

Appendix A
Federal Register Notices

APPENDIX A

FEDERAL REGISTER NOTICES

A.1 Notice of Intent – August 5, 2019



Federal Register / Vol. 84, No. 150 / Monday, August 5, 2019 / Notices

38021

for hearing may be made through the Commission's web-based comment system, a link to which is provided at www.drbc.gov. Use of the web-based system ensures that all submissions are captured in a single location and their receipt is acknowledged. Exceptions to the use of this system are available based on need, by writing to the attention of the Commission Secretary, DRBC, P.O. Box 7360, 25 Cosey Road, West Trenton, NJ 08628-0360. For assistance, please contact Paula Schmitt at paula.schmitt@drbc.gov.

Accommodations for Special Needs. Individuals in need of an accommodation as provided for in the Americans with Disabilities Act who wish to attend the meeting or hearing should contact the Commission Secretary directly at 609-883-9500 ext. 203 or through the Telecommunications Relay Services (TRS) at 711, to discuss how we can accommodate your needs.

Additional Information, Contacts. Additional public records relating to hearing items may be examined at the Commission's offices by appointment by contacting Denise McHugh, 609-883-9500, ext. 240. For other questions concerning hearing items, please contact David Kovach, Project Review Section Manager at 609-883-9500, ext. 264.

Dated: July 29, 2019.

Pamela M. Bush,
Commission Secretary and Assistant General Counsel.

[FR Doc. 2019-16610 Filed 8-2-19; 8:45 am]

BILLING CODE 6360-01-P

DEPARTMENT OF EDUCATION

[Docket No.: ED-2019-ICCD-0094]

Agency Information Collection Activities; Comment Request; HEAL Program; Physician's Certification of Borrower's Total and Permanent Disability

AGENCY: Federal Student Aid (FSA), Department of Education (ED).

ACTION: Notice.

SUMMARY: In accordance with the Paperwork Reduction Act of 1995, ED is proposing an extension of an existing information collection.

DATES: Interested persons are invited to submit comments on or before October 4, 2019.

ADDRESSES: To access and review all the documents related to the information collection listed in this notice, please use <http://www.regulations.gov> by searching the Docket ID number ED-2019-ICCD-0094. Comments submitted in response to this notice should be

submitted electronically through the Federal eRulemaking Portal at <http://www.regulations.gov> by selecting the Docket ID number or via postal mail, commercial delivery, or hand delivery. If the [regulations.gov](http://www.regulations.gov) site is not available to the public for any reason, ED will temporarily accept comments at ICDocketMgr@ed.gov. Please include the docket ID number and the title of the information collection request when requesting documents or submitting comments. *Please note that comments submitted by fax or email and those submitted after the comment period will not be accepted.* Written requests for information or comments submitted by postal mail or delivery should be addressed to the Director of the Information Collection Clearance Division, U.S. Department of Education, 550 12th Street SW, PCP, Room 9086, Washington, DC 20202-0023.

FOR FURTHER INFORMATION CONTACT: For specific questions related to collection activities, please contact Beth Grebeldinger, 202-377-4018.

SUPPLEMENTARY INFORMATION: The Department of Education (ED), in accordance with the Paperwork Reduction Act of 1995 (PRA) (44 U.S.C. 3506(c)(2)(A)), provides the general public and Federal agencies with an opportunity to comment on proposed, revised, and continuing collections of information. This helps the Department assess the impact of its information collection requirements and minimize the public's reporting burden. It also helps the public understand the Department's information collection requirements and provide the requested data in the desired format. ED is soliciting comments on the proposed information collection request (ICR) that is described below. The Department of Education is especially interested in public comment addressing the following issues: (1) Is this collection necessary to the proper functions of the Department; (2) will this information be processed and used in a timely manner; (3) is the estimate of burden accurate; (4) how might the Department enhance the quality, utility, and clarity of the information to be collected; and (5) how might the Department minimize the burden of this collection on the respondents, including through the use of information technology. Please note that written comments received in response to this notice will be considered public records.

Title of Collection: HEAL Program: Physician's Certification of Borrower's Total and Permanent Disability.

OMB Control Number: 1845-0124.

Type of Review: An extension of an existing information collection.

Respondents/Affected Public: Individuals or Households; State, Local, and Tribal Governments.

Total Estimated Number of Annual Responses: 78.

Total Estimated Number of Annual Burden Hours: 20.

