

^Sensors and Instrumentation Technical Advisory Meeting (SITAC)

MINUTES OF MEETING

July 28, 2020

WEBEX

The Committee advises the Office of the Assistant Secretary for Export Administration on technical questions that affect the level of export controls applicable to sensors, lasers, and instrumentation equipment and technology.

Open Session Agenda (started at approximately 1:00pm EDT)

The speakers in the open session will discuss the following topics:

- Introduction (Jennifer Douris-O'Bryan, Chair)
- BIS Statistics (John Varesi, BIS, DFO)
- MEU Update (Jennifer Douris-O'Bryan, Chair)
- Green Laser Proposal (Scott White, MKS)
- UV Laser Proposal (Scott White, MKS)
- Single-mode Laser Proposal (Jennifer Douris-O'Bryan, Chair)
- Mid-infrared CW Laser Proposal (Jennifer Douris-O'Bryan, Chair)
- Upcoming Meetings (Jennifer Douris-O'Bryan, Chair)

Open Session Detail:

- Introduction
 - Jennifer Douris-O'Bryan¹ opened the meeting with an introduction.
 - *46 attendees were recorded.*
 - *Members of the United States Government (USG) attending this meeting included John Varesi (DFO), Yvette Springer and Sharron Cook of Commerce Dept., Jose Colon of State Dept., Christopher Costanzo representing Homeland Security Dept., and Tom Colandene and Sean Harbottle of Defense Dept.*
- BIS Statistics
 - John Varesi described the Bureau's licensing statistics pertaining to Category 6.

ECCN 6A001 Acoustics.

4/1/20 – 6/30/20

9 export applications were approved valued at \$3,922,274,044. 0 were denied, and 4 were RWA'd. The top destinations for 6A001 items by dollar value were Nigeria (\$3,118,500,000) and Singapore (\$614,426,395).

4/1/19 – 6/30/19

24 export applications were approved and valued at \$6,971,716,286.

ECCN 6A002 Optical Sensors (& ROICs).

4/1/20 – 6/30/20

20 export applications were approved valued at \$32,419,911. 0 were denied, and 4 were RWA'd. The top destinations for 6A002 items by dollar value were Sweden (\$20,758,200), Lithuania (\$7,050,000), and Georgia (\$2,563,280).

4/1/19 – 6/30/19

13 export applications were approved and valued at \$23,035,699.

ECCN 6A003 Cameras.

4/1/20 – 6/30/20

253 export applications were approved valued at \$175,085,940. 3 were denied, and 54 were RWA'd. The top destinations for 6A003 items by dollar value were UAE (\$51,987,889), Israel (\$37,394,313), and Turkey (\$16,780,443).

4/1/19 – 6/30/19

280 export applications were approved and valued at \$87,994,786.

ECCN 6A993 Cameras not controlled by 6A003/6A203

4/1/20 – 6/30/20

25 export applications were approved and valued at \$3,369,408. 1 was denied, and 4 were RWA'd. The top destinations for 6A993 items by dollar value were Ukraine (\$994,000), Germany (\$755,430), and Netherlands (\$581,632).

4/1/19 – 6/30/19

54 export applications were approved and valued at \$2,062,597.

ECCN 6A004 Optics.

4/1/20 – 6/30/20

1 export application was denied.

4/1/19 – 6/30/19

Total of 0 export applications were approved.

ECCN 6A005 Lasers.

4/1/20 – 6/30/20

36 export applications were approved and valued at \$39,690,156. 3 were denied, and 6 were RWA'd. The top destinations for 6A005 items by dollar value were China (\$27,229,675) and Thailand (\$11,549,680).

4/1/19 – 6/30/19

66 export applications were approved and valued at \$118,381,971.

ECCN 6A006 Magnetometers.

4/1/20 – 6/30/20

10 export applications were approved and valued at \$4,864,647. 0 were denied, and 1 was RWA'd. The top destinations for 6A006 items by dollar value were France (\$2,440,000) and Laos (\$1,672,300).

4/1/19 – 6/30/19

5 export applications were approved and valued at \$1,740,000.

ECCN 6A007 Gravity Meters & Gravity Gradiometers.

4/1/20 – 6/30/20

0 export applications were processed.

4/1/19 – 6/30/19

1 export application was approved and valued at \$425,000.

ECCN 6A008 Radar Systems/Equipment/Assemblies.

4/1/20 – 6/30/20

3 export applications were approved and valued at \$4,864,647. 0 were denied, and 2 were RWA'd. The top destination for 6A008 items by dollar value was Korea (\$1,120,616).

4/1/19 – 6/30/19

31 export applications were approved and valued at \$32,450,574.

- MEU Update
 - Jennifer Douris-O'Bryan provided a basic outline of the MEU rule, and stated that the SITAC comments on the rule were submitted.
 - Ms. Douris-O'Bryan expressed a desire for more clarity in the rule, specifically regarding state-owned enterprises and the necessary level of involvement of military-related entities.

- Green Laser& UV Laser Proposals
 - Scott White reported finding foreign availability of both green and UV lasers in China, and presented data sheets supporting the claim. He noted powers levels exceeding 50 Watts for the green lasers, and 30 Watts for the UV lasers.
 - Mr. White stated that the Chinese companies have been in business for 5-10 years, and have steadily been improving capabilities over the past several years. It was commented that the developments in lasers appear similar to detector/camera markets in years past.
 - Mr. White stated that proposals are necessary to address both the 6A005 and 6A205 ECCNs. It was noted that the 6A005 ECCN comes from the Wassenaar Arrangement, and that 6A205 is from the Nuclear Suppliers Group. Separate proposals would be necessary to address the different control regimes.

- Single-mode Laser Proposal

- Jennifer Douris-O’Bryan presented several examples of foreign availability of high-power single-mode lasers.
- Ms. Douris-O’Bryan noted that the 2018 changes to the Wassenaar Arrangement had not yet been implemented in the CCL. It was reported that changes to the CCL are in process, and BIS is seeking publication soon.
- It was stated that presenting independently confirmed test data had previously proven helpful in raising the power threshold for single-mode lasers, and such information may be helpful to further raise the threshold.

- Mid-infrared CW Laser Proposal
 - Jennifer Douris-O’Bryan provided a brief history of the topic, explaining efforts to distinguish between scientific lasers and those with countermeasure applications.
 - It was noted that the same lasers appear to have equal utility in scientific and military applications. Also noted were increasing commercial applications.
 - It was stated that more information on the commercial versus civil markets for these lasers may be useful for generating a proposal.

- Upcoming Meetings
 - The SITAC will next meet 27 October, 2020 at 1:00pm EDT, likely via WEBEX.
 - The subsequent meeting is tentatively scheduled for January, 2021.
 - For the past several years the January SITAC meeting was held in conjunction with SPIE Photonics West. Photonics West has been moved to March in 2021, so the schedules no longer align.
 - Jennifer Douris-O’Bryan asked for feedback about maintaining the January date, likely using WEBEX, versus adjusting the meeting to align with Photonics West.
 - An additional alternative of aligning the spring SITAC with Photonics West was raised.
 - Preferences were expressed for the first two options. More support was voiced for a January WEBEX-based SITAC given uncertainties surrounding future meetings of any variety due to on-going pandemic disruptions.

ⁱ Jennifer Douris-O’Bryan works for SPIE as a lobbyist.