National Aeronautics and Space Administration

NASA Export Control Program Operations Manual

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Message from the former NASA Administrator:

NASA's advanced technology is enabling a new era of human exploration, advancing aeronautics, and expanding our knowledge for the benefit of humanity. As the world's premier aerospace agency, with remarkable achievement and expertise in space launch vehicles, satellites, aircraft, and other advanced technologies, NASA has a unique responsibility to safeguard our sensitive technologies and those of our international, interagency, and industry partners. The NASA Export Control Program is devoted to maximizing the benefits of our international efforts within the constraints of, and in full compliance with, all U.S. export control laws, policies, and regulations.

This Operations Manual provides guidelines and best practices for properly and consistently fulfilling our export control obligations. Designed with broad Agency participation, these guidelines facilitate the valuable work that you do, while protecting the Nation's unique capabilities and sensitive technologies.

Here at NASA, we have been endowed with the greatest talent, most advanced technology, and an unending tenacity to drive forward. Join me in embracing our responsibilities in providing careful stewardship for these unique assets and capabilities that are of the greatest value to our Nation. Adhering to the requirements and processes described herein is a key element of that stewardship.

Ad Astra

Jim Bridenstine

NASA Advisory Implementing Instruction

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NASA EXPORT CONTROL PROGRAM OPERATIONS MANUAL

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***Note*:** This operations manual provides implementing instructions for NASA's export control policies and processes. All references to such requirements contained in NASA Policy Directives (NPDs), NASA Procedural Requirements (NPRs), NASA Advisory Implementing Instructions (NAIIs), or other guidance should be verified by reviewing the cited authority directly.

How to use this manual: This document includes embedded hyperlinks for additional information. It also includes checklists and flowcharts. Consider printing them out to use as job aides. For any revisions, corrections, or modifications of this document, contact the Office of International and Interagency Relations at Headquarters.

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https://nodis3.gsfc.nasa.gov/NPR_attachments/N_AII_2190_001G_.docx

CHANGE LOG

Change Number	Date	Section Number	Description/Comments
1	1/21/21	Worksheet A	Updated Worksheet A to correct a reference in part B and maintain consistency in title naming convention
2	2/4/21	Figure 19 (new)	Added new Figure 19: Information Classification Assessment Process to facilitate better understanding of the process; updated subsequent figure numbers accordingly
3	2/8/21	3.3.2 and 3.3.2.3	Updated to reflect changes made to Worksheet A: Part B and clarify differences between Worksheets A and B
4	2/4/21	Administrator's Statement	Updated to include recent statement from previous Administrator

Table of Contents

ACRONYMS IX

CHAPTER 1: INTRODUCTION 1

1.1. WHAT IS AN EXPORT AND WHAT IS EXPORT CONTROL? 2
1.1.1. International Traffic In Arms Regulations (ITAR) 6
1.1.2. Export Administration Regulations (EAR) 8
1.1.3. DOS and DOC Definitions 9
1.2. WHAT ARE NASA'S EXPORT CONTROL DOCUMENTS? 11
1.3. WHEN ARE ITEMS SUBJECT TO EXPORT CONTROL? 12
1.4. WHO IS RESPONSIBLE FOR EXPORT CONTROL? 13
1.5. WHERE TO FIND MORE INFORMATION? 16

CHAPTER 2: EXPORT CONTROL PROCESSES FOR ALL PERSONNEL 19

2.1. EXPORT CONTROL PROCESSING TIMELINE 19
2.2. REVIEW AND MARKING OF DOCUMENTS 21
2.2.1. Marking ITAR and EAR Documents 21
2.2.2. Marking of Shipping Documents With Destination Control Statements 30
2.3. RECORDKEEPING FOR EXPORT CONTROL 31
2.3.1. Export Administrative Records 31
2.3.2. Export Protected Records 32
2.3.3. Export Control Records 32
2.4. EXPORT CONTROL PROCESS FOR NASA SCIENTIFIC AND TECHNICAL INFORMATION (STI) 33
2.5. PROCESS FOR OBTAINING AN EXPORT AUTHORIZATION 35
2.6. EXPORT CONTROL PROCESS FOR FOREIGN NATIONAL ACCESS REQUESTS 43
2.6.1. Center Export Control Staff Review Process 49
2.6.2. Agency Desk Officer Review 50
2.6.3. HQ ECS Review 51
2.6.4. Enrollment and Authorization 52
2.6.5. Issuance 52
2.6.6. Technology Transfer Control Plan (TTCP) 52
2.6.7. Access Control Plan (ACP) 54
2.7. SUGGESTED BEST PRACTICES FOR MEETINGS 56
2.7.1. Attending Meetings with Foreign Persons 56
2.7.2. Attending Off-Site Meetings Hosted by or for Foreign Persons 60
2.7.3. Attending Virtual Meetings 60
2.8. CORRESPONDENCE TO DESIGNATED COUNTRIES 61
2.9. EXPORT CONTROL AND INTERNATIONAL TRAVEL 62
2.9.1. Travel Preparation and Coordination 63
2.9.2. Hardware Accompanying the NASA Traveler 65
2.9.3. Presentation Materials 66
2.9.4. Counterintelligence And Counterterrorism (CI/CT) 66

2.10. Export Control Process For Space Act Agreements (SAA) 66
2.10.1. Domestic Agreements 67
2.10.2. International Agreements (IA) 68
2.11. Export Control Review of Information Prior to Posting on a Public Website 69
2.12. Export Control Process for Property Disposal 70
2.13. NASA Review of License and Agreement Applications 72
2.14. NASA Review of CFIUS Cases 73

CHAPTER 3: EXPORT CONTROL PROCESSES FOR NASA EXPORT CONTROL STAFF 76

3.1. Export Control System Database (ECSD) 76
3.2. Reviewing STI for Export-Controlled Material 77
3.3. Process for Determining and Obtaining an Appropriate Export Control Authorization 79
3.3.1. Export Control Reform 79
3.3.2. Self-Jurisdiction and Classification Determinations 94
3.3.3. Determine if Subject to Export Control 99
3.3.4. DOS Commodity Jurisdiction (CJ) Request 101
3.3.5. DOC Commodity Classification Determination 102
3.3.6. Authorization Requirements Determination 102
3.3.7. Application Package to Submit for a License 112
3.3.8. Tracking License Applications 117
3.4. Automated Export System (AES) Filing Process 119
3.4.1. Goods exported under a permanent export license (DSP-5). 124
3.4.2. Goods exporting under temporary export license (DSP-73). 124
3.4.3. AES Filing Best Practices 124
3.4.4. Goods Exporting Under An AES Filing Exemption. 125
3.4.5. Recordkeeping Requirements For Shipments 125
3.5. Reporting Requirements 128
3.5.1. ITAR Reporting Requirements 128
3.5.2. EAR Reporting Requirements 129
3.6. Process for Voluntary Disclosures 130
3.7. Process for Lost or Stolen Export-Controlled Commodities 134
3.8. Process for Auditing 134
3.9. Process for InterAgency Review of State licenses 135
3.10. Staffing of CFIUS Cases 135
3.11. Export Control Interaction with the Security Operations Center (SOC) Process 136

