilities, their economic

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feasibility, and rates and services, are areas that have been characteristically governed by the States." Pacific Gas, 461 U.S. 205; see also Frost v. Corp. Comm'n, 278 U.S. 515, 534 (1929) ("[A] franchise to operate a public utility is not like the general right to engage in a lawful business. . . [but] is of the essence of a special privilege that . . . may be granted or withheld at the pleasure of the state") (Brandeis, J., dissenting). Repeatedly, we have held that we will not find a federal statute to supersede a State's exercise of its the historic police powers "unless it was 'the clear and manifest purpose of Congress' to do so." N.Y. SMSA Ltd. P'ship v. Town of Clarkstown, 612 F.3d 97, 104 (2d Cir. 2010) (per curiam) (quoting Wyeth v. Levine, 555 U.S. 555, 565 (2009)). But the outcome we reach today does not, to my mind, reflect a "clear and manifest purpose of Congress." Based primarily on Vermont's general concern for safety and public health rather than on any finding that its statutes actually intrude on the field of radiological safety, our decision seems to me to invite a reconsideration—one that our Court is not free to undertake-of the preemptive boundaries set in Pacific Gas.

In thinking about preemption in the AEA context, it is important to distinguish between two categories of State laws. The first consists of State laws that impose concrete safety requirements other than those imposed by the Nuclear Regulatory Commission ("NRC"). A State requirement that nuclear power plants use a particular type of backup generator or a particular method of protecting against leaks falls within this category. The second category consists of State laws that do not in their language or operation intrude upon the field of radiological

safety. A legislative decision to permit plant construction or to deny continued operation of a plant at the expiration of a license period, for example, would fall into this category.

I have no doubt that Congress intended to preempt State laws that fall within the first category. See Pacific Gas, 461 U.S. at 211-12. But I am less convinced that Congress intended to foreclose States from enacting laws that fall within the second category. After all, the AEA—while expressing a federal intent to support the introduction of nuclear power—does not require any State to host nuclear power plants. Id. at 205 ("Even a brief perusal of the [AEA] reveals that, despite its comprehensiveness, it does not at any point expressly require the States to construct or authorize nuclear powerplants or prohibit the States from deciding, as an absolute or conditional matter, not to permit the construction of any further reactors."). Indeed, in Pacific Gas the Court seemed to recognize the possibility that, consistent with the AEA, a State that once agreed to the construction of a nuclear plant within its borders might, at an appropriate inflection point, change course. Id. at 223 ("[T]he legal reality remains that Congress has left sufficient authority in the States to allow the development of nuclear power to be slowed or even stopped for economic reasons.").

Acts 74 and 160 fall within the second category of State laws. They alter the State's decision-making process with respect to the plant. To be sure, in requiring that Vermont Yankee obtain State legislative approval before it may continue operations, they place the State legislature in a position to foil judicial review of its

decision. Maj. Op. at 44. They may thereby enable the State to reject the plant's bid for a new operating license based on an amalgam of concerns, including general safety concerns, or general safety concerns alone. They do not, however, impose any safety requirements at all on the plant. To the extent Act 74 incorporates a memorandum of understanding that imposes safety-related requirements on Vermont Yankee relating to cask storage, it is clearly preempted. The presence of these few requirements, however, serves to highlight the limited scope of the remaining provisions of the Acts.

The AEA does not commit every decision related to the generation of nuclear power to the federal government; rather, it provides for "the dual regulation of nuclear-powered electricity." <u>Pacific Gas</u>, 461 U.S. at 211-212. Under the AEA's approach, the federal government "maintains complete control of the safety and 'nuclear' aspects of energy generation" while the States "exercise their traditional authority over the need for additional generating capacity, *the type of generating facilities to be licensed*, land use, ratemaking, and the like." <u>Id.</u> at 212 (emphasis added). Indeed, the AEA expressly provides that "[n]othing in this chapter shall be construed to affect the authority or regulations of any Federal, State or local agency with respect to the generation, sale, or transmission of electric power produced through the use of nuclear facilities licensed by the [NRC]." 42 U.S.C. § 2018; <u>see</u> <u>also</u> 42 U.S.C. § 2021(k) ("Nothing in this section shall be construed to affect the authority of any State or local agency to regulate activities for purposes other than protection against radiation hazards."). This text strongly suggests Congress's intent that the States retain authority to determine whether nuclear power, or energy from alternative sources, should be generated within their borders.