Abstract: This is a request for an extension of OMB approval of information collection requirements associated with the form for the Health Education Assistance Loan (HEAL) Program, Physician's Certification of Borrower's Total and Permanent Disability currently approved under OMB No. 1845-0124. The form is HEAL Form 539. A borrower and the borrower's physician must complete this form. The borrower then submits the form and additional information to the lending institution (or current holder of the loan) who in turn forwards the form and additional information to the Secretary for consideration of discharge of the borrower's HEAL loans. The form provides a uniform format for borrowers and lenders to use when submitting a disability claim.

Dated: July 31, 2019.

Kate Mullan,

PRA Coordinator, Information Collection Clearance Program, Information Management Branch, Office of the Chief Information Officer.

[FR Doc. 2019-16620 Filed 8-2-19; 8:45 am]

BILLING CODE 4000-01-P

DEPARTMENT OF ENERGY

Notice of Intent To Prepare an Environmental Impact Statement for a Versatile Test Reactor

AGENCY: Office of Nuclear Energy, Department of Energy.

ACTION: Notice of intent.

SUMMARY: As required by the "Nuclear Energy Innovation Capabilities Act of 2017" the Department of Energy (DOE) assessed the mission need for a versatile reactor-based fast-neutron source. Having identified the need for such a fast-neutron source, the Act directs DOE to complete construction and approve the start of facility operations, to the maximum extent practicable, by December 31, 2025. To this end, the Department intends to prepare an environmental impact statement (EIS) in accordance with the National Environmental Policy Act (NEPA) and its implementing regulations. This EIS will evaluate alternatives for a versatile reactor-based fast-neutron source facility and associated facilities for the

38022

Federal Register / Vol. 84, No. 150 / Monday, August 5, 2019 / Notices

preparation, irradiation and post-irradiation examination of test/experimental fuels and materials.

DATES: DOE invites public comment on the scope of this EIS during a 30-day public scoping period commencing August 5, 2019, and ending on September 4, 2019. DOE will hold webcast scoping meetings on August 27, 2019 at 6:00 p.m. ET/4:00 p.m. MT and on August 28, 2019 at 8:00 p.m. ET/6:00 p.m. MT.

In defining the scope of the EIS, DOE will consider all comments received or postmarked by the end of the scoping period. Comments received or postmarked after the scoping period end date will be considered to the extent practicable.

ADDRESSES: Written comments regarding the scope of this EIS should be sent to Mr. Gordon McClellan, Document Manager, by mail at: U.S. Department of Energy, Idaho Operations Office, 1955 Fremont Avenue, MS 1235, Idaho Falls, Idaho 83415; or by email to VTR.EIS@nuclear.energy.gov. To request further information about the EIS or to be placed on the EIS distribution list, you may use any of the methods listed in this section. In requesting to be added to the distribution list, please specify whether you would like to receive a copy of the Summary and Draft EIS on a compact disk (CD); a printed copy of the Summary and a CD with the Draft EIS; a full printed copy of the Summary and Draft EIS; or if you prefer to access the document via the internet. The Draft EIS and Summary will be available at: <https://www.energy.gov/nepa>.

FOR FURTHER INFORMATION CONTACT: For information regarding the Versatile Test Reactor (VTR) Project or the EIS, contact Mr. Gordon McClellan at the address given above; or email VTR.EIS@nuclear.energy.gov; or call (208) 526-6805. For general information on DOE's NEPA process, contact Mr. Jason Sturm at the address given above; or email VTR.EIS@nuclear.energy.gov; or call (208) 526-6805.

SUPPLEMENTARY INFORMATION:

Background

Part of the mission of DOE is to advance the energy, environmental, and nuclear security of the United States and promote scientific and technological innovation in support of that mission. DOE's 2014-2018 Strategic Plan states that DOE will "support a more economically competitive, environmentally responsible, secure and resilient U.S. energy infrastructure." Specifically, "DOE will continue to explore advanced concepts in nuclear energy that may lead to new types of

reactors with further safety improvements and reduced environmental and nonproliferation concerns."

Many commercial organizations and universities are pursuing advanced nuclear energy fuels, materials, and reactor designs that complement the efforts of DOE and its laboratories in achieving DOE's goal of advancing nuclear energy. These designs include thermal and fast-spectrum¹ reactors targeting improved fuel resource utilization and waste management and utilizing materials other than water for cooling. Their development requires an adequate infrastructure for experimentation, testing, design evolution, and component qualification. Existing irradiation test capabilities are aging, and some are over 50 years old. The existing capabilities are focused on testing of materials, fuels, and components in the thermal neutron spectrum and do not have the ability to support the needs for fast reactors. Only limited fast-neutron-spectrum-testing capabilities, with restricted availability, exist outside the United States.