CHAPTER 4: EXPORT CONTROL TRAINING PROGRAM PLAN 138

4.1. Training Overview 138
4.1.1. Identification of the Training Need 138
4.2. NASA's Export Control Training Program 139
4.2.1. Export Control Awareness Videos 141
4.2.2. NASA's Export Control Processes: On-the-Job Training 141
4.2.3. "Specialized" or "Task-Based" Training 143

4.3. Agency Recommended Training Plan For NASA Personnel 145
4.3.1. Recommended Training Schedule 145
4.4. Maintenance of the Training Content 148
4.5. Center Export Administrator (CEA) Training Requirements and Responsibilities 148
4.5.1. Center Export Control Program Training Plans Development 149

CHAPTER 5: IDENTIFICATION OF SENSITIVE TECHNOLOGIES & LOCATIONS FOR ADDITIONAL REVIEW 150

APPENDIX A: EXPORT CONTROL TOOLS 154

Worksheet A: Export Classification Analysis Sheet 155
Worksheet B: Information Jurisdiction Determination Sheet 170
Checklist A: Export Authorization Request 171
Checklist B: Gathering Information for IdMAX Entry 174
Checklist C: Suggested Best Practices for Meetings with Foreign Persons 177
Checklist D: Guidance for Export Control Review for STI Release 180
Checklist E: Commodity Jurisdiction 181
Checklist F: Commodity Jurisdiction Guidance for Software 187
Checklist G: ITAR License Application 189
Checklist H: EAR License Application 191
Checklist I: AES Filing Requirement Determination 193
Checklist J: AES Filing Requirements 197
Checklist K: 126.4 – Transfers By or For the U.S. Government 202
Checklist L: TMP 740.9 – Temporary imports, exports, reexports, and transfers (in-country) 212
Checklist M: GOV 740.11(b) – Exports, reexports, and transfers (in-country) to personnel and agencies of the U.S. Government 219
Checklist N: GOV 740.11(c) – Exports, reexports, and transfers (in-country) to agencies of cooperating governments or agencies of the North Atlantic Treaty Organization (NATO) 229
Checklist O: NLR – No License Required 237
Checklist P: STA 740.20 – Strategic Trade Authorization authorizes exports, reexports, and transfers (in-country), including releases within a country of single software source code and technology to foreign nationals, in lieu of a license otherwise required 243
Checklist X: Closing Out Signed DDTC Licenses 254
Checklist Z: CEA/ACEA Request/Approval to Use an ITAR Exemption/EAR Exception 258

APPENDIX B: EXPORT CONTROL REFERENCES 266

B-1: Visa Types and Categories 267
B-2: Provisos and IdMAX 269
B-3: Sample Programmatic – Technology Transfer Control Plan (P-TTCP) 274
B-4: Sample Individual – Technology Transfer Control Plan (I-TTCP) 281
B-5: STI Release Rationale 285
B-6: Defense Articles Frequently Used by NASA 288
B-7: Frequently Used Exemption/Exception List 290
B-8: Sample NDA 292

B-9: PART ONE – CONTRACTOR 126.4(B)(2) AUTHORIZATION REQUEST FORM 293
B-9: PART TWO – CONTRACTOR 126.4(B)(2) AUTHORIZATION REQUEST (FORMAT GUIDANCE EXAMPLE/CLARIFICATION INFORMATION) 294
B-10: SAMPLE EXPORT AUTHORIZATION RECORD LOG 300

APPENDIX C: KEY DEFINITIONS 301

ITAR DEFINITIONS 302
EAR DEFINITIONS 305
OTHER KEY DEFINITIONS 311

List of Figures

Figure 1: Export Control Regulatory Authority 5

Figure 2: Sample ECCN 8

Figure 3: Hierarchy of NASA's Export Control Program Documents 11

Figure 4: Export Control Delegation of Authority 15

Figure 5: Standard ITAR and EAR Markings 22

Figure 6: Marking Whole Document Example 24

Figure 7: Marking Select Pages Example 27

Figure 8: Marked Email Example 29

Figure 9: Marked Document Example 30

Figure 10: Marked Commercial Invoice Example 30

Figure 11: Checklist A 39

Figure 12: Process for Obtaining an Export Authorization 42

Figure 13: Checklist B 45

Figure 14: Process for Foreign National Access Requests 55

Figure 15: Checklist C 57

Figure 16: Process for Property Disposal 71

Figure 17: Order of Review 82

Figure 18: Hosted Payload Funded by Department of Defense Decision Tree 84

Figure 19: Information Classification Assessment Process 98

Figure 20: EM Tab 108

Figure 21: EC Tab 108

Figure 22: NL Tab 109

Figure 23: Misc Tab 109

Figure 24: Summary Tab 109

Figure 25: EAR Classification Process 111

Figure 26: License Application Process 118

Figure 27: Process for AES Filing 127

Figure 28: Sample CEA Submission Response 130

Figure 29: Process for Voluntary Disclosure 133

Figure 30: Identification of Training Needs 139

Figure 31: Building Blocks of NASA's Export Control Training Program 140

Figure 32: Continuous Risk Management 150

Figure 33: Center-Specific Inventory of Sensitive Technologies 153

List of Tables

Table 1: ITAR United States Munitions List 7

Table 2: EAR Commerce Control List 9

Table 3: DOS v. DOC Definitions 10

Table 4: Export Control Program Websites 16

Table 5: Applicable NASA Policy Documents 17

Table 6: Offices Primarily Responsible for Export Control Related Records 33

Table 7: Required Approvals Prior to International Travel 64

Table 8: Definitions and Frequency Recommendations for Training 145

Table 9: Agency Recommended Training Plan Schedule 146

Acronyms

ACEA	Associate/Assistant/Alternate Center Export Administrator
ACP	Access Control Plan
AECA	Arms Export Control Act
AES	Automated Export System
APP	Adjusted Peak Performance
ARC	Ames Research Center
AFRC	Armstrong Flight Research Center
BIS	Bureau of Industry and Security
CCATS	Commodity Classification Automated Tracking System
CCL	Commerce Control List
CCS	Center Chief of Security
CEA	Center Export Administrator
CEC	Center Export Counsel
CER	Center Export Representative
CFR	Code of Federal Regulations
CI	Counterintelligence
CJ	Commodity Jurisdiction
CPS	Center Protective Services
CT	Counterterrorism
CTP	Composite Theoretical Performance
CUI	Controlled Unclassified Information
DCS	Destination Control Statements
DDTC	Directorate of Defense Trade Control
DEA	Drug Enforcement Administration
DOC	Department of Commerce