This conclusion is buttressed by what Congress *omitted* from the AEA. As mentioned, the AEA does not, either in its text or as the Supreme Court has construed it, force a State to approve the construction of a nuclear power plant. Pacific Gas, 461 U.S. at 205. Nor does the AEA, either in its text or as construed, force a State to permit the continued operation of a nuclear power plant whose State-issued operating license has expired. Id. This is so even where the NRC has renewed the plant's federally-issued operating license. See, e.g., Nuclear Regulatory Commission Report Regarding Vermont Yankee Nuclear Power Station, NUREG-1437, Supp. 30, Vol. 1 at § 1.4 (Aug. 2007) ("Once an OL [Operating] License] is renewed [by the NRC], State regulatory agencies and the owners of the plant will ultimately decide whether the plant will continue to operate based on factors such as the need for power or other matters within the State's jurisdiction or the purview of the owners.... [T]he NRC does not have a role in the energyplanning decisions of State regulators and utility officials as to whether a particular nuclear power plant should continue to operate.").

The parties have not directed our attention to any case in which the Supreme Court has struck down a State statute or tort judgment on AEA preemption. In <u>Pacific Gas</u>, 461 U.S. at 222-23, the Court upheld California's moratorium on nuclear construction, accepting, in the face of competing explanations, California's avowed financial concerns as the rationale for the legislation. In <u>Silkwood v. Kerr-</u>

<u>McGee Corp.</u>, 464 U.S. 238, 249 (1984), the Court found that a "state-authorized award of punitive damages" against the operator of a nuclear power plant for contamination-related injuries did not "fall[] within the prohibited field." And in <u>English v. General Electric Co.</u>, 496 U.S. 72, 86 (1990), the Court concluded that the AEA did not preempt a state-law claim for intentional infliction of emotional distress brought against the operator of a nuclear power plant and arising out of perceived violations of nuclear-safety standards.

Further, as a practical matter, it seems impossible to divorce safety concerns from any State legislature's consideration of whether to allow, or continue to allow, the generation of nuclear power within its borders. Even legislation that is ostensibly oriented solely to economic concerns-and therefore within the AEA's savings clause as interpreted in Pacific Gas-can be expected to have some bearing on plant safety. But this should not doom the statute. As Justice Blackmun wrote in his Pacific Gas concurrence, "There is no evidence that Congress had a 'clear and manifest purpose' to force States to be blind to whatever special dangers are posed by nuclear plants." 461 U.S. at 225 (citation omitted). To conclude that State legislative history reflecting concern—even a primary concern, Maj. Op. at 35 about nuclear safety is enough to invalidate a statute, even absent an actual conflict with federal regulatory requirements or meaningful intrusion into the field, could effectively disable the States from enacting legislation in the realm of nuclear energy production. I am aware of no basis for concluding that Congress made such a choice.

Placing decisive emphasis on motivation to the exclusion of impact, as we do here, also creates an irresistible incentive for States to do their best to mask their concerns about safety. Further, the prominence of safety concerns in the record before us regrettably overshadows the legislature's attempt to address economic issues, ones that the AEA's savings clause protects. The original rationale supporting the savings clause's protection for State economic legislation, <u>see Pacific Gas</u>, 461 U.S. at 207, may have been undermined by the advent of the "merchant generator," <u>see</u> Maj. Op. at 25-26. But, while Vermont Yankee provides energy across State lines, only the citizens of Vermont are faced with the fiscal consequences of the adequacy or inadequacy of Entergy's provisions to address potential financial dissolution. To rule that concern for safety is fatal to a State's legislative initiatives is to disable the States from legislating within their borders to respond to the legitimate economic concerns of their citizens.

Thus, like the construction moratorium upheld in <u>Pacific Gas</u>, the statutes before us "do[] not seek to regulate the construction or operation of a nuclear power plant." 461 U.S. at 212. Unfortunately for Vermont, our analysis cannot end there. As discussed above, under <u>Pacific Gas</u>, "[a] state moratorium on nuclear construction grounded in safety concerns falls squarely within the prohibited field." <u>Id.</u> at 213. Were I writing on a blank slate, I would be inclined to conclude that a State's concerns for safety do not preempt its efforts to change its decision-making process or its ultimate decision, at a natural inflection point in the life of a nuclear power plant, that it no longer wishes the plant to operate within its borders. But there is no avoiding the Supreme Court's teachings in <u>Pacific Gas</u>. The statutes before us are preempted, and I therefore must concur.