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6 THE FISCAL YEAR 2025 NUCLEAR REGULATORY COMMISSION BUDGET

7 TUESDAY, JULY 23, 2024

8 House of Representatives,

9 Subcommittee on Energy, Climate, and Grid Security,

10 Committee on Energy and Commerce,

11 Washington, D.C.

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15 The Subcommittee met, pursuant to call, at 10:01 a.m. in  
16 Room 2123, Rayburn House Office Building, Hon. Jeff Duncan  
17 [Chairman of the Subcommittee], presiding.

18 Present: Representatives Duncan, Burgess, Latta,  
19 Guthrie, Griffith, Bucshon, Walberg, Palmer, Curtis, Lesko,  
20 Weber, Allen, Balderson, Pfluger, Rodgers (ex officio);  
21 DeGette, Peters, Fletcher, Matsui, Tonko, Veasey, Kuster,

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22 Schrier, Castor, Sarbanes, Cardenas, and Pallone (ex  
23 officio).

24 Also present: Representatives Carter, Joyce; and  
25 Miller-Meeks.

26 Staff Present: Sarah Burke, Deputy Staff Director; Nick  
27 Crocker, Senior Advisor and Director of Coalitions; Sydney  
28 Greene, Director of Operations; Nate Hodson, Staff Director;  
29 Tara Hupman, Chief Counsel; Sean Kelly, Press Secretary;  
30 Peter Kielty, General Counsel; Emily King, Member Services  
31 Director; Elise Krekorian, Counsel; Mary Martin, Chief  
32 Counsel; Brandon Mooney, Deputy Chief Counsel; Kaitlyn  
33 Peterson, Clerk; Karli Plucker, Director of Operations  
34 (shared staff); Peter Spencer, Senior Professional Staff  
35 Member; Dray Thorne, Director of Information Technology;  
36 Waverly Gordon, Minority Deputy Staff Director and General  
37 Counsel; Tiffany Guarascio, Minority Staff Director; Margaret  
38 McConville, Minority Press Intern; Sanjana Miryala, Minority  
39 Intern; Kristopher Pittard, Minority Professional Staff  
40 Member; Emma Roehrig, Minority Staff Assistant; Kylea Rogers,  
41 Minority Policy Analyst; Andrew Souvall, Minority Director of  
42 Communications, Outreach, and Member Services; Tuley Wright,

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43    Minority Staff Director, Energy, Climate, and Grid Security;  
44    and C.J. Young, Minority Deputy Communications Director.  
45

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46           \*Mr. Duncan. The Subcommittee on Energy, Climate, and  
47 Grid Security will now come to order.

48           The chair recognizes himself for five minutes for an  
49 opening statement.

50           So good morning. I want to welcome all the new hires at  
51 NRC in the back of the room. I spoke to them earlier, and  
52 welcome to this hearing. I hope it is informative and that  
53 you take some lessons from this today and apply it as you go  
54 forward. So good morning.

55           Let me welcome the four commissioners of the Nuclear  
56 Regulatory Commission: Chairman Hanson, Commissioner Wright,  
57 Commissioner Caputo, and Commissioner Crowell.

58           Our nation and the world is embarking on a nuclear  
59 renaissance, and we need to ensure that we are ready for it.  
60 You all are responsible for ensuring the NRC performs its  
61 mission appropriately to meet the laws and policies enacted  
62 by Congress. That is reflected in your guidance to the  
63 Commission, your policy-making, and your leadership. It is  
64 also reflected in how the staff performs, the judgments and  
65 decisions they make to advance the mission. This may be seen  
66 in several ways, such as in budgeting and the decisions for

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67 timing and resources to do license reviews, and in the  
68 approach to new and novel licensing challenges like new  
69 factory built reactors. We look forward to discussing this  
70 with you all today.

71       And I said it is an exciting time in the nuclear energy  
72 sector. I mean, all evidence shows that we are on the  
73 precipice of this new renaissance. Nuclear energy plays a  
74 critical and growing role in providing reliable power and  
75 enhancing energy security and our American global leadership.  
76 Nuclear energy is clean, and advancing nuclear energy keeps  
77 our engineering and technology based sharp and focused on  
78 atomic innovations, a boon to the nation's security and our  
79 innovative spirit.

80       This Congress, and particularly the Energy and Commerce  
81 Committee, has been united and ambitious in advancing durable  
82 and bipartisan policy that will expand nuclear energy and its  
83 many benefits to the nation and the world. Our goal has been  
84 to bring America's nuclear promise back into alignment with  
85 the goals that Congress established when passing the Atomic  
86 Energy Act. This goal came to fruition in the bipartisan and  
87 bicameral nuclear package that was signed into law by

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88 President Biden on July the 9th. This package passed with  
89 overwhelming bipartisan support as the Atomic Energy  
90 Advancement Act in the House, and the ADVANCE Act in the  
91 Senate.

92 While we are all proud of this effort, enacting a law  
93 really is just the first step to realizing nuclear energy's  
94 promise. The burden now shifts to you and the Commission  
95 staff to implement the law. And I hope you and the staff  
96 understand we are not enacting laws just to validate what you  
97 are already doing. We are enacting laws to drive you to  
98 improve and perform at a new level, a level that is needed  
99 for a modern regulatory agency to provide the certainty that  
100 will unleash nuclear innovations.

101 In recent years we have witnessed plenty of examples of  
102 the NRC failing to be an efficient, thoughtful regulator. At  
103 your budget hearing last year we talked about the  
104 unacceptable pace of subsequent license reviews. We talked  
105 about the failure of the staff to respond to congressional  
106 direction and the formation of new regulations for advanced  
107 reactors. These appear to be symptoms of deeper failures,  
108 despite progress on some fronts, which is worrisome if the

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109 NRC is going to perform its mission efficiently going  
110 forward. Those failures must be addressed.

111 The ADVANCE Act requires you, the NRC commissioners, to  
112 take the lead and clarify the agency's mission. This is so  
113 that all understand your licensing and regulation must be  
114 efficient and will not unnecessarily limit deployment of  
115 nuclear technology or the benefits of nuclear energy to the  
116 public.

117 I said last year, I will say it again, NRC is set to  
118 foster nuclear innovation in this country and not necessarily  
119 be an impediment to that, all the while keeping safety  
120 concerns that you are charged with in the Atomic Energy Act  
121 at the forefront. Congress placed the burden on you, the  
122 leaders of the Commission, to ensure staff, leadership, and  
123 line staff get the message, and will hold you to account for  
124 ensuring that that happens.

125 Many provisions of this new law seek to align NRC  
126 licensing and oversight activity with Congress's goals of  
127 advancing nuclear energy. The ADVANCE Act policies reflect  
128 responses from stakeholders and information developed in our  
129 oversight, including multiple committee hearings. Our goal

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130 was to identify what is needed to create a better functioning  
131 regulator that can provide reasonable assurance of adequate  
132 protection of public health and safety, while also not  
133 inhibiting the benefits of nuclear power. In the new law we  
134 pressed the NRC to lean in and fast track licensing at  
135 brownfields and retired fossil fuel sites, expedite the  
136 review of combined licensing applications, continue to  
137 modernize environmental reviews, and more. We require you to  
138 reduce licensing costs for advanced reactors, encourage U.S.  
139 nuclear exports, and support advanced nuclear fuel concepts.

140 With energy demand growing fast all across America,  
141 especially to provide power for data centers and AI, the need  
142 for more nuclear power is increasing, as is the need for a  
143 regulator prepared to meet the growing volume of applications  
144 and advancement in technologies. So I look forward to  
145 discussing with you today how we can be sure the NRC is ready  
146 for this future.

147 And I will take just a moment and I will thank my  
148 colleagues on the other side of the aisle for the true  
149 bipartisan spirit that we passed the Atomic Energy  
150 Advancement Act and the ADVANCE Act, and the work that the



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151 Ranking Member DeGette did on this.

152 [The prepared statement of Mr. Duncan follows:]

153

154 \*\*\*\*\*COMMITTEE INSERT\*\*\*\*\*

155

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156           \*Mr. Duncan. And I now recognize her for five minutes.

157           \*Ms. DeGette. Thank you so much, Chair Duncan, and  
158 congratulations to you, too. I want to thank the Nuclear  
159 Regulatory Commission commissioners for being here today.

160           As the agency that is responsible for overseeing our  
161 nuclear fleet and radioactive materials, the work that you do  
162 is vital not just to our nation's overall energy security,  
163 but also to the health and welfare of the American people.

164           As the chair said, the bill that we passed was really a  
165 collaborative effort with Chair Duncan, Chair McMorris  
166 Rodgers, and Ranking Member Pallone to support NRC's mission.  
167 We all were standing together in the Oval Office just two  
168 weeks ago to watch President Biden sign the ADVANCE Act into  
169 law, and I couldn't help but feel pride. This has not been a  
170 productive Congress for the most part, and this is one of the  
171 most productive and important bills that we have passed.

172           During my years in Congress and on this committee, this  
173 bill really stands out as something that is going to help  
174 advance the cause, and we really need to do it. One of my  
175 main contributions to the ADVANCE Act came via H.R. 4528, the  
176 Strengthening the NRC Workforce Act.

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177           Now, I am also happy to welcome all of you employees  
178 here today. I don't think you were hired because of our bill  
179 that was just signed two weeks ago, but I will say we are  
180 going to be sending you some reinforcements under the ADVANCE  
181 Act, and we are very proud of that. What this bill does is  
182 it provides NRC with the authority to direct-hire, hiring and  
183 performance bonus authority, and to offer alternative  
184 compensation as we granted to FERC back in the Bipartisan  
185 Energy Act of 2020. To fully realize the potential of  
186 nuclear power, we must ensure the long-term future of its  
187 workforce. And I am very happy of the role I played in this.

188           As I said, though previously, quite often nuclear power  
189 is not a silver bullet. But if we are going to get to zero  
190 carbon emissions by 2050, which is what the scientists say we  
191 need to do, nuclear energy must be part of the mix.  
192 Currently, nuclear energy is responsible for producing 20  
193 percent of all the electricity generated in this country, and  
194 nearly half of all the carbon-free electricity in the U.S.  
195 that the U.S. generates each year.

196           Experts agree nuclear energy has the potential to play a  
197 significant role in our efforts to drive down our nation's

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198 greenhouse gas emissions as we continue to take on the  
199 climate crisis. As we work to reduce our emissions from the  
200 U.S. energy sector and make the clean energy transition,  
201 nuclear energy is going to be a key technology that we can  
202 use. But it is my steadfast opinion that we can only do that  
203 if we continue to prioritize public health and safety. It  
204 goes without saying that we believe the bill we passed out of  
205 committee threads that needle.

206 I am honored to say that the committee has streamlined  
207 the nuclear regulatory process, while doing so in a way that  
208 will continue to ensure the highest level of public health  
209 and safety. Given the additional tools and authorities that  
210 we have provided to the NRC, I am so excited to hear about  
211 the agency's timeline for implementing this valuable  
212 legislation. The world can't wait.

213 I believe there is a real opportunity to drive down our  
214 emissions and to accelerate our clean energy transition  
215 through the increased use of nuclear power, but we need to do  
216 it in the right way. That includes the need -- and I am  
217 going to say it again -- for the development of a strategy to  
218 dispose of spent fuel. We cannot lose sight of the issue of

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219 dealing with spent nuclear waste simply because we need this  
220 technology. We have to find a storage solution for nuclear  
221 waste that does not abandon the communities that host nuclear  
222 reactors, whether that way is through reprocessing, permanent  
223 storage, or some combination.

224 Right now spent fuel is stored at 75 different sites in  
225 33 different states across the country, including 23 sites  
226 that are no longer operating. The Nuclear Waste Policy Act  
227 called for a permanent waste repository to be set up by 1998.  
228 Well, here we are in 2024. We still don't have a permanent  
229 solution. This needs to be the next frontier that this  
230 committee and all of us look at until we have a permanent  
231 solution.

232 [The prepared statement of Ms. DeGette follows:]

233

234 \*\*\*\*\*COMMITTEE INSERT\*\*\*\*\*

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236           \*Ms. DeGette. I look forward to the discussion we will  
237 have today, and I yield back.

238           \*Mr. Duncan. The gentlelady yields back. I will now  
239 recognize the chair of the full committee, Mrs. Rodgers, for  
240 five minutes.

241           \*The Chair. Thank you, Mr. Chairman. Welcome, Chairman  
242 Hanson and commissioners. It is good to have you before the  
243 committee today back again.

244           American leadership in nuclear technology is critical to  
245 our economic and national security. It is how we win the  
246 future with reliable, affordable, and clean energy to power  
247 our way of life, keep the lights on, build stronger  
248 communities, and achieve economic prosperity.

249           The Nuclear Regulatory Commission's safety mission  
250 serves as a critical role in the success of the American  
251 nuclear industry. Making sure NRC performs this mission to  
252 achieve the great promise of nuclear energy is your core  
253 mission.

254           Since you last testified before the committee in June of  
255 last year, Congress developed and enacted several important  
256 laws to help unleash the full benefits of American nuclear

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257 energy. This committee led on passing legislation to  
258 eliminate reliance on Russian uranium and legislation to  
259 secure and build our own nuclear fuel industry right here in  
260 the U.S.

261 We also extended the Price Anderson Act for 40 years,  
262 ensuring long-term liability coverage for reactors, which is  
263 essential for revitalizing the industry and getting more  
264 reliable, affordable power into our homes and businesses.

265 And perhaps most relevant for today, the committee  
266 developed the Atomic Energy Advancement Act, landmark  
267 legislation signed into law earlier this month as the ADVANCE  
268 Act. This legislation will establish requirements and  
269 incentives to expand the use of nuclear energy, and has many  
270 benefits for the United States. It will drive a more  
271 efficient, timely, and predictable NRC licensing process  
272 which will encourage investment by reducing licensing costs  
273 for advanced technologies, and facilitate the deployment of  
274 innovative new nuclear energy technologies, from reactors to  
275 fusion to fuels and fuel facilities.

276 Taken together, these laws will strengthen our ability  
277 to compete globally and help power our future.

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278           The ADVANCE Act takes significant steps to align NRC's  
279 mission with the policy of the Atomic Energy Act of 1954 to  
280 "make the maximum contribution to the general welfare,  
281 increase the standard of living, and strengthen free  
282 competition in private enterprise through the development,  
283 use, and control of atomic energy.'" With the ADVANCE Act,  
284 Congress spoke loud and clear about NRC's role. NRC cannot  
285 be a barrier to innovation and development.

286           A strong American nuclear industry is critical to U.S.  
287 energy security by helping us compete with Russia and China  
288 and meet our growing energy needs here at home. With this  
289 legislation, NRC now has the tools and direction from  
290 Congress necessary to unleash American nuclear energy and get  
291 back to its core mission. America already has the best  
292 operating fleet in the world. The performance and safety of  
293 our nuclear plants is unmatched, and there are numerous  
294 promising and advanced nuclear technologies that simply  
295 require NRC licensing approval to begin deployment.

296           This hearing is an opportunity for this committee to  
297 better understand how you plan to implement these new laws as  
298 Congress intended, and meet the urgency of the moment. A



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299 robust and growing nuclear industry is critical for reducing  
300 emissions and providing reliable, affordable, clean energy to  
301 the American people. The Energy and Commerce Committee, in  
302 coordination with our Senate partners, has worked hard this  
303 Congress to come together on solutions to unleash America's  
304 nuclear energy that will improve people's lives and make our  
305 country stronger and more prosperous. I look forward to  
306 discussing next steps to ensure NRC is implementing the law  
307 effectively.

308

309

310

311 [The prepared statement of The Chair follows:]

312

313 \*\*\*\*\*COMMITTEE INSERT\*\*\*\*\*

314

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315           \*The Chair. I yield back.

316           \*Mr. Duncan. The gentlelady yields back. I now  
317 recognize the ranking member of the full committee, Mr.  
318 Pallone, for five minutes.

319           \*Mr. Pallone. Thank you, Mr. Chairman.

320           Nuclear energy is the single largest source of clean  
321 energy in the U.S., and it will continue to play a vital role  
322 in ensuring our grid is clean, reliable, and affordable as  
323 the clean energy transition continues. This Congress we have  
324 made critical bipartisan progress on important nuclear  
325 policies. We have taken several major actions, including  
326 passing the Russian uranium ban, the Nuclear Fuel Security  
327 Act, and the ADVANCE Act, and all of this builds upon the  
328 importance of support for nuclear energy that Democrats  
329 passed when we were in the majority.

330           And the Energy Act of 2020, the Bipartisan  
331 Infrastructure Law, and the Inflation Reduction Act all  
332 included historic investments in our existing and future  
333 nuclear infrastructure up and down the supply chain, and  
334 these investments are working. A lifeline from the  
335 Bipartisan Infrastructure Law will keep the Diablo Canyon

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336 power plant in California alive and a loan from the Inflation  
337 Reduction Act is going to prove pivotal in restarting the  
338 Palisades nuclear plant in Michigan, which is going to bring  
339 back about 1,000 jobs to that state. And it was loan  
340 guarantees from the Department of Energy that were  
341 instrumental in getting two new reactors at the Vogtle site  
342 in Georgia across the finish line.

343         So I hope that committee Republicans are paying  
344 attention to how important these investments are, and will  
345 reconsider their effort to repeal the Nuclear Power  
346 Production Tax Credit from earlier this year. If we want the  
347 nuclear industry to grow and continue to provide clean  
348 baseload electricity, we can't go back on our word and repeal  
349 vital resources. And this is something Republicans should  
350 consider as they continue to push Project 2025, a blueprint  
351 for a potential second Trump Administration.

352         Trump's Project 2025 is a plan to consolidate power in  
353 the White House, gut checks and balances, and eliminate the  
354 independence of agencies like the NRC. It contains radical  
355 proposals that would gut the Department of Energy's ability  
356 to invest in the nuclear industry, calling for the

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357 dissolution of the Loan Programs Office that has funded  
358 massive infrastructure projects, and dissolving the Office of  
359 Nuclear Energy. These proposals are not good for the  
360 deployment of clean and safe nuclear energy, and they are not  
361 good for the country. They are only good for radical  
362 ideologues pushing Trump's Project 2025, and it is the way  
363 for the extreme right wing to take total control over  
364 Americans' lives and freedoms.

365         Now moving to the Nuclear Regulatory Commission, I am  
366 looking forward to hearing from the commissioners on how they  
367 plan to implement the ADVANCE Act, which President Biden  
368 signed into law earlier this month. Democratic members of  
369 the committee led a number of important provisions in the  
370 law, including those to make it easier for the NRC to hire  
371 and retain staff, waive fees for developers of advanced  
372 reactors, and clarify fusion energy regulations.

373         Critically, the ADVANCE Act manages to improve the  
374 licensing process for advanced reactors without compromising  
375 on safety. And I want to repeat that: the ADVANCE Act does  
376 not -- does not -- alter the Commission's safety focus in any  
377 way whatsoever. The NRC has a longstanding commitment to

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378 protect public health and safety, and that continues to be  
379 the case. Discussions of licensing advanced nuclear reactors  
380 in a timely fashion are important, but the improvements we  
381 made in the ADVANCE Act did not in any way impact NRC's core  
382 mission of protecting public health and safety.

383 I also want to note, as I have before with other  
384 commissions within our committee's jurisdiction that  
385 independent regulatory commissions work best when they are at  
386 their full complement of commissioners. Chair Hanson, I was  
387 pleased that the Senate recently reconfirmed you to a five-  
388 year term, but the NRC has been down a commissioner for over  
389 a year now. That is not good for anyone, and I hope the  
390 Commission can get, you know, back up to full strength some  
391 time soon.

392 And with that, I look forward, Mr. Chairman, to hearing  
393 more from the commissioners today on implementation of the  
394 ADVANCE Act and other critical areas within the NRC's  
395 jurisdiction, and I thank everyone here today.

396 [The prepared statement of Mr. Pallone follows:]

397

398 \*\*\*\*\*COMMITTEE INSERT\*\*\*\*\*

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400           \*Mr. Pallone. And I yield back the balance of my time,  
401 Mr. Chairman.

402           \*Mr. Duncan. We will now conclude with the members'  
403 opening statements.

404           The chair would like to remind members, pursuant to the  
405 committee rules, all members' opening statements will be made  
406 part of the record.

407           They are going to call votes in about 30 seconds. We  
408 are going to try to get through the opening statements, but  
409 probably just going to get through Commissioner Wright. We  
410 will try to get all of them before members have to go. We  
411 are not going to miss votes, we have had some issues.

412           But I want to thank all the witnesses for being here  
413 today and taking time to testify before the subcommittee.