DOD	Department of Defense
DOS	Department of State
DOT	Department of Treasury
DPL	Denied Persons List
DSS	Defense Security Services
EAA	Export Administration Act
EAR	Export Administration Regulations
EC	Export Control
ECA	Export Control Auditor
ECCN	Export Control Classification Number
ECILD	Export Control and Interagency Liaison Division
ECP	Export Control Program
EC POC	Export Control Point of Contact
ECR	Export Control Representative
ECS	Export Control Staff
ECSD	Export Control System Database
EEI	Electronic Export Information
EIN	Employer Identification Number
ELISA	Export License Status Advisory
ESA	European Space Agency
FNAM	Foreign National Access Management
FOIA	Freedom of Information Act
FPPI	Foreign Principal Party of Interest
FRR	Flight Readiness Review
FTR	Foreign Trade Regulations
GAO	Government Accountability Office
GC	General Correspondence

GPS	Global Positioning System
GRC	Glenn Research Center
GSFC	Goddard Space Flight Center
GSA	General Services Administration
HEA	Headquarters Export Administrator
HEC	Headquarters Export Counsel
HQ	Headquarters
HS	Harmonized System
HTS	Harmonized Tariff Schedule
IA	International Agreement
IATA	International Air Transportation Association
ICAM	Identity, Credential, and Access Management
IdMAX	Identity Management and Account Exchange
ISS	International Space Station
IT	Information Technology
ITAR	International Traffic in Arms Regulations
I-TTCP	Individual – Technology Transfer Control Plan
ITN	Internal Transaction Number
IVC	International Visit Coordinator
JIP	Joint Implementation Plan
JSC	Johnson Space Center
KSC	Kennedy Space Center
LaRC	Langley Research Center
LRODS	Launch and Return Orbital Data Sheets
MCTL	Military Critical Technologies List
MOU	Memorandum of Understanding
MRR	Mission Readiness Review

MSFC	Marshall Space Flight Center
MTEC	Missile Technology Export Committee
MTCR	Missile Technology Control Regime Annex
NAII	NASA Advisory Implementing Instruction
NAPA	National Academy of Public Administration
NARA	National Archives and Records Administration
NASA	National Aeronautics and Space Administration
NCHC	National Criminal History Check
NF	NASA Form
NID	NASA Interim Directive
NLR	No License Required
NPD	NASA Policy Directive
NPR	NASA Procedural Requirements
NRRS	NASA Records Retention Schedule
NTR	New Technology Report
OAC	Original Acquisition Cost
OCIO	Office of the Chief Information Officer
OIG	Office of the Inspector General
OIIR	Office of International and Interagency Relations
OMB	Office of Management and Budget
OPS	Office of Protective Services
OR	Order of Review
PDO	Property Disposal Officer
PDR	Preliminary Design Review
PII	Personally Identifiable Information
POA	Power of Attorney
P-TTCP	Programmatic – Technology Transfer Control Plan

RWA	Return Without Action
SAA	Space Act Agreement
SAAG	Space Act Agreement Guide
SBU	Sensitive But Unclassified
SCAC	Standard Carrier Alpha Code
SDN	Specially Designated Nationals
SME	Significant Military Equipment
SSI	Sectoral Sanctions Identifications
SSC	Stennis Space Center
STA	Strategic Trade Authorization
STELA	System for Tracking Export License Applications
STI	Scientific and Technical Information
STRIVES	Scientific, Technical and Research Information discoVErY System
TAA	Technical Assistance Agreement
TTCP	Technology Transfer Control Plan
UAV	Unmanned Aerial Vehicle
U.S.	United States
USCBP	United States Customs and Border Protection
USXPORTS	United States Export System
USML	United States Munitions List
UVL	Unverified List
VEU	Validated End-user
VWP	Visa Waiver Program
XTN	External Transaction Number

CHAPTER 1: INTRODUCTION

The National Aeronautics and Space Administration (NASA) is on the leading edge of technological development and international cooperation in space, aeronautics, and a variety of scientific endeavors. As a result, the Agency has a unique responsibility to safeguard the sensitive technologies that are crucial for our national security and our missions.

KEY POINT: Export Controls do not simply exist as another set of regulations. They exist to ensure our technological superiority is never employed against us on the battlefield. They exist to ensure our security – our national security, our homeland security, our cybersecurity, and our economic security.

Exporting is a "privilege" not a "right," and export privileges can be revoked, diminishing our ability to conduct important international activities effectively. The Agency's Export Control Program (ECP) provides requirements and processes to ensure that all NASA exports, including commodities, software, technical data, technology, providing a defense service, and/or providing technical assistance are conducted in accordance with United States (U.S.) export control (EC) laws and regulations.

NASA is firmly committed to compliance with U.S. export control laws and regulations. This responsibility starts at the top of the Agency, from the Administrator, and flows down to Mission Directorates and Center executive leadership who set the tone for day-to-day adherence to Agency's export control policies and processes. Management is committed to providing resources and timely training to employees across all missions and Centers as described in this manual.

The instructions and guidelines described in this Operations Manual provide standard processes to implement the ECP across all NASA Centers. All NASA employees, and all NASA contractors, grant recipients, or parties to agreements, to the extent specified or referenced in the appropriate contracts, grants, or agreements, will adhere to the processes and guidelines per this manual.

Chapter 1 addresses the following fundamental questions:

- **What** is an export and what is export control? (1.1.)
- **What** are NASA's export control policies? (1.2.)

- **When** are items subject to export control? (1.3.)
- **Who** is responsible for export control? (1.4.)
- **Where** to find more information? (1.5.)

Chapters 2 and 3 address the question:

- **How** to export?

In particular, Chapter 2 provides standard processes for all NASA personnel who wish to make a specific export request on behalf of the Agency. Chapter 3 is intended for export control practitioners who are responsible for managing the ECP. The administration of NASA's export control policies require competence regarding U.S. export control regulations.

Chapter 4 describes NASA's Export Control Program Training Plan. The training plan has been established to improve and maintain an export control program that is focused, current, and relevant to the successful execution of NASA missions while assuring compliance with U.S. export laws and regulations.

Chapter 5 describes the risk-based approach to managing technologies that warrant additional protection or attention, from an export control perspective.

