



**U.S. Department of Commerce
Civil Nuclear Trade Advisory Committee (CINTAC) Meeting
Sixth Charter, 2018-2020**

Wednesday, May 22, 9:00am - 3:00pm
Herbert. C. Hoover Building, Room 1412
1401 Constitution Ave., NW
Washington, DC 20230

MINUTES

8:30 – 9:00 Arrival, Coffee, and Networking

9:00 – 9:05 Welcome and Introductions

- Devin Horne & Jonathan Chesebro, Designated Federal Officers of the CINTAC, U.S. Department of Commerce

9:05 – 9:15 Agenda Overview, Goals, and Desired Outcomes

- Chris Colbert, CINTAC Chair, and Jeff Harper, CINTAC Vice Chair

9:15 – 10:00 TeamUSA Update

- Interagency representatives from the U.S. Department of State (State), the Department of Energy (DOE) and the U.S. Department of Commerce (DOC) gave updates on current priorities including regional initiatives, IAEA General Conference, IFNEC, and financing.
- Nuclear Cooperation Memorandums of Understanding (NCMOUs): State noted that NCMOUs are under development and that once they are concluded their existence will be made public.
 - CINTAC members noted the importance of NCMOUs referencing areas where U.S. industry wants to partner with a country.
- IFNEC: State noted that the International Framework for Nuclear Energy Cooperation's (IFNEC) Infrastructure Development Working group will be held on June 24 in Beijing. First day is open to the public and interested parties can register online.
- China: DOE noted that an FBI representative summarized the Allen Ho case at a recent NEI/Pillsbury conference.
 - The summary focused on China and noted that industry should be mindful of export control regulations.
 - U.S.-China Civil Nuclear Framework is a USG policy. It is not a prohibition on exports to China; applications for transfer to China have been both approved and denied since the policy framework was announced.



- July 2-5 IAEA Dialogue Forum in ROK
 - INPRO members meeting to discuss SMRs
- Clean Energy Ministerial (CEM): DOE noted that the CEM is happening May 27-29 in Vancouver, Canada and that a DOE delegation will attend. Events related to the NICE Future Initiative will be held during the CEM.
 - U.S. industry will be at the event to highlight support for nuclear energy and to participate in the GenIV Forum.

10:00 – 10:30 U.S. Department of Energy’s International Engagements

- Ted Garrish, Assistant Secretary for International Affairs, U.S. Department of Energy
- Assistant Secretary Garrish gave an update on what DOE is doing to help U.S. industry. He noted that DOE is working with other U.S. government (USG) agencies to support U.S. industry overseas.
- DOE is covering new plants, SMRs, fuel services, program management, decommissioning, and waste management. He noted that opportunities exist in many countries including Poland, Saudi Arabia, Brazil, Romania, Japan, and the Czech Republic.
- Many countries are interested in SMRs and DOE is interested in supporting U.S. SMR companies overseas.
- Industry Comments/Discussion:
 - India is of great interest to companies, but financing and liability make this market challenging.
 - OPIC’s prohibition on financing nuclear projects is problematic and industry does not want the new U.S. Development Finance Corporation (DFC) to maintain a prohibition on supporting nuclear projects.
 - The USG’s Power Africa initiative is focused on coal and natural gas and does not have nuclear as a major focus.
 - Kenya is a key mover in Africa regarding nuclear energy and the USG may want to engage with that country more.

10:30 – 10:45 Break

10:45 – 11:05 Civil Nuclear Toolkit Overview

- Devin Horne & Jonathan Chesebro, Designated Federal Officers of the CINTAC, U.S. Department of Commerce
- DOC gave an overview of its Civil Nuclear Toolkit, a free online directory of U.S. civil nuclear companies that will help connect U.S. companies with potential foreign buyers.
- The Toolkit’s development stems from a previous CINTAC recommendation and will be launched publicly later this summer.