414           Each witness will have the opportunity to give an  
415 opening statement, followed by a round of questions from  
416 members. Our witnesses for today are the commissioners of  
417 the United States Nuclear Regulatory Commission: the  
418 Honorable Christopher Hanson, chairman; the Honorable David  
419 Wright, commissioner -- Go Tigers; the Honorable Annie  
420 Caputo, commissioner; and the Honorable Bradley Crowell,

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421 commissioner. We appreciate you being here.

422 I am going to recognize Chairman Hanson for five  
423 minutes.

424 There is lights there, you know what they mean. I don't  
425 have to go through that. And so Chairman Hanson, you are  
426 recognized.

427 \*Mr. Hanson. Yes, sir.

428

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429 STATEMENT OF THE HON. CHRISTOPHER T. HANSON, CHAIRMAN, NRC;  
430 THE HON. DAVID A. WRIGHT, COMMISSIONER, NRC; THE HON. ANNIE  
431 CAPUTO, COMMISSIONER, NRC; AND THE HON. BRADLEY R. CROWELL,  
432 COMMISSIONER, NRC

433

434 STATEMENT OF CHRISTOPHER T. HANSON

435

436       \*Mr. Hanson. Thank you, Chairman Duncan, Ranking Member  
437 DeGette, Chairwoman Rodgers, and Ranking Member Pallone, and  
438 distinguished members of the subcommittee. I appreciate the  
439 opportunity to discuss the U.S. Nuclear Regulatory  
440 Commission's fiscal year 2025 budget request, and update you  
441 on some of the agency's licensing, oversight, and rulemaking  
442 activities.

443       This coming January will mark the 50th anniversary. As  
444 we -- and as we approach this major milestone, the NRC  
445 remains committed to our -- to prudently licensing and  
446 regulating the civilian use of radioactive materials to  
447 protect public health, safety, and the environment, and to  
448 promote the common defense and security.

449       And as we look back on our past, it is incumbent on us



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450 to rely on that tremendous amount of experience, then, to  
451 reimagine, in a sense, how we execute that critical mission  
452 to become more efficient in the execution of our duties and  
453 to confront the future for nuclear power in this country.

454 I would like to take just a moment. Thank you, Chair  
455 Duncan, for recognizing our nuclear regulator apprenticeship  
456 network class here in the back. This is a brand new class  
457 for us. This has been a highly successful program over the  
458 last few years in bringing new people into the agency,  
459 educating new regulators, and getting them embedded. Over  
460 the next 18 months they are going to experience all areas of  
461 the agency as they embark on their careers. And thank you,  
462 sir, for your encouraging words to them.

463 I would also like to take a moment to recognize our new  
464 executive director for operations, Mirela Gavrilas. Mirela  
465 has a -- is a long-time veteran of the agency, and over that  
466 time has demonstrated real leadership and creative thinking  
467 and true grit in the way she has approached her duties, and  
468 we all on the Commission look forward to working with her in  
469 her new role.

470 First I would like to thank you, Chairman Duncan and

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471 Ranking Member DeGette, and indeed, the entire subcommittee  
472 for your leadership in passing the ADVANCE Act. Among its  
473 many important provisions, this bill will provide beneficial  
474 tools for the NRC's recruiting and retention efforts, and  
475 important budget flexibilities. The Commission greatly  
476 appreciates your support of the agency's work.

477         The NRC's fiscal year 2025 budget request is 995  
478 million. The NRC proposes to use 20 million in carryover  
479 funds to offset the nuclear reactor safety budget, resulting  
480 in an adjusted gross budget authority of approximately 975  
481 million. The NRC expects to recover 824 million from fees.  
482 This would result in a net appropriation of 151 million. The  
483 funding will allow the NRC to lay the groundwork for the next  
484 50 years of nuclear energy regulation, while assuring the  
485 continued safe oversight of the 94 operating power reactors,  
486 21 non-power production or utilization facilities, 23 reactor  
487 sites undergoing decommissioning, and numerous other  
488 facilities and materials users.

489         In a major effort, the NRC continues its work on a new,  
490 risk-informed and performance-based licensing framework.  
491 Known as Part 53, the new regulatory pathway will be

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492 effective and flexible for a wide range of reactor designs.  
493 Further, the NRC is proposing a technology-neutral approach  
494 for a generic Environmental Impact Statement for new reactors  
495 to be issued for public comment in November. Both of these  
496 efforts are aimed at streamlining environmental reviews and  
497 safety reviews for future applications.

498       These preparations are important, but I want to  
499 emphasize that we have the capability to review new  
500 technologies now. In March the NRC published guidance to  
501 assist advanced reactor applicants with the use of existing  
502 pathways, and this is proving valuable. Recently, TerraPower  
503 filed a construction permit application for Natrium, its  
504 sodium-cooled plant near Kemmerer, Wyoming under our existing  
505 regulations. The NRC's reviews for this application are  
506 underway. And like the Kairos Hermes Construction permit  
507 approved last year, the agency will continue to build on its  
508 experience with every application.

509       These efforts and the agency's operating reactor  
510 oversight are made possible through NRC's Reactor Safety  
511 Program. The budget for 2025 for this area is \$503 million.  
512 The operating reactor portion of this request is \$420

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513 million, and includes funds to review 3 initial license  
514 renewal applications and 5 subsequent license renewal  
515 applications. Resources will also support the review  
516 activities for one medical isotope facility construction  
517 permit, three non-power reactor construction permit  
518 applications, and two non-power reactor operating license  
519 applications.

520         The portion of the budget allocated for new activities  
521 is about 83 million. In addition to continued development of  
522 Part 53, this area includes pre-application funds for 5 new  
523 reactor designs and review funds for 2 new light-water  
524 reactor applications and 6 new non-light-water reactor  
525 applications.

526         As you can see, we have a lot of work ongoing. The  
527 budget also includes about 145 million for our materials  
528 program, and about 317 million for our corporate support.

529         In sum, the 2025 budget request allows NRC to focus on  
530 our mission and to prepare for future challenges. Thank you,  
531 and I look forward to your questions.

532         [The prepared statement of Mr. Hanson follows:]

533

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534 \*\*\*\*\*COMMITTEE INSERT\*\*\*\*\*

535

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536           \*Mr. Duncan. Mr. Chairman, you will have time to  
537 continue that with questions, I am sure. I will now  
538 recognize Commissioner Wright, a fellow Clemson Tiger and  
539 friend.  
540           Welcome, David, and you are recognized for five minutes.  
541

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542 STATEMENT OF DAVID A. WRIGHT

543

544       \*Mr. Wright. Thank you. Good morning, Chair Rodgers,  
545 Chairman Duncan -- Go, Tigers, Vice Chair Curtis, Ranking  
546 Member DeGette, honorable members of the committee. Thank  
547 you for the opportunity to appear before you today. And I  
548 would like to also associate my myself with the remarks that  
549 the chair gave to the -- to Chairman Duncan for welcoming our  
550 new employees. They are a really passionate bunch, and they  
551 are like sponges. They are a lot of fun to be around, and I  
552 look forward to following their careers.

553       I would like to start by thanking the committee for its  
554 tireless work over the last few years --

555       \*Mr. Duncan. David, can you pull that mike just a  
556 little closer? Pull the mike a little closer. Thank you.

557       \*Mr. Wright. All right. I would like to start by  
558 thanking the committee for its tireless work over the last  
559 few years on passing legislation that will help the NRC  
560 become a more effective and efficient regulator. This was  
561 made possible by strong leadership on both sides of the  
562 aisle.

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563           I also want to recognize you, Chairman Duncan, for the  
564   important role you played in getting this done. You have  
565   been a great friend of mine over many years and, as a fellow  
566   South Carolinian, I appreciate all that you have done for our  
567   home state and for our country. What you and your colleagues  
568   have done will make a difference not just here, but around  
569   the world.

570           And of course, I want to thank my colleagues on the  
571   Commission and their staffs for their collegial approach to  
572   the work we have to do. We don't always agree, but our  
573   interactions are always professional and constructive.  
574   Together we have been able to tackle challenging issues  
575   involving advanced reactor licensing, security of radioactive  
576   sources, and physical security at our operating reactor  
577   fleet.

578           I am also grateful to the NRC staff, who I truly believe  
579   are some of the best and brightest minds in the Federal  
580   Government.

581           I would like to focus my remarks today on improving the  
582   efficiency of the NRC.

583           On July 9 the President signed into law the Accelerating



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584 Deployment of Versatile, Advanced Nuclear for Clean Energy,  
585 or ADVANCE Act. The ADVANCE Act was passed with overwhelming  
586 bipartisan support in both chambers. The ADVANCE Act sends a  
587 clear signal to the NRC by directing us to update our mission  
588 statement to include efficiency in our licensing and  
589 regulatory actions. The Act also directs us to provide  
590 guidance to the NRC staff on how to implement the new  
591 mission. This important step will ensure that we are  
592 responding to Congress's direction with actions and not just  
593 words.

594       When I testified before you last year I said that we  
595 needed to enable, not disable, the safe use of nuclear  
596 technology. I believe the ADVANCE Act is saying the same  
597 thing. It directs the NRC to regulate in a way that does not  
598 unnecessarily limit the deployment of nuclear energy or the  
599 benefits of nuclear energy technology to society. We have to  
600 perform our vital safety mission, but we can't be a barrier  
601 to new technologies that will benefit the American public. I  
602 look forward to continuing to work with my colleagues on  
603 implementing the policies we need to enable the safe use of  
604 nuclear energy and nuclear technologies.

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605           And I would like to close on a personal note. Chairman  
606 Duncan, you will be retiring at the end of this term, and I  
607 wanted to take a minute to acknowledge your seven terms in  
608 the House. As I said in my opening remarks, you have done  
609 our home state proud. Your public service at every level has  
610 made a difference, and I wish you the best of luck going  
611 forward. You are my friend.

612           Thank you for the opportunity to be here, and I look  
613 forward to your questions.

614

615

616

617           [The prepared statement of Mr. Wright follows:]

618

619           \*\*\*\*\*COMMITTEE INSERT\*\*\*\*\*

620

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621           \*Mr. Duncan. Thank you, Commissioner.

622           Unfortunately, as you see, members are already leaving  
623 to go vote. They are adhering to a 20-minute rule and --  
624 plus or minus. So we are going to have to come back. And I  
625 want the members to have benefit of all of your testimony  
626 before we get into that, so I think it is best we will stand  
627 in recess, and we will come back immediately following the  
628 last vote, as soon as the ranking member comes back. So 10  
629 minutes, but we are going to get started as soon as we have  
630 the available committee members here.

631           With that, we will stand in recess.

632           [Recess.]

633           \*Mr. Duncan. All right. I will go ahead and call the  
634 subcommittee back to order.

635           And Commissioner Caputo, you are recognized for five  
636 minutes. Hopefully, members will come in because I really  
637 want them to get the benefit of all the testimony. But in  
638 the essence of time, you are recognized for five minutes.

639           Let's cut the mike on. There you go.

640           [Pause.]

641

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642 STATEMENT OF ANNIE CAPUTO

643

644           \*Ms. Caputo. Thank you. Thank you, Chair Rodgers,  
645 Subcommittee Chair Duncan, Ranking Members Pallone and  
646 DeGette, and members of the committee for holding this  
647 important hearing. I have fond memories of my service to the  
648 members of this great committee, and am pleased to come  
649 before you today.

650           Reliable, affordable, and clean energy is the lifeblood  
651 of the economy. With baseload generation retiring at the  
652 same time electricity demand is accelerating, there is a  
653 rising need for clean, affordable, and reliable energy.  
654 Congress has shown bipartisan recognition that nuclear energy  
655 must play a growing role in meeting our energy security  
656 needs.

657           With passage of the ADVANCE Act Congress has called on  
658 the NRC to be more efficient, predictable, and timely. It is  
659 incumbent upon us as commissioners to ensure agency  
660 leadership and staff recognize and earnestly implement this  
661 new direction from Congress.

662           In focusing on the day-to-day work of our safety and

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663 security mission, it can be easy to lose sight of the larger  
664 changing landscape and how we as an agency fit into a much  
665 bigger picture. While several companies are in pre-  
666 application engagement with the agency, only a few  
667 applications are currently under review. This is sure to  
668 change as momentum for nuclear energy deployment grows. The  
669 scope and pace of this change may be dramatic, and we must be  
670 prepared. Therefore, we must strive to improve our  
671 performance not simply measured by safety, but also by the  
672 efficient and timely completion of our work. We must focus  
673 on mission execution, improve the agency's agility to respond  
674 to change, and make effective and efficient decisions, and  
675 demonstrate results.

676 When Congress established the NRC, licensing was the  
677 only specifically enumerated function. Today, while the  
678 agency remains diligent in its oversight and inspection work,  
679 licensing reviews are a small portion of the agency's  
680 activities. Over time, related regulatory functions have  
681 come to dominate our operations, resulting in delays in some  
682 licensing reviews due to a lack of staff resources. The  
683 agency must prioritize effective and efficient licensing and

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684 afford it proper management attention.

685       Improving the agency's agility is a growing necessity.  
686 We know that change is coming, but we aren't quite sure when  
687 it will come or what it will look like. The best approach is  
688 to cultivate the agency's ability to adapt quickly to  
689 evolving industry plans and licensing needs. Our workforce  
690 is our greatest asset. We need to help them develop into a  
691 flexible team that can be utilized for a range of  
692 applications as the workload changes. We must maintain  
693 external awareness, but also recognize the likelihood of  
694 ongoing change and be prepared to adapt.

695       Applicants need regulatory predictability and stability.  
696 Our regulations should be coherent, logical, and practical.  
697 Our decision-making should be objective, transparent, and  
698 timely. If decisions are consistently applied by the staff,  
699 reviews will become more efficient and predictable, improving  
700 the reliability and stability of the licensing process. We  
701 as an agency need to set clear and aggressive but achievable  
702 goals in workload execution and use meaningful metrics to  
703 guide performance improvement. Accordingly, Commissioner  
704 Wright and I have proposed such an approach to our

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705 colleagues.

706       The ADVANCE Act also set an expectation for the agency  
707 to maximize the efficiency of our oversight and inspection  
708 programs. With over 20 years of experience with the reactor  
709 oversight process, I expect there are opportunities to adapt  
710 inspection efforts to more closely align with safety  
711 significance and better reflect the industry's improved  
712 safety performance.

713       In order for the agency to successfully navigate the  
714 future and meet Congress's expectations, we must cultivate  
715 results-driven leadership. We need leaders who can implement  
716 and sustain change, leaders who can effectively execute  
717 enterprise risk management, responsible budgeting, strategic  
718 workforce planning, knowledge management, and workload  
719 management.

720       In conclusion, our country's growing need for  
721 electricity is going to require significant new generation,  
722 and the ADVANCE Act makes a clear -- makes clear the  
723 compelling need for the NRC to become more efficient,  
724 predictable, and timely in its licensing decisions amidst  
725 significant changes in the nuclear energy landscape. The

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726 agency must reassert the importance of licensing as principal  
727 to our mission, and improve our agility in responding to  
728 landscape changes.

729 I look forward to working with my colleagues to set  
730 clear and aggressive but achievable goals, to embrace the use  
731 of metrics to guide performance improvement, and to hold  
732 ourselves accountable for results. Our principles of good  
733 regulation state the American taxpayer, the ratepaying  
734 consumer, and licensees are all entitled to the best possible  
735 management and administration of our regulatory activities.  
736 Going forward, I hope this committee will hold us  
737 accountable, too, through continued oversight. Thank you.

738 [The prepared statement of Ms. Caputo follows:]

739

740 \*\*\*\*\*COMMITTEE INSERT\*\*\*\*\*

741



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742           \*Mr. Duncan. Amen, and well worth the wait.

743           Commissioner Crowell, you are recognized for five

744 minutes.

745

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746 STATEMENT OF BRADLEY R. CROWELL

747

748           \*Mr. Crowell. Chair Duncan, Ranking Member DeGette, and  
749 members of the subcommittee, thank you for the opportunity to  
750 appear before you today to offer testimony on the NRC's  
751 fiscal year 2025 budget request.

752           I appreciate joining my colleagues, my Commission  
753 colleagues, to discuss the important work of the NRC and how  
754 we are tackling and, in fact, embracing the challenges facing  
755 the agency. Indeed, I see these challenges not as obstacles,  
756 but as opportunities for the agency to execute its mission  
757 while meeting the expectations of Congress, our licensees and  
758 other stakeholders, and the public.

759           Chair Hanson and my Commission colleagues have  
760 highlighted notable NRC accomplishments from the previous  
761 year, but also the considerable workload currently before the  
762 agency. This workload is expected to steadily increase in  
763 fiscal year 2025 and beyond, as our nation's energy needs  
764 continue to grow and the demand for carbon-free baseload  
765 power increases. This growing demand and commensurate  
766 workload reflect the significant advancements in nuclear

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767 technologies in recent years, including both fission and  
768 fusion technologies. With direction and support from  
769 Congress, including the recently-enacted ADVANCE Act, the NRC  
770 has already begun putting the regulatory structure in place  
771 to keep apace with these advancements.

772       As we approach the 50th anniversary of the NRC, the  
773 agency has a unique opportunity to help address some of the  
774 most challenging and pressing issues facing our nation today.  
775 While reducing carbon emissions and enhancing energy security  
776 obviously come to mind, there are many other policy  
777 objectives where the safe application of new nuclear  
778 technologies has the potential to result in significant  
779 benefits for our collective well-being, including  
780 applications in nuclear medicine and agriculture, to name a  
781 few.

782       In addition to reviewing and licensing new nuclear  
783 technologies, the NRC must also ensure our nation's current  
784 fleet of nuclear reactors continues to meet established  
785 safety and security standards. As the regulator for the safe  
786 and secure use of nuclear technologies, the NRC is committed  
787 to meeting our responsibilities such that the public can have

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788 full confidence that all NRC licensees operate in a manner  
789 that minimizes risk and maximizes safety. Notably, we must  
790 also execute this mission today and in the years ahead in the  
791 context of an increasing complex global, geopolitical  
792 environment.

793         With adequate resources for the agency and with clear,  
794 consistent leadership from the Commission, I believe we can  
795 achieve many great things. I am confident the NRC staff is  
796 up to the challenge. However, to harness this momentum the  
797 NRC must build and maintain public trust through proactive  
798 and meaningful engagement with all stakeholders. Trust is  
799 hard to gain, but easy to lose. In this regard the NRC must  
800 better engage with individuals and communities unfamiliar  
801 with our agency and how our mission touches their daily  
802 lives. We must recommit to using plain, understandable  
803 language, and leverage communication channels common to those  
804 who don't have the luxury of time or the responsibility to  
805 understand nuclear physics and engineering.

806         Indeed, the inherent complexity and historic concerns  
807 associated with nuclear energy necessitate establishing a  
808 high degree of public confidence in the Federal Government's

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809 ability to safely manage the full nuclear fuel cycle. For  
810 the NRC this means fully integrating both the front and back  
811 ends of the nuclear fuel cycle into our regulatory decisions,  
812 oversight, and research activities, and effectively  
813 communicating our actions in each of these areas to the  
814 public. Our shared constituencies deserve confidence in  
815 knowing both Congress and the executive branch are dedicating  
816 commensurate focus on issues including used fuel management,  
817 decommissioning, and waste disposal.

818 Workforce transformation will also be critical to our  
819 collective success. The NRC must retain and recruit talented  
820 staff with diverse skill sets. This is essential for  
821 managing the agency's increasing workload, and to reestablish  
822 a culture at the NRC that consistently ranks among the best  
823 places to work in Federal Government. Filling key senior  
824 career leadership positions is vital to this effort. We have  
825 made recent progress, including filling positions such as  
826 general counsel, chief financial officer, and, as you have  
827 heard, a new EDO, the highest ranking career officer --  
828 official at the NRC.

829 But there is more to be done. I am proud of the recent

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830 progress made on all these topics mentioned today, but we  
831 have work to do, and there is no margin for delay. We owe it  
832 to the NRC staff who work hard every day to keep apace in the  
833 growing -- in the face of growing demands and pressures, both  
834 internal and external. I intend to do my part to fulfill our  
835 obligations to our workforce as we navigate the challenges  
836 and opportunities ahead for the NRC. We owe it to our  
837 employees, but also to the public for whom we serve. The  
838 fiscal year 2025 budget request is an important next step to  
839 ensure the NRC has the resources necessary to meet this  
840 pivotal moment.

841 Thank you. I look forward to your questions.

842 [The prepared statement of Mr. Crowell follows:]

843

844 \*\*\*\*\*COMMITTEE INSERT\*\*\*\*\*

845

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846           \*Mr. Duncan. I thank you all for your testimony. We  
847 will now move into the question-and-answer portion of the  
848 hearing, and I will begin the questioning to recognize myself  
849 for five minutes.