1.1. *WHAT IS AN EXPORT AND WHAT IS EXPORT CONTROL?*

An export is the transfer of anything to a foreign person or a foreign destination by any means, anywhere, any time (see 22 CFR §120.17 and 15 CFR §734.13). An export can involve a commodity, software, technical data, technology, providing a defense service, and/or providing technical assistance. Export controls are restrictions applied by the U.S. Government to the transfer of certain goods, services, software, technical data, and technology to foreign entities. With the exception of publicly available information and select other items, all exports require an export authorization. An export authorization includes: a license from Department of State (DOS) or Department of Commerce (DOC), a license exemption under the International Traffic in Arms Regulations (ITAR), a license

KEY POINT: An export is the transfer of anything to a foreign person or a foreign destination by any means, anywhere, any time.

KEY POINT: An export authorization includes a license, a license exemption, a license exception, or No License Required (NLR).

exception under the Export Administration Regulation (EAR), or No License Required (NLR)[1], as defined by the EAR.

Exports can take place in any of the following ways:

- Verbal discussions or presentations to groups that include foreign persons whether in or outside of the U.S.
- Transmission of information to a foreign person or a U.S. representative of a foreign person, whether in the U.S. or abroad, by any means such as email, telephone, or discussions
- Traditional shipments of items through Center Transportation/Logistics offices to destinations outside the U.S.
- Foreign visitors to NASA facilities
- Placing information on a public website and releasing photos/videos
- Hand-carrying items outside the U.S. (including even your laptop and cell phone)
- Placing information in the public domain via websites, social media, or other means without prior appropriate authorization

A **U.S. person** means a person who is a U.S. citizen, a protected individual[2], or a lawful permanent resident[3] (LPR); a U.S. person can also be a corporation, business, or other entity that is incorporated to do business in the U.S., and includes all U.S. Governmental entities (federal, state, or local). A **protected individual** means a citizen or national of the U.S.,[4] or its territories and possessions; it also includes natural persons[5] who are lawfully admitted for permanent residence, refugee status, or political asylum. A **lawful permanent resident** means

[1] If No License is Required (NLR), then NLR is the authorization to export. See Section 3.3.6.5.

[2] See 8 U.S.C. §1324b(a)(3) for full definition of protected individual.

[3] See 8 U.S.C. §1101(a)(20) for full definition of lawful permanent resident.

[4] See 8 U.S.C. §1101(a)(22) for full definition of a U.S. national.

[5] A natural person is a human being as opposed to an organization or entity.

a natural person who has been lawfully accorded the privilege of residing permanently in the U.S. under U.S. immigration laws. Green card holders are also considered to be U.S. persons because the green card serves as proof that its holder, a lawful permanent resident, has been officially granted immigration benefits, which include permission to reside and take employment in the United States.

A **foreign person** is any natural person who is not a U.S. citizen, U.S. lawful permanent resident, or a protected individual (i.e., foreign national). A foreign person also includes any foreign corporation, business, or other entity that is not incorporated to do business in the U.S., as well as international organizations, foreign governments (federal, state, and local), and any agency or subdivision of foreign governments (e.g., diplomatic missions in the U.S.)(see 22 CFR §120.16).

A U.S. person representing a foreign corporation, business association, partnership, trust, society, or any other foreign entity may under special circumstances (deemed appropriate by the CEA/HEA) be able to sign a Non-Disclosure Agreement (NDA) prior to receiving a NASA commodity, software, technical data, technology, defense service, and/or technical assistance. In signing the NDA, the U.S. person acknowledges the receipt of export-controlled items and the requirement to obtain the appropriate export authorization prior to transferring those items to a foreign person. In other circumstances the assurance provided by the NDA may not be enough, we cannot self-blind. When reviewing the specific circumstances of each transaction ECS will have to assess on a case-by case basis whether there are any “red flags” that indicate an unauthorized export will occur. In some circumstances it may be appropriate to require an export license to be approved prior to the transfer to the US person. This approach applies prudent reasoning and complies with U.S. export control laws and regulations.

Export laws and regulations control transfers of technical data/technology and goods to foreign entities. The Arms Export Control Act (AECA) of 1976 authorizes the President of the U.S. to control export and import of defense articles and defense services. The President delegates the statutory authority to determine regulatory requirements for these transactions to the DOS, which in-turn has developed the ITAR, 22 CFR §120-130, to implement this authority.

The Export Administration Act (EAA) of 1979, as amended, authorizes the President to control U.S. exports for reasons of national security, foreign policy, and/or limited supply. The President delegates the statutory authority to determine regulatory requirements for these

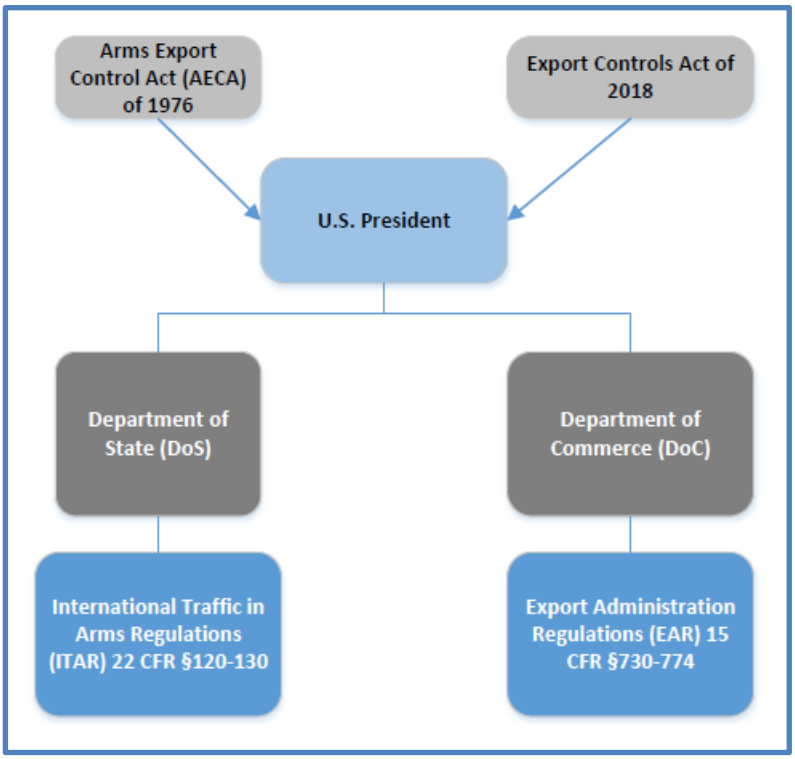
transactions to the DOC, which in-turn developed the EAR, 15 CFR §730-774, to implement this authority (See Figure 1).

