Transportation and Related Equipment Technical Advisory Committee

(TransTAC)

March 2, 2016

U.S. Department of Commerce

Bureau of Industry and Security

Washington, DC

Open Session

TransTAC members in attendance: (Industry) Mr. Ari Novis (TransTAC Chair), Mr. Brent Baustain\*, Mr. Bryce Bittner, Mr. Colin Donahue, Mr. Kevin Gardner\*, Mr. Dean Johnson, Ms. Julie Kelly, Mr. Rob Lawson, Mr. James McGrew, Mr. Michael Osborne\*, Mr. Howard Pfeifer, Mr. Mark Phillips\*, Ms. Laurie Poindexter, Mr. Ernest Tong, Mr. Charles Volk, and Mr. Todd Zarfos\*. (\* indicates attended by phone)

(Government) Mr. Gene Christiansen (DFO).

Others present: The complete list of attendees is attached at the end of these minutes.

#### Opening remarks

Mr. Ari Novis called the meeting to order at 9:34 a.m. and introductions were made around the room. Two new members were welcomed to the TransTAC, Ms. Laurie Poindexter and Mr. Bryce Bittner.

**ECR**

It was announced that public comments on the proposed update to USML Categories VIII and XIX, and the corresponding EAR bookend rules have been published in the Federal Register, and comments are due March 25. The proposed changes to USML Category XII and the corresponding EAR bookend rule have been published in the Federal Register and comments are due April 4.

**CCL Review – Working Group Reports**

Transportation TAC (TransTAC) members described the status of the Working Groups for Categories 7-9 of the Commerce Control List (CCL), as well as efforts underway by the Composite Working Group.

#### Category 7

#### Inertials - Mr. Charles Volk provided a status on the Inertial portion of Category 7:

The TWG continues to have meeting focusing on Wassenaar Arrangement proposal support, with several telecons since the last TAC meeting. The approach is to utilize Allen Variance methods as the preferred way to characterize performance. The TWG will await the results of discussions from the April Wassenaar meeting.

#### Category 9

**9.D.4** – Mr. Ari Novis provided a status on the 9.D.4 software TWG.

The TWG is working several proposals 9.D.4 under consideration for 2016, specifically 9.D.4.a and 9.D.4.e, which are revisits from 2016, and 9.D.4.b and 9.D.4.f., which are new. For 9.D.4.e, see the UAS TWG. More details will be provided in the closed session.

#### Composite Working Group

Ms. Ari Novis provided a status on the Composite working group (CWG) activities.

The TransTAC works with the Materials TAC on items of joint interest.

A White Paper on the control of scrap and recycled materials has been submitted to the TACs, and an AO on the subject has been submitted to BIS.

Discussions on 1A2, 1C8, and 1C10 interpretations, specifically fiber reinforced injection molding pellets, will resume soon.

The CWG is to identify non-MT materials in the context of 1C1 MT controls, specifically the definition of “usable for missiles.”

#### Gearbox Working Group

No update. The TAC was reminded that there are substantial changes to USML Category VIII(h)(2) in the proposed update, which impact rotorcraft gearboxes. The TAC still needs to address 9.E.3.d to assess the proper scope.

#### UAS Working Group

Ms. Jim McGrew discussed the progress of the UAS TWG.

The UAS has recently held two meetings, primarily focused on the 9.D.4.e Wassenaar proposal. It was revised last week and a cleaned-up draft will be sent out shortly. The TWG discussed the proposed Category VIII changes that impact UAS, but right now the Public Comments are the channel to use. The TWG is using this time to get the word out to the rest of Industry, and to highlight those areas of concern that can be addressed through the Comments.

#### MT Control TWG

Mr. Ari Novis discussed the progress of the Missile Technology (MT) TWG.

The purpose of the TWG is to find a way to remove “large” pre-certified commercial propulsion engines from MT control. A proposal was presented at the October MTCR plenary. It was well received but not accepted as written, with additional questions generated concerning definitions. The TWG has provided recommended definition language for the March Plenary meeting.