850           Since we met in June last year, Congress took the most  
851 significant action relating to NRC in several decades and  
852 enacted the ADVANCE Act. This new law aims to pave the path  
853 for a resurgent nuclear industry which is critical to meet  
854 huge energy demands. Chair Hanson and commissioners, would  
855 each of you briefly tell us what you believe the ADVANCE Act  
856 signifies?

857           \*Mr. Hanson. Thank you, Mr. Chairman, and thank you  
858 again for your leadership on the ADVANCE Act.

859           For me, the ADVANCE Act represents several things.  
860 First of all, it represents a reiteration, I think, of a  
861 conversation that this Commission has had with this committee  
862 for some time about the need to be more efficient in the  
863 execution of our mission and responsibilities at the NRC.  
864 But I think it is also a recognition of the things that we  
865 have accomplished to date in terms of rulemaking and policy-  
866 setting. And I appreciate that affirmation. It is also an

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867 endorsement and an encouragement by giving us additional  
868 tools and flexibilities to move confidently into that future  
869 and confront the increasing workload that we have. And so I  
870 guess I would kind of focus on those three things.

871 \*Mr. Duncan. Mr. Wright?

872 \*Mr. Wright. Thank you for the question, and I am going  
873 to concur that efficiency is the -- one of the big things  
874 that we have to make throughout the whole agency. We have  
875 got to make it. It has got to -- we have got to drive the  
876 message all the way down.

877 We have got -- this is a new day. We have got new  
878 technologies that are coming, we have got to give them every  
879 opportunity to get to market while we protect that strike  
880 zone of safety over home plate. And we will do that. And so  
881 it is about us changing the culture, changing the way we  
882 think, and it is up to us as commissioners to model that and  
883 to demonstrate that this is how -- this is what we believe,  
884 we are listening to those who are our stakeholders, and  
885 including the Congress, and that we are going to manage that  
886 down.

887 \*Mr. Duncan. Thank you.



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888 Commissioner Caputo?

889 \*Ms. Caputo. This agency has seen remarkable change a  
890 number of times: in the late 1990s; and then with the  
891 renaissance starting in 2007; and obviously, post-Fukushima.  
892 And now we are facing a great era of change with, excuse me,  
893 advanced reactors and new designs coming.

894 To me, the ADVANCE Act is a recognition that we need to  
895 improve our performance and the recognition that, while  
896 safety is our primary goal and we are gatekeepers of the safe  
897 use of nuclear energy, we need to make sure that we are not a  
898 choke point, that the nation needs nuclear energy generation,  
899 and we need to ensure that we are embracing the efficiency  
900 and efficient decision-making necessary to enable those  
901 technologies to market.

902 \*Mr. Duncan. Yes, thank you.

903 Commissioner Crowell?

904 \*Mr. Crowell. Thank you, Mr. Chair.

905 In recent years Congress has passed a number of  
906 incentives and support mechanisms for nuclear power. I see  
907 the ADVANCE Act as giving the NRC the tools to meet the  
908 expected demand that is going to come for nuclear regulation

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909 from those earlier incentives, and I think it is going to  
910 make a huge difference for us going forward in being  
911 efficient while maintaining our safety case.

912       \*Mr. Duncan. Yes, thank you for that. You understand  
913 that Congress would not have directed you, the commissioners,  
914 to update the NRC's mission statement to align with the goals  
915 of the Atomic Energy Act if it thought the NRC was  
916 effectively performing its mission. I think I heard  
917 "effectiveness" and "efficiency" coming out of your mouth,  
918 so that was great.

919       Chair Hanson, does the Commission staff understand what  
920 Congress wants from the NRC in terms of mission performance?

921       \*Mr. Hanson. Well, I think it is incumbent on the  
922 Commission to make sure that the staff understands both what  
923 we expect as a Commission, but also what the Congress expects  
924 of us. We are accountable to you and to the American people.  
925 The staff are accountable to the American people, and they  
926 are accountable to us.

927       And so I hope that we have, through the course of our  
928 actions, through votes, and also through our words expressed  
929 that expectation to the staff. But if they don't, then we

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930 will keep working on it and make sure they do.

931       \*Mr. Duncan. What are you telling staff leadership and  
932 managers about Congress's expectations from the updated  
933 mission?

934       \*Mr. Hanson. Well, Chairman, thank you. At our  
935 regulatory information conference last spring I said from the  
936 stage that reflexively doing things the way we have always  
937 done them is not going to work any more at the NRC, and that  
938 I expected managers at all levels of the agency to look at  
939 the why of our processes and find ways to become more  
940 efficient and more effective in our mission.

941       And I have reiterated that message. I know my  
942 colleagues have similar messages that they have reiterated to  
943 the staff, and we are watching execution of key projects  
944 closely, and becoming -- and intervening where we think the  
945 staff is not being as flexible or efficient or innovative as  
946 they could be, you know, across all levels of the agency.

947       \*Mr. Duncan. Yes. Well, thank you. My time has  
948 expired. We are watching, and I am going to have some  
949 additional questions for you guys I am -- that I have. I am  
950 going to submit them maybe to the chair, maybe to the other

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951 commissioners. I just ask you to respond to those.

952 [The information follows:]

953

954 \*\*\*\*\*COMMITTEE INSERT\*\*\*\*\*

955

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956           \*Mr. Duncan. I now recognize the ranking member for  
957 five minutes.

958           \*Ms. DeGette. Thank you very much, Mr. Chairman.

959           Chairman Hanson, I spoke in my opening statement about  
960 the potential for nuclear energy development to help  
961 decarbonize our energy grid. I am wondering if you can  
962 comment briefly how you think the ADVANCE Act can help us  
963 towards that goal.

964           \*Mr. Hanson. Thank you, Ranking Member DeGette.

965           There are a number of provisions, I think, in the  
966 ADVANCE Act: the fee relief provisions for advanced  
967 reactors, the provisions on microreactors, et cetera. And  
968 this is where a lot of innovation is happening. New  
969 technologies are being considered for kind of what maybe is  
970 alternative use cases historically, so not just power  
971 generation to the grid like we see, big power plants, but  
972 smaller applications, heat, et cetera. So I think there are  
973 a number of ways in addition to the workforce provisions --

974           \*Ms. DeGette. And as Commissioner Caputo said, you  
975 don't want to be a bottleneck --

976           \*Mr. Hanson. Right.

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977           \*Ms. DeGette. -- as you are looking at all these  
978 new --

979           \*Mr. Hanson. We don't want to be an impediment.

980           \*Ms. DeGette. That is right.

981           Commissioner Crowell, I am wondering, speaking about  
982 workforce, if you can talk to us about how the workforce  
983 tweak in the legislation will support the NRC's overall  
984 mission.

985           \*Mr. Crowell. I think the new hiring authorities are  
986 going to be a great benefit to bringing in talent that we  
987 need and allow us to better compete with the private sector  
988 for the skill sets.

989           I also think that the workforce trainee programs that  
990 were established in the ADVANCE Act are going to complement  
991 our grant programs to make sure that those investments in  
992 universities translate into the next workforce for the NRC.

993           \*Ms. DeGette. Great, thanks.

994           Commissioner Caputo, I am wondering if you have a sense  
995 yet -- or anybody, really, could answer this -- about what  
996 kind of timeline you think it is going to take to fully  
997 implement the requirements in this Act. And what actions is

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998 the agency taking right now in the interim?

999       \*Ms. Caputo. I think right now there is a fair amount  
1000 of digesting it going underway. We have had a memo from the  
1001 general counsel on specific requirements. I think some of  
1002 the budgeting provisions are probably being looked at  
1003 immediately. It will take some time, I think, to implement  
1004 some of the other programs like a review of our oversight and  
1005 inspection. So I think the timelines for some of these will  
1006 play out over varying periods of time.

1007       What I hope to see is a note in leadership and a change  
1008 in tenor in terms of embracing and recognizing the need for  
1009 change, and modeling that through our leadership. So that, I  
1010 think, will be one of the earliest indicators that I am  
1011 looking for.

1012       \*Ms. DeGette. Great. I am wondering, Chairman Hanson  
1013 or anybody, if you can talk about what the NRC is thinking  
1014 about in terms of addressing the issue that I had raised in  
1015 my opening statement about nuclear waste storage or disposal,  
1016 because I think, truly, as we move towards a greater  
1017 proportion of our energy mix being nuclear, we are going to  
1018 have to deal not just with the waste that we have sitting all

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1019 around now, but the future. So I am wondering if you can  
1020 comment on that.

1021       \*Mr. Hanson. Yes, thank you, Ranking Member DeGette.  
1022 So the NRC's role is really to ensure the safe and secure use  
1023 of nuclear waste, whether it is, you know, low-level waste or  
1024 whether it is the higher activity things and spent fuel,  
1025 whatever forms those take. And so it is incumbent on the  
1026 agency to have the regulatory systems in place to ensure  
1027 storage.

1028       The NRC also has a role in licensing and ensuring the  
1029 safety of any deep geologic repository or any other kind of  
1030 ultimate disposal system. But fundamentally, that  
1031 responsibility for developing that system lies with the  
1032 Department of Energy. So we are going to continue in our  
1033 safety mission for the monitoring, storage, transportation,  
1034 et cetera of spent fuel while the nation works out a  
1035 permanent solution to the waste.

1036       \*Ms. DeGette. And you think that -- are you  
1037 coordinating with the DoE on these ideas and issues?

1038       \*Mr. Hanson. We are certainly monitoring --

1039       \*Ms. DeGette. Right.



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1040           \*Mr. Hanson. -- what they are coming up with, and we  
1041 want to understand their plan so that we can be ready to  
1042 license that if the time comes.

1043           \*Ms. DeGette. Yes, yes, that would be important. Okay.  
1044 Well, thank you very much, and thanks for all the work you  
1045 all do. I appreciate it.

1046           I yield back.

1047           \*Mr. Duncan. The gentlelady yields back. And I would  
1048 be remiss if I didn't mention that it was her language on the  
1049 workforce development that was in the ADVANCE Act, and I  
1050 appreciate her work on that because I am hearing the need for  
1051 that. So I want to thank her.

1052           I will now go to Mr. Walberg for five minutes.

1053           \*Mr. Walberg. Thank you, Mr. Chairman, and thanks for  
1054 the Commission -- to the Commission for being here.

1055           Since you last appeared before us, Palisades in Michigan  
1056 continues to take action. Some exciting things have taken  
1057 place between the DoE and Michigan -- the State of Michigan  
1058 itself: the decommissioning restart, which maybe we should  
1059 call "recommissioning"; Holtec and Palisades have made  
1060 tremendous progress with a long-term purchase agreement now

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1061 in place; a promise of more generation, which we certainly  
1062 need; and then 600 high-paying jobs coming back to the area.  
1063 That promise of opportunity is great.

1064 This may be a new and novel situation for staff, but we  
1065 are dealing within a well-known unit, a well-known design,  
1066 and well-characterized site with Palisades. Chair Hanson,  
1067 what is the status of this recommissioning effort?

1068 \*Mr. Hanson. Yes, thank you, Congressman Walberg.

1069 We are -- at this point Holtec has submitted all of the  
1070 regulatory filings that they need to do. Those are under  
1071 review. We expect to reach a decision on those filings in  
1072 about May of next year. I understand they have a plan to  
1073 restart the plant in August of 2025, and my understanding is  
1074 so far that those reviews are going well, the staff has shown  
1075 some flexibility with that, and that Holtec is currently  
1076 satisfied with the progress we are collectively making there.

1077 \*Mr. Walberg. Okay, so we can be reasonably certain  
1078 that within 24 months this process could be completed?

1079 \*Mr. Hanson. I would hope that, from our side, at  
1080 least, on the regulatory issues that we have got or -- we are  
1081 going to be done in less than a year.

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1082           \*Mr. Walberg. Even more quickly.

1083           \*Mr. Hanson. And then they can proceed with the kind of  
1084 physical issues and restarting the plant.

1085           \*Mr. Walberg. Hearing that, do you see this as a test  
1086 for performing with revitalized licensing efficiency in  
1087 keeping with the ADVANCE Act? Is this going to be ongoing?

1088           \*Mr. Hanson. I do, I think this is something we have  
1089 never done before, we haven't seen much of in the United  
1090 States, and it has required some creativity on both our part  
1091 and Holtec's. And as a learning experience, I think it is  
1092 very good and right in line with the ADVANCE Act.

1093           \*Mr. Walberg. Super. NEI reported last year that over  
1094 half of nuclear utilities are exploring power uprates, which  
1095 could provide over two additional gigawatts of clean baseload  
1096 energy in the next decade. The growth in demand for power  
1097 from AI and data centers is increasing the prospects of a  
1098 slew of uprates, and I guess the concern we have is a bit of  
1099 lacking in confidence, from what we have heard on uprate  
1100 preparation, for NRC. So this question comes. This means  
1101 more uprate and license renewal applications submitted to the  
1102 NRC. We have already heard about the staff falling short on

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1103 planning for license renewals.

1104 To anyone on the panel, given this experience, what  
1105 confidence do we have that NRC can manage a growing uprate  
1106 workload?

1107 \*Mr. Hanson. Congressman, the staff is -- has  
1108 reconstituted the group that performed a lot of the power  
1109 uprates before, and is relooking at those processes. They  
1110 have held a couple of public meetings with industry to  
1111 understand the change in the landscape there. But I think  
1112 this is another opportunity for the Commission to articulate  
1113 our expectations of the staff to leverage the tremendous  
1114 amount of historical knowledge that we have to make this  
1115 process much, much more efficient going forward.

1116 \*Mr. Walberg. Any other response?

1117 \*Ms. Caputo. Historically, there were a lot of power  
1118 uprates done 15 to 20 years ago. The agency doesn't have  
1119 fresh practice. The last one, I think, was close to 10 years  
1120 ago. So the reconstitution of the team is important.

1121 I think one of the things that we should strive for,  
1122 though, is the earlier batches of power upgrades were  
1123 executed with a timeframe of 6, 9, and 12 months, depending

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1124 on the intensity of the uprate request. And I think, over  
1125 time, the efficiency of those decisions lagged and the  
1126 timeframes were extended to 9, 12, and 18 months. I think we  
1127 should be able to return to those original timeframes,  
1128 depending on the nature of what the agency -- what the  
1129 industry is looking to execute.

1130       There is a lot of technology that has been put in place  
1131 since then, and I think there is a lot of room for efficiency  
1132 improvement, so I am hoping for leadership to manage that and  
1133 set expectations for efficient reviews. The more efficient  
1134 the review is, the easier it will be to manage the resources  
1135 as these applications come through.

1136       \*Mr. Walberg. Well, the new AI capabilities might  
1137 assist in that, as well, in --

1138       \*Ms. Caputo. Possibly.

1139       \*Mr. Walberg. Yes.

1140       \*Ms. Caputo. I think, as a safety agency, we are a  
1141 little cautious about how we should be looking to use AI. I  
1142 think it can supplement decision-making --

1143       \*Mr. Walberg. Sure.

1144       \*Ms. Caputo. -- and potentially save time, but I think

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1145 we are all pretty focused on making sure that we are  
1146 completely confident in the decision --

1147 \*Mr. Walberg. Security and time.

1148 \*Ms. Caputo. -- at the end of the day, as well.

1149 \*Mr. Walberg. Well, thank you.

1150 \*Ms. Caputo. Thank you.

1151 \*Mr. Walberg. My time is expired. I have more  
1152 questions --

1153 \*Mr. Duncan. The gentleman yields back.

1154 \*Mr. Walberg. -- we will turn in.

1155

1156 [The information follows:]

1157

1158 \*\*\*\*\*COMMITTEE INSERT\*\*\*\*\*

1159

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1160           \*Mr. Duncan. I now recognize my friend from California,  
1161 Mr. Peters, for five minutes.

1162           \*Mr. Peters. Thank you, Mr. Chairman. Thanks for  
1163 having this hearing.

1164           Thanks to the commissioners for coming to speak with us  
1165 today and for your work regulating a critically important  
1166 domestic energy source. I think you are going to hear some  
1167 of the same themes throughout the day, so you probably feel  
1168 like we are honing in on the issues here.

1169           The ADVANCE Act, which was recently signed into law,  
1170 included several provisions with -- from my bill with  
1171 Representative Carter, the Global Nuclear Energy Assessment  
1172 and Cooperation Act, and my bill with Dr. Bucshon, the  
1173 Advanced Reactor Fee Reduction Act. These bills, we hope,  
1174 will supercharge the domestic nuclear energy by reducing NRC  
1175 application fees, by identifying nuclear energy supply chain  
1176 risks, facilitating the import and export of advanced reactor  
1177 technology, and by ensuring adversarial nations are not able  
1178 to purchase nuclear fuel. Unfortunately, a key aspect of the  
1179 Global Nuclear Energy Assessment and Cooperation Act, which  
1180 would have authorized DoE to train foreign experts, energy

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1181 experts in allied countries, was ultimately removed.

1182       As we have noted, a third of the NRC's employees are  
1183 above the retirement age. If we fail to invest appropriately  
1184 in the nuclear workforce, then the NRC will be significantly  
1185 under-staffed far into the future. And we need to address  
1186 the serious problems facing our grid such as significant load  
1187 growth, extreme weather, and cyber or physical threats. And  
1188 I want to say that it was a good symbol that you brought out  
1189 all the young folks who are with the agency now, and I think  
1190 you understand we are excited to see people interested in  
1191 public service and helping us out with this.

1192       I often say the grid is small, old, and dumb, and I do  
1193 believe that nuclear energy can play a strong role in helping  
1194 it make it bigger, newer, and smarter. We have a lot of work  
1195 to do.

1196       Chairman Hanson, under current NRC guidelines -- this is  
1197 a permitting question for you, really -- nuclear power plant  
1198 site characterization takes over 24 months because  
1199 measurements of weather and seismic data need to be recorded  
1200 by the applicant themselves. But Federal agencies have  
1201 extensive databases of weather and seismic data already



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1202 available. Is there a way we could incorporate that data to  
1203 identify where new measurements are redundant, so that we  
1204 don't have to slow things down as much as we sometimes do?

1205 \*Mr. Hanson. Yes, Congressman, thanks for the question.  
1206 I think we can be flexible in this area. And the requirement  
1207 on the 24 months of kind of real-world data is something that  
1208 exists in our guidance. And as such, it is not a formal  
1209 requirement, it is one way to kind of meet our requirements.

1210 And therefore, companies that want to come to us with an  
1211 alternative either from other government databases, or  
1212 WeatherBug, or what have you about weather and other kinds of  
1213 site information, I think we can and should be open and  
1214 flexible around that.

1215 \*Mr. Peters. Okay, I hope you will be. And if there is  
1216 something -- authority you need from us that -- I hope we are  
1217 able to do what we can. As you can tell, the committee is  
1218 very interested in promoting the development of this  
1219 industry, and we want to be helpful.

1220 \*Mr. Hanson. Indeed.

1221 \*Mr. Peters. Just an issue on waste, it continues to be  
1222 a problematic piece in the puzzle. How do we ensure

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1223 communities and environments are safe as more plants are  
1224 decommissioned?

1225       Of course, we are a neighbor of the San Onofre plant. I  
1226 am a skeptic of the consent process because I think it is  
1227 hard to cite, you know, housing developments, let alone  
1228 nuclear waste disposals. Tell me how you think that is  
1229 going, and, you know, and what do you think we could do to  
1230 make sure that folks are safe, continue to be safe?

1231       \*Mr. Hanson. Yes, thank you.

1232       We have a rigorous inspection and oversight process as  
1233 plants decommission, and particularly for all of the  
1234 radiological operations. So think of those big potentially  
1235 contaminated components that need to be removed from the site  
1236 and sent to low-level radioactive waste disposal, as well as  
1237 the storage of spent fuel.

1238       I think one of the key things for us is -- and  
1239 Commissioner Crowell had this exactly right about the public  
1240 engagement -- engaging community panels and local oversight  
1241 boards about what we are doing, how we are doing it on a day-  
1242 to-day basis, and the rationale for that, and help people  
1243 understand our standards.

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1244           \*Mr. Peters. I do want to compliment you for the  
1245 information you have got out around San Onofre. I think  
1246 there is a, you know, general understanding that it is safe  
1247 today. At the same time, it is not going to be safe forever.  
1248 And I just would say that there is a real sense of urgency  
1249 for that site, which is near a military base near the water,  
1250 near a large population, that we find a permanent place for  
1251 it, and I would love to be helpful with that.

1252           Finally, you have launched successful programs to  
1253 introduce people from all backgrounds to the NRC. Some of  
1254 them are in the back today. How can this be expanded to fill  
1255 positions, including potentially educating folks from abroad?