Recognizing that the United States does not have a dedicated fast-neutron-spectrum testing capability, DOE performed a mission needs assessment to assess current testing capabilities (domestic and foreign) against the required testing capabilities to support the development of advanced nuclear technologies. This needs assessment was consistent with the Nuclear Energy Innovation Capabilities Act of 2017, or NEICA, (Pub. L. 115-248) to assess the mission need for, and cost of, a versatile reactor-based fast-neutron source with a high neutron flux, irradiation flexibility, multiple experimental environment (e.g., coolant) capabilities, and volume for many concurrent users. This assessment identified a gap between required testing needs and existing capabilities. That is, there currently is an inability to effectively test advanced nuclear fuels and materials in a fast-neutron spectrum irradiation environment at high neutron fluxes. Specifically, the DOE Office of Nuclear Energy (NE), Nuclear Energy Advisory

¹ Fast neutrons are highly energetic neutrons (ranging from 0.1 to 5 million electron volts [MeV] and travelling at speeds of thousands to tens of thousands kilometers per second) emitted during fission. The fast-neutron spectrum refers to the range of energies associated with fast neutrons. Thermal neutrons are neutrons that are less energetic than fast neutrons (more than a million times less energetic [about 0.025eV] and travelling at speeds of less than 5 kilometers per second), having been slowed by collisions with other materials such as water. The thermal neutron spectrum refers to the range of energies associated with thermal neutrons.

Committee (NEAC) report, *Assessment of Missions and Requirements for a New U.S. Test Reactor*, confirmed that there was a need in the U.S. for fast-neutron testing capabilities, but that there is no facility that is readily available domestically or internationally. The NEAC study confirmed the conclusions of an earlier study, *Advanced Demonstration and Test Reactor Options Study*. That study established the strategic objective that DOE "provide an irradiation test reactor to support development and qualification of fuels, materials, and other important components/items (e.g., control rods, instrumentation) of both thermal and fast neutron-based advanced reactor systems." To meet its obligation to support advanced reactor technology development, DOE needs to develop the capability for large-scale testing, accelerated testing, and qualification of advanced nuclear fuels, materials, instrumentation, and sensors. This testing capability is essential for the United States to modernize its nuclear energy infrastructure and for developing transformational nuclear energy technologies that re-establish the U.S. as a world leader in nuclear technology commercialization.

The key recommendation of the NEAC report was that "DOE-NE proceed immediately with pre-conceptual design planning activities to support a new test reactor" to fill the domestic need for a fast-neutron test capability. The considerations for such a capability include:

- An intense, neutron-irradiation environment with prototypic spectrum to determine irradiation tolerance and chemical compatibility with other reactor materials, particularly the coolant.
- Testing that provides a fundamental understanding of materials performance, validation of models for more rapid future development, and engineering-scale validation of materials performance in support of licensing efforts.
- A versatile testing capability to address diverse technology options and, sustained and adaptable testing environments.
- Focused irradiations, either long- or short-term, with heavily instrumented experimental devices, and the possibility to do in-situ measurements and quick extraction of samples.
- An accelerated schedule to regain and sustain U.S. technology leadership and to enable the competitiveness of U.S.-based industry entities in the advanced reactor markets. This can be achieved through use of mature technologies for the reactor design (e.g., sodium coolant

in a pool-type, metallic-alloy-fueled fast reactor) while enabling innovative experimentation.

A summary of preliminary requirements that meet these considerations include:

- Provide a high peak neutron flux (neutron energy greater than 0.1 MeV) with a prototypic fast-reactor-neutron-energy spectrum; the target flux is 4×10^{15} neutrons per square centimeter per second (neutrons/cm²-sec) or greater.
- Provide high neutron dose rate for materials testing [quantified as displacements per atom]; the target is 30 displacements per atom per year or greater.
- Provide an irradiation length that is appropriate for fast reactor fuel testing; the target is 0.6 to 1 meter.
- Provide a large irradiation volume within the core region; the target is 7 liters.
- Provide innovative testing capabilities through flexibility in testing configuration and testing environment (coolants) in closed loops.
- Provide the ability to test advanced sensors and instrumentation for the core and test positions.
- Expedite experiment life cycle by enabling easy access to support facilities for experiments fabrication and post-irradiation examination.
- Provide life-cycle management (spent nuclear fuel storage pending ultimate disposal) for the reactor driver fuel (fuel needed to run the reactor) while minimizing cost and schedule impacts.
- Make the facility available for testing as soon as possible by using proven technologies with a high technology readiness level.

Having identified the need for the VTR, NEICA directs DOE “to the maximum extent practicable, complete construction of, and approve the start of operations for, the user facility by not later than December 31, 2025.”

