PAT21766 6FG S.L.C.

AN	IENDMENT NO	Calendar No
Pu	assay low-enriched urani clear reactor demonstrati	etary of Energy to make high- um available for advanced nu- ion projects and accelerate the ally enriched, deconverted, and the United States.
IN	THE SENATE OF THE UNITE	CD STATES-117th Cong., 1st Sess.
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То	United States to deploy nupdate existing infrastruc	outdoor infrastructure of the ew and innovative technologies, ture to be reliable and resilient, structure against physical and er purposes.
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A	MENDMENT intended to be	proposed by Mr. Barrassa
Viz	:	
1	At the end of subtitle	C of title III, add the following:
2	SEC. 32 HA-LEU FOR A	DVANCED NUCLEAR REACTORS.
3	Section 2001 of the I	Energy Act of 2020 (42 U.S.C.
4	16281) is amended—	
5	(1) in subsection	(a)—
6	(A) in parag	graph (2)—
7	(i) in s	abparagraph (D)—

1	(1) in clause (v)(111), by adding
2	"or" after the semicolon at the end;
3	(II) by striking clause (vi); and
4	(III) by redesignating clause (vii)
5	as clause (vi); and
6	(ii) in subparagraph (E), by striking
7	"for domestic commercial use" and insert-
8	ing "to meet the needs of commercial, gov-
9	ernment, academic, and international enti-
10	ties"; and
11	(B) by redesignating paragraphs (6) and
12	(7) as paragraphs (8) and (6), respectively, and
13	moving the paragraphs so as to appear in nu-
14	merical order;
15	(2) in subsection $(b)(2)$ —
16	(A) by striking "subsection (a)(1)" each
17	place it appears and inserting "subsection
8	(b)(1)";
9	(B) in subparagraph (B)(viii), by striking
20	"subsection $(a)(2)(F)$ " and inserting "sub-
21	section $(b)(2)(F)$ "; and
22	(C) in subparagraph (D)(vi), by striking
23	"subsection (a)(2)(A)" and inserting "sub-
24	section (b)(2)(A)";
25	(3) in subsection (c)—

1	(A) by redesignating paragraphs (1)
2	through (5) as subparagraphs (A) through (E),
3	respectively, and indenting appropriately; and
4	(B) in the matter preceding subparagraph
5	(A) (as so redesignated)—
6	(i) by striking "There are" and insert-
7	ing the following:
8	"(7) Authorization of appropriations.—
9	There are"; and
10	(ii) by striking "in this section" and
11	inserting "under this subsection";
12	(4) in subsection (d)—
13	(A) by redesignating paragraphs (1)
14	through (6) as paragraphs (2), (3), (5), (6),
15	(7), and (8), respectively;
16	(B) by inserting before paragraph (2) (as
17	so redesignated) the following:
18	"(1) ADVANCED NUCLEAR REACTOR.—The
19	term 'advanced nuclear reactor' has the meaning
20	given the term in section 951(b) of the Energy Pol-
21	iey Act of 2005 (42 U.S.C. 16271(b))."; and
22	(C) by inserting after paragraph (3) (as so
23	redesignated) the following:
24	"(4) Department.—The term 'Department'
25	means the Department of Energy.";

1	(b) by moving paragraph (7) of subsection (e)
2	(as designated by paragraph (3)(B)(i)) so as to ap-
3	pear after paragraph (6) of subsection (a) (as redes-
4	ignated by paragraph (1)(B));
5	(6) by striking subsection (c);
6	(7) by redesignating subsections (a), (b), and
7	(d) as subsections (b), (g), and (a), respectively, and
8	moving the subsections so as to appear in alphabet-
9	ical order; and
10	(8) by inserting after subsection (b) (as so re-
11	designated) the following:
12	"(c) HA-LEU FOR ADVANCED NUCLEAR REACTOR
13	Demonstration Projects.—
14	"(1) Activities.—Not later than 30 days after
15	the date of enactment of the Energy Infrastructure
16	Act, the Secretary shall initiate activities to make
17	available HA-LEU, produced from inventories
18	owned by the Department, for use by advanced nu-
19	clear reactors, with priority given to the awards
20	made pursuant to the funding opportunity an-
21	nouncement of the Department numbered DE-
22	FOA-0002271 for Pathway 1, Advanced Reactor
23	Demonstrations, with additional HA-LEU to be
24	made available to members of the consortium estab-
25	lished under subsection (b)(2)(F), as available.

1	"(2) OWNERSHIP.—HA-LEU made available
2	under this subsection—
3	"(A) shall remain the property of, and title
4	shall remain with, the Department; and
5	"(B) shall not be subject to the require-
6	ments of section 3112(d)(2) and 3113 of the
7	USEC Privatization Act (42 U.S.C. 2297h-
8	10(d)(2), 2297h–11).
9	"(3) QUANTITY.—In carrying out activities
10	under this subsection, the Secretary, to the max-
11	imum extent practicable, shall make available—
12	"(A) by September 30, 2024, not less than
13	3 metric tons of HA-LEU; and
14	"(B) by December 31, 2025, not less than
15	an additional 15 metric tons of HA-LEU.
16	"(4) Factors for consideration.—In car-
17	rying out activities under this subsection, the Sec-
18	retary shall take into consideration—
19	"(A) options for providing HA–LEU from
20	a stockpile of uranium owned by the Depart-
21	ment (including the National Nuclear Security
22	Administration), including—
23	"(i) fuel that—