1256           \*Mr. Hanson. Yes, thank you, Congressman. We do  
1257 educate folks from abroad now. We have what we call foreign  
1258 assignees to the agency, people that we are cooperating with,  
1259 particularly countries that are considering American  
1260 technology. So I think our fellow regulators from Poland or  
1261 Romania and other -- you know, Canada, places like this,  
1262 where we are cooperating closely and they have a chance to  
1263 come in and see what we are doing --

1264           \*Mr. Peters. Okay.

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1265           \*Mr. Hanson. -- I think we also benefit from close  
1266 cooperation on regulatory issues with our Canadian friends --

1267           \*Mr. Peters. Good.

1268           \*Mr. Hanson. -- understand their insights, et cetera,  
1269 so --

1270           \*Mr. Peters. Thank you.

1271           My time is expired, I yield back.

1272           \*Mr. Duncan. The gentleman yields back. I now  
1273 recognize the chair of the full committee, Mrs. Rodgers, for  
1274 five minutes.

1275           \*The Chair. This is an exciting time for American  
1276 nuclear innovation. The changing energy landscape is  
1277 accelerating the deployment of nuclear in innovative ways for  
1278 power generation, for manufacturing, and to support  
1279 infrastructure necessary for our information age. And there  
1280 is no time to waste, as power demands are increasing at a  
1281 rate up to 10 times greater than the rate of the past decade.  
1282 NRC indisputably performs a vital safety mission. In its  
1283 role it can either enable or hinder nuclear deployment. So  
1284 NRC's performance is essential for America's nuclear  
1285 leadership.

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1286           When you were before the committee here last year we  
1287   talked about performance metrics. Since then Congress has  
1288   enacted new requirements for measuring performance that were  
1289   included in the ADVANCE Act. Chair Hanson and commissioners,  
1290   would each of you briefly describe your views on measuring  
1291   the performance of the Commission?

1292           And I will begin with you, Chair Hanson.

1293           \*Mr. Hanson. Yes. Thank you, Chairwoman Rodgers, for  
1294   your question.

1295           I think it is important to have a set of high-level  
1296   metrics and expectations for the agency. Certainly, we had  
1297   -- we have seen those that were codified in the Nuclear  
1298   Energy Innovation and Modernization Act. And then, of  
1299   course, the revision of those here in the ADVANCE Act is  
1300   quite helpful, it gives us a baseline. For example, with the  
1301   TerraPower review, the baseline metric for that construction  
1302   permit review is 36 months. Our schedule is 27 months for  
1303   that. So that tells us where we are exceeding those metrics,  
1304   et cetera.

1305           \*The Chair. Okay, thank you.

1306           Commissioner Wright?

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1307           \*Mr. Wright. Thank you for the question. So metrics  
1308 are important. And last year, as you know, and you referred  
1309 to earlier, Commissioner Caputo -- I think Commissioner  
1310 Caputo referred to it earlier -- that we issued a joint COM  
1311 on this.

1312           Historically, the agency has not done a very good job of  
1313 setting goals and even stretch goals beyond that. So it is  
1314 important that we understand those things that we can use  
1315 that are really good in helping us know if we are doing a  
1316 good job or not.

1317           \*The Chair. Yes.

1318           \*Mr. Wright. So we need to set those metrics, and we  
1319 have a COM that addresses that.

1320           \*The Chair. Thank you.

1321           Yes?

1322           \*Ms. Caputo. The metrics that were introduced in NEIMA  
1323 and again revised in the ADVANCE Act, I think, are incredibly  
1324 important.

1325           I do think, as far as the agency functioning and  
1326 improving its performance, they are a little coarse. I think  
1327 we need to have more detailed performance metrics that enable

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1328 us to see how our progress is going according to what our  
1329 plans are, and that we need to be incredibly detailed about  
1330 that, and public and transparent about our progress. It is  
1331 important for the confidence of the applicant. It is also  
1332 important for stakeholders to view those schedules as  
1333 reliable and gain confidence in our ability to execute.

1334 \*The Chair. Thank you.

1335 \*Mr. Crowell. I agree with my colleagues on the  
1336 importance of metrics, and I think the ADVANCE Act gave us  
1337 direction on a number of those metrics, and we need to look  
1338 at what additional types of metrics we should institute.

1339 I would note that metrics and goals are only achievable  
1340 as the workforce we have to execute the mission, and so we  
1341 need to make progress on our hiring and workforce efforts in  
1342 order to meet those metrics.

1343 \*The Chair. Okay, thank you.

1344 In August last year Commissioners Wright and Caputo  
1345 issued a voting paper for the Commission to direct NRC staff  
1346 to implement real-time performance metrics. To our  
1347 knowledge, no action has been taken on that.

1348 Chair Hanson, what is the status of that matter, and why

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1349 has there not been more of a priority placed on measuring  
1350 performance?

1351       \*Mr. Hanson. Sorry. Thank you, Chairwoman Rodgers. It  
1352 is still -- it is currently pending before the Commission.  
1353 Both Commissioner Wright and Commissioner Caputo's comm, as  
1354 well as a similar COM issued by former Commissioner Baran, in  
1355 terms of setting high-level expectations.

1356       I can speak for myself not exclusively as chairman. I  
1357 have been focused on setting the policy through papers, and I  
1358 think -- and I have had some questions about it, and I am  
1359 working through that. I expect to vote that soon for myself,  
1360 because I do agree with my colleagues that setting  
1361 expectations is important.

1362       \*The Chair. Okay. I have more questions, but I am  
1363 going to run out of time so I will follow up or try to get  
1364 some -- get them answered.

1365       Okay, Commissioner Caputo.

1366       \*Ms. Caputo. I would just note that, even though this  
1367 is a voting matter pending before the Commission, the  
1368 leadership of the agency could establish metrics on their  
1369 own, and design those and implement those to begin tracking



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1370 this information, and that could potentially be one indicator  
1371 of their recognition and embrace of the ADVANCE Act.

1372 \*The Chair. Okay, thank you.

1373 I yield back.

1374 \*Mr. Duncan. The gentlelady yields back. I will now go  
1375 to Mr. Tonko for five minutes.

1376 \*Mr. Tonko. Thank you, Mr. Chair. I congratulate you  
1377 and Ranking Member DeGette on the enactment of the ADVANCE  
1378 Act. It is a great bipartisan accomplishment, and I believe  
1379 supporting the next generation of nuclear reactors will  
1380 indeed be critical to our future energy mix.

1381 And thank you to the chair and commissioners for your  
1382 testimonies this morning and your work.

1383 In the past several years, as Congress has debated  
1384 broader permitting reform, it has become abundantly clear  
1385 that successful energy projects must be built based on early  
1386 and robust community engagement. So Mr. Chair, what do you  
1387 see as the role for engagement with the communities that host  
1388 reactors?

1389 And how does the Commission help ensure license holders  
1390 are good partners with their hosts?

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1391           \*Mr. Hanson. Thank you for that question, Congressman  
1392 Tonko.

1393           I think the public communication and engagement aspect  
1394 of our mission is critically important, and I think one, I  
1395 think, recent positive example is the TerraPower project out  
1396 in Kemmerer, Wyoming. There have been numerous public  
1397 community meetings there, where the agency has gone out to  
1398 communicate with the public about our role in that project,  
1399 et cetera, and about -- quite outside of the National  
1400 Environmental Policy Act framework, the importance of that,  
1401 people understanding our role, why we make decisions, et  
1402 cetera.

1403           I don't -- yes.

1404           \*Mr. Tonko. Thank you.

1405           Yes, sir, Commissioner.

1406           \*Mr. Wright. If I might add, you know, one of the  
1407 things I think that the NRC staff does very well is  
1408 communicating. I think we do it better than anyone,  
1409 anywhere.

1410           And the fact that we are spread out -- we have four  
1411 regional areas, as well as the headquarters here -- the

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1412 people know the area where they live. They know the people  
1413 that they support, and that they back up, and that they  
1414 inspect, and those communities trust those people, right?  
1415 They trust our people there. So I think we really do a  
1416 really good job there, and I am really proud of them for  
1417 that.

1418       \*Mr. Tonko. Thank you, I appreciate that.

1419       So with advanced reactors, it is my understanding that  
1420 many potential developers are envisioning much smaller  
1421 designs with more numerous deployments. Compare that to our  
1422 existing reactor fleet, which are large and visible to local  
1423 communities. So Mr. Chair, how is the Commission thinking  
1424 about the need for ample community engagement processes for  
1425 smaller advanced reactors?

1426       And do you envision that there will be different local  
1427 consultation requirements compared to the existing reactor  
1428 fleet?

1429       \*Mr. Hanson. I am not sure that substantively,  
1430 Congressman, that it is going to be very different, right?  
1431 We still have a responsibility to explain to folks as best we  
1432 can about the technology, about our processes for evaluating

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1433 that, and how -- and why it is safe, even if that facility  
1434 may not be, as you say, as visible in the community. It is  
1435 still there, and it is important for folks to understand that  
1436 there is a stand-in for the public on the technical side,  
1437 which is the NRC, to ensure the ongoing safety and security  
1438 of that facility.

1439       \*Mr. Tonko. Okay. One potential win-win scenario is to  
1440 redevelop brownfield sites or retired fossil fuel generators  
1441 for advanced reactors. Many of those sites have access to  
1442 valuable existing infrastructure, and the communities may be  
1443 more likely to accept a new power plant if it indeed is  
1444 replacing an old one. The ADVANCE Act requires the  
1445 Commission to evaluate the barriers that may exist to reusing  
1446 these types of sites.

1447       Mr. Chair, I don't want to ask you to pre-judge the  
1448 outcome of this review, but generally do you believe there is  
1449 a good opportunity for advanced reactors at brownfield and  
1450 former fossil fuel generation sites?

1451       \*Mr. Hanson. Yes, I do, and there are areas where we  
1452 can leverage the existing infrastructure or the existing  
1453 experience at that site then to help make the review of the

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1454 new technology deployment at that site more efficient.

1455           \*Mr. Tonko. Do any of the other commissioners want to  
1456 weigh in on that?

1457           Yes, sir.

1458           \*Mr. Crowell. You know, I would add to that that --  
1459 sorry, I lost my train of train of thought.

1460           Annie, go ahead.

1461           \*Ms. Caputo. I think it makes a lot of sense, just  
1462 given the nature of the workforce, given the connection to  
1463 the grid, the prevalence of environmental data. So it  
1464 wouldn't surprise me at all if that becomes a very smart  
1465 business decision for companies. So I would expect that we  
1466 would review that as efficiently as we could, harnessing  
1467 whatever data has previously been available.

1468           \*Mr. Tonko. Thank you. And --

1469           \*Mr. Crowell. Mr. Congressman, just --

1470           \*Mr. Tonko. Oh --

1471           \*Mr. Crowell. Here is my thought. Your direction and  
1472 the Congress's direction in the ADVANCE Act to work with  
1473 other Federal agencies on this is going to be critically  
1474 important, because otherwise we are going to duplicate work.

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1475 So that is -- that interagency effort is going to be  
1476 important.

1477 \*Mr. Tonko. Okay, thank you.

1478 And Commissioner Wright?

1479 \*Mr. Wright. Yes, sir. And I have a previous  
1480 background as a public utility commissioner, which is an  
1481 economic regulator. So the use of brownfield sites, when you  
1482 get to the bottom line of who is going to pay for it, the  
1483 ratepayer, this is a really good deal for them. And I think  
1484 it is important and it is exciting, what these advanced  
1485 reactors might be able to do.

1486 \*Mr. Tonko. Okay, thank you, each and every one of you.  
1487 And with that, Mr. Chair, I yield back.

1488 \*Mr. Duncan. The gentleman yields back. I will now go  
1489 to Mr. Palmer for five minutes.

1490 \*Mr. Palmer. Thank you, Mr. Chairman. I really  
1491 appreciate the opportunity to have this discussion.

1492 One of my concerns is how we have fallen behind China -  
1493 - and Russia, for that matter, but particularly China. China  
1494 is considered a leader in the development and launch of small  
1495 modular reactors. It is estimated that China likely stands

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1496 10 to 15 years ahead of the U.S. in its ability to deploy  
1497 advanced nuclear reactors at scale. And I just wonder if  
1498 that is a big issue with you, and I address that question to  
1499 each of you because you are all with the Nuclear Regulatory  
1500 Commission. Is that -- do you consider that an issue, a  
1501 problem?

1502 \*Mr. Hanson. Congressman, I guess a couple of thoughts  
1503 about that.

1504 From a regulatory standpoint, I don't see a lot of  
1505 transparency in the Chinese regulatory system, so --

1506 \*Mr. Palmer. That is not what I am asking, though.

1507 \*Mr. Hanson. I am sorry.

1508 \*Mr. Palmer. The problem here is the regulatory regime  
1509 in the U.S. is holding us back. And it is not an issue of  
1510 whether or not China is abiding by the same regulations, it  
1511 is a matter of whether or not we use the technology that we  
1512 have, the expertise that we have to advance SMRs because we  
1513 are in a competitive environment with the world, with Russia  
1514 and China in that regard. I think if we really got serious  
1515 about this, really opened up the marketplace so that we  
1516 started developing these, we will be more than competitive on

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1517 the world market. But the world is going to -- they are not  
1518 going to deny themselves energy.

1519 Ms. Caputo, you raised your hand.

1520 \*Ms. Caputo. Well, I agree, there are a host of  
1521 financial issues which are beyond our purview. But one, I  
1522 think, significant factor in whether a country chooses to buy  
1523 from us or buy from China or Russia has to do with confidence  
1524 in the reactor. So to the extent that we have licensed  
1525 reactors and they are built and operating, I think that  
1526 builds confidence in the technology, and --

1527 \*Mr. Palmer. Ma'am --

1528 \*Ms. Caputo. -- makes it a much more --

1529 \*Mr. Palmer. -- with all due respect, one of the  
1530 reasons things are so costly here is because we have so over-  
1531 regulated things, and there is so much uncertainty in the  
1532 marketplace. As I tell people all the time, money is just  
1533 like water, it will always seek the path of least resistance.  
1534 And that is what is happening to us. And the Nuclear  
1535 Regulatory Commission has been an obstacle in the ability to  
1536 advance this.

1537 And again, building things at scale, I worked for two



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1538 international engineering companies and I understand if you  
1539 build -- if you had standardization in design and you build -  
1540 - start building things at scale, the price comes down.  
1541 France has done a really good job in the standardization of  
1542 their design. I think we can do the same thing with SMRs and  
1543 build very safe practical solutions to our -- to the energy  
1544 needs that we have in this country, but also the energy needs  
1545 in emerging economies. And you may respond.

1546       \*Ms. Caputo. If I could draw a parallel to the  
1547 regulatory situation, it makes things a lot more efficient if  
1548 designs are standardized, but it will also make things more  
1549 efficient in the regulatory context if our decisions are  
1550 standardized. If we are embracing and reviewing and making a  
1551 decision on various aspects of an application, that decision  
1552 needs to remain consistent and be applied across all  
1553 applications.

1554       So regulatory questions, once they are answered, we need  
1555 to remain consistent in the application of those because that  
1556 enables applicants to recognize what the endorsed regulatory  
1557 position is and streamline their applications, and thus the  
1558 review --

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1559           \*Mr. Palmer. Well, I --

1560           \*Ms. Caputo. -- by the fact that we are consistent in  
1561 our decision-making.

1562           \*Mr. Palmer. I think that -- I agree with that. I  
1563 think that is one of the things that is missing. But we have  
1564 also got to address the whole issue of permitting. We cannot  
1565 have these delays in getting permits that last 7, 8, 9, 10  
1566 years. That just kills investment, and investment is going  
1567 to go somewhere else.

1568           China right now, obviously, doesn't have the same  
1569 regulatory regime that we do, but they are advancing  
1570 technology in this, even though I wouldn't particularly want  
1571 to buy one of their units.

1572           I also see you wanted to comment, Mr. Wright.

1573           \*Mr. Wright. Yes, sir. First off, I think you are  
1574 right on point. I have traveled to Poland and Romania and  
1575 other countries around, and the one thing that you hear --  
1576 and you are hearing it here, too -- the people are not going  
1577 to invest in these technologies unless they are certified,  
1578 unless they are licensed. And so we have got to get through  
1579 our processes as efficiently and effectively as we can, and

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1580 make it timely, again, over that strike zone over home plate  
1581 because nobody is going to invest. They are not going to do  
1582 it if we are in timely renewal, or if we are in some kind of  
1583 an exemption process, because that doesn't send the right  
1584 message.

1585       \*Mr. Palmer. Well, and my last point, Mr. Chairman, if  
1586 I may, is the advantages of small modular reactors for  
1587 providing energy, I mean, you can put 200 or 300 megawatts on  
1588 640 acres and operate for 60 years with proper maintenance.  
1589 To get the same amount of energy production from a turbine  
1590 farm would require about 77,000 acres, and that doesn't  
1591 include the transmission lines that you would have to build  
1592 to connect to them.

1593       And the last point is we can recycle spent nuclear fuel.  
1594 And I talked to the director of the National Nuclear  
1595 Laboratory about how long we could operate a fleet just using  
1596 spent fuel, recycling spent fuel. It is over 100 years. So  
1597 Mr. Chairman, I really think that we have got an opportunity  
1598 to step forward on the stage here, compete with China and  
1599 Russia if we will just get our regulations right and our  
1600 permitting correct.

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1601           And I yield back.

1602           \*Mr. Duncan. All great points. Unfortunately, your  
1603 time is expired. I will now go to Dr. Schrier for five  
1604 minutes.

1605           \*Ms. Schrier. Thank you, Mr. Chairman. Thank you,  
1606 Madam Ranking Member. Thank you to all the commissioners  
1607 here today.

1608           I was so proud to see provisions of my bipartisan bill  
1609 with Congressman Hudson, the Advanced Nuclear Deployment Act,  
1610 included in the ADVANCE Act that is being discussed and  
1611 celebrated today. It is such an exciting bill that slashes  
1612 red tape, and readies the NRC for the next generation of  
1613 advanced reactors, and advances reliable nuclear generation  
1614 for critical natural -- national security infrastructure.

1615           The way that this bill reduces regulatory burden is by  
1616 instructing the NRC to create a program to expedite reactor  
1617 proposals that are on existing sites or similar in design to  
1618 other existing advanced nuclear plants. As a 2023 DoE report  
1619 found, repeat deployments known as the Nth-of-a-Kind are  
1620 expected to help reduce overnight capital costs by 40 percent  
1621 from the First-of-a-Kind deployment.

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1622           Commissioner Hanson, could you talk about that  
1623           affordability curve, and how this expedited program will  
1624           lower costs even further as we scale up repeat deployments,  
1625           and even maybe the speed with which you think that would  
1626           happen?

1627           \*Mr. Hanson. Yes. Thank you, Congresswoman Schrier.

1628           I think this provision in the bill is great, and I think  
1629           as we have some success in the agency with licensing these  
1630           initial designs, the -- where we need to go next, in my view,  
1631           is to prepare for this Nth-of-a-Kind deployment, where we  
1632           have standardized designs and we are deploying multiple  
1633           reactors on a similar site -- on the same site or on similar  
1634           sites, and getting that licensing and environmental review  
1635           time down so that the regulatory costs of that curve, as you  
1636           say, the benefit of going from Nth-of-a-Kind, of spurring  
1637           that supply chain to get those economies of scale are, as I  
1638           would say, as right-sized and as reasonable and as low as  
1639           possible, while still ensuring safety.

1640           \*Ms. Schrier. And then potentially addressing some of  
1641           my colleagues' comments, making them more feasible for  
1642           export, as well, so we can clean up the rest of the world's

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1643 energy.

1644 \*Mr. Hanson. Indeed.

1645 \*Ms. Schrier. I also wanted to ask about domestic  
1646 production of fuel for these advanced reactors. And this  
1647 year the Department of Energy is soliciting manufacturers for  
1648 RFPs to produce HALEU material and de-conversion activities  
1649 necessary to fabricate fuels needed by these advanced  
1650 reactors. And those awards could come as early as the end of  
1651 the year to stand up critical supply chains since we are not  
1652 getting this from Russia. This would advance our  
1653 independence and our national security, and really retake our  
1654 position as a global leader in nuclear energy.

1655 So the Commission has been -- previously been asked if  
1656 the NRC is ready to efficiently review these applications for  
1657 conversion, de-conversion, and enrichment facilities that  
1658 would be driven by the Department of Energy's efforts. And I  
1659 would just love to see some more specifics on how you plan to  
1660 promote a thorough and really expeditious process.

1661 So my question again to Chair Hanson is, how is the  
1662 Commission preparing for expected increases in application  
1663 for the fuel production to ensure that this remains more

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1664 efficient, reduces redundancies, and really promotes safety  
1665 and efficiency?