Failure to comply with export control laws and regulations can result in export violations, which can in turn generate:

- NASA administrative disciplinary actions
  - Work restrictions, fines, and/or demotions
  - Employment termination
- ITAR/EAR civil and/or criminal penalties
  - Monetary penalties can be as much as $1 million per violation.
  - Incarceration can be for a period up to 20 years.

REMEMBER: Both the ITAR and the EAR include criminal and civil penalties for export control violations that can result in monetary penalties, imprisonment, or both (see 22 CFR §127.3 and 15 CFR §764.3).

Figure 1: Export Control Regulatory Authority



1.1.1. *INTERNATIONAL TRAFFIC IN ARMS REGULATIONS (ITAR)*

The ITAR, administered by DOS, controls the exports of goods and technical data on the United States Munitions List (USML), including certain items on the Missile Technology Control Regime (MTCR) Annex. The USML includes 21 categories of enumerated defense articles and services that are subject to the ITAR and require a license or license exemption in order to be exported. The 21 categories are shown in Table 1 for reference. To see the full list in detail, refer to 22 CFR §121.1.

Table 1: ITAR United States Munitions List

I – Firearms, Close Assault Weapons, and Combat Shotguns	***XII – Fire Control, Range Finder, Optical and Guidance and Control Equipment***
II – Guns and Armament	***XIII – Materials and Miscellaneous Articles***
III – Ammunition/Ordnance	XIV – Toxicological Agents, Including Chemical Agents, Biological Agents, and Associated Equipment
IV - Launch Vehicles, Guided Missiles, Ballistic Missiles, Rockets, Torpedoes, Bombs, and Mines	***XV – Spacecraft and Related Articles***
V – Explosives and Energetic Materials, Propellants, Incendiary Agents, and Their Constituents	XVI – Nuclear Weapons Related Articles
VI – Surface Vessels of War and Special Naval Equipment	XVII – Classified Articles, Technical Data, and Defense Services Not Otherwise Enumerated
VII – Ground Vehicles	XVIII – Directed Energy Weapons
VIII – Aircraft and Related Articles	***XIX - Gas Turbine Engines and Associated Equipment***
****IX – Military Training Equipment and Training***	XX – Submersible Vessels and Related Articles
X – Personal Protective Equipment	XXI – Articles, Technical Data, and Defense Services Not Otherwise Enumerated
****XI – Military Electronics***	

****Primary categories NASA uses.***

1.1.2. *EXPORT ADMINISTRATION REGULATIONS (EAR)*

The EAR is administered by DOC and controls the goods and technologies on the Commerce Control List (CCL) (see Supplement No. 1 to 15 CFR §774), including certain items on the MTCR. The DOC's Export Control Classification Number (ECCN) is key for determining whether an export license is needed (see Figure 2). The ECCN is an alphanumeric code (e.g., 9A004) which describes the item and indicates reasons for control, licensing requirements (see Supplement No. 1 to 15 CFR §738 "The Country Chart"), and applicable license exceptions. The CCL (see Table 2) is divided into ten broad categories and each category is further subdivided into five product groups. Table 2 lists these categories. To see the full list, visit the Bureau of Industry and Security's website (BIS).

Figure 2: Sample ECCN

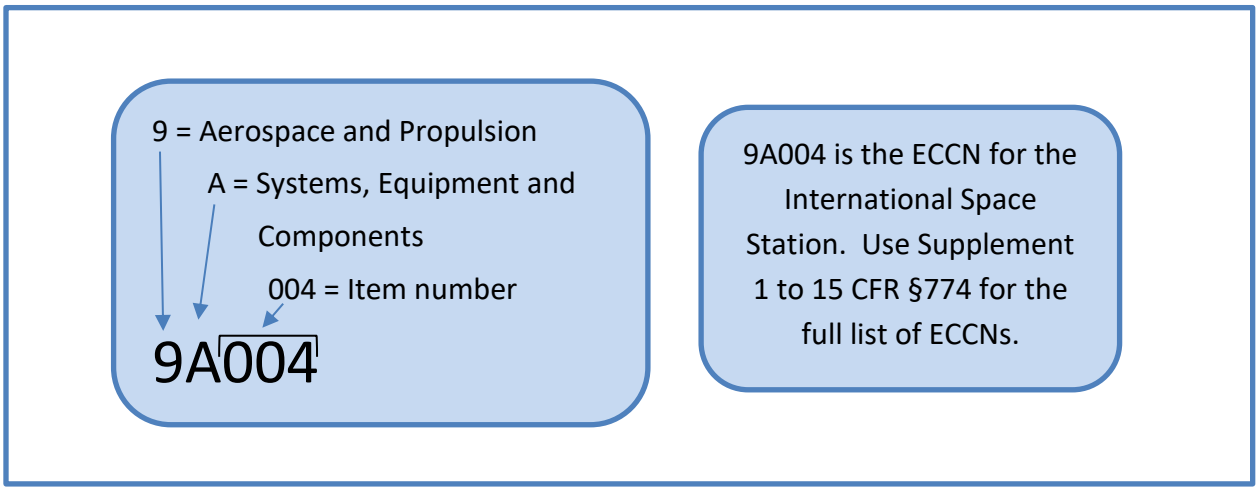


Table 2: EAR Commerce Control List

Commerce Control Category List	
0	Nuclear Materials, Facilities, And Equipment (and Miscellaneous Items)
1	Materials, Chemicals, Microorganisms, and Toxins
2	Materials Processing
3	****Electronics*** Design, Development, and Products
4	****Computers***
5 Part 1	****Telecommunications***
5 Part 2	Information Security
6	****Sensors and Lasers***
7	****Navigation and Avionics***
8	Marine
9	****Aerospace and Propulsion***

Five Product Groups	
A	Systems, Equipment, and Components
B	Test, Inspection, and Production Equipment
C	Material
D	Software
E	Technology

****Primary categories NASA uses.***

DOC also maintains lists of certain persons, including businesses, research institutions, government and private organizations, and individuals that are subject to specific license requirements for the export, reexport, and/or transfer (in-country) of specified items. Some of these persons comprise the Entity List (see Supplement No. 4 to 15 CFR §744), established for reasons of proliferation concern, and are subject to licensing requirements and policies supplemental to those found elsewhere in the EAR. Others comprise the Denied Persons List, which are entities that have violated U.S. export control or other laws.

1.1.3. *DOS AND DOC DEFINITIONS*

DOS and DOC have respective definitions for various export control terms. DOS definitions only apply to the ITAR; DOC definitions only apply to the EAR. The same term can be used in both regulations, but may have very different meanings, and some terms are only used by one

or the other (e.g., "commodity" and "technical assistance" are EAR terms). The "Key Definitions" section of this manual divides up ITAR and EAR terms for ease of reference. Consult your Center Export Control Staff (ECS) while applying appropriate definitions. See Table 3.