#### Spacecraft TWG

Mr. Ari Novis discussed the progress of the Spacecraft TWG.

The Spacecraft TWG has been established and is gathering members. Please contact Mr. Mark Phillips or Mr. Ari Novis if interested. The TWG is looking for members from all aspects of the space industry, ranging from large spacecraft to Cube Sats, and both for profit and not-for-profit entities. As with other TWGs, the mission is to review existing regulations for clarity and completeness.

Ms. Corinne Kaplan (Airbus NA) brought up issues with USML control of commercial satellite technologies, with the example of plasma propulsion completely controlled on the USML. There may be room for movement, for example if there is a difference between propulsion and attitude control.

The TAC is under the BIS and has limited input to DDTC and the USML, but will do what we can.

#### Compressor TWG

Mr. Ari Novis discussed the progress of the Compressor TWG.

The Compressor TWG has been established and meetings started January 12, 2016. The objective is to determine if a need exists for controls on Gas Turbine Engine compressor technology. There is a proposal being worked; it is too late for the 2016 Wassenaar season, but it may be transformed into a non-paper for the Wassenaar.

#### Objectives/New Teams

Continue to review Categories 7, 8, and 9 for possible updates.

Leverage the TAC as a clearinghouse for ECR, as we have Commerce, DoD, and State in the room with Industry.

Clarify 9.E.3.d. “power transfer systems”

Eliminate overlap and clarify control thresholds with 9.D.1, 9.D.2, and 9.D.4.

Assist in resolving MT control of large engines.

Review existing controls/need for new controls on commercial satellites

#### Other Topics

Silicon carbide MOSFET switching components will become a product in the long term for power inversion in compact packaging. This would fall into category 3A.

#### Proposals/Comments from the public

Mr. William Root brought up that Assistant Secretary Kevin Wolf addressed an international group this past October on the subject of Specially Designed. He asked if we know if other Wassenaar Arrangement Participating States intend on adopting the US definition. It was stated that Mr. Wolf’s comments were well received, but we don’t know if any other States plan on incorporating it.

The Open Session adjourned at 10:08 a.m.

##### Open Session Attendees

March 2, 2016 TransTAC

| NAME | ORGANIZATION | Membership |
| --- | --- | --- |
| Ari Novis | Pratt & Whitney | TransTAC Chair |
| Brent Baustain (P) | Rockwell Collins | TransTAC |
| Bryce Bittner | Textron | TransTAC |
| Colin Donahue | Rolls-Royce NA | TransTAC |
| Janelle Gamble | The Boeing Company | RapTAC |
| Kevin Gardner (P) | Honeywell | TransTAC |
| Dean Johnson | Systron Donner | TransTAC |
| Julie Kelly | The Boeing Company | TransTAC |
| Rob Lawson | General Electric | TransTAC |
| James McGrew | Insitu | TransTAC |
| Michael Osborne (P) | Honeywell International, Inc. | TransTAC |
| Howard Pfeifer | United Technologies | TransTAC |
| Mark Phillips (P) | Southwest Research Institute | TransTAC |
| Laurie Poindexter | Boeing | TransTAC |
| Ernest Tong | General Electric Gas Turbines | TransTAC |
| Charles Volk | Northrop Grumman | TransTAC |
| Todd Zarfos (P) | Boeing | TransTAC |
| Corinne Kaplan | Airbus NA |  |
| Kirsten Shumway | Boeing |  |
| Gene Christiansen | DOC/BIS | DFO |
| Mark Jaso | DOC/BIS |  |
| Nancy Kook | DOC/BIS |  |
| Dan Squire | DOC/BIS |  |
| Chris Williams | DOC/BIS |  |
| Rizwan Ramakdawala | DOD/DTSA |  |
| Greg Smoak | DOD/DTSA |  |
| Keith McVicar | Sikorsky Aircraft |  |
| Michael Mellen | Sikorsky Aircraft |  |
| Meredith Gilston | Export Practitioner |  |
| Brian Bradley | International Trade Today |  |
| William Root (P) |  |  |
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