1666       \*Mr. Hanson. Yes. Well Congresswoman, I certainly get  
1667 the point, and I agree with Commissioner Caputo. This is  
1668 going to be one more area where the NRC can't be an  
1669 impediment.

1670       We have already processed some of what we call license  
1671 amendments for increased throughput or change in production  
1672 for some of our fuel cycle facilities. We are learning as we  
1673 go along with that. So Centrus is a great example where we  
1674 have permitted, you know, an initial level, a higher level,  
1675 and now again we have got an issue in front of us for an even  
1676 higher level of HALEU production, talking to our -- the  
1677 enrichment -- the enrichers in this country about increased  
1678 enrichment, higher uranium 235 enrichment, et cetera, and  
1679 getting ready for those applications.

1680       I think it has been a priority for me, as well as other  
1681 members of the Commission, that the fuel cycle -- other parts  
1682 of the fuel cycle don't get left behind as we prepare for  
1683 advanced reactors.

1684       \*Ms. Schrier. Thank you. I have, in 30 seconds, one

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1685 more, I guess, question, comment, which is this issue of  
1686 holding a hearing on each application to build a reactor,  
1687 even if there is no public discussion or -- and no party  
1688 contests the application. And these require just hundreds of  
1689 thousands of staff hours with really no change in outcome. I  
1690 am just curious about your thoughts on that, and whether that  
1691 would be an acceptable and efficient path forward.

1692       \*Mr. Hanson. Well, I think we have taken, as a  
1693 Commission, the action that we can take on this and still  
1694 comply with the Atomic Energy Act. So then it really is  
1695 Congress.

1696       And one of the reasons I think we have reached the  
1697 conclusions that we have to streamline the mandatory hearing  
1698 process is because of all of the other public outreach and  
1699 communication that we have seen. And so that would certainly  
1700 be part of the justification for a bill like what you are  
1701 talking about, Congresswoman.

1702       \*Ms. Schrier. Thank you.

1703       I yield back.

1704       \*Mr. Latta. [Presiding] The gentlelady's time has  
1705 expired and yields back. The chair now recognizes himself



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1706 for five minutes for questions to the witnesses. Again,  
1707 thank you for being with us today.

1708 Maintaining a robust domestic fuel supply chain is a  
1709 matter of national security, and the current fleet of fuel  
1710 cycle facilities is growing to support an increased global  
1711 electricity demand. However, unprecedented NRC annual fees  
1712 are inhibiting such planned growth. I am particularly  
1713 interested in the licensing process for fast spectrum  
1714 reactors which do not require plutonium separation.  
1715 Currently, the NRC does not clearly state through which part  
1716 they will license reprocessing facilities that do not  
1717 separate uranium. They could be licensed under two  
1718 categories of Part 50 to 52 or Part 70.

1719 Commissioner Caputo, in your opinion, would licensing a  
1720 fast reactor facility solely under Part 70 make the licensing  
1721 process more streamlined for these facilities?

1722 \*Ms. Caputo. The licensing of advanced reactor would  
1723 take place under 50 or 52 at this point, or 53 since those  
1724 rulemakings are to address reactors and reactor safety.

1725 If you are talking about the process of recycling the  
1726 fuel, that is, in my mind, much more of a fuel facility-type

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1727 application. So there may be an artifact in the nature of  
1728 the language of the Atomic Energy Act that would drive us, as  
1729 an agency, toward regulating it like a reactor under the  
1730 regulatory framework that we use for reactors.

1731 But I think it is probably more practical to find a way  
1732 to do that under Part 70, but I would like to take that for  
1733 the record. I think there might be some legal implications  
1734 there.

1735 \*Mr. Latta. Well, you know, just to follow up, you  
1736 know, given that Part 70 licensing focuses on the fuel cycle,  
1737 do you agree that the Part 70 has more relevant requirements  
1738 for the fast reactor facilities?

1739 \*Ms. Caputo. I am sorry, I don't understand the  
1740 question.

1741 \*Mr. Latta. Yes, I am sorry. Do you agree that the  
1742 Part 70 has more relevant requirements for fast reactor  
1743 facilities under that part?

1744 \*Ms. Caputo. I do when it comes to a recycling  
1745 facility. It is -- Part 70 is for regulating fuel, so if you  
1746 are talking about recycling you are taking fuel,  
1747 disassembling it, processing it in some manner, recovering

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1748 the usable materials, and then using those materials to  
1749 fabricate new fuel. So it is much more of a fuel processing  
1750 type of a plant than a active reactor with an ongoing nuclear  
1751 reaction and all of the safety provisions that go with that.

1752 \*Mr. Latta. Let me ask this because, again,  
1753 unfortunately, we have had two hearings going on in the  
1754 committee this morning.

1755 In the discussion -- you know, especially when you think  
1756 about the French and the recycling of their spent nuclear  
1757 rods, should we be doing that in the United States?

1758 Because -- and going back, you know, about 1975 and then  
1759 1976, there was the discussion that we should not be doing  
1760 it. But especially what we are looking at now with what we  
1761 should be doing into the future, and also hearing that we  
1762 could have maybe 100 years of fuel out there for our newer-  
1763 type reactors out there, is this something we should be doing  
1764 in the future in this country?

1765 \*Ms. Caputo. There are historical reasons why the  
1766 countries that chose to recycle developed those processes.  
1767 They were fairly expensive at the time. It was with the  
1768 expectation that uranium itself would be expensive. The cost

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1769 effective nature of reprocessing at this point isn't  
1770 necessarily there with that process.

1771         So what I think will be interesting to come is there are  
1772 other technologies under discussion now that would be a very  
1773 different type of type of processing technology that could be  
1774 more cost effective and more efficient at reducing the amount  
1775 of waste or the nature of waste that would ultimately require  
1776 disposal. So I think I will be interested to see which of  
1777 those technologies develops and comes forward to -- for  
1778 regulatory approval.

1779         \*Mr. Latta. And again, just to ask the -- everyone on  
1780 the Commission, has anybody been to France to see what they  
1781 do?

1782         \*Ms. Caputo. Yes.

1783         \*Mr. Hanson. I have not yet.

1784         \*Mr. Latta. Okay, Commissioner Wright, have you been,  
1785 by chance, to France to see on their recycling?

1786         \*Mr. Wright. I have not.

1787         \*Mr. Latta. Commissioner Crowell?

1788         \*Mr. Crowell. I have not, but I have visited the  
1789 Japanese facility intended to do the same thing.

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1790           \*Mr. Hanson. Yes, I have been to the Japanese facility,  
1791 as well.

1792           \*Mr. Latta. I beg your pardon?

1793           \*Mr. Hanson. I have been to the Japanese facility, as  
1794 well.

1795           \*Mr. Latta. You have been to the Japanese? Well, has  
1796 anybody else been to the Japanese facility?

1797           \*Ms. Caputo. Mm-hmm.

1798           \*Mr. Latta. Okay. Well, I think that is, you know,  
1799 again, unfortunately, I have to ask -- have the rest of my  
1800 questions submitted for the record.

1801           [The information follows:]

1802

1803           \*\*\*\*\*COMMITTEE INSERT\*\*\*\*\*

1804

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1805           \*Mr. Latta. But I think it is really important in this  
1806 country we explore that because, again, we could have --  
1807 should have been thinking about it 49 years ago. Here we are  
1808 again today. So I think that is an important question.

1809           And with that I yield back the balance of my time, and  
1810 the chair now recognizes the gentleman from New Jersey, the  
1811 ranking member of the full committee, for five minutes for  
1812 questions.

1813           \*Mr. Pallone. Thank you, Mr. Chairman. I want to begin  
1814 by focusing on the implementation of the ADVANCE Act.

1815           And section 501 of the ADVANCE Act requires the NRC to  
1816 update its mission statement. That provision was based on  
1817 language in Chair Duncan's automatic -- I am sorry, Atomic  
1818 Energy Advancement Act, and it was my understanding when I  
1819 voted for it, both in committee and twice on the floor, that  
1820 the update of the mission statement does not in any way  
1821 change the NRC's focus or emphasis on safety. And I  
1822 mentioned this in my opening statement. So I wanted to ask  
1823 Chair Hanson.

1824           As the Commission works to update its mission statement  
1825 pursuant to section 501, how will you ensure that the update

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1826 does not alter the NRC's focus on safety or its statutory  
1827 obligations to protect public health?

1828 \*Mr. Hanson. Ranking Member Pallone, thanks for the  
1829 question.

1830 Right, the NRC's mission is to have reasonable assurance  
1831 of adequate protection of public health and safety, promote  
1832 the common defense, and protect the environment. That is  
1833 still going to be the core of our mission.

1834 I think the update of the mission statement, as I see  
1835 it, is how do we do that, and what else can we say about how  
1836 we accomplish that mission, and the potential to ensure that  
1837 safety going forward, but also be much more efficient,  
1838 innovative, confident, et cetera, in the way we reach those  
1839 decisions going forward.

1840 \*Mr. Pallone. All right, now I would like to discuss a  
1841 bill we considered last July that included a proposal that  
1842 would limit the composition and applicability of the Advisory  
1843 Committee on Reactor Safeguards, and I had concerns about  
1844 that bill as written. So let me go to Commissioner Crowell.

1845 You have been particularly outspoken in your support for  
1846 the NRC's Advisory Committee on Reactor Safeguards. Could

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1847 you talk about the vital role that it plays, and what you  
1848 might say to those who feel that it is not as vital as it was  
1849 in the past?

1850 \*Mr. Crowell. Thank you for the question.

1851 I believe the role of the Advisory Committee on Reactor  
1852 Safeguards is more important today than before, particularly  
1853 in the context of scaling back or potentially having Congress  
1854 remove the requirement for mandatory hearings. The advisory  
1855 committee is the backstop for the public to know that  
1856 licensees -- or licenses are being approved without  
1857 compromising safety, and I believe that role should persist.

1858 That being said, they could also -- that advisory  
1859 committee could do their work more efficiently, as well. And  
1860 the current chair of the advisory committee is working on  
1861 initiatives to streamline their process and make that  
1862 advisory committee process more efficient, in line with how  
1863 the broader NRC is doing the same thing. So I think it is  
1864 very valuable and nimble for today's purposes.

1865 \*Mr. Pallone. All right, thank you. Now, finally, I  
1866 wanted to turn back to a provision of the ADVANCE Act that  
1867 wasn't in the House version, but I think will be particularly



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1868 important to the functioning of the NRC, and that is section  
1869 503 of the law that amends the Nuclear Energy Innovation and  
1870 Modernization Act to increase the NRC's cap on corporate  
1871 support costs. So let me go to Chair Hanson.

1872 Can you talk about how corporate support funding is  
1873 vital to the overall functioning of the NRC, and how the  
1874 amendments in the ADVANCE Act will allow the Commission the  
1875 flexibility it needs to carry out its mission, if you would?

1876 \*Mr. Hanson. Yes, thank you, Ranking Member Pallone. I  
1877 deeply appreciate the committee's work and changes to the  
1878 corporate support cap: A, raising the cap to 30 percent, but  
1879 also excluding some costs like the cost of the Commission, et  
1880 cetera, from that cap. Those exclusions will provide us  
1881 about \$34 million worth of headroom to make key investments,  
1882 and these investments include modernization of IT, of  
1883 information technology in the agency, ongoing relinquishment  
1884 but also upgrade of our space, AI, IT investments. We have  
1885 an ongoing capital improvement project to move our emergency  
1886 operations center from an existing building across the street  
1887 into our headquarters.

1888 All of these things are captured substantially, if not

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1889 exclusively, under corporate support. And the provisions in  
1890 the ADVANCE Act will certainly help with that going forward.

1891 \*Mr. Pallone. All right. Thank you so much.

1892 And thank you, Mr. Chairman. I yield back.

1893 \*Mr. Weber. [Presiding] The gentleman yields back, and  
1894 the chair now recognizes the gentlelady from Arizona, Mrs.  
1895 Lesko, for at least five minutes.

1896 \*Mrs. Lesko. At least five minutes? All right. Thank  
1897 you, Mr. Chairman.

1898 I think I talked to you before. I am from Arizona, and  
1899 so we have the Palo Verde nuclear plant outside of Phoenix,  
1900 Arizona. And this was a number of years ago when I talked to  
1901 then head of the plant, the nuclear division of Arizona  
1902 Public Service, and she said that when inspectors came out  
1903 they had to pay for all the inspectors to come out, and  
1904 sometimes they did work and had these checklists that weren't  
1905 really high-priority, safety things. They didn't really  
1906 accomplish the goal. And there was duplicative work and that  
1907 type of thing. So part of my legislation was included in the  
1908 ADVANCE Act.

1909 And so, Chair Hanson, you have said that eliminating

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1910 duplicative inspection activities allows the staff and  
1911 licensees to focus resources where they are most needed. Of  
1912 course, I agree. Tell me what you are doing to implement  
1913 this in the reactor oversight process.

1914       \*Mr. Hanson. Well, Congresswoman, as part of  
1915 implementation of the ADVANCE Act, we are going to follow the  
1916 provision that tells us to take another hard look at the  
1917 reactor oversight program to further risk-inform that. We  
1918 had made a couple of changes earlier with regard to reducing  
1919 the frequency of some engineering inspections, as well as  
1920 changing the way we accounted for very minor violations on  
1921 the part of plants, but revisiting that and, again, relying  
1922 on that -- as Commissioner Caputo noted, the ROP has been in  
1923 place now for more than 20 years, we have learned a lot over  
1924 that 20 years -- and applying that knowledge to revisit this,  
1925 this is a great time and opportunity to do that.

1926       \*Mrs. Lesko. Great. And if I remember right from  
1927 talking to them -- and again, this was a while ago -- they  
1928 had said a lot of the things were -- some of the things that  
1929 were implemented during COVID like remote, you know, cameras  
1930 and that type of thing -- seemed to make sense to them, and

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1931 was wondering if you guys were going to look at maybe  
1932 implementing that.

1933 Also, how do you, as commissioners, how do you evaluate  
1934 what is actually happening on the ground? Do you go out  
1935 every once in a while? What do you do?

1936 Yes.

1937 \*Ms. Caputo. Yes.

1938 \*Mr. Hanson. Go ahead.

1939 \*Ms. Caputo. We visit plants as often as possible. We  
1940 also talk to our regional offices that also have cadres of  
1941 inspectors.

1942 But it is -- I think -- yes, I will have my colleagues  
1943 contribute. But any time I go to a plant, I start by meeting  
1944 with our resident inspectors and listen to their view of how  
1945 the plant is operating, what they see as the strengths and  
1946 weaknesses, and the things that they are most focused on when  
1947 they are inspecting. So that is a great backdrop as I tour  
1948 the plant and look at the progress that is being made.

1949 \*Mrs. Lesko. Thank you.

1950 And Commissioner Wright?

1951 \*Mr. Wright. Yes. Yes, ma'am. Thank you so much for

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1952 asking about our resident inspection program.

1953 The inspectors, I mean, I love those guys and gals.

1954 They are the boots on the ground. They are the public-facing  
1955 people because they live right there, as well as work there.

1956 I actually -- beyond visiting the plants, I actually do  
1957 a resident-for-a-day program, where I go into the plant at  
1958 4:30, 5:30 in the morning. I do turnover with the staff,  
1959 with the plant personnel. I participate in all the meetings  
1960 that our licensees interact with the plant personnel, and I  
1961 learn really what is important, and how the trust is made  
1962 between our people and the licensees' people, and -- because  
1963 that trust is important.

1964 And you realize that maybe 30 percent of the time is  
1965 about the ROP, the rest of it is about people, and it is  
1966 about getting things done and understanding, you know, what  
1967 is important to our people. I can't tell you the number of  
1968 times that the phone will ring, and they will say, "We know  
1969 you are interested if this were to happen over here. This is  
1970 happening, we want you to come. We are not going to do  
1971 anything until you get here.'" So I think that is really,  
1972 really important. And they know that we have got to make

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1973 things more efficient, and they want to spend the time on the  
1974 things that are the most safety significant.

1975 \*Mrs. Lesko. All right.

1976 \*Mr. Wright. All the way down to doing paperwork.

1977 \*Mrs. Lesko. Thank you. I have another question for  
1978 whoever wants to answer it.

1979 The Nuclear Regulatory Commission received a  
1980 construction permit application for TerraPower's sodium  
1981 reactor. What is the status of the application?

1982 \*Mr. Hanson. Congresswoman --

1983 \*Mrs. Lesko. Yes.

1984 \*Mr. Hanson. -- the application has been accepted for  
1985 review. It is under review. We set a, I think, aggressive  
1986 but achievable 27-month schedule for that because, in  
1987 addition to the application, we are also reviewing 13 topical  
1988 reports concurrently, technical aspects of the reactor that  
1989 we are completing. I think we are about to complete three of  
1990 those, and those -- the results of those papers will get  
1991 integrated into the review.

1992 And I think I am pleased with the way the staff has  
1993 approached this review, and we are going to monitor it

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1994 closely as we go along.

1995           \*Mrs. Lesko. Well, good. And my time has expired, but  
1996 thank you for all the work that you do. It is very  
1997 important.

1998           As you probably know, I think nuclear is a huge part of  
1999 our energy portfolio, and we need to keep it going. Thank  
2000 you.

2001           With that I yield back.

2002           \*Mr. Weber. The gentlelady yields back. The chair now  
2003 recognizes the gentlelady from Florida, Ms. Castor, for five  
2004 -- at least five minutes.

2005           \*Ms. Castor. Thank you, Mr. Chairman.

2006           I am sorry that Chair Duncan isn't here, but I want to  
2007 give him kudos, along with Ranking Member DeGette and the  
2008 committee for passage of the bipartisan ADVANCE Act, having  
2009 it signed by President Biden. I believe it is the most  
2010 significant clean energy law since the historic clean energy  
2011 provisions contained in the Inflation Reduction Act.

2012           And I thank all of our NRC commissioners for what you  
2013 do, especially your work ensuring a safe, resilient, clean  
2014 energy future. It is critical right now.

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2015           But here is the challenge. The economy is booming, the  
2016 manufacturing across America is undergoing a renaissance at  
2017 the same time that we are seeing rise in data centers and AI.  
2018 The demand for energy in the United States is up, and the  
2019 estimates are that annual growth of -- we will see annual  
2020 growth of five to six percent through the end of the decade,  
2021 a tenfold increase in the growth rate from current levels.

2022           To meet this new demand, the United States is left with  
2023 a couple of options. We can look backwards and go back to  
2024 old solutions like coal and gas peaker plants, which are  
2025 costly and they are adding to the climate impacts, or we can  
2026 shift to cleaner technologies. That is why I think it is  
2027 important that we focus on the latter, and build upon the  
2028 progress that we have made in the Inflation Reduction Act,  
2029 which is driving unprecedented levels of investment in clean  
2030 energy projects.

2031           Commissioner Caputo, how do you view this rising  
2032 electricity demand, and how is it impacting advanced nuclear  
2033 research and everything the NRC is doing?

2034           \*Ms. Caputo. Well, I will be honest: with a certain  
2035 amount of trepidation. I think that, given the nature of the



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2036 growth and demand, there will be a sizable development of  
2037 generation. I think what makes me a little nervous for us as  
2038 an agency is it is not exactly clear when these applications  
2039 are going to come in. And certainly in the renaissance, as  
2040 it was called at the time in 2007, once the first  
2041 applications started to come in, we received applications for  
2042 29 units in -- over the span of about 2 years.

2043         So what the agency most needs is as much notice as  
2044 possible from applicants before they come in and file an  
2045 application. And hopefully, on our side, there will be pre-  
2046 application engagement with applicants before they file to  
2047 make sure that we are getting a high-quality application, but  
2048 I think we need mostly notice of what is coming in so we can  
2049 make sure that we are resourced and the staff is trained  
2050 accordingly to manage the influx.

2051         \*Ms. Castor. Thank you.

2052         And Chair Hanson, that kind of takes us back to  
2053 licensing and permitting in a way, as you balance that with  
2054 safety and sustainability. As the White House Council on  
2055 Environmental Quality outlined in a report recently,  
2056 technology is like user-centered software, and AI tools can

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2057 help modernize permitting and reduce costs. Has the NRC  
2058 produced any technology upgrades to make its licensing and  
2059 permitting processes more efficient?

2060       \*Mr. Hanson. Yes, there are areas in this, and the  
2061 staff is starting to explore. Earlier this year I directed  
2062 the staff to look inwards to examine use cases for artificial  
2063 intelligence in particular, and how we might use that to  
2064 ensure our safety mission, but make those processes more  
2065 efficient. They have come up with a limited set of use cases  
2066 that they would like to try out.

