



U.S. Department of Commerce

International Trade Administration

Civil Nuclear Trade Advisory Committee (CINTAC) Meeting

Eighth Charter, 2022-2024

Thursday, November 16, 2023, 9:00 a.m. - 4:00 p.m. EDT
In-person, Herbert C. Hoover Building (HCHB), Room 3407

Meeting Minutes

9:00 – 9:05

Welcome and Roll Call

- Jonathan Chesebro, Designated Federal Officer of the CINTAC, U.S. Department of Commerce (DOC)

9:05 – 9:10

Review Meeting Goals

- Speakers:
 - Ralph Hunter, CINTAC Chair
 - Carol Berrigan, CINTAC Vice Chair

9:10 – 9:40

Briefing: ITA Activities to Support Hydrogen Sector

- Purpose: to provide a briefing on ITA's activities to support the U.S. hydrogen sector, including nuclear-generated hydrogen. There will be time for Q&A.
- Speakers:
 - Maureen Clapper, Senior Advisor, Office of Energy and Environmental Industries, DOC/ITA
 - Sam Schatmeyer, International Trade Specialist, Office of Energy and Environmental Industries, DOC/ITA
- The speakers reviewed the status of the hydrogen sector, noting that the industry is only just seeing a move from Kilowatts to Gigawatts. They emphasised that hydrogen, as an emerging technology, is now at the phase where the cost is decreasing. The next step is putting the infrastructure into place to scale up production. ITA is committed to supporting this, which was highlighted during ITA Deputy Assistant Secretary Evans' recent remarks to the fuel cell and hydrogen energy sector.



- Hydrogen is an energy storage solution, so the choice of energy production technology is what makes it “clean”. If you use a “clean” source then it is a clean energy solution. The electrolyzer attached to Nine Mile Point nuclear power plant (NPP) is an excellent example of how nuclear and hydrogen can be cooperative, not competing energy solutions. If existing nuclear producers begin to install hydrogen electrolyzers, it would incentivize growth and scale green hydrogen production.
- The group discussed the challenges related to the distribution system. CINTAC members had questions about best uses, distribution, and adoption of hydrogen.

9:40 – 10:45

Discussion: CINTAC Subcommittee Breakout Sessions

- Purpose: Subcommittees held breakout sessions to discuss and identify priorities.
- The Committee agreed to table a draft proposed letter on China and requested a U.S. Government (USG) briefing on the current USG policy vis-à-vis U.S.-China civil nuclear cooperation.

10:45 – 11:00

Break

11:00 – 11:30

CINTAC Subcommittee Readouts

- Purpose: Subcommittees provided readouts of their breakout sessions to the entire CINTAC.
 - The First-of-a-Kind (FOAK) subcommittee reported that they plan to request that: (1) DOC clarify the process for being approved for advocacy; (2) ITA update its Civil Nuclear Top Markets Report; and (3) request that the USG increase funding for existing programs that support the U.S. civil nuclear industry (e.g. FIRST, Project Phoenix).
 - Government Gaps subcommittee identified the following areas of gaps in USG support:
 1. What has been done regarding previously submitted CINTAC recommendations and what is outstanding?
 2. Organizational improvements using the TeamUSA model;
 3. Improved communication;
 4. Notifying the public of events and their prioritization;
 5. Publicizing funding mechanisms;
 6. Clarification of what foreign nations are being prioritized for U.S. civil nuclear engagement;
 7. Government incentives for exports;
 8. What USG funding mechanisms exist and clarification on how these programs could receive more funding.
 - Supply Chain subcommittee noted that it has three Working Groups to address specific supply chain concerns in the U.S. nuclear industry. These include a Manufacturing WG, a Human Resources WG, and a WG on Nuclear Fuel Development and Distribution for Domestic and International LWRs and



Advanced Reactors. The subcommittee is working to review current USG agency policies (Commerce, State, Energy, DFC, etc.) and report back to full committee by Q1 of 2024.

11:30 – 12:00

Briefing: COP28 Plans

- Purpose: to provide a briefing on ITA's COP28 plans, including plans to support nuclear energy events, and U.S. industry's plans at the event.
- Speakers:
 - Maggie Jackson, Chief of Staff for ITA Under Secretary Lago
 - Victoria Yue, ITA Climate Team Lead
- Speakers noted that nuclear is a priority for the USG at COP28 and that the USG will advocate for nuclear, including: supporting the U.S. Chamber's delegation as a certified trade mission.
- ITA has compiled a newsletter that is being distributed in the lead up to COP with a list of meetings in the Blue and Green zones. ITA is aware of at least 150 companies attending.

