preparation. Submissions are subject to Freedom of Information Act (FOIA) disclosure and may be posted, without change, on a Federal website.

FOR FURTHER INFORMATION CONTACT: Patrice Pages at info@nnco.nano.gov or 202–517–1041.

SUPPLEMENTARY INFORMATION:

Background Information: This request is in alignment with the 21st Century Nanotechnology Research and Development Act as amended (15 U.S.C. 7501), which calls for an update to the NNI Strategic Plan every 5 years.

The NNI is a U.S. Government research and development (R&D) program of 20 departments and independent agencies working together toward the common vision of a future in which the ability to understand and control matter at the nanoscale level leads to a revolution in technology and industry that benefits society.

Additional information, including participating agencies, is available at www.nano.gov/about-nni.

The NNI Strategic Plan provides the framework that underpins the nanotechnology activities of the NNI agencies and ensures continued advances in nanotechnology R&D and their applications. The plan describes the NNI vision and goals, as well as the mechanisms used to support progress.

“A Quadrennial Review of the National Nanotechnology Initiative” (https://www.nap.edu/catalog/25729/a-quadrennial-review-of-the-national-nanotechnology-initiative-nanoscience-applications) was recently released by the National Academies of Sciences, Engineering, and Medicine and will inform the planning process. The report recommends that the NNI continue and be reorganized and relaunched to promote a renewed focus on nanotechnology and respond to the dynamic global research environment.

Information Requested: The NSET Subcommittee seeks responses to the questions below to identify effective mechanisms, strategies for communication, and priority topics to inform the future directions of the NNI.

Additional background information and points for consideration are available at www.nano.gov/2021StrategicPlanRFI.

Mechanisms

- What is your understanding of how the Federal Government has supported the nanotechnology community since the launch of the NNI?
- How should this support evolve into 2030 and beyond? What mechanisms and programs are necessary to support the broad NNI R&D portfolio?
- What key elements and intersections are necessary to form an agile framework that will enable response to new developments along the nanotechnology continuum, from discovery and design to development and deployment?

- How can the government engage effectively with stakeholders in industry and academia to advance nanotechnology research, development, and eventual commercialization? What are some best practices for this kind of engagement?
- How could public-private partnerships contribute to progress towards the NNI goals? Are there any examples (domestic or international) of productive partnership mechanisms that should be considered as a model?
- What are exemplary models (domestic or international) for accessing NNI resources, including user facilities and laboratories?

Communication

The NNCO serves as the public-facing entity of the NNI in addition to and in support of NNI agency communication efforts. NNCO maintains Nano.gov and shares information through numerous communication means. However, the NNI community is complex and multifaceted, and diverse stakeholder groups consume information in different ways.

- How can the NNCO facilitate communication and collaboration throughout the nanotechnology R&D ecosystem to enhance research and ultimately commercialization? How can the NNI/NNCO best communicate opportunities, resources, and advancements to the community? How can the NNI/NNCO best engage with the stakeholder community to understand their advancements and needs?
- Beyond the media platforms used by NNCO, what additional mechanisms should be considered to better reach the public and various stakeholder groups?
- What are effective strategies for improving communication of desired nanotechnology workforce skills and capabilities between industry and academia?
- How can the NNI participating agencies or NNCO best raise awareness among teachers regarding the educational resources that have been developed over the past 20 years and help get these resources into their classrooms?

Topics

- What are the high priority open scientific questions in nanoscience and nanotechnology?
- What are challenges facing the United States and the world where nanotechnology is poised to make significant contributions?
- What nanotechnology-enabled “moonshots” should be considered?
- How does nanotechnology support other foundational fields/initiatives? What future technical topics are likely to emerge from advancements in nanotechnology?
- What are the gaps in the fabrication, characterization, and modeling and simulation tools available through the NNI user facilities (listed on Nano.gov)? What other tools are necessary to conduct nanotechnology R&D?
- What specific nanotechnology topics could be accelerated to commercialization by public-private partnerships?
- As concepts surrounding responsible development have evolved over the past twenty years, what factors may contribute to the responsible development of nanotechnology going forward?

Thank you for taking the time to respond to this Request for Information. We appreciate your input.


Stacy L. Murphy,
Operations Manager, White House Office of Science and Technology Policy.