2067       But, you know, to Commissioner Caputo's point, we need  
2068 to proceed cautiously here, make sure that those models are  
2069 accurate as possible, that they are secure and that we are  
2070 seeing the kind of results that we expect. I think  
2071 sometimes, as you know, artificial intelligence is thrown  
2072 around as the thing that is going to solve all of our, you  
2073 know, all kinds of societal problems. But I think in a lot  
2074 of ways at the NRC it is going to be just nuts and bolts,  
2075 blocking and tackling, and looking at how we can do things  
2076 more efficiently. If technology can help us do that, then  
2077 fantastic.

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2078           \*Ms. Castor. So some of those nuts and bolts are just  
2079 having adequate resources and staffing to move reliable  
2080 permitting. Is that your perspective, as well?

2081           \*Mr. Hanson. It is adequate resources. But to  
2082 Commissioner Caputo's point, we are not sure when that wave  
2083 is going to come. And so I think over the last couple of  
2084 years what you have seen from the Commission, from a  
2085 budgeting standpoint, is to kind of hold steady while we see  
2086 how the future is going to shake out, knowing that, yes, we  
2087 may need to hire some people, but that we are -- we may also  
2088 not be able to hire our way out of the coming wave, either,  
2089 that we are going to have to think differently --

2090           \*Ms. Castor. One of the things --

2091           \*Mr. Hanson. -- about our mission.

2092           \*Ms. Castor. -- we did to try to expedite clean energy  
2093 from nuclear -- it was in the Inflation Reduction Act, that  
2094 tax credit of up to 1.8 cents per kilowatt hour for zero-  
2095 emission nuclear electricity, and then provided DoE with some  
2096 additional funds for the next-gen nuclear fuel for reactors.

2097           But I am very concerned now with this Project 2025  
2098 proposal. Folks need to know across this industry that that

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2099 Project 2025 calls for repealing the nuclear tax credit,  
2100 which would put us farther behind what we need to be doing to  
2101 expedite clean energy to the grid.

2102 My time is up, and I yield back my time. Thank you.

2103 \*Mr. Duncan. [Presiding] The gentlelady's time has  
2104 expired, and -- it must be a nuclear day, I had to go speak  
2105 on the Savannah River site real quick -- and I will now  
2106 recognize Mr. Weber for five minutes.

2107 \*Mr. Weber. Thank you, Chairman.

2108 Mr. Hanson, my bill, the Modernize Nuclear Reactor  
2109 Environmental Reviews Act, was included in the ADVANCE Act of  
2110 2024, which was signed into law July 9. This part of the law  
2111 directs NRC to reform and add efficiency to the environmental  
2112 review process to help accelerate the deployment of new  
2113 reactors. Currently, the NRC estimates that the  
2114 environmental review process will take approximately 24 to 36  
2115 months to complete.

2116 So my question for you, Chairman, is when it is reform  
2117 and add efficiency, what kind of reforms do you anticipate,  
2118 and how do you manage to have better efficiencies?

2119 \*Mr. Hanson. Yes, Congressman, we have got a number of

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2120 things going in the environmental review area as we speak,  
2121 and we have done a couple of things over the last year. One  
2122 is we put in place a generic environmental impact statement  
2123 for new reactor construction that resolves a lot of  
2124 environmental issues up front. And the second thing we did  
2125 was we expanded the list of what are called categorical  
2126 exclusions. That is, the things that you don't have to look  
2127 at when you do an environmental review.

2128         So having done that, then, the staff has got a couple of  
2129 papers in front of us on implementing the Fiscal  
2130 Responsibility Act and the environmental provisions within  
2131 that, and we are looking at that now.

2132         My understanding is that we can get down -- an EIS for a  
2133 site down to something like 18 months, and an environmental  
2134 assessment to something like 12. That was the last thing I  
2135 understood. I am happy to confirm that for the record.

2136         \*Mr. Weber. How long did it take you all to arrive at  
2137 that conclusion, that decision? Did it take you weeks? Was  
2138 that months? Was that --

2139         \*Mr. Hanson. I think they --

2140         \*Mr. Weber. How many --

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2141           \*Mr. Hanson. I think they look at all of the resource  
2142 areas that are required to be looked at under NEPA, the ones  
2143 that have already been resolved generically, as we said, the  
2144 ones that are excluded, and then how many -- how much time  
2145 they think they need to look at those remaining areas. And  
2146 it is -- I mean, in the generic environmental impact  
2147 statement we resolved probably 80 out of 100 generic --

2148           \*Mr. Weber. Well, July 19 to today is 2 weeks. This is  
2149 July 14. I missed -- July 23. I can do math sometimes.

2150           Is the continuation of that implementation, is it a  
2151 priority for you all?

2152           \*Mr. Hanson. It is a priority for us. We understand  
2153 that environmental reviews can sometimes take longer than the  
2154 safety reviews themselves, and we want to focus on that and  
2155 have those be as efficient as possible while we are meeting  
2156 the requirements of the law.

2157           \*Mr. Weber. How do you gauge whether that efficiency,  
2158 the target of more efficiency, how do you gauge if you are  
2159 doing if you are doing good at it, great at it, or really  
2160 good, or if you still have room for improvement? How do you  
2161 gauge that?

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2162           \*Mr. Hanson. Well, I think, you know, again, I think  
2163 looking at a rough target like 18 months, and figuring out  
2164 where we are coming in relative to that, are we north of that  
2165 or are we south of that, what are the -- and then getting  
2166 into the details on what are the factors that are driving a  
2167 deviation there.

2168           \*Mr. Weber. Do you compare it to current -- I mean  
2169 past, previous policies and permits?

2170           \*Mr. Hanson. Yes, absolutely. We can, yes.

2171           \*Mr. Weber. Do you have a percentage where you can say  
2172 we are 20 percent better -- Commissioner, I will come to you  
2173 in just a second -- we are 30 percent better? Do you have a  
2174 way of giving us a kind of a weigh-in there?

2175           And I will let you answer that if you know, Chairman, or  
2176 maybe Commissioner Caputo knows.

2177           Are you kin to Neil Caputo? It is a joke. Go ahead,  
2178 Commissioner, I recognize you.

2179           [Laughter.]

2180           \*Ms. Caputo. No, it was actually an Ellis Island name  
2181 for my husband's great-grandfather.

2182           \*Mr. Weber. I was going to say that is very funny, you

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2183 know, my joke.

2184 \*Ms. Caputo. There are several Caputos around town --

2185 \*Mr. Weber. Right.

2186 \*Ms. Caputo. -- that I am not related to.

2187 One of the things that I think we are looking at,  
2188 certainly as a Commission, is how do we streamline the  
2189 processes, but another part of that is the people side. And  
2190 we have seen fluctuation in work in environmental reviews.  
2191 And I think one of the reasons we are seeing delays now is we  
2192 don't have enough environmental reviewers in place to execute  
2193 the work timely because we have seen shifting work.

2194 So even though --

2195 \*Mr. Weber. Percentage-wise, you need more reviewers?

2196 \*Ms. Caputo. So even though the agency --

2197 \*Mr. Weber. You need 40 percent more reviewers, 20  
2198 percent more reviewers? A number?

2199 \*Ms. Caputo. I don't really have a handicap on it. I  
2200 don't see data that would really give me a feel for that, but  
2201 I think one of the things that concerns me is we have hired  
2202 600 people in the last couple of years, including our  
2203 wonderful cadre in the back, and we need to do a better job



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2204 of making sure that we are either hiring people for specific  
2205 tasks like environmental reviews, or training them up to  
2206 execute that work so that we make sure we have enough people  
2207 doing the work so that it is efficient at the same time that  
2208 we are trying to make the processes themselves more  
2209 efficient.

2210       \*Mr. Weber. Well, and that is a broader -- I am running  
2211 out of time, but that is a broader thing that needs to take  
2212 place entirely -- inside the entire agency, it is not just in  
2213 this process. So I appreciate you all being -- you know,  
2214 working on that.

2215       So, Mr. Chairman, I yield back.

2216       \*Mr. Duncan. The gentleman yields back. I now go to  
2217 the gentlelady from California, Ms. Matsui, for five minutes.

2218       \*Ms. Matsui. Thank you very much, Mr. Chairman, and I  
2219 want to thank the commissioners for being here today also.

2220       When done right, nuclear energy can be an important  
2221 source of zero-carbon electricity, and it has the potential  
2222 to play a key role in decarbonizing our power grid. However,  
2223 we must address the waste problem. The Rancho Seco nuclear  
2224 power plant in my district closed over 30 years ago, and the

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2225 site is still acting as a temporary storage site for spent  
2226 nuclear fuel. This spent fuel needs to be safely stored for  
2227 hundreds of thousands of years. This cannot be the  
2228 responsibility of individual communities. We need a  
2229 comprehensive national strategy for the long-term management  
2230 of nuclear waste.

2231 Chair Hanson, the NRC is currently licensing nuclear  
2232 reactors under the premise that nuclear waste can be stored  
2233 safely on site indefinitely, per the continued storage rule.  
2234 Is that correct?

2235 \*Mr. Hanson. Congresswoman, the continued storage rule  
2236 evaluated the -- particularly the environmental impacts of  
2237 ongoing storage at both a 6,100 and indefinite year time  
2238 period.

2239 \*Ms. Matsui. Okay, so that is yes.

2240 \*Mr. Hanson. Yes.

2241 \*Ms. Matsui. Okay. Do you expect communities like  
2242 Sacramento to manage nuclear waste for hundreds of thousands  
2243 of years?

2244 \*Mr. Hanson. I am sorry?

2245 \*Ms. Matsui. Do you expect my district in Sacramento to

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2246 manage nuclear waste for hundreds of thousands of years?

2247 \*Mr. Hanson. No, ma'am.

2248 \*Ms. Matsui. Okay. Is it fair to say that it would be  
2249 safer to store spent fuel as a smaller number of consolidated  
2250 storage sites?

2251 \*Mr. Hanson. It is currently stored safely around the  
2252 country. And if we were to license a consolidated spent fuel  
2253 storage site, it would also be safely stored there.

2254 \*Ms. Matsui. Okay. In the long run, do you agree that  
2255 we need a comprehensive Federal waste management program to  
2256 ensure the safe storage of nuclear waste?

2257 \*Mr. Hanson. Yes, ma'am.

2258 \*Ms. Matsui. Okay. In addition to nuclear reactors,  
2259 the NRC licenses waste storage facilities including  
2260 consolidated interim storage facilities and repositories. Do  
2261 you have any concerns about the ability of the NRC to license  
2262 a safe, consolidated storage site for high-level nuclear  
2263 waste?

2264 \*Mr. Hanson. No, ma'am, I don't.

2265 \*Ms. Matsui. Okay.

2266 \*Mr. Hanson. We have issued two licenses already.

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2267           \*Ms. Matsui. So is it fair to say that the current  
2268   impasse on consolidated storage for high-level nuclear waste  
2269   is a policy problem, not a technical problem?

2270           \*Mr. Hanson. I would agree with that statement.

2271           \*Ms. Matsui. Okay. Thank you. We must address this  
2272   policy failure.

2273           The geologic repository at Yucca Mountain has been  
2274   stalled now for over 15 years, and I don't hear any nuclear  
2275   policy experts advocating to restart the project. What we  
2276   did hear from experts at this committee's recent nuclear  
2277   waste hearing was the need for consent-based siting, the need  
2278   for an interim storage, and the need for a second repository.

2279           I ask unanimous consent to submit for record an op ed  
2280   from the CEO of the American Nuclear Society calling for a  
2281   consent-based process to identify a second repository, Mr.  
2282   Chairman.

2283           \*Mr. Duncan. Without objection, so ordered.

2284           [The information follows:]

2285

2286           \*\*\*\*\*COMMITTEE INSERT\*\*\*\*\*

2287

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2288           \*Ms. Matsui. Thank you.

2289           To quote the nuclear -- American Nuclear Society, "We  
2290 feel it is naive and increasingly counterproductive to keep  
2291 putting all our eggs in the Yucca basket. Congress should  
2292 move to ensure that DoE has the resources it needs to begin a  
2293 consent-based process to identify a second, different  
2294 repository option.'" Chair Hanson, even if Yucca Mountain  
2295 were to open tomorrow, the license application for Yucca  
2296 Mountain was for 70,000 tons of waste. Is that correct?

2297           \*Mr. Hanson. That is correct.

2298           \*Ms. Matsui. DoE considered expanding Yucca Mountain to  
2299 handle up to 130,000 tons of spent fuel, but even that is not  
2300 enough space for all the expected waste from current reactors  
2301 and new advanced reactors. DoE has recently said that the  
2302 total expected waste from current reactors alone is 140,000  
2303 tons.

2304           Chair Hanson, assuming that nuclear power continues to  
2305 provide a significant portion of U.S. power needs for the  
2306 foreseeable future, is it prudent to plan for a second  
2307 repository?

2308           \*Mr. Hanson. Congresswoman, if I might, I would like to

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2309 provide a little historical context.

2310       As you probably know, in the Nuclear Waste Policy Act,  
2311 as it was passed in 1982, it envisioned two repositories in  
2312 the United States, one in the East and one in the West. It  
2313 was a policy decision in 1986 to end the search for a second  
2314 repository, and to focus on the three candidate sites that  
2315 were -- eventually, one of which was eventually chosen in the  
2316 Nuclear Waste Amendments Act of 1987. In that Act Congress  
2317 directed the Department of Energy to provide a report in or  
2318 around 2007 about the need at that point for a second  
2319 repository. And in that report in 2007 DoE reported that, as  
2320 you note, they thought they could expand Yucca Mountain et  
2321 cetera, and so they -- there was still no need at that time  
2322 for a second repository.

2323       But the original vision in the Nuclear Waste Policy Act,  
2324 in a way, still stands because of the statutory limit on the  
2325 first repository itself, which is 70,000 metric tons.

2326       \*Ms. Matsui. So we have to listen and provide DoE the  
2327 resources needed to explore options for the second  
2328 repository?

2329       \*Mr. Hanson. I think --

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2330           \*Ms. Matsui. Yes.

2331           \*Mr. Hanson. -- congressional direction in this area to  
2332 DoE and, I am sorry, you would probably have to talk to the  
2333 Department of Energy about that, as the developer of a -- of  
2334 any repository on that.

2335           \*Ms. Matsui. All right. Thank you very much, and I  
2336 yield back --

2337           \*Mr. Duncan. The gentlelady yields back.

2338           \*Ms. Matsui. And I have further questions, too.

2339           [The information follows:]

2340

2341           \*\*\*\*\*COMMITTEE INSERT\*\*\*\*\*

2342

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2343           \*Mr. Duncan. And I will now recognize the gentleman  
2344 from Virginia, Mr. Griffith, for five minutes.

2345           \*Mr. Griffith. Thank you very much, Mr. Chairman. I  
2346 would like to address mandatory hearings, which, in my  
2347 opinion, these hearings can run up the Nuclear Regulatory  
2348 Commission fees for applicants, waste time, and force staff  
2349 redundancy.

2350           About how much of these application review costs would  
2351 be estimated to be added to? And I know that you all are  
2352 going to get to that. And last year some of you all and the  
2353 NRC executive director of operations told the committee that  
2354 mandatory hearings are not necessary to protect the public.  
2355 I commend the Commission in its recent vote to make the  
2356 process more efficient. However, my legislation, H.R. 6464,  
2357 the Efficient Nuclear Licensing Hearings Act, is still  
2358 necessary to eliminate some of these redundant hearings.

2359           Commissioner Caputo, would the Efficient Nuclear  
2360 Licensing Hearings Act enable the NRC to better allocate its  
2361 resources?

2362           \*Ms. Caputo. Yes, I believe it would.

2363           \*Mr. Griffith. And will amending the law on mandatory



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2364 hearing requirements add more efficiency and timeliness to  
2365 the NRC licensing decisions?

2366 \*Ms. Caputo. I believe it would, particularly if we  
2367 begin to see a lot of applications come through.

2368 While the Commission has voted to streamline the process  
2369 as best it can, the reality, I think, is that if we start to  
2370 see significant numbers of applications, that will be a  
2371 significant portion of work on the Commission itself. And I  
2372 think this mandatory hearing is largely a historical artifact  
2373 that pre-dates all of our public outreach, which I list at  
2374 length in my vote on the mandatory hearing.

2375 \*Mr. Griffith. And I understand there is, like, 20  
2376 other opportunities for public comment. Is that correct?

2377 \*Ms. Caputo. Yes, and in openness, I -- the requirement  
2378 for mandatory hearing certainly pre-dates our principles of  
2379 good regulation which focus on openness. Our strategic plan,  
2380 fully one-third of the strategies in it, focus on stakeholder  
2381 engagement.

2382 There are lots of opportunities, as you mentioned,  
2383 during the license application process, there are tips on our  
2384 website, instructions on how to file comments, how to file

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2385 contentions, how to find information. There are contacts  
2386 listed for all license application pages at the bottom so  
2387 that people can call a project manager with questions.

2388         So there are numerous ways for the public to both find  
2389 information and engage in the process that did not exist at  
2390 the time the mandatory hearing requirement was enshrined.

2391         \*Mr. Griffith. Well, and I think repealing the  
2392 mandatory hearing will allow the NRC staff and the Commission  
2393 to focus on new nuclear technologies and complex licensing  
2394 matters, as well as allowing staff to focus time on safety  
2395 enforcement and inspection activities. Would you agree with  
2396 that?

2397         \*Ms. Caputo. Yes, I would.

2398         \*Mr. Griffith. All right, I appreciate that.

2399         We are also doing some, I think, exciting things in  
2400 Virginia, with Governor Youngkin working on small modular  
2401 reactors. We are hoping -- it looks like they have moved  
2402 east on us, we were hoping we would get the first one in  
2403 Virginia, in my district. But I do think it will happen at  
2404 some time. And I know that you all have worked with the  
2405 Tennessee Valley Authority on early site license.

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2406           Could -- and I will go -- I will stick with you, Ms.  
2407 Caputo, but if you think somebody else should have it, then  
2408 just say, "Defer.'" But could you all talk a little bit  
2409 about the actual sites, and how they are evaluated?

2410           Because one of the concerns that has been raised in my  
2411 district by some opponents is that we have a lot of karst  
2412 formation, and my understanding is that the site would be  
2413 well vetted so if there is a cave a few feet underneath, they  
2414 probably wouldn't put it there. Is that fairly accurate, or  
2415 -- what do you all do to get the sites evaluated to make sure  
2416 we are not putting it in a location --

2417           \*Ms. Caputo. Yes, geology --

2418           \*Mr. Griffith. -- that might go --

2419           \*Ms. Caputo. Geology is one significant component of  
2420 it. Seismology, weather patterns, flooding, all kinds of  
2421 external hazards would be reviewed before determining whether  
2422 or not it would be a safe location to host a nuclear plant.

2423           \*Mr. Griffith. So you are not going to put it over top  
2424 of a potential sinkhole?

2425           \*Ms. Caputo. No.

2426           \*Mr. Griffith. I wouldn't think so. But there are

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2427 people who don't understand your process in my district who  
2428 are concerned because we know that we have a lot of karst  
2429 formation. But every one of our mountains is a little bit  
2430 different. They may have been formed similarly, but  
2431 sometimes they end up completely different. And placing it,  
2432 you know, on one mountain is a lot different than placing it  
2433 on another. Would you agree with that, as well?

2434           \*Ms. Caputo. Absolutely.

2435           \*Mr. Griffith. Absolutely. I appreciate your time,  
2436 and --

2437           \*Ms. Caputo. It stresses the importance of public  
2438 communication both by any of the industry applicants, but  
2439 also on the part of the NRC once we are engaged in the  
2440 process.

2441           \*Mr. Griffith. Yes, ma'am. And I appreciate all of  
2442 you, and appreciate you all being here today and answering  
2443 our questions.

2444           I yield back, Mr. Chairman.

2445           \*Mr. Duncan. The gentleman yields back, I will go to  
2446 the gentleman from California, Mr. Cardenas, for five  
2447 minutes.

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2448           \*Mr. Cardenas. Thank you very much, Chairman Duncan and  
2449 also Ranking Member DeGette, for having this hearing today,  
2450 and also I would like to thank the chairman and commissioners  
2451 of the Nuclear Regulatory Commission for being here, as well,  
2452 and answering our questions in full view of the public.

2453           To date the United States has generated nearly 90,000  
2454 metric tons of spent fuel, and it is estimated that by 2075  
2455 that number could grow to nearly 140,000 metric tons.  
2456 Despite the Nuclear Waste Policy Act having called for a  
2457 permanent repository to be set up by 1998, to this date we  
2458 still have no short or long-term consolidated site to accept  
2459 our nation's nuclear waste. As I have expressed many times  
2460 before, while I recognize that nuclear is a carbon-free,  
2461 reliable energy source, I have serious concerns about  
2462 saddling our children, grandchildren, and the generations to  
2463 come with that highly radioactive waste that has nowhere to  
2464 go.