11:05 – 12:05 **Subcommittee Charter Discussion & Finalization**

- Subcommittee leadership provided an overview of their charters and the full committee worked to identify redundancies and streamline subcommittee charters.
- Market & Finance Subcommittee
 - Will focus on overall structure of the market as well as finance issues.
 - EXIM Bank reauthorization is needed in addition to a Board quorum to effectively support U.S. industry.
 - Congress making progress on an infrastructure initiative that could include nuclear energy.
- International Engagements Subcommittee
 - Drafted CINTAC letter on NCMOUs that was sent at the March 6 CINTAC meeting.
 - Subcommittee will develop ideas for enhancing U.S. industry presence at the 2019 IAEA U.S. Industry Program.
- Regulatory & Policy Subcommittee
 - Nuclear liability added to subcommittee charter.
 - Difficult to benchmark different country's export control regimes so subcommittee will not focus on this.
 - Important for other countries to understand U.S. civil export controls and understand the role of each USG agency from a regulatory perspective.
- Infrastructure Subcommittee
 - Need healthy U.S. fleet to support international competitiveness of U.S. civil nuclear exports.
 - Will focus on expansion of international standards, regulatory processes, and advanced technology.
- Communications Matrix Subcommittee
 - Goal is to develop consistency of subcommittee communications and committee communications. Members are assigned to other subcommittees as well.

12:05 – 1:20 **Working Lunch: Subcommittee breakout sessions**

- Rooms 1410, 1411, and 1414 reserved for subcommittee breakout sessions.
- In line with subcommittee charters, subcommittees identify priorities and next steps.



1:20 – 2:20 Subcommittee Report Out

- Subcommittees summarized significant changes to their charters after subcommittee breakout sessions.
- Market & Finance Subcommittee
 - Allocated actions to specific meeting dates.
 - Added two new actions – develop recommendations for USDFC and examine financial approaches of SOEs.
- International Engagement Subcommittee
 - Added specific dates to actions and removed some general focus areas; noted desire to discuss IAEA U.S. Industry Program at June 24 CINTAC call.
- Regulatory & Policy Subcommittee
 - Infrastructure subcommittee will take over some focus previously covered by this subcommittee.
 - Noted three action items including: (1) examine a risk-based framework for export controls; (2) recommend more effective method to notify countries regarding foreign government assurances required for U.S. export licenses; and (3) develop a regulatory education toolkit that TeamUSA can provide to foreign governments that are developing their nuclear regulatory framework.
- Infrastructure Subcommittee
 - Changing focus areas to ones that are less domestically oriented and to highlight U.S. technology/innovation that is unique and exportable
 - Plan to study how U.S. industry can support NRC international engagement (to help emerging countries develop their regulator).
- Communications Matrix Subcommittee
 - Will schedule a conference call to review charter and then provide update to full committee.

2:20 – 2:50 Next Steps

- Group discussion on priorities for CINTAC VI charter and CINTAC subcommittee structure.
- Members noted an interest in analyzing previous civil nuclear deals globally to determine the deciding factors regarding who won each deal.
- DFOs reviewed the process for drafting and approving meeting minutes, the process for partially closing CINTAC meetings and FOIA procedures for CINTAC members.



2:50 – 3:15 Public Comment & Adjourn

- No members of the public attended.
- Meeting adjourned at 3:15pm.



Meeting Attendees

Commerce Department

- Jonathan Chesebro, Senior Nuclear Trade Specialist & CINTAC Co-Designated Federal Officer, International Trade Administration
- Devin Horne, Civil Nuclear Trade Specialist & CINTAC Co-Designated Federal Officer, International Trade Administration
- Cameron Dorsey, Civil Nuclear Team Lead, Advocacy Center, International Trade Administration
- Man Cho, Deputy Director, Office of Energy & Environmental Industries, International Trade Administration

U.S. Government Attendees

- Ted Garrish, Assistant Secretary for International Affairs, U.S. Department of Energy
- Alex Burkart, Senior Level Advisor for Nuclear Energy, Bureau of International Security and Nonproliferation, U.S. Department of State
- Kirsten Cutler, Bureau of International Security and Nonproliferation, U.S. Department of State
- Katie Strangis, Senior Policy Advisor, Office of Nonproliferation and Arms Control (NPAC), National Nuclear Security Administration, U.S. Department of Energy
- Armando Crosland, Office of Nuclear Energy, U.S. Department of Energy
- Billy Valderrama, Office of Nuclear Energy, U.S. Department of Energy
- Kyle Nicholas, Office of International Affairs, U.S. Department of Energy