12:00 – 1:00

Lunch Break

1:00 – 2:00

TeamUSA Update

- Purpose: U.S. Government interagency representatives from the TeamUSA Civil Nuclear Working Group provided updates on current activities and answer questions from CINTAC members.
- Speakers:
 - Armando Crosland, DOE Office of Nuclear Energy
 - Kirsten Cutler and Justin Friedman, U.S. Department of State, Bureau of International Security and Nonproliferation
 - Mercedes Trent, DOE National Nuclear Security Administration, Office of Nonproliferation and Arms Control
 - Karl B. Kress, U.S. Trade and Development Agency
- **DOE:** noted that they see a bright future for nuclear; President Biden and Secretary Granholm are strong supporters of civil nuclear energy. Both have stated that nuclear is a component of going green, both domestically and abroad. DOE highlighted recent activities, including the U.S.-Africa Nuclear Energy Summit in Ghana, the Women in Nuclear event in Egypt, and the upcoming World Nuclear Exhibition in Paris. CINTAC members asked DOE about its nuclear fuel supply chain work. DOE noted they are working with Great Britain and Canada to invest in the supply chain. DOE is requesting extra money for HALEU development. DOE plans to release RFPs for its HALEU development program by the end of the year.



- **State Department:** Briefed the group on its FIRST program and their work on export controls as part of the agency's mandate to focus on nuclear safety, security and nonproliferation. State has hosted study tours for foreign delegations to visit the United States and spent \$40 million on capacity building programs in Indonesia, the Philippines, Ghana and the Middle East and North Africa region. State will have a presence at COP. Noted the biggest obstacle to meeting SMR demand is resources. The Department has had great success with Project Phoenix, which announced recent award winners at the Three Seas Summit in Bucharest, Romania. State noted that the USG is responsive to industry demand when they examine which nations to prioritize. The speakers suggested that industry should send out demand signals.
- **NRC:** Provided updates on recent activities, including NRC work with Polish regulatory counterparts. As part of that effort, NRC supported an IAEA mission to Poland. As a follow up to building a safety culture, NRC will host Polish regulators in Washington, DC. The speakers emphasized that the NRC is looking specifically at ways to reduce dependence on Russia. They have offered their experience in licensing Westinghouse fuel. NRC is also working with the Canadians on SMR regulations/licensing. As part of US-Canada SMR cooperation, the UK has been an observer. The NRC recently visited Ghana and Senegal where it discussed current and future regulatory cooperation with each government. NRC is supporting the IAEA's nuclear harmonization initiative. They are also supporting a FEED study with NuScale in Romania, hosting technical workshops including SMR sessions in Europe, and supporting reverse trade missions to the United States.

2:00 – 2:30

Briefing: View from the White House

- Purpose: to hear about White House National Security Council (NSC) civil nuclear energy priorities and areas of collaboration with U.S. industry.
- Speaker: Miriam D'Onofrio, Director for Energy Transition, NSC
- Highlighted the bipartisan Inflation Reduction Act legislation as an industrial strategy to meet the challenges of “moving from molecules to electrons”. White House (WH) is focused on how to base the economy on green solutions that were previously offshored, with nuclear being a prime example
- WH is prioritizing reestablishing U.S. leadership in civil nuclear energy. Over the next 12 months, WH is prioritizing securing the supply chain. Noted that more funding is needed for U.S. uranium enrichment. Supply Chain resilience will assure that Eastern Europe is seeking Western solutions. Approach is two tracks: (1) domestic – create order books at home that are delivered on time and on budget; (2) international - market with an early adopters consortium. Noted that there are countries where the risk tolerance is higher and SMR's are part of their solution.



- Regarding what nations the USG is and should be prioritizing, every agency has a different list of countries based on their preferred metric. For example, an agency with a nonproliferation mandate will have different priorities than say Department of Commerce, that will be more focused on economic viability. WH is working to aggregate a list of countries where a whole of government approach can be applied.
- Requested that CINTAC help identify where there is a lack of USG tools to help U.S. industry.
- Administration request for nuclear fuel cycle funding has multiple parts

2:30 – 3:00

Conclusion and Next Steps

- Speakers: Jonathan Chesebro, CINTAC DFO, and CINTAC Chair.
- CINTAC DFO noted that the next CINTAC meeting will be in-person on January 11th.