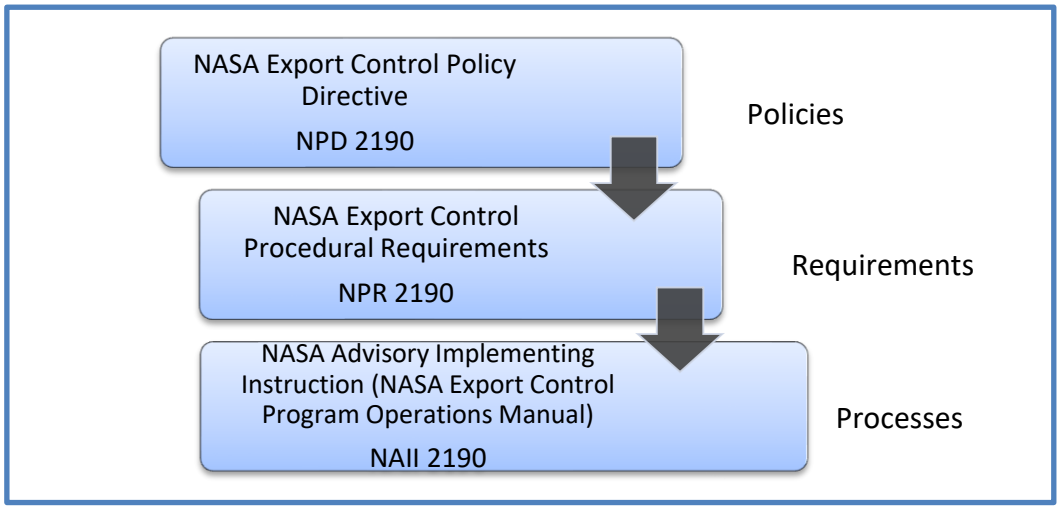
Table 3: DOS v. DOC Definitions

DOS – Software definition included in the ITAR	DOC – Software definition included in the EAR
Software includes, but is not limited to, the system functional design, logic flow, algorithms, application programs, operating systems, and support software for design, implementation, test, operation, diagnosis, and repair (22 CFR §120.45).	Software – A collection of one or more "programs" or "microprograms" fixed in any tangible medium of expression (15 CFR §772). Source code (or source language) (Cat 4, 6, 7, and 9) – A convenient expression of one or more processes that may be turned by a programming system into equipment executable form ("object code" (or object language))(15 CFR §772).
DOS – Technical Data definition included in the ITAR	**DOC – Technology definition included in the EAR**
Technical data is information that is required for the design, development, production, manufacture, assembly, operation, repair, testing, maintenance, or modification of an export-controlled item and must be protected in accordance with export control (22 CFR §120.10).	Technology is specific information necessary for the "development," "production," or "use" of a product. The information takes the form of "technical data" or "technical assistance" and must be protected in accordance with export control regulations (15 CFR §772).
Defense article and defense service are DOS terms defined in the ITAR.	
Defense article means any item or technical data designated in 22 CFR §121.1 of the USML. It does not include basic marketing information on function or purpose or general system descriptions (22 CFR § 120.6). Defense service means the furnishing of assistance (including training) to foreign persons, whether in the United States or abroad, in the design, development, engineering, manufacture, production, assembly, testing, repair, maintenance, modification, operation, demilitarization, destruction, processing, or use of defense articles (22 CFR §120.9).	

1.2. *WHAT ARE NASA'S EXPORT CONTROL DOCUMENTS?*

NASA is committed to compliance with all U.S. export control laws and regulations, which take precedence over NASA's policies and procedures. The Agency's export control policies and requirements are found in NASA Policy Directive NPD 2190.1 "NASA Export Control Program" and NASA Procedural Requirements NPR 2190.1 "NASA Export Control Program". This NASA Advisory Implementing Instruction (NAII) document further implements NASA's ECP. See Figure 3 for the Hierarchy of NASA's Export Control Program documents. In addition to Agency policies, procedures, and processes, NASA personnel are also expected to adhere to their Center-specific export control policies and procedures.

Figure 3: Hierarchy of NASA's Export Control Program Documents



1.3. *WHEN ARE ITEMS SUBJECT TO EXPORT CONTROL?*

Export laws and regulations require an export authorization for all exports, except for those items that are not subject to export controls.

For example, the following information is not export-controlled:

- Information in the public domain
- General scientific, mathematical, or engineering principles commonly taught in schools, colleges, and universities
- Basic marketing information on function, purpose, or general system descriptions of items

The most significant steps in any export activity are to determine if the export is necessary, appropriate, and in accordance with NASA's export control policies. If it is determined that the transaction is subject to export control, there are six things that the exporter needs to assess:

1. The requirement for export
2. The item being exported (commodity, software, technical data, technology, providing a defense service, and/or providing technical assistance)
3. End-user
4. End-use
5. The proper authority to execute the export
6. Does it make sense?

IMPORTANT: If it is determined that the transaction is subject to export control, there are six things that the exporter needs to assess:

1. The requirement for export
2. The item being exported
3. End-user
4. End-use
5. The proper authority to execute the export
6. Does it make sense?

If it is determined that the information and/or technology is subject to export control, there are three elements that the exporter needs to assess: a requirement to export, the nature/description of the item being exported

(commodities, software, technical data, technology, providing a defense service, and/or providing technical assistance), and the appropriate export authorization.

The requirements for export are normally contained in the following types of officially written, signed, and approved documents:

- NASA Contracts and Grants: Such documents should require Technology Development and Technology Transfer Control Plans (TTCPs) specifying export requirements (NPR 7120.5E, Appendix G, Sections 3.5 & 3.18).

- NASA Partnership Agreements such as domestic and international Space Act Agreements (SAAs), which include NASA's bilateral Memorandums of Understanding (MOU) and Joint Implementation Plans (JIPs)

NASA's contracts, grants, and/or agreements define the responsibilities of the parties, scope of the work to be performed, and the terms and conditions under which the cooperation will be effected. Once the requirement for an export is in place, the exporter should continue the process by working with export control staff to obtain the appropriate export authorization, as discussed in Chapters 2 and 3.

1.4.*WHO IS RESPONSIBLE FOR EXPORT CONTROL?*

Every NASA employee and contractor has the responsibility to comply with export control laws and regulations.

Figure 4 illustrates the Agency-wide delegation of authority to oversee all aspects of NASA's ECP. The NASA Administrator is responsible for the Agency's overall compliance with export control laws and regulations. Senior management across the Agency has the responsibility to enable compliance by providing adequate resources and timely training. Mission Directorates and Program and Projects Offices bear the primary responsibility to ensure their programs and projects are in compliance with these policies, and Center Directors are responsible for effective implementation of NASA's ECP at their Centers.