CINTAC Members

- Margaret Harding – Principal, 4 Factor Consulting
- Jay Brister – Vice President, Business Development, AECOM
- Robert Coward – Member, American Nuclear Society
- John Bendo – Business Development Manager, Power & Energy, ASME
- H.M Hashemian – President, Analysis and Measurement Services Corporation
- Colleen Deegan – Vice President, Bechtel Corporation
- Glenn Neises – Nuclear Director, Burns & McDonnell
- Joseph Miller – Director, Advanced Technology Programs, BWX Technologies, Inc.
- Michael Whitehurst – Director, Business Development, Centrus Energy Corp.
- Gary Wolski – Vice President, Nuclear Division, Curtiss-Wright
- Russell Neely – Chief Operating Officer, Edlow International Company
- Robert Kalantari – President and CEO, Engineering, Planning and Management
- Donald Hoffman – President & CEO, EXCEL Services Corporation
- Ralph Hunter - Vice President, Exelon Corporation
- Woody Lawman – Director of Sales, Navy and Nuclear Products, Flowserve Limatorque



- David Sledzik – Senior Vice President, Sales & Commercial Operations, Nuclear Plant Projects, GE Hitachi Nuclear Energy
- Brandon Brooks – Strategic Development Manager, General Atomics
- Robert Sweeney – President & CEO, IBEX Engineering Services, Inc.
- Paul Amico – Director, International Operations, Power Services Group, Jensen
- Seth Grae – President & CEO, Lightbridge Corporation
- Juan Subiry – Vice President, Market and Product Strategy, NAC International
- Edward Kee – CEO, Nuclear Economics Consulting Group
- Beverly Marshall – Vice President, Governmental Affairs, Nuclear Energy Institute
- Neil Numark – President, NUMARK Associates
- Christopher Colbert – Chief Strategy Officer, NuScale Power
- Scott Singer – Vice President, Chief Security and Information Officer, PAR Systems
- Mimi Limbach – Managing Partner and President, Potomac Communications Group
- Art Wharton – Vice President, Market Development, Studsvik Scandpower Inc.
- Pete Gaillard – Licensing Manager, Terrapower, LLC
- David Blee – President & CEO, United States Nuclear Industry Council
- Graham Cable – Vice President, Global Growth & Strategy, Westinghouse Electric Company
- Jeffrey Harper – Vice President, Strategy and Business Development, X Energy, LLC



INTERNATIONAL
TRADE
ADMINISTRATION

MEETING HANDOUTS



CINTAC VI Subcommittee Roster

Infrastructure

- Larry Sanders (Chair)
- Pete Gaillard (Vice Chair)
- Joseph Miller (Comms Lead)
- John Bendo
- Colleen Deegan
- Glenn Neises
- Juan Subiry
- Robert Kalantari

International Engagements

- Ralph Hunter (Chair)
- Graham Cable (Vice Chair)
- Mimi Limbach (Comms Lead/Comms Czar)
- Kenneth Peddicord
- Dave Sledzik
- Colin Austin
- Myron Kaczmarzsky
- Gary Wolski
- Beverly Marshall
- Donald Hoffman
- Hash Hashemian

Market & Finance

- David Blee (Chair)
- Jay Brister (Vice Chair)
- Seth Grae (Comms Lead)
- Bob Coward
- Michael Whitehurst
- Rob Sweeney
- Edward Kee
- Jeff Harper
- Woody Lawman

Regulatory & Policy

- Charles Goodnight (Chair)
- Russell Neely (Vice Chair)
- Jarret Adams (Comms Lead)



INTERNATIONAL
TRADE
ADMINISTRATION

- Art Wharton
- Brandon Brooks
- Margaret Harding
- Paul Amico
- Neil Numark
- Scott Singer



DRAFT INTERNATIONAL ENGAGEMENTS SUBCOMMITTEE CHARTER

May 20, 2019

Name

International Engagements Subcommittee

Purpose

Develop recommendations **and take actions** which, working with CINTAC leadership and TEAM USA, improve US positioning and competitiveness for international civil nuclear trade opportunities.

Focus areas

- Recommend, shape the content, promote the use of Nuclear Cooperation MOUs, and ensure that NCMOUs result in commercially viable international trade opportunities.
- Identify and recommend actions that enhance US nuclear businesses access to new global nuclear power projects ~~from enhancing operations of existing nuclear plants to micro reactors to SMRs and large new nuclear power plants~~
- Identify and recommend actions that enhance US nuclear business access to decommissioning nuclear waste management opportunities globally
- Identify and recommend actions that improve US positioning, competitiveness and targeting for commercial export opportunities.
- Identify and recommend, in conjunction with the other subcommittees, policy, regulatory **and financing** actions that improve US competitiveness and increase international trade opportunities.
- Identify ways to achieve early engagement in foreign entity procurement activities that do not contravene fair competition rules employed by the US government.