2465           Chairman Hanson, last year you and I spoke about the  
2466 life cycle of nuclear waste. During our conversation you  
2467 said that there is a reasonable assurance that the systems we  
2468 have in place to store spent fuel will protect the public in

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2469 the near term. However, as we discussed, the radioactive --  
2470 radioactivity of nuclear waste will last 500 years and, in  
2471 many cases, longer.

2472 With that in mind, it is of utmost importance that we  
2473 take the necessary steps to keep our communities protected in  
2474 the long term. The Department of Energy itself has  
2475 determined that an interim storage facility is needed to help  
2476 manage our nation's nuclear waste, and it has been agreed  
2477 upon by the international scientific community that spent  
2478 fuel must be buried in deep geologic repositories, otherwise  
2479 known as DGRs, to keep future generations safe.

2480 In terms of public health and safety, what is at risk in  
2481 the long term if we do not online an interim storage facility  
2482 and deep geologic repository domestically?

2483 \*Mr. Hanson. Congressman, thank you for the question.

2484 We are -- we have over 4,000 spent fuel storage casks  
2485 that have been loaded, and we have not seen an issue with  
2486 those today. And I know you are talking about the long term  
2487 solution for this. We are, however, at the NRC, focused on,  
2488 say, a period of anywhere from 40 to 80 years in the current  
2489 storage casks while a long-term solution and a policy of the

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2490 U.S. Government is worked out.

2491 And it is primarily a policy conundrum, and much less of  
2492 a technical one. We manage spent fuel safely every day in  
2493 this country. As you said, there is quite a lot of it out  
2494 there. And we at the NRC have a robust set of safety  
2495 standards and inspection processes to ensure that that is the  
2496 case.

2497 \*Mr. Cardenas. Most of this spent fuel is created by  
2498 the government or private industry? Most.

2499 \*Mr. Hanson. Well, most of it is in the possession of  
2500 private industry. There is a contract with the government to  
2501 eventually take that.

2502 \*Mr. Cardenas. Okay, thank you. As you know, Finland  
2503 is currently on its way to becoming the first nation to bury  
2504 spent nuclear fuel in a deep geologic repository.

2505 Also, Chairman Hanson, can you discuss how permanent  
2506 disposal in deep geologic repositories would ensure the  
2507 health and safety of the communities in centuries to come?

2508 Can you discuss any lessons learned from Finland that we  
2509 can apply here in the United States?

2510 \*Mr. Hanson. Yes, thank you. We have watched closely

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2511 the experience in Finland, Sweden, and in Canada, and  
2512 particularly with regard to a consent-based process. And the  
2513 early engagement and education of the community in Finland  
2514 was particularly noteworthy, how they went to the community,  
2515 got the community's agreement and support for the development  
2516 of the facility itself has been, I think, an important lesson  
2517 learned for the world.

2518       \*Mr. Cardenas. Okay, thank you. Unfortunately, our  
2519 nation has a history of siting commercial nuclear reactors in  
2520 communities that did not consent to house such sites. Lack  
2521 of consent, broken promises, and a failure to follow through  
2522 have all led to understandable distrust in many communities.

2523       Recently, under Congress's direction, the DoE began  
2524 carrying out a consent-based siting process to identify  
2525 communities that might be interested in hosting an interim  
2526 nuclear waste storage facility. Mr. Chairman, what role do  
2527 you believe consent-based siting can play in ensuring the  
2528 licensing of future storage facilities -- that it goes  
2529 smoothly?

2530       \*Mr. Hanson. Well, Congressman, at this stage I think  
2531 it is important to emphasize the NRC's role here, which is



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2532 strictly a safety and technical one. We are going to look at  
2533 that information, we are going to look at the operations of  
2534 the facility, we are going to look at the technology that  
2535 they use to ensure the protection of the public and the  
2536 environment.

2537 How the Department of Energy elects to get to that place  
2538 where they want to submit a license application to us for  
2539 that facility, that is going to be largely on kind of -- on  
2540 their end. We will have an obligation as part of that  
2541 process to communicate clearly with the public about what our  
2542 standards are and how we have reached our safety conclusions.

2543 \*Mr. Cardenas. Thank you.

2544 Mr. Chairman, my time expired, I yield back.

2545 \*Mr. Duncan. The gentleman yields back. I will now  
2546 recognize the gentleman who has the nation's newest nuclear  
2547 reactors up and running at Plant Vogtle. Mr. Allen is  
2548 recognized for five minutes.

2549 \*Mr. Allen. Thank you, Mr. Chairman, and I appreciate  
2550 you holding this important hearing today. And thank you for  
2551 being here as your commissioners of the Nuclear Regulatory  
2552 Commission.

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2553 I think we are all in agreement that our energy demand  
2554 is growing at a rapid pace. We are going to need more  
2555 energy. Nuclear energy is critical for energy security.  
2556 Here in the United States it is affordable, reliable, and  
2557 clean, with baseload capacity.

2558 I am no stranger, as the chairman mentioned, to the  
2559 importance of the Nuclear Regulatory Commission, as my  
2560 district, the 12th district of Georgia, is home to Plant  
2561 Vogtle. Plant Vogtle has units 3 and 4, which are the first  
2562 new reactors built in the United States in over three  
2563 decades. With units 3 and 4 in full commercial operation,  
2564 Plant Vogtle is the largest nuclear power station in the  
2565 country. I am proud of all the co-owners who persevered  
2566 during this project which showed that America can still do  
2567 big things.

2568 This Congress we have made great strides in advancing  
2569 nuclear energy policy, most notably with the ADVANCE Act.  
2570 Provisions from my bill, the Nuclear Licensing Efficiency  
2571 Act, were signed into law as part of the ADVANCE Act.  
2572 Section 505 of the ADVANCE Act implements new efficiency  
2573 requirements based on this legislation. The provision

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2574 requires NRC to establish techniques and guidance for  
2575 evaluating applications for licenses for nuclear reactors to  
2576 support efficient, timely, and predictable reviews of  
2577 applications for those licenses to enable the safe and secure  
2578 use of nuclear reactors. It provides periodic reviews and  
2579 performance metrics. It seeks to drive efficiency  
2580 improvements.

2581 Chairman Hanson, what is the timing for implementing  
2582 these new provisions?

2583 \*Mr. Hanson. Thank you, Congressman.

2584 I think this is a provision that we can get rolling on  
2585 right away. I think, as I mentioned earlier, the Commission  
2586 and the agency needs to move towards these Nth-of-a-Kind  
2587 deployments, where you have a standardized design on the same  
2588 site or even a very similar site. And so my understanding is  
2589 we can get a lot of that, a lot of the review time, and  
2590 achieve a lot of efficiencies through that standard design,  
2591 where we are looking at similar Nth-of-a-Kind-type  
2592 deployments.

2593 \*Mr. Allen. Well, is this coming soon enough?

2594 \*Mr. Hanson. I am sorry?

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2595           \*Mr. Allen. I said this -- you know, is this fast  
2596 enough to meet the coming demand?

2597           \*Mr. Hanson. I think we are already starting to see  
2598 this with -- there is a small reactor project in Tennessee --

2599           \*Mr. Allen. Okay.

2600           \*Mr. Hanson. -- where we are seeing efficiencies  
2601 already achieved in the second-of-a-kind, and we will see it  
2602 with third and fourth, as well. So we are doing this now,  
2603 and I look forward to reporting back to you on the  
2604 implementation of the provision.

2605           \*Mr. Allen. Well, there are a number of advanced  
2606 reactor designs at various stages of review that, if  
2607 approved, would result in design certification. However, if  
2608 a utility wanted to pursue construction of new reactor in the  
2609 near term, my understanding is that there is only one  
2610 certified design that is of proven construction and operating  
2611 record, and that is the Westinghouse AP 1000 design, the  
2612 design that was used at Plant Vogtle. I understand that the  
2613 NRC design certifications are for 15 years, and the current  
2614 AP 1000 design certification expires on February 2026.

2615           I also understand that two years ago staff recommended

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2616 removing the expiration date for designs that have been  
2617 certified, but that it needs the Commission's approval for  
2618 implementing that recommendation. This seems like a no-  
2619 brainer to me, but it hasn't happened yet.

2620 Commissioner Wright, I understand you have offered a  
2621 proposal to take on this issue as a standalone matter. Where  
2622 does the Commission stand on the decision to remove the  
2623 expiration date for design certifications, as the NRC staff  
2624 has proposed?

2625 And when can we expect a final decision?

2626 \*Mr. Wright. Thank you for the question.

2627 So I proposed a COM. I took it out of another SECY that  
2628 we had on the Part 50/52 alignment, because this is -- to me,  
2629 it is a very common-sense solution to -- that we could do  
2630 right away. I just thought it was good because no one is  
2631 going to invest, no one is going to buy something that is not  
2632 certified or has a license. So if it is in process, it is in  
2633 some kind of review, it sends the wrong message. And this  
2634 was an opportunity to do something that proved -- that would  
2635 prove that we could do something --

2636 \*Mr. Allen. Yes.

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2637           \*Mr. Wright. -- right away, and get --

2638           \*Mr. Allen. Well, and, you know, it had been 30 years  
2639 since we had built reactors. There was a learning curve and,  
2640 obviously, some setbacks. But unit four was much, much  
2641 faster, more efficiently built. And so now we know how to do  
2642 these things, so let's --

2643           \*Mr. Wright. Right.

2644           \*Mr. Allen. -- let's look at this option.

2645           And with that, my time is out. I have some more  
2646 questions. I will submit them to you in writing.

2647           [The information follows:]

2648

2649           \*\*\*\*\*COMMITTEE INSERT\*\*\*\*\*

2650

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2651           \*Mr. Allen. And Mr. Chairman, I yield back.

2652           \*Mr. Duncan. The gentleman yields back. I will now go  
2653 to the gentleman from Texas, Mr. Pfluger, for five minutes.

2654           \*Mr. Pfluger. Thank you, Mr. Chairman, and thanks for  
2655 the witnesses being here.

2656           I know we have had conversations in the past, and there  
2657 is some of these issues I will bring up later, but I think  
2658 the sentiment that has been discussed here is that we know we  
2659 need more power, we know we need more primary sources, we  
2660 know that baseload capacity is important. That is important  
2661 in my district. I represent the Permian Basin. There is a  
2662 lot of requirements that are continuing to increase for  
2663 electricity there, whether it be the production of  
2664 hydrocarbons or data centers or just normal life.

2665           And so, when you look at that, I think the first  
2666 question for you all deals with the processes, the business  
2667 model, the licensing of these microreactors, of, you know,  
2668 the whole value chain. Are we operating at the speed of  
2669 relevancy? Are we actually getting to the point?

2670           And I don't think, you know, when you look at industry,  
2671 they need stuff now. Sixty days, six months, or sixty months

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2672 -- we need to be in the days range. And so, Chair, I will  
2673 start with you. Tell us about the business model. Tell us  
2674 where we are on operating and licensing at the speed of  
2675 relevancy, because we have got to compete around the world.

2676 \*Mr. Hanson. Yes. Thank you, Congressman.

2677 We are leaning into this area from a regulatory  
2678 standpoint. We have got a policy paper in front of the  
2679 Commission right now that looks at how to adapt our existing  
2680 regulations, just what we can do today, with some basic  
2681 policy changes to adapt to the business model.

2682 As you know, you know, there is a significant interest  
2683 in the Permian Basin for oil and gas production alone in  
2684 these microreactors and deploying them, and the factory  
2685 production of these that could be as quick as, you know, one  
2686 a month or one every two months. And so staff came to us and  
2687 said, "Look, we can accommodate some of this under our  
2688 existing regulations in the following ways. Hey, what do you  
2689 think?" And that is under consideration now.

2690 But we have got the next paper, actually, from the staff  
2691 that would kind of move us along that next chain. And so I  
2692 can tell you this is an area of interest and focus for the



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2693 Commission. We want to make sure that we are being flexible.  
2694 We don't want to lead anybody down the garden path either,  
2695 and make sure that we have got -- we are making some  
2696 sustainable decisions in this way so that business can  
2697 develop the way it wants to.

2698       \*Mr. Pfluger. Well, I want to advocate for companies  
2699 like Shepherd Power that have recently sent a letter that,  
2700 obviously, it is important that they -- we are making  
2701 billions of dollars of investments right now as a country,  
2702 and we need that framework to operate at the speed of  
2703 relevancy. And so I can't advocate enough to do that.

2704       Likewise, when you look at our ability to export, I  
2705 mean, we have traveled into Eastern Europe, specifically into  
2706 the Czech Republic and Poland. The chair of this full  
2707 committee led a CODEL there last year, and you see that they  
2708 are trying every single day to add to their baseload power.  
2709 The export market just in the next 10 years -- I mean, you  
2710 guys know this better than anybody -- we are talking 600,  
2711 700, \$800 billion, but we are not competing with China and  
2712 Russia right now because they are out there selling their  
2713 technology.

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2714           And I want to make sure that on the export, are we set  
2715 up -- and I will go to you, Commissioner Wright -- are we set  
2716 up right now to deal with export licenses to get to our  
2717 allies and to add to their capability for baseload power?

2718           \*Mr. Wright. Thank you for the question. So I believe  
2719 we can do it, yes, but we have got to have stuff to sell that  
2720 is licensed and certified, right? And I think that we -- so  
2721 we have got to provide that pathway right away. We have got  
2722 to make it happen. Again, strike zone over home plate, the  
2723 safety strike zone. We have to maintain that. But we have  
2724 got to get these people through the process.

2725           \*Mr. Pfluger. And do we think that there are areas that  
2726 can be made more efficient that the four of you have direct  
2727 responsibility over that you can affect right now?

2728           \*Mr. Wright. I believe we can, and we have started with  
2729 the appointment of a new EDO that is going to be the change  
2730 agent and lead that change that the Commission is trying to  
2731 focus on. And we are going to drive that change all the way  
2732 down.

2733           \*Mr. Pfluger. This is a national security issue. All  
2734 over the world, when we hear from our partners, our allies,

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2735 and countries who may not even be at that status, they say,  
2736 "You know, you tell us not to engage with China on Huawei and  
2737 ZTE for telecommunications, but you offer us no  
2738 alternative.'" Likewise, Westinghouse and some of these  
2739 companies, they do have products, and we can export, and we  
2740 can be a part of the solution. But I am asking you all to be  
2741 a part of that. And if you don't have the authorities that  
2742 you need to do that, come back to us.

2743         Thirty seconds left. I voiced previously my concerns  
2744 about interim storage. It affects my district. It affects  
2745 the Permian Basin. We have had the geological discussion  
2746 already. Do we believe that the process now engages  
2747 communities that will highlight those safety issues --  
2748 Commissioner Caputo, and I will just keep going down the line  
2749 -- because that is a big deal for interim storage.

2750         And I can't agree more with my colleagues on the other  
2751 side of the aisle. We need a permanent site. I think I know  
2752 where that is.

2753         Over to you.

2754         \*Ms. Caputo. Well, "permanent site" is a policy issue  
2755 for Congress.

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2756           Certainly, during the process of licensing such a site,  
2757           there are multiple opportunities for public engagement and  
2758           public input. So clearly, we have communicated to the best  
2759           of our ability and, obviously, the feelings of the community  
2760           and the state are clear. So this is a matter pending for  
2761           consideration before the Supreme Court. So I really would  
2762           hesitate to comment much further.

2763           \*Mr. Pfluger. Mr. Chairman, I yield back. Thank you.

2764           \*Mr. Duncan. The gentleman yields back. I will now go  
2765           to Pennsylvania, Dr. Joyce, for five minutes.

2766           \*Mr. Joyce. Thank you, Chairman Duncan and Ranking  
2767           Member DeGette, for allowing me to waive on to today's  
2768           hearing, and thanks to our commissioners for coming.

2769           Nuclear power currently provides approximately 30  
2770           percent of the electricity that is utilized in my home state  
2771           of Pennsylvania, and I am excited about the interest in  
2772           Pennsylvania's existing nuclear fleet. Amazon is looking to  
2773           build data centers near the Susquehanna Steam Electric  
2774           Station, and there are even talks of restarting the recently-  
2775           retired Three Mile Island plant. This interest is also  
2776           driving utilities around the country to seek relicensing for

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2777 their reactors to operate for 80 years. All of this interest  
2778 shows that there is a great market potential for the  
2779 deployment of advanced nuclear power.

2780 By taking the clean, safe, and reliable traits of large-  
2781 scale nuclear and shrinking the size, small modular reactors  
2782 and micro-reactors can provide energy to a new market of end  
2783 users. Data centers and AI are expanding rapidly in places  
2784 like Pennsylvania and Virginia. They will be critical  
2785 components of advanced economics moving forward. They are  
2786 also incredibly energy intensive, and are causing the largest  
2787 significant increase in demand from our grid in decades.  
2788 Nuclear can and should be the answer for the reliable energy  
2789 that these new data centers need.

2790 Earlier this year I visited a Westinghouse facility in  
2791 Pittsburgh, where the company is using their long history of  
2792 innovation to make widespread availability of microreactors a  
2793 reality. Westinghouse has transformed an old steel factory  
2794 in Pittsburgh into a manufacturing facility for this new  
2795 technology, bringing family-sustaining jobs back to  
2796 Pennsylvania.

2797 We need to do everything that we can to enable this

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2798 innovation. If current regulations for nuclear waste are a  
2799 hindrance for this new technology, we need to be able to have  
2800 discussions on how we can safely reform them to allow  
2801 advanced nuclear to thrive.

2802 Chair Hanson, the Nuclear Energy Institute sent a letter  
2803 to the Office of New Reactor Regulation on May 31 with a  
2804 concept paper for regulating rapid, high-volume production of  
2805 microreactors in remote locations. This will require the  
2806 Commission staff to think outside of the box. The paper  
2807 identified 31 regulatory topics that would need to be  
2808 addressed to enable this new approach to regulation. In  
2809 light of what is necessary to meet these new business models,  
2810 what could revolutionize the deployment of nuclear  
2811 technology, and what needs to change at the staff level to  
2812 get this work completed?

2813 \*Mr. Hanson. Congressman, thank you.

2814 As I mentioned to Congressman Pfluger, this is an area  
2815 of, I think, of great interest to -- across the Commission.  
2816 There are a couple of things, I think, and I put them in  
2817 three buckets, if you will. First is policy changes that the  
2818 Commission can make itself. Then there is a potential for

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2819 rulemaking. There is a provision in the ADVANCE Act that  
2820 directs us to look at a microreactor-specific rulemaking that  
2821 we can start working on now. And then there are potentially  
2822 changes to the Atomic Energy Act itself.

2823 For example, there is a 60-day hearing notice  
2824 requirement for the deployment of any new reactor. But if  
2825 you have a reactor that is rolling off an assembly line in  
2826 timeframes that are shorter than that, then how does that  
2827 provision get implemented? I think that is just one example  
2828 of potentially other issues that may need to be addressed,  
2829 and I think we should proceed with the issues that the  
2830 Commission can tackle itself now, but then work with the  
2831 Congress going forward on any other changes that are needed.

2832 \*Mr. Joyce. Well, let's continue that, because I think  
2833 you bring a great discussion point into this.

2834 Another NEA letter on May 8 of this year highlighted a  
2835 recent agency Differing Professional Opinion, a DPO, which  
2836 took nearly 950 days to resolve and delayed efforts to deploy  
2837 Accident Tolerant Fuel, a critical advancement for safety.  
2838 The recently enacted ADVANCE Act, which we have all been  
2839 referencing, directs the NRC to fix this broken process.

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2840           Chair Hanson, what does the slow DPO process signify  
2841 about leadership and management's ability to ensure NRC  
2842 performance that doesn't hinder the benefits of nuclear  
2843 technology?

2844           \*Mr. Hanson. Yes, well, obviously, Congressman, we  
2845 shouldn't have a 950-day DPO process. Differing Professional  
2846 Opinions and the accommodation of those is critical to  
2847 nuclear safety culture, but we have to have a process that  
2848 adjudicates those, addresses those quickly and efficiently in  
2849 one way or the other, so that the agency can move on with a  
2850 clear decision. And it is incumbent that the Commission set  
2851 expectations for senior leadership that that process reform  
2852 takes place.

2853           \*Mr. Joyce. And I think that -- I really want to  
2854 acknowledge you recognizing that a 950-day resolution is  
2855 inadequate and unacceptable, and your leadership in this  
2856 regard is paramount to turning this around.

2857           Mr. Chairman, again, I thank you for allowing me to  
2858 waive on, and I yield the remainder of my time.

2859           \*Mr. Duncan. The gentleman yields back.