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SECURITIES AND EXCHANGE COMMISSION


Self-Regulatory Organizations; MEMX LLC; Notice of Filing and Immediate Effectiveness of a Proposed Rule Change To Shorten the Exchange’s Post-Market Session To End at 5:00 p.m. Eastern Time


Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 (the “Act”),1 and Rule 19b–4 thereunder,2 notice is hereby given that on October 2, 2020, MEMX LLC (“MEMX” or the “Exchange”) filed with the Securities and Exchange Commission (the “Commission”) the proposed rule change as described in Items I and II below, which Items have been prepared by the Exchange. The Exchange filed the proposal as a “non-controversial” proposed rule change pursuant to Section 19(b)(3)(A)(iii) of the Act3 and Rule 19b–4(f)(6) thereunder.4 The

Commission is publishing this notice to solicit comments on the proposed rule change from interested persons.

I. Self-Regulatory Organization's Statement of the Terms of Substance of the Proposed Rule Change

The Exchange is filing with the Commission a proposed rule change to amend Exchange Rule 1.5(w) to shorten the length of the Exchange's after-hours trading session by amending Exchange Rule 1.5(w), which defines Post-Market Session, to end at 5:00 p.m. rather than 8:00 p.m. The Exchange submits that shortening the Post-Market Session would allow the Exchange to utilize its staff and resources in a more efficient manner while continuing to provide Members with an after-hours trading session for one hour after the close of the Regular Hours Session.

The Exchange believes the proposed rule change to reduce the operating time of its Post-Market Session to end at 5:00 p.m. rather than 8:00 p.m. is reasonable and appropriate given that only a very small percentage (approximately 0.65%) of daily trading volume in NMS stocks occurs during those hours, and as such the Exchange believes that the costs to the Exchange associated with operating during those hours outweigh the benefits to Members and other market participants. Moreover, since the Exchange commenced trading operations on September 21, 2020 (supporting trading in seven NMS stocks), the Exchange has received very few orders in the Post-Market Session, and all such orders were received between 4:00 p.m. and 5:00 p.m. The Exchange expects that it will continue to receive very few orders in the Post-Market Session even after the Exchange completes its rollout of supporting trading in all NMS stocks, and that the large majority of such orders would continue to be received between 4:00 p.m. and 5:00 p.m. rather than between 5:00 p.m. and 8:00 p.m. To the extent the Exchange in the future believes there is adequate demand to justify operating a longer after-hours trading session, it will consider again extending its hours to accommodate such demand.

The Exchange notes that other exchanges offer a longer after-hours trading session after the close of Regular Trading Hours and that Members and other market participants can choose to direct their orders to those exchanges if they wish to participate in an after-hours trading session extending beyond 5:00 p.m. The Exchange also notes that other exchanges currently end their after-hours trading sessions prior to 8 p.m., including three exchanges that close at 5:00 p.m. consistent with the Exchange's proposal. Thus, the Exchange believes that its proposal will adequately address the needs of Members by providing for a one-hour Post-Market Session, which trade data show is the period in which most of the after-hours trading activity occurs, as described above, and would allow the Exchange to conserve resources and staff time that would otherwise be dedicated to supporting the Exchange's after-hours trading session for a four-hour period on every trading day.

The Exchange also proposes to make conforming changes to Exchange Rules 1.5(k) and 11.1(a) to reflect the Post-Market Session ending at 5:00 p.m. Specifically, the Exchange proposes to amend Exchange Rule 1.5(k), which defines "Exchange Operating Hours" or "Exchange Hours," to reflect that the Exchange's daily trading hours, comprised of all three trading sessions offered by the Exchange, would begin at 7:00 a.m. and continue until 5:00 p.m. The Exchange also proposes to amend Exchange Rule 11.1(a) to update the hours of operations referenced in that Rule consistent with the changes described above.

2. Statutory Basis

The Exchange believes that the proposed rule change is consistent with the provisions of Section 6(b) of the Act, in general, and further the objectives of Sections 6(b)(5) of the Act, in particular, in that it is designed to promote just and equitable principles of trade and, in general, to protect investors and the public interest; furthermore, the proposed rule change is not designed to permit unfair discrimination between customers, issuers, brokers, or dealers.

Specifically, the Exchange believes its proposal to amend Rule 1.5(w) to shorten the length of its Post-Market Hours, which provides for "Post-Market Hours" that end at 8:00 p.m. Eastern Time.

See, e.g., New York Stock Exchange LLC Rule 51, which provides that the trading session concludes at 4:00 p.m.; NASDAQ PHX LLC Equities Rule R-2606(a), which provides that orders may be entered on such exchange until 4:00 p.m.; Investors Exchange LLC Rule 1.160(a), which provides for a "Post-Market Session" that concludes at 5:00 p.m.; Long-Term Stock Exchange, Inc. Rule 1.100(e), which provides for a "Post-Market Session" that concludes at 5:00 p.m.; and NYSE Arca Equities, Inc. Rule 7.34-E[a][3], which provides for a "Late Trading Session" that concludes at 8:00 p.m. Eastern Time; Nasdaq Rule 4701(g), which provides for "Post-Market Hours" that end at 8:00 p.m. Eastern Time.