Secretary of Energy Rick Perry announced the launch of the Versatile Test Reactor Project on February 28, 2019 as a part of modernizing the nuclear research and development (R&D) user facility infrastructure in the United States.

An initial evaluation of alternatives during the pre-conceptual design planning activity recommends the development of a well-instrumented sodium-cooled, fast-neutron-spectrum test reactor in the 300 megawatt-thermal power level range. This design would provide a flexible, reconfigurable testing environment for known and anticipated testing. It is the most practical and cost-effective strategy to meet the mission need and address constraints and

considerations identified above. The evaluation of alternatives is consistent with the conclusions of the test reactor options study and the NEAC recommendation.

DOE expects that the VTR, coupled with the existing supporting R&D infrastructure, would provide the basic and applied physics, materials science, nuclear fuels, and advanced sensor communities with a unique research capability. This capability would enable a comprehensive understanding of the multi-scale and multi-physics performance of nuclear fuels and structural materials to support the development and deployment of advanced nuclear energy systems. To this end, DOE is collaborating with universities, commercial industry, and national laboratories to identify needed experimental capabilities.

Purpose and Need for Agency Action

The purpose of this DOE action is to provide a domestic versatile reactor-based fast-neutron source and associated facilities that meet identified user needs (e.g., providing a high neutron flux of at least 4×10^{15} neutrons/cm²-sec and related testing capabilities). Associated facilities include those for the preparation of driver fuel and test/experimental fuels and materials and those for the ensuing examination of the test/experimental fuels and materials; existing facilities would be used to the extent possible. The United States has not had a viable domestic fast-neutron-spectrum testing capability for over two decades. DOE needs to develop this capability to establish the United States' testing capability for next-generation nuclear reactors—many of which require a fast-neutron spectrum for operation—thus enabling the United States to regain technology leadership for the next generation nuclear fuels, material, and reactors. The lack of a versatile fast-neutron-spectrum testing capability is a significant national strategic risk affecting the ability of DOE to fulfill its mission to advance the energy, environmental, and nuclear security of the United States and promote scientific and technological innovation. This testing capability is essential for the United States to modernize its nuclear energy industry. Further, DOE needs to develop this capability on an accelerated schedule to avoid further delay in the United States' ability to develop and deploy advanced nuclear energy technologies. If this capability is not available to U.S. innovators as soon as possible, the ongoing shift of nuclear technology dominance to other international states (e.g., China, the

Russian Federation) will accelerate, to the detriment of the U.S. nuclear industrial sector.

Proposed Action

The Proposed Action is for DOE to construct and operate the VTR at a suitable DOE site. DOE would utilize existing or expanded, collocated, post-irradiation examination capabilities as necessary to accomplish the mission. DOE would use or expand existing facility capabilities to fabricate VTR driver fuel and test items and to manage radioactive wastes and spent nuclear fuel.

Versatile Test Reactor

The Nuclear Energy Innovation Capabilities Act of 2017 (Pub. L. 115–248) directed DOE, to the maximum extent practicable, to approve the start of operations for the user facility by not later than December 31, 2025. DOE recognized that a near-term deadline would require the technology selected for the user facility to be a mature technology, one not requiring significant testing or experimental efforts to qualify the technology needed to provide the capability.

The generation of a high flux of high-energy or fast neutrons requires a departure from the light-water-moderated technology of current U.S. power reactors and use of other reactor moderating and cooling technologies. The most mature technology that could provide the high-energy neutron flux is a sodium-cooled reactor, for which experience with a pool-type configuration and qualification of metallic alloy fuels affords the desired level of technology maturity and safety approach. Sodium-cooled reactor technology has been successfully used in Idaho at the Experimental Breeder Reactor (EBR)-II, in Washington at the Fast Flux Test Facility, and in Michigan at the Fermi 1 Nuclear Generating Station.

The current VTR concept would make use of the proven, existing technologies incorporated in the small, modular GE Hitachi Power Reactor Innovative Small Module (PRISM) design. The PRISM design² meets the need to use a sodium-cooled, pool-type reactor of proven (mature) technology. The VTR would be a smaller (approximately 300 megawatt thermal) version of the GE Hitachi

² The PRISM design is based on the EBR-II reactor, which operated for over 30 years. PRISM received a review by the Nuclear Regulatory Commission as contained in NUREG-1368, *Preapplication Safety Evaluation Report for the Power Reactor Innovative Small Module (PRISM) Liquid-Metal Reactor*, which concluded that “no obvious impediments to licensing the PRISM design had been identified.”