Actions:

- Develop and issue a recommendation to the Secretary on content and countries targeted for NCMOUs
- Continue to provide industry perspective and recommendations on NCMOU content, financing support and target countries throughout the CINTAC charter period to ensure NCMOUs are successful. Identify opportunities for deeper CINTAC/member engagement in the NCMOU development and execution process to ensure they grow international trade.
- Identify and recommend effective approaches to expand civil nuclear trade and exports
- Recommend approaches and take action to enhance US positioning and profile at the IAEA General Conference
- Recommend **targeted markets for** ~~promote and participate in~~ US trade missions
- Engage with TEAM USA and the Advocacy center to effectively position the US vs. foreign competitors
- **Develop framework to measure success of DOC-led trade missions**



Metrics:

- Actionable letters to and results from the Secretary on critical industry topics
- Survey feedback from international industry events that CINTAC influences (IAEA General Conference, trade missions, etc.)
- Successful US industry influence and/or engagement in establishing NCMOUs
- US industry engagement in export generating commercial projects following an NCMOU signing
- Trade missions with CINTAC involvement
- **USG execution of NCMOUs consistent with CINTAC letter**
- **Increased US industry participation at IAEA**
- **Increased US industry participation in trade missions**



DRAFT INFRASTRUCTURE SUBCOMMITTEE CHARTER

Purpose

Support CINTAC's mission to **market advance** the international competitiveness of US civilian nuclear technologies by providing recommendations to sustain and expand the US nuclear fleet and promote new / innovative nuclear technologies and services.

Focus areas:

- ~~Develop recommendations, in the form of letters to the Secretary of Commerce to:~~
 - Promote high-level policy changes to advance the performance of the US nuclear fleet. This focus area will be considered as it promotes the international marketability, competitiveness, licensing and exporting of US civilian nuclear technologies, suppliers, and services.
 - **Recommend DOC engagement with Engage with** other US government departments and agencies (DOE, NRC, State, etc.) to expedite approval, licensing, and implementation of new/advanced/innovative US nuclear technologies, products, and services.
- ~~Work with the communication leads to~~ develop integrated (Commerce, State, Energy, etc.) plans to promote **strong domestic industry in the below areas. A strong domestic industry is critical to exporting internationally:**
 - Advanced / new innovations in US nuclear technologies, products, and services.
 - Industry-leading products, services, and resources to support excellent nuclear plant design, commissioning, construction, project management, operational readiness, and decommissioning.
 - Processes and tools to promote operational excellence and event free performance.
 - Human resource capital optimization (training, procedures, knowledge retention, organizational design, and workforce capacity).

Actions

- **Actions Recommendations** will be realistic within CINTAC's and the Department of Commerce capabilities.
- **Action items Recommendations** will be adopted based on an approval of a majority of subcommittee members.
- Before proceeding, **actions recommendations** will be submitted for CINTAC concurrence.
- For approved **recommendations actions**, subcommittee members will identify the steps needed for implementation, including action, owners, and due dates.
- This charter will be amended as needed to include list of initiatives and supporting actions. (**recommend finalizing subcommittee charter at May 22 meeting**)
- Progress updates will be presented to CINTAC as requested during regularly scheduled meetings, calls, etc.



(suggest changing list to note desired outcomes vs process. Actions will be a changeable list as the charter progresses)

- Revisit CINTAC charter to include health of domestic industry as well as nuclear exports.
- Promote U.S. industry use of DOC's Civil Nuclear Toolkit.

Metrics:

- Develop at least 2 recommendations for CINTAC consideration for each focus area.
- Have at least 2 total subcommittee recommendations endorsed by CINTAC.
- When appropriate, work with CINTAC and applicable governmental entities to **support DOC implementation of** at least 2 subcommittee recommendations.
- **Populate DOC Civil Nuclear Toolkit with at least 30 U.S. companies prior to Sept 2019 IAEA GC.**



Draft Market and Finance Subcommittee Charter

Objective

The CINTAC Market and Finance Subcommittee will focus on recommending financing solutions to the Secretary of Commerce supporting US nuclear exports, available through all available financing mechanisms, to better position US companies in the international market.