The Office of International and Interagency Relations (OIIR) oversees all export control-related activities, under its Export Control and Interagency Liaison Division (ECILD). The essential ECP roles and responsibilities are described in NPR 2190.1.

NASA Export Control community during 2018 Annual Program Review (MSFC, 2018).

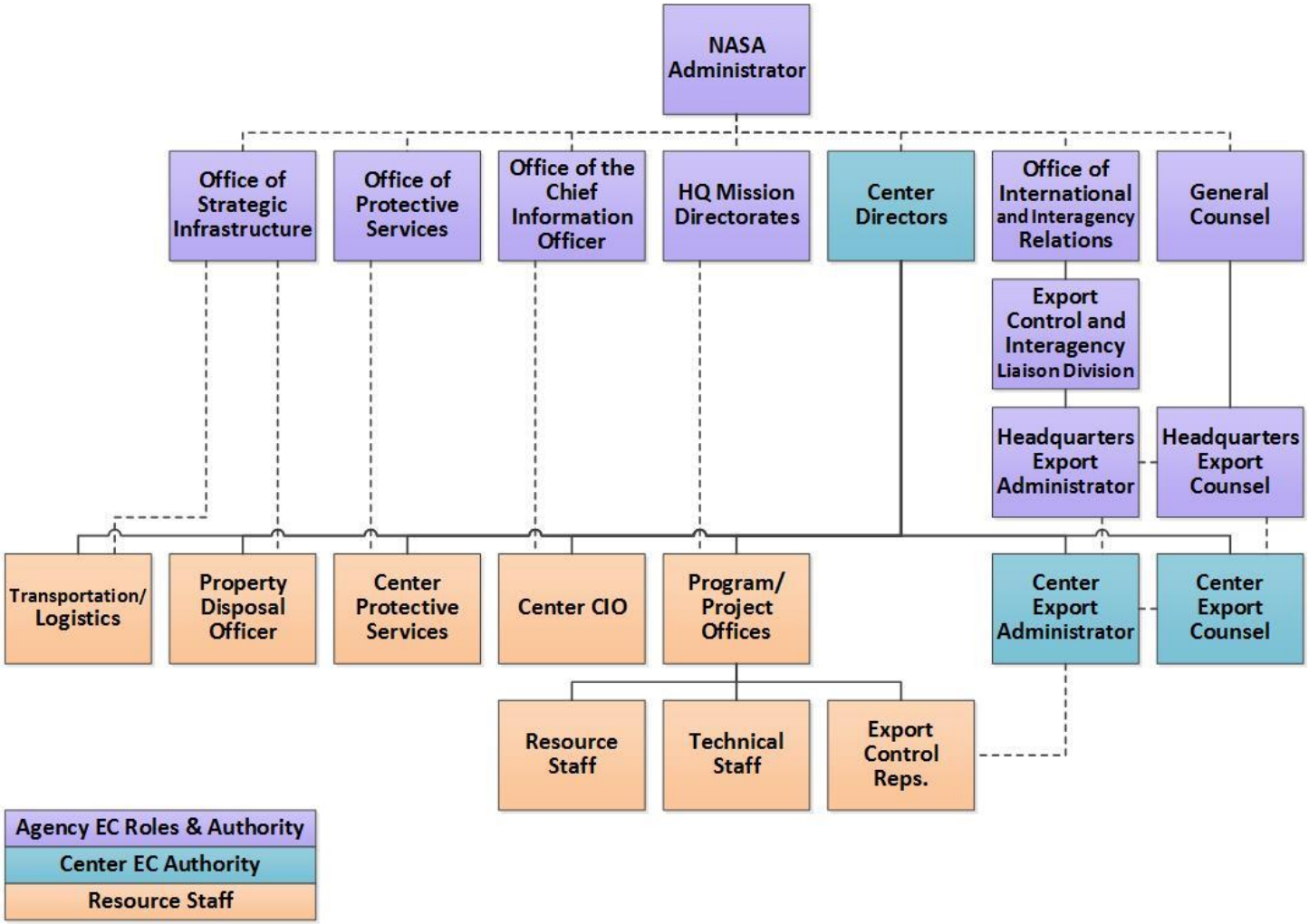
Primarily, export control compliance is administered by the Headquarters Export Administrator (HEA), the community of Center Export Administrators (CEAs), and their Export Control Staff (ECS). Centers may also appoint Associate/Assistant/Alternate Center Export Administrators (ACEAs) to support the CEAs. In this document, the export administrators and their support staff are collectively referred to as ECS, unless specifically identified by title. The CEAs may further delegate part of the authority to Export Control Representatives (ECRs), also referred to as Center Export Representatives (CERs) or Export Control Points of Contact (EC POCs) at some Centers. ECRs[6], if available, are the first point of contact to initiate an export request on behalf of a program/project or a functional organization.

The Headquarters Export Counsel (HEC) and Center Export Counsels (CECs) are responsible for providing legal guidance to the HEA and respective CEAs. They keep abreast of statutory and regulatory developments in the U.S. export control policies and laws, and assist the HEA and CEAs with reviews of exports and transfers, accordingly.

The Program/Project offices are typically the "Requestor" of export actions. The Property Disposal Officer (PDO) and Transportation/Logistics typically assist in processing exports by physically transferring those items approved by CEA for transport. Other functional organizations, such as the Office of Chief Information Officer (OCIO) and Office of Protective Services (OPS), provide a supporting role in implementing the ECP across the Agency. For example, OCIO creates policies to control the release of technical data/technology and provides Information Technology (IT) systems that prevent its unauthorized release; OPS verifies credentials of foreign persons and controls access to NASA property and facilities.

[6] The acronym ECR also refers to CERs and is used throughout the rest of this document. ECR roles and responsibilities vary across the Centers.

Figure 4: Export Control Delegation of Authority



1.5. *WHERE TO FIND MORE INFORMATION?*

The Headquarters Export Control website is the primary resource for export control information. From here you can access ECP's Inside NASA website. From this site, employees can download the checklists and flowcharts as described in this manual and ECS can access information from annual program reviews. In addition, Center export control websites provide Center-specific guidance, forms, and references. See Table 4 and Table 5.

For further guidance, begin by contacting your Center ECS. If necessary, the CEA can contact the HEA or the Headquarters ECS for further assistance.