2860           We generally don't let Senators participate in



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2861 committees, but -- not sworn in yet. The gentleman from  
2862 Utah, Mr. Curtis, is recognized for five minutes.

2863 \*Mr. Curtis. Thank you, Mr. Chairman. Your lips were  
2864 moving, but I couldn't really hear what you said.

2865 [Laughter.]

2866 \*Mr. Curtis. I don't need to tell all of you the  
2867 initial licensing from the NRC requires significant  
2868 resources, financial and other resources, which can be  
2869 challenging for smaller innovators. That is why I was really  
2870 pleased that my bipartisan Prize Act was included in the  
2871 ADVANCE Act and signed into law this month. I appreciate the  
2872 work of my friend, Congressman Tonko, in co-leading this  
2873 legislation, and look forward to working with the NRC on its  
2874 implementation.

2875 In short, the law will cover NRC fees for the first  
2876 licensed and operational reactors in certain categories, so  
2877 people who are cutting new ground and trying to innovate.  
2878 This will incentivize quality applications and make it easier  
2879 to deploy innovative technologies.

2880 Chair Hanson, could you just comment briefly on how we  
2881 get these innovators off the ground, and is this a good idea

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2882 to help them?

2883           \*Mr. Hanson. Yes, thank you, Congressman, and thank you  
2884 for that provision. I think it really strikes the right  
2885 balance.

2886           It is important for applicants to have some skin in the  
2887 game, I think, and to ensure high-quality applications. And  
2888 yet, where we can, we should be able to reduce the costs, as  
2889 well, so that we are not an impediment to that innovation and  
2890 those new and smaller movers in the market.

2891           \*Mr. Curtis. Thank you. And I am sure it is not lost  
2892 on any of us that nuclear has zero emissions, and is  
2893 something that we all want to move forward to. What steps  
2894 can we take to expedite permitting responsibly to bring more  
2895 of these projects online?

2896           And how does Congress work with you to move that  
2897 process, to be quicker?

2898           \*Mr. Hanson. Yes, thank you. I think there are some  
2899 policy changes, and there are some process changes. We have  
2900 made some policy changes already in -- at the Commission in  
2901 the last year. We mentioned the mandatory hearing process in  
2902 the course of this hearing. Part 53, the new regulation for

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2903 advanced reactors, is a risk-informed and much more flexible  
2904 approach to this, but also things like physical security,  
2905 siting guidelines, emergency planning zones, et cetera, to  
2906 really adapt to the new reactor landscape.

2907 In terms of the reviews themselves, then we are talking  
2908 about a core team approach, pre-application engagement,  
2909 rigorous project management, et cetera, to ensure the  
2910 timeliness and that the reviews are, frankly, risk-informed  
2911 and efficient in the way that they should be. And we are  
2912 seeing some success, but I think we have a ways to go in  
2913 this, too.

2914 \*Mr. Curtis. Yes, I get it. The balancing act is  
2915 important and difficult, and we can't compromise safety. But  
2916 at the same time, we have got to get moving and figure out  
2917 how to do this quicker.

2918 \*Mr. Hanson. Indeed.

2919 \*Mr. Curtis. Can you also just comment on keeping our  
2920 existing fleet operating, what you would like to see and what  
2921 we need to do to keep that existing fleet operational longer?

2922 \*Mr. Hanson. Well, I think continuing to improve the  
2923 efficiency of the subsequent license renewal process -- that

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2924 is, to get those reactors licensed out to 80 years that want  
2925 to do so, as well as the ones that want to operate out to 60  
2926 years, the provision in the ADVANCE Act about the reactor  
2927 oversight process, I think, is important, as well, getting  
2928 our -- getting the band back together on extended power  
2929 uprates, and making sure that that process is efficient when  
2930 those applications start to come in, as well as other things.

2931 I think overall, from a strategic standpoint, the thing  
2932 that I emphasize with the staff is we have been in business  
2933 now for 50 years. We have learned a lot of things, and it is  
2934 incumbent on us to use that knowledge to move forward and to  
2935 not do things the way we have always done them.

2936 \*Mr. Curtis. I appreciate that. I think I would echo  
2937 some of my colleague's words, which is we desperately need  
2938 you to be successful, and we desperately need the industry to  
2939 be successful. There is just no question the energy demands  
2940 are such that without nuclear, and a lot of nuclear, I don't  
2941 see how we are going to meet our energy goals, I don't see  
2942 how we are going to meet our climate goals. So I appreciate  
2943 all of your work and appreciate all that you are doing to  
2944 innovate and keep this ball moving forward.

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2945           And with that, Mr. Chairman, I yield my time.

2946           \*Mr. Duncan. The gentleman yields back. I now go to  
2947 Maryland's Mr. Sarbanes for five minutes.

2948           \*Mr. Sarbanes. Thanks very much, Mr. Chair, thank you  
2949 all for being here today.

2950           I am pleased that the committee has been working to  
2951 support the development of advanced nuclear reactors, the  
2952 next generation of our nuclear fleet that will help meet our  
2953 nation's energy demands. These reactors, as you know, are  
2954 poised to play an increasingly important role in our domestic  
2955 energy production portfolio, but their successful deployment  
2956 is contingent upon access to a well-trained domestic  
2957 workforce. To meet the industry's growing technical, legal,  
2958 safety, maintenance, and regulatory demands, we have to  
2959 ensure that we are facilitating a pathway to train the  
2960 highly-skilled professionals who will step into these roles.

2961           You may have touched on this already; I apologize if  
2962 that is the case. But Chair Hanson, I was encouraged on this  
2963 front to read in your testimony about the Commission's  
2964 request to support the University Nuclear Leadership Program  
2965 which provides grants to institutions to foster education in

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2966 nuclear science and engineering fields ranging from R&D to  
2967 scholarships to faculty development. Could you describe some  
2968 of the benefits you anticipate can result from the nuclear  
2969 energy traineeship program established under the recently  
2970 enacted ADVANCE Act?

2971 And how will these complement the existing University  
2972 Nuclear Leadership Program?

2973 \*Mr. Hanson. Thank you, Congressman, very much, and  
2974 thank you for that provision on the traineeship program  
2975 itself.

2976 You know, our University Nuclear Leadership Program is  
2977 often focused at nuclear engineering, you know, some of the  
2978 bigger nuclear engineering programs in the country or  
2979 universities that have played a historical role in the  
2980 nuclear energy landscape. But often times an unappreciated  
2981 or under-appreciated skill set that is required for nuclear  
2982 is, for instance, certified health physicists and radiation  
2983 protection personnel. And often times they are -- you know,  
2984 there isn't necessarily a lot of funding or academic programs  
2985 at these bigger universities.

2986 And so what this does, in my book, is really expand the

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2987 aperture of things that the NRC and potentially DoE, in  
2988 partnership with other parts of the government, can support  
2989 in developing the nuclear skill sets that are needed for the  
2990 future, both for the NRC but also kind of for the broader  
2991 nuclear ecosystem.

2992       \*Mr. Sarbanes. Are there other gaps you see in creating  
2993 a domestic nuclear workforce that we could be helping you all  
2994 address?

2995       \*Mr. Hanson. Well, I think this fits in quite nicely.  
2996 With the university program we re-established our minority-  
2997 serving institution program. Again, a lot of schools that  
2998 don't necessarily have nuclear engineering programs, you have  
2999 the traineeship part that can focus on the skilled workforce,  
3000 you know, welders carpenters, et cetera.

3001       So I think we should take the opportunity to implement  
3002 this, see how it fits together, and then see if there are any  
3003 gaps. And I would be happy to work with you in the future on  
3004 that.

3005       \*Mr. Sarbanes. Great. I mean, it is a very innovative  
3006 approach. I don't know of an industry that isn't dealing  
3007 with workforce shortages of one kind or another along the

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3008 skill spectrum, so to have a special initiative to address  
3009 that, I think, is really, really important.

3010 Did anyone else want to comment on that?

3011 Sure.

3012 \*Ms. Caputo. This university program has a really long  
3013 history, and really originated from the need to sustain  
3014 university programs like the chairman focused on, nuclear  
3015 engineering departments, et cetera. But it really was an  
3016 outgrowth of a DoE initiative to track how many programs  
3017 existed and how many students were choosing certain fields  
3018 and actually yielding graduates. And so we haven't seen that  
3019 level of tracking of positions for quite some time.

3020 And I think it is -- with the growth in industry that we  
3021 are -- that we expect to see, and the nature of the  
3022 competition in the workforce and other opportunities, it  
3023 might be useful to rethink tracking important fields, and  
3024 seeing whether or not there is a growth in enrollment and  
3025 graduates that are going to be necessary to power these  
3026 industries.

3027 \*Mr. Sarbanes. So that is important data collection  
3028 that needs to be done, yes.



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3029           \*Mr. Wright. Yes, thank you. This is really an  
3030 important area, because it is not just universities, right?

3031           I mean, a lot of the people that we are going to need in  
3032 some of these areas come from trade schools. They could come  
3033 from two-year institutions. And we have already spoken  
3034 about, you know, historically Black colleges, minority-  
3035 serving institutions, and the four-year programs that have --  
3036 that are established already.

3037           But in areas of HPs, and welders, and just builders, the  
3038 people who need those core trade skills, and then -- but see  
3039 then you got the people who are going to be doing the  
3040 bookwork, and the accountants, and stuff like that. They are  
3041 not all going to come from a university program, and I think  
3042 we have got to really build that up and recognize that  
3043 through working with industry to assess and identify those  
3044 areas.

3045           \*Mr. Sarbanes. It is really all hands on deck --

3046           \*Mr. Wright. All hands on deck.

3047           \*Mr. Sarbanes. -- is what you are describing. So thank  
3048 you all very much. I appreciate it.

3049           I yield back.

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3050           \*Mr. Duncan. The gentleman's time has expired. I will  
3051 now go to Mr. Balderson from Ohio.

3052           \*Mr. Balderson. Thank you, Mr. Chairman. Thank you all  
3053 for being here today.

3054           Commissioner Caputo and Commissioner Wright, I will  
3055 direct my first question to you both. We have held numerous  
3056 hearings and had many discussions in this subcommittee  
3057 regarding the increasing demand on our electrical grid and  
3058 concerns with resource adequacy and long-term grid  
3059 reliability. I think the ADVANCE Act shows clear, bipartisan  
3060 support for the new nuclear energy from this committee and  
3061 Congress, as well, as a whole.

3062           However, given the amount of reliable generation that  
3063 our grid operators have shown are at high risk of early  
3064 retirement, it is important the NRC also support and protect  
3065 our existing nuclear facilities, as well. I know we have  
3066 discussed this a little bit, but how will the ADVANCE Act or  
3067 other NRC initiatives support existing nuclear generation?

3068           Ladies first.

3069           \*Ms. Caputo. Well, I think one thing that really brings  
3070 it home for me is that there is a title in the bill that

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3071 says, "improving Commission efficiency,'" and that, I think  
3072 becomes an important starting point. Improving efficiency,  
3073 whether it is in regards to power uprate reviews to increase  
3074 power output of existing plants or the efficiency of license  
3075 renewal to extend the life of existing plants, we need to be  
3076 executing those reviews efficiently and predictably to make  
3077 sure that these assets are able to continue operating.

3078 \*Mr. Balderson. Commissioner Wright?

3079 \*Mr. Wright. I agree with everything that Commissioner  
3080 Caputo has said.

3081 We have also got to challenge ourselves to do a better  
3082 job, set some goals, stretch goals, you know, and adopt  
3083 metrics that are going to matter for us going down the road.  
3084 We have a huge opportunity. This is a new day. And the  
3085 ADVANCE Act, what you have done, is going to help us. So we  
3086 thank you.

3087 \*Mr. Balderson. Thank you.

3088 Ms. Caputo, go ahead. I was going to come back to you,  
3089 too, but go right ahead, ma'am.

3090 \*Ms. Caputo. And just to add, too, to what Commissioner  
3091 Wright was saying, part of this efficiency is having the

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3092 right processes, and that the processes are efficient, and  
3093 having the right people in place with the skills to execute  
3094 the review.

3095 But there is also a requirement here for leaders in the  
3096 agency to act with a sense of urgency and demonstrate that  
3097 sense of urgency so that the staff recognize, yes, the safety  
3098 must come first, but the decision needs to be efficient and  
3099 predictable.

3100 \*Mr. Balderson. Okay. And you talked a little bit  
3101 about it before, Commissioner Caputo, but the license renewal  
3102 in your testimony that you spoke of, can you expand a little  
3103 bit on how the committee would play a role in this?

3104 \*Ms. Caputo. How the Commission will play a role?

3105 \*Mr. Balderson. Yes.

3106 \*Ms. Caputo. Well, the Commission plays a role -- I  
3107 guess I would start from probably a budgeting position. We  
3108 need to make sure that we are budgeting adequate funds for  
3109 license renewal reviews. The industry certainly has  
3110 indicated that they expect a lot of subsequent license  
3111 renewal to come in. Over the long term, 90 percent of the  
3112 existing fleet is expected to come in.

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3113           Historically, in reviewing the first batch of initial  
3114   license reviews, the agency resourced itself to have 12 under  
3115   review at any one point in time. At this point, the  
3116   information we have been given by the staff suggests that --  
3117   it suggests a target of six. I think we need to focus on not  
3118   only making these reviews more streamlined, but also acting  
3119   with an expectation that we are reviewing 12 at a time to  
3120   ensure that we will be able to meet the industry's  
3121   requirements as we go through these reviews. They should be  
3122   -- this batch should be considerably more efficient than  
3123   initial license reviews.

3124           The issue with license extension has to do with aging  
3125   management of components that aren't routinely or  
3126   periodically swapped out. And so the aging management  
3127   programs that were reviewed and approved and inspected for  
3128   the first initial review -- first initial extension are in  
3129   place. So the nature of what we should be reviewing for a  
3130   second license extension really should be focused on anything  
3131   new and unique to that 20-year time span, because much of the  
3132   infrastructure for aging management, both from a utility  
3133   program standpoint and a regulatory standpoint, already

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3134 exists.

3135           \*Mr. Balderson. Okay, thank you. But I also am going  
3136 to call you -- from a committee standpoint, what can we do  
3137 also in this process for licensing renewal?

3138           And we are down to 15 seconds, please.

3139           \*Ms. Caputo. Hold us accountable for results. We need  
3140 to have metrics in place, but we need to actually execute  
3141 effectively. And that is going to take a leadership focus, I  
3142 think, to really communicate that these need to be done. We  
3143 have got a number of applications that have not been executed  
3144 in a timely fashion, and we need to correct that, finish the  
3145 ones that we have underway so that we are ready for the ones  
3146 that are going to come in.

3147           \*Mr. Balderson. Okay. I appreciate that answer. Thank  
3148 you very much.

3149           I yield back, Mr. Chairman.

3150           \*Mr. Duncan. The gentleman yields back. I now go to  
3151 the gentlelady from Iowa, Mrs. Miller-Meeks, for five  
3152 minutes.

3153           \*Mrs. Miller-Meeks. I thank you, Mr. Chairman, and  
3154 thank you for allowing me to waive on to this subcommittee

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3155 hearing today.

3156           Interestingly enough, my father, who was a career Air  
3157 Force-enlisted, was part of taking offline a nuclear power  
3158 plant in Fort Belvoir, Virginia, Sundance, Wyoming, and then  
3159 at Wright-Patterson Air Force Base. And even prior to me  
3160 being in Congress, I toured the Duane Arnold Nuclear Power  
3161 Plant in Palo, Iowa, which was a phenomenal facility now  
3162 offline, and even at that time, which was over a decade ago,  
3163 was informed about the workforce challenges and issues for  
3164 nuclear because we were not training individuals in nuclear  
3165 engineering or the other workforce needed.

3166           So that when we ramped up -- and as we know and as you  
3167 all have said -- and Commissioner Caputo, you mentioned in  
3168 your testimony, and I agree -- that affordable, reliable,  
3169 clean, abundant energy is the lifeblood of our economy and,  
3170 by all accounts, electricity demand -- and this is not new,  
3171 we have known for at least a decade that energy demand is  
3172 going up not only in the United States, but all across the  
3173 world. It is going to continue to grow, and nuclear energy  
3174 will play a key role in supplying our baseload energy  
3175 generation moving forward.

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3176           I also appreciate your comments about having the right  
3177 processes and, you know, would wonder, as I was director of  
3178 the Department of Public Health and we handled nuclear as it  
3179 comes through the state, introducing Lean Six Sigma into our  
3180 processes, that that may help in some of the efficiency you  
3181 are talking about.

3182           Outside of workforce and staffing resources, what do you  
3183 see as the biggest obstacle to your organizational readiness  
3184 to license new nuclear infrastructure, including advanced  
3185 reactor designs and fuel cycle facilities to handle advanced  
3186 fuel designs for new reactor types? I think you mentioned  
3187 that, that the efficiencies should increase after the first  
3188 few licenses.

3189           \*Ms. Caputo. Well, like any organization, with practice  
3190 we should demonstrate a learning curve. I think the  
3191 challenge for the NRC is we don't always. And some of that  
3192 may be, I think, attributable to training and personnel, and  
3193 certainly a sense of urgency on the part of leadership to  
3194 recognize that subsequent reviews should be getting smoother  
3195 and more efficient than the first time someone tries a new  
3196 process. So some of that, I think, gets back to leadership.



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3197           Some of it, I think, has to do with training. There was  
3198 a lot of concern, has been continuing concern with the  
3199 component of our workforce that is retirement-eligible. At  
3200 one point it was more than half. Now it is down around a  
3201 quarter. And with that, in managing that retirement wave, we  
3202 have hired 600 people. So this is about 20 percent of the  
3203 agency that has swapped out. And so we are facing -- while  
3204 we have been blessed and able to hire that many people, we do  
3205 have, I think, a knowledge management challenge and a  
3206 training challenge to make sure that we are hiring the right  
3207 people for the workload that is facing the agency, and that  
3208 they are trained and ready to execute the reviews that need  
3209 to be executed.

3210           So it is a leadership focus, but it is also a training  
3211 and knowledge management challenge.

3212           \*Mrs. Miller-Meeks. Yes. Well, certainly, one could  
3213 say that we are already behind. We are already a decade  
3214 behind in bringing new energy online, and especially given  
3215 the EPA's rules on taking power plants offline within eight  
3216 years, the time it takes to get a nuclear facility ramped up  
3217 to online.

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3218 I will just underscore your point that we hope that  
3219 everybody in the agency -- new hires, existing hires --  
3220 understands the urgency of what we are dealing with to get  
3221 energy, especially clean energy, demand to meet current  
3222 demands.

3223 With licensing fees set to comprise a smaller percentage  
3224 of your budget outlays in the coming fiscal year compared to  
3225 fiscal year 2024, how does the Commission intend to  
3226 prioritize licensing work among competing interests to  
3227 fulfill the congressional directives in the ADVANCE Act,  
3228 Commissioner Caputo?

3229 \*Ms. Caputo. This has been an ongoing challenge, I  
3230 think, for the agency. We had quite a peak in licensing  
3231 work, post-Fukushima, that has really waned over time. And  
3232 yet we have looming on the horizon quite a large opportunity  
3233 for work. So managing fees and budgeting appropriately has  
3234 been quite a challenge.

3235 When we budget for licensing work that doesn't come in,  
3236 it forces us to shift that budget authority into annual fee  
3237 space, which drives up the annual fees on existing licensees.  
3238 So it is a challenge for us to manage that. It is something

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3239 that we have certainly struggled with. It tends to result in  
3240 a fair amount of carryover, which we have seen. So we have  
3241 adequate resources, but we are not necessarily placing our  
3242 management focus on executing licensing work in a timely way,  
3243 and I think that is something that we very much need to hone  
3244 in on and improve so that when this wave of licensing work  
3245 hits, we have leadership and workforce trained and ready to  
3246 act in a very efficient way.

3247 \*Mr. Duncan. The gentlelady yields back. I want to  
3248 thank all the commissioners for being here today.

3249 As you see the waive-ons, there is a lot of interest in  
3250 this topic, and members may have additional written questions  
3251 for you all.

3252 I remind members they have 10 business days to submit  
3253 additional questions for the record, and I ask the witnesses  
3254 to do their best to submit responses within 10 business days.

3255 I ask unanimous consent to insert in the record  
3256 documents included on the staff hearing documents list.

3257 Without objection, that will be the order.

3258 [The information follows:]

3259

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3260 \*\*\*\*\*COMMITTEE INSERT\*\*\*\*\*

3261

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3262           \*Mr. Duncan. And thanks to all the staff for being  
3263 here, the interest in this hearing. And with that, we will  
3264 stand adjourned.

3265           [Whereupon, at 1:26 p.m., the subcommittee was  
3266 adjourned.]