1	"(I) directly meets the needs of
2	the end-users described in paragraph
3	(1); but
4	"(II) has been previously used or
5	fabricated for another purpose;
6	"(ii) fuel that can meet the needs of
7	the end-users described in paragraph (1)
8	after removing radioactive or other con-
9	taminants that resulted from a previous
10	use or fabrication of the fuel for research,
11	development, demonstration, or deployment
12	activities of the Department (including ac-
13	tivities of the National Nuclear Security
14	Administration);
15	"(iii) fuel from a high-enriched ura-
16	nium stockpile, which can be blended with
17	lower assay uranium to become HA-LEU
18	to meet the needs of the end-users de-
19	scribed in paragraph (1); and
20	"(iv) fuel from uranium stockpiles in-
21	tended for other purposes, but for which
22	material could be swapped or replaced in
23	time in such a manner that would not neg-
24	atively impact the missions of the Depart-
25	ment;

1	"(B) options for providing HA-LEU from
2	domestically enriched HA-LEU procured by the
3	Department through a competitive process pur-
4	suant to the HA-LEU Bank established under
5	subsection (d)(3)(C); and
6	"(C) options to replenish, as needed, De-
7	partment stockpiles of uranium made available
8	pursuant to subparagraph (A) with domestically
9	enriched HA-LEU procured by the Department
10	through a competitive process pursuant to the
11	HA-LEU Bank established under subsection
12	(d)(3)(C).
13	"(5) LIMITATION.—The Secretary shall not
14	barter or otherwise sell or transfer uranium in any
15	form in exchange for services relating to—
16	"(A) the final disposition of radioactive
17	waste from uranium that is the subject of a
8	contract for sale, resale, transfer, or lease under
9	this subsection; or
20	"(B) environmental cleanup activities.
21	"(6) Appropriations.—In addition to
22	amounts otherwise made available, there is appro-
23	priated to the Secretary to carry out this subsection,
24	out of any amounts in the Treasury not otherwise

1	appropriated, \$200,000,000 for each of fiscal years
2	2022 through 2026.
3	"(7) Sunset.—The authority of the Secretary
4	to carry out activities under this subsection shall ter-
5	minate on the earlier of—
6	"(A) September 30, 2027; and
7	"(B) the date on which the HA-LEU
8	needs of the end-users described in paragraph
9	(1) can be fully met by commercial enrichers in
10	the United States.
11	"(d) Commercial HA-LEU Availability.—
12	"(1) Establishment.—Not later than 180
13	days after the date of enactment of the Energy In-
14	frastructure Act, the Secretary shall establish a pro-
15	gram (referred to in this subsection as the 'pro-
16	gram') to accelerate the availability of commercially
17	produced HA-LEU in the United States in accord-
18	ance with this subsection.
19	"(2) Purposes.—The purposes of the program
20	are—
21	"(A) to provide for the availability of HA-
22	LEU enriched, deconverted, and fabricated in
23	the United States;
24	"(B) to address nuclear supply chain
25	issues in the United States; and

1	"(C) to support strategic nuclear fuel cycle
2	capabilities in the United States.
3	"(3) Considerations.—In carrying out the
4	program, the Secretary shall consider and, as appro-
5	priate, execute—
6	"(A) options to establish, through a com-
7	petitive process, a commercial HA-LEU pro-
8	duction capability of not less than 20 metric
9	tons of HA–LEU per year by—
10	"(i) December 31, 2026; or
11	"(ii) the earliest operationally feasible
12	date thereafter;
13	"(B) options that provide for an array of
14	HA-LEU-
15	"(i) enrichment levels;
16	"(ii) output levels to meet demand;
17	and
18	"(iii) fuel forms; and
19	"(C) options to establish, through a com-
20	petitive process, a HA-LEU Bank-
21	"(i) to replenish Department stock-
22	piles of material used in carrying out ac-
23	tivities under subsection (c); and
24	"(ii) after replenishing those stock-
25	piles, to make HA-LEU available to mem-

1	bers of the consortium established under
2	subsection $(b)(2)(F)$.
3	"(4) Appropriations.—In addition to
4	amounts otherwise made available, there is appro-
5	priated to the Secretary to carry out this subsection
6	out of any amounts in the Treasury not otherwise
7	appropriated, \$150,000,000 for each of fiscal years
8	2022 through 2031.
9	"(e) Cost Recovery.—
10	"(1) In general.—In carrying out activities
11	under subsections (c) and (d), the Secretary shall
12	ensure that any HA-LEU acquired, provided, or
13	made available under those subsections for members
14	of the consortium established under subsection
15	(b)(2)(F) is subject to cost recovery in accordance
16	with subsection $(b)(2)(G)$.
17	"(2) Availability of certain funds.—Not-
18	withstanding section 3302 of title 31, United States
19	Code, revenues received from the sale or transfer of
20	fuel feed material and other activities related to
21	making HA-LEU available pursuant to this sec-
22	tion—
23	"(A) shall be available to the Department
24	for carrying out the purposes of this section, to

1	reduce the need for further appropriations for
2	those purposes; and
3	"(B) shall remain available until expended.
4	"(f) Exclusion.—In carrying out activities under
5	this section, the Secretary shall not make available, or pro-
6	vide funding for, uranium that is recovered, downblended,
7	converted, or enriched by an entity that—
8	"(1) is owned or controlled by the Government
9	of the Russian Federation or the Government of the
10	People's Republic of China; or
11	"(2) is organized under the laws of, or other-
12	wise subject to the jurisdiction of, the Russian Fed-
13	eration or the People's Republic of China.".