See, e.g., Cboe BZX Exchange, Inc. Rule 1.5(c), which provides for an "After Hours Trading Session" from 4:00 p.m. to 8:00 p.m.; Cboe EDGX Exchange, Inc. Rule 1.5(c), which provides for a "Post-Closing Session" from 4:00 p.m. to 8:00 p.m.; NYSE Arca Equities, Inc. Rule 7.34-E[a][3], which provides for a "Late Trading Session" that concludes at 8:00 p.m. Eastern Time; Nasdaq Rule 4701(g), which provides for "Post-Market Hours" that end at 8:00 p.m. Eastern Time.
Session to end at 5:00 p.m. rather than 8:00 p.m. would allow the Exchange to conserve its resources and staff time and focus those on the Exchange’s core business, which is providing an efficient and cost-effective marketplace for trading in equity securities during Regular Trading Hours, and other aspects of the Exchange’s operations, including its regulatory function, while maintaining a facility for Members to execute trades for one hour after Regular Trading Hours. Reducing the time during which the Post-Market Session operates would allow the Exchange to maximize efficiencies and eliminate costs that are associated with supporting trading operations during the longer after-hours trading session but are not expected to yield a sufficient economic return. The Exchange believes that the proposed rule change is therefore consistent with Section 6(b)(5) of the Act in that, by seeking to operate in a more efficient manner that focuses on trading during Regular Trading Hours and other aspects of the Exchange’s operations, including its regulatory function, it will operate to promote just and equitable principles of trade and, in general, protect investors and the public interest. The Exchange also believes that the proposed rule change would not permit unfair discrimination between customers, issuers, brokers, or dealers because it would affect all Members and market participants in the same way and to the same extent, and is therefore consistent with Section 6(b)(5) of the Act. Moreover, the Exchange notes that there is precedent for an exchange shortening its after-hours trading session extending from after the close of Regular Trading Hours until 8:00 p.m. However, the Exchange does not believe that this will inappropriately burden competition in that, as proposed, the Exchange will continue to offer a Post-Market Session until 5:00 p.m. and other exchanges offer an after-hours trading session extending until 8:00 p.m.19 The Exchange therefore believes that the availability of an after-hours trading facility at other exchanges will provide Members and other market participants with venues to which they can direct their after-hours activity after the Exchange’s proposed 5:00 p.m. after-hours trading, and the reduction in the time frame during which the Exchange’s after-hours facility operates will not impair competition.

Furthermore, the Exchange does not believe that the proposed rule change would have any significant impact on intra-market competition as there are other exchanges that already end their after-hours trading sessions prior to 8:00 p.m., including at 5:00 p.m.,20 and other marketplaces are free to provide similar trading hours. The Exchange also does not believe that the proposed rule change would have any significant impact on intra-market competition as all Members would be subject to the modified hours of the Post-Market Session.

C. Self-Regulatory Organization’s Statement on Burden on Competition

The Exchange has filed the proposed rule change pursuant to Section 19(b)(3)(A)(iii) of the Act21 and Rule 19b–4(f)(6) thereunder.22 Because the foregoing proposed rule change does not: (i) Significantly affect the protection of investors or the public interest; (ii) impose any significant burden on competition; and (iii) become operative prior to 30 days after the date on which it was filed, or such shorter time as the Commission may designate, it has become effective pursuant to Section 19(b)(3)(A)(iii) of the Act23 and subparagraph (f)(6) of Rule 19b–4 thereunder.24 A proposed rule change filed under Rule 19b–4(f)(6)25 normally does not become operative prior to 30 days after the date of the filing. However, pursuant to Rule 19b–4(f)(6)(iii),26 the Commission may designate a shorter time if such action is consistent with the protection of investors and the public interest.

In addition, the Exchange believes that the proposed amendment to Exchange Rule 1.5(w) furthers the objectives of Section 6(b)(1)18 of the Act in that it would conserve Exchange resources, which are expended to support trading operations during the Exchange’s trading hours, and would allow the Exchange to utilize these resources for other purposes, including the Exchange’s regulatory function, thereby enabling it to be so organized as to have the capacity to be able to carry out the purposes of the Act and to comply, and to enforce compliance by its members, with the provisions of the Act, the rules and regulations thereunder, and the rules of the Exchange.