3:00 – 4:00

Public Comment & Adjourn

- No comments from attending members of the public

Meeting Participants

CINTAC Members:

- Billy Mack, President and CEO, Accelerant Solutions
- Hash Hashemian, President, Analysis and Measurement Services Corporation (AMS)
- Colleen Deegan, Vice President and Manager, Bechtel Power Corporation
- Danielle Castley, Founder & CEO, Becq
- Glenn Neises, Nuclear Director, Burns & McDonnell
- Joshua Parker, Director of Business Development, BWX Technologies, Inc.
- Dr. Yassin Hassan, University Distinguished Professor and Director, Center for Advanced Small Modular and Microreactors (CASMR) at Texas A&M University
- Sean Oehlbert, Vice President, Corporate Business Strategy, Centrus Energy
- Ralph Hunter, Vice President, Constellation Energy Generation, LLC, and President, Constellation Generation Development, LLC, Constellation Energy Generation, LLC
- Donald Hoffman, Founder/President/CEO, EXCEL Services Corporation
- Jarret Adams, Founder and CEO, Full On Communications, LLC
- Adam DeMella, Senior Vice President, Global Government Affairs and Policy, GE Hitachi Nuclear Energy
- Brandon Brooks, Senior Manager, Strategic Business Development, General Atomics – Electromagnetics (GA-EMS)
- Jackie Toth, Deputy Director, Good Energy Collective
- Amy Roma, Partner and Global Energy Practice Area Leader, Hogan Lovells
- Myron Kaczmarzsky, Vice President, Holtec Government Services, Holtec International
- Peter Hastings, Vice President, Regulatory Affairs & Quality, Kairos Power LLC
- Paul Murphy, Managing Director, Murphy Energy & Infrastructure Consulting



- Michael McMahon, Vice President, Transportation and Strategic Projects, NAC International
- Ted Garrish, International Nuclear Trade Advisor, New Horizons Nuclear Associates (NHNA), LLC
- Robert Sweeney, Head of Energy and Infrastructure, nXSolutions
- Nathan Schukei, Sales and Business Development Manager, Rosemount Nuclear Instruments, Inc.
- Joseph Green, Chief Nuclear Officer, Thermal Engineering International (USA), Inc.



- Alan Ahn, Senior Resident Fellow for the Climate and Energy Program, Third Way
- Michael McMurphy, Senior Fellow, U.S. Nuclear Industry Council (USNIC)

Members of the Public

- Justin Meyers, Senior Policy Advisor, Nelson Mullins
- Patrick de Laperouse, Senior Associate, Hogan Lovells US LLP
- Meghan Anand, Associate, Hogan Lovells US LLP
- Lyric Galvin, Associate, Hogan Lovells US LLP
- Laurine Verweil, Associate, Hogan Lovells US LLP

USG

- Jonathan Chesebro, Designated Federal Officer of the CINTAC, Office of Energy and Environmental Industries (OEEI), U.S. Department of Commerce (DOC), International Trade Administration (ITA)
- Emily Church, Senior International Trade Specialist, OEEI, DOC/ITA
- Maggie Jackson, Chief of Staff for ITA Under Secretary Lago, DOC/ITA
- Victoria Yue, ITA Climate Team Lead, OEEI, DOC/ITA
- Maureen Clapper, Senior Advisor, OEEI, DOC/ITA
- Sam Schatmeyer, International Trade Specialist, OEEI, DOC/ITA
- Armando Crosland, Foreign Affairs Specialist, Office of International Nuclear Energy Policy and Cooperation, Office of Nuclear Energy, U.S. Department of Energy (DOE)
- Mercedes Trent, Policy Analyst, Office of Nonproliferation and Arms Control, DOE National Nuclear Security Administration
- Kirsten Cutler, Senior Strategist for Nuclear Innovation, Bureau of International Security and Nonproliferation, U.S. Department of State
- Justin Friedman, Senior Advisor for Commercial Competitiveness in Nuclear Energy, Bureau of International Security and Nonproliferation, U.S. Department of State
- Carl B. Kress, Regional Director, Middle East, North Africa, Europe and Eurasia, U.S. Trade and Development Agency