Focus Areas

1. Advise Secretary on trade-related implications pertaining to the current US financial portfolio including —
 - A. OPIC/new US International Development Finance Corp in particular;
 - B. EX-IM
 - C. DOE Loan Program Office
 - D. World Bank and other MDBs
 - E. Congressional infrastructure financing initiatives;
 - F. Public and/or private-sector options
2. Raise awareness respective to the evolving advanced nuclear financial paradigm given lessened capital requirements, enhanced flexibility, improved economics and advanced manufacturing applications
3. Raise awareness of competitors' state-sponsored financial mechanisms/approaches
4. Develop and **advancing advance** enhancements to existing financial models and functions addressing items such as:
 - A. Bifurcation of risks and financing of nuclear projects; evaluating and recommending different possible approaches (debt, subsidies, financing, re-financing) for construction and operational periods.
 - B. Others as determined by subcommittee

Actions/Metrics (**suggest separating “actions” from “metrics” – 2 separate sections**)

- Develop a stand-alone policy brief on financing opportunities and challenges with recommended solutions (EOY2019)
- Execute letter urging lifting of OPIC anti-nuclear energy prohibition (2Q 2019)
- Support EX-IM reauthorization via letter or another vehicle e.g. short brief (3Q2019)
- Host a CINTAC meeting with a special feature on government financial entities (By EOY 2019)



Draft Regulatory & Policy Subcommittee Charter

Purpose:

The CINTAC Regulatory and Policy Subcommittee identifies national and international policy, regulatory, legislative, and treaty barriers to the expansion of U.S. nuclear trade and proposes practical solutions for their elimination or amelioration.

Focus Areas/Actions:

Focus Areas (please expand focus areas to be more descriptive)	Actions
National nuclear policy (recommend creation of a national nuclear policy? U.S. nuclear regulation?)	<ul style="list-style-type: none"> Identify critical issues impeding industry ability to develop, design, manufacture, construct, license and export Focus on three largest deltas (top 3) where US regulation puts US industry at a disadvantage to other nuclear exporting nations Support the drafting of policies that will improve US export opportunities and enhance US industry's ability to compete internationally (should these move to the Infrastructure Subcommittee?)
Export Support / Controls	<ul style="list-style-type: none"> Identify how to reduce limitations on commercial nuclear technology exports Help shape the structure of needed 123 agreements (add more detail, what is the action?) Identify potential changes to Part 810, Part 110, EAR Licensing and other export regulations to improve US competitiveness Identify potential changes to legislative or treaty barriers to the expansion of US nuclear trade
Role of Government vs. Industry	<ul style="list-style-type: none"> Identify needed changes in the status quo vis-à-vis the role of government vs. industry Develop approaches to achieve alignment on those changes
Intellectual Property	<ul style="list-style-type: none"> Identify & promote methods to strengthen intellectual property protection relevant to government entities and industry bodies (what is the specific action?)
Standards	<ul style="list-style-type: none"> Promote universal standards to reduce cost drivers that decrease competitiveness, or is a disqualifier if not compliant.



Regulatory burdens / licensing challenges	<ul style="list-style-type: none">• Streamline requirements for certifying US technologies (example SMRs)
Communications (suggest deleting)	<ul style="list-style-type: none">• Enhance industry communication with the government nuclear interagency team• Elevate both understanding of, and working relationships with, key policymakers relative to civil nuclear exports <p>(move these to Communications Subcommittee?)</p>
Nuclear Liability	<ul style="list-style-type: none">• Develop and recommend approaches to support renewal/update of the Price Anderson Act due in 2025

Success Definition:

The Subcommittee considers success to be having an impact on US regulation or policy such that us industry expands, either domestically, internationally, or both.

(add detail regarding specific metrics of success)



Draft Communications Subcommittee Charter

Purpose

Provide the CINTAC with compelling messaging that reflects Committee and subcommittee goals and delivers consistency across the subcommittees.

Focus Areas

1. Provide overarching messaging for the CINTAC.
2. Deliver editorial support for major CINTAC communications.
3. Evaluate CINTAC and subcommittee communications and provide counsel and support to ensure that each subcommittee's messaging and communications are complementary to each other and to the overarching CINTAC messaging.

Actions

1. Develop and finalize an "elevator message" on why civilian nuclear energy is important to the U.S. and why its export is vital to U.S. interests. This would be incorporated as an overarching message in each subcommittee communication.
2. Subcommittee-specific talking points that reflect each subcommittee's goals and build on our core "elevator message."
3. **Develop policy brief regarding why civil nuclear energy is important to U.S. national interests.**

Metrics

1. Each subcommittee message is incorporated and covered in the elevator speech. In addition, they are clear, actionable, and attainable. Metric is agreement/buy-in that this has been accomplished by each subcommittee.
2. **Co-author blog post regarding importance of nuclear energy to U.S. national interests.**