The Exchange also believes that the proposed amendments to Exchange Rules 1.5(k) and 11.1(a) are consistent with the Act because the amendments update those Rules to reference the proposed 5:00 p.m. time as the time until which the Exchange would accept orders in the Post-Market Session. No further substantive changes to those Rules are proposed. The Exchange believes that it is appropriate to update all of its rules that specifically reference the Exchange’s operating hours so that the Exchange’s rules properly reflect the change to the Post-Market Session being implemented in this proposed rule change.

B. Self-Regulatory Organization’s Statement on Burden on Competition

The Exchange does not believe that the proposed rule change will result in any burden on competition that is not necessary or appropriate in furtherance of the Act. By shortening the time period during which its Post-Market Session operates, the Exchange is reducing the number of equity exchanges offering an after-hours trading session extending from after the close of Regular Trading Hours until 8:00 p.m. However, the Exchange does not believe that this will inappropriately burden competition in that, as proposed, the Exchange will continue to offer a Post-Market Session until 5:00 p.m. and other exchanges offer an after-hours trading session extending until 8:00 p.m.19 The Exchange therefore believes that the availability of an after-hours trading facility at other exchanges will provide Members and other market participants with venues to which they can direct their after-hours activity after the Exchange’s proposed 5:00 p.m. after-hours trading, and the reduction in the time frame during which the Exchange’s after-hours facility operates will not impair competition.

Furthermore, the Exchange does not believe that the proposed rule change would have any significant impact on intra-market competition as there are other exchanges that already end their after-hours trading sessions prior to 8:00 p.m., including at 5:00 p.m.,20 and other marketplaces are free to provide similar trading hours. The Exchange also does not believe that the proposed rule change would have any significant impact on intra-market competition as all Members would be subject to the modified hours of the Post-Market Session.

III. Date of Effectiveness of the Proposed Rule Change and Timing for Commission Action

The Exchange has filed the proposed rule change pursuant to Section 19(b)(3)(A)(iii) of the Act21 and Rule 19b–4(f)(6) thereunder.22 Because the foregoing proposed rule change does not: (i) Significantly affect the protection of investors or the public interest; (ii) impose any significant burden on competition; and (iii) become operative prior to 30 days after the date on which it was filed, or such shorter time as the Commission may designate, it has become effective pursuant to Section 19(b)(3)(A)(iii) of the Act23 and subparagraph (f)(6) of Rule 19b–4 thereunder.24 A proposed rule change filed under Rule 19b–4(f)(6)25 normally does not become operative prior to 30 days after the date of the filing. However, pursuant to Rule 19b–4(f)(6)(iii),26 the Commission may designate a shorter time if such action is consistent with the protection of investors and the public interest.

The Exchange neither solicited nor received comments on the proposed rule change.
focus these on the Exchange’s core business and other aspects of the Exchange’s operations, including the Exchange’s regulatory function. The Commission believes that the proposed rule change raises no new or novel issues and that waiver of the operative delay is consistent with the protection of investors and the public interest. Therefore, the Commission hereby waives the operative delay and designates the proposal operative upon filing.27

At any time within 60 days of the filing of such proposed rule change, the Commission summarily may temporarily suspend such rule change if it appears to the Commission that such action is necessary or appropriate in the public interest, for the protection of investors, or otherwise in furtherance of the purposes of the Act. If the Commission takes such action, the Commission shall institute proceedings under Section 19(b)(2)(B) of the Act to determine whether the proposed rule change should be approved or disapproved.

IV. Solicitation of Comments

Interested persons are invited to submit written data, views, and arguments concerning the foregoing, including whether the proposed rule change is consistent with the Act. Comments may be submitted by any of the following methods:

Electronic Comments

• Use the Commission’s internet comment form (http://www.sec.gov/rules/sro.shtml); or
• Send an email to rule-comments@sec.gov. Please include File Number SR–MEMX–2020–11 on the subject line.

Paper Comments

• Send paper comments in triplicate to Secretary, Securities and Exchange Commission, 100 F Street NE, Washington, DC 20549–1090. All submissions should refer to File Number SR–MEMX–2020–11. This file number should be included on the subject line if email is used. To help the Commission process and review your comments more efficiently, please use only one method. The Commission will post all comments on the Commission’s internet website (http://www.sec.gov/rules/sro.shtml). Copies of the submission, all subsequent amendments, all written statements

27 For purposes only of waiving the 30-day operative delay, the Commission has also considered the proposed rule’s impact on efficiency, competition, and capital formation. See 15 U.S.C. 78c(f).