Table 4: Export Control Program Websites

Headquarters (HQ): **External** **Inside NASA**	 **https://www.nasa.gov/oiir/export-control** **https://inside.nasa.gov/nasaexportcontrol**
Ames Research Center	http://jp.arc.nasa.gov/EC/EC.html
Armstrong Flight Research Center	http://xnet.nasa.gov/organizations/export_control/index.html
Glenn Research Center	https://export.grc.nasa.gov/
Goddard Space Flight Center	http://export.gsfc.nasa.gov/
Johnson Space Center	http://exportcontrol.jsc.nasa.gov/
Kennedy Space Center	http://exportcontrol.ksc.nasa.gov/
Langley Research Center	http://expcon.larc.nasa.gov/
Marshall Space Flight Center	https://explornet.msfc.nasa.gov/groups/export-compliance
Stennis Space Center	http://www6.ssc.nasa.gov/internal/export/
Department of State ITAR	https://www.pmddtc.state.gov/ddtc_public?id=ddtc_kb_article_page&sys_id=%2024d528fddbfc930044f9ff621f961987
Bureau of Industry and Security, EAR	http://www.bis.doc.gov/index.php/regulations/export-administration-regulations-ear

Note: ARC and MSFC export control websites will only work behind their Center firewall.

Table 5 lists applicable NASA policy documents relevant to export control processes referenced throughout this manual.

Table 5: Applicable NASA Policy Documents

NPD 1050.1I	**"Authority to Enter into Space Act Agreements"**
NAII 1050-1C	"Space Acts Agreements Guide (SAAG)"
NPD 1360.2B	"Initiation and Development of International Cooperation in Space and Aeronautics Program"
NPD 1440.6I	"NASA Records Management"
NPR 1441.1E	"NASA Records Management Program Requirements"
NRRS 1441.1	"NASA Records Retention Schedule (NRRS)"
NPR 1450.10D	"NASA Correspondence Management and Communications Standards and Style"
NPR 1600.1A	"NASA Security Program Procedural Requirements"
NPD 1600.4	"National Security Programs"
NPR 1600.4	"Identity and Credential Management"
NAII 1600.4	"Foreign National Access Management (FNAM) Operations Manual
NID 1600.55	"Marking Recorded SBU Information"[7]
NPR 1620.2A	"Facility Security Assessments"
NPR 1620.3A	"Physical Security Requirements for NASA Facilities and Property"
NPR 1660.1C	"NASA Counterintelligence and Counterterrorism"
NPD 2190.1	"NASA Export Control Program"
NPR 2190.1	"NASA Export Control Program
NPD 2200.1C	"Management of NASA Scientific and Technical Information"
NPR 2200.2D	"Requirements for Documentation, Approval, and Dissemination of NASA Scientific and Technical Information (STI)"

[7] NASA Interim Directive (NID) 1600.55 is in effect until the OCIO's "Controlled Unclassified Information" (CUI) policy document is released.

NPD 2540.1H	"Personal Use of Government Office Equipment Including Information Technology"
NPD 2810.1E	"NASA Information Security Policy"
NPR 2810.1A	"Security of Information Technology"
NPR 4200.1G	"NASA Equipment Management Procedural Requirements
NPD 4300.1B	"NASA Personal Property Disposal Policy"
NPR 4300.1C	"NASA Personal Property Disposal Procedures and Requirements"
NPD 5101.32E	"Procurement, Financial Assistance"
NPR 7120.5E	"NASA Space Flight Program and Project Management Requirements"
NPR 8000.4A	"Agency Risk Management Procedural Requirements"
NPR 9710.1	"General Travel Requirements"

CHAPTER 2: EXPORT CONTROL PROCESSES FOR ALL PERSONNEL

This chapter describes specific processes for various export control-related activities. The instructions are intended for all NASA employees and contractors, as appropriate, across the Agency who may potentially export or conduct export control-related processes on behalf of the Agency in furtherance of NASA's missions. The checklists referenced in this chapter do not replace existing Center-equivalent forms or systems.

2.1. *EXPORT CONTROL PROCESSING TIMELINE*

Prior to obtaining an export authorization, you must have a valid requirement that is normally contained in a NASA contract, NASA grant, or in an SAA (domestic or international). See Section 2.10 for more information on SAAs. Requirements should be officially written, signed, and approved, prior to obtaining an export authorization. Remember: requirements can take months and even years to develop.

The amount of time that it takes to process an export authorization depends on the type of export and the complexity of the export. Exports do not necessarily follow a set of predictable pattern of factors. For example, an export for which the classification is known may still require a license (necessitating longer processing time), while an export for which the export classification must be determined may, in the end, be processed in a shorter amount of time because no license is required. Some of the factors that affect processing time are:

- Export requirement
- The need for a license
- Nature of the item to be exported
- End-use
- End-user
- Responsiveness of ECR/technical organization to ECS requests
- Destination
- Method of transfer

- Geopolitical events
- Accuracy and completeness of the supporting information
- Associated technical background information to review (including number of pages)
- Availability of the use of an exemption or an exception
- Urgency of the license (e.g., an emergency action to prevent loss of a crew member or spacecraft)
- The need to apply for a license (see Section 3.3.)
- Existence of other exports already being worked, and the number of other requests to expedite and prioritize matters that are already in the queue
- Critical nature of request (supporting key national or NASA objective)

IMPORTANT: To minimize processing time, where appropriate, a program/project may seek specific authorization(s) for certain processes.

IMPORTANT: If you are planning to export, you should talk to your ECR/ECS at least four months prior to your tentatively planned export date.

In general, identify export requirements early and do not wait until an item is ready for export to obtain an export authorization. Programs and projects should involve the Center ECS early with current and future projects to share what, when, and to whom they intend to transfer and share NASA's commodities, software, technical data, technology, defense services, and/or technical assistance. The more information that requestors provide initially to ECS, the easier the process becomes; processing time begins when a complete, current, and accurate export request is received by Center ECS. ECS cannot move forward until they have all the required information.

To minimize processing time, where appropriate, a program/project may seek specific authorization(s) for certain processes such as shipments, releasing Scientific and Technical Information (STI), and hosting meetings as described in this manual. For any modifications in mission scope, foreign participants, or terms of an existing requirement, a new export control review should be completed.

2.2. *REVIEW AND MARKING OF DOCUMENTS*

All export-controlled information must be marked prior to dissemination to a foreign person or foreign destination. These instructions apply to marking software, technical data, and technology (including STI), in whatever form, including reports, presentations, briefings, etc.

In the definitions section of NPR 2190.1 under "marking" is the requirement for specific marking on export-controlled information prior to dissemination. In addition, NPD 1440.6I section 5.o.(3) "NASA Records Management":

> **REMEMBER:** Center ECS or Program/Project ECRs can help you determine what regulatory authority and classification to use and how to mark your documents.

"(o) All NASA employees or organizations that create, maintain, and dispose of NASA-owned records shall:

(3) Ensure records are marked with the proper access controls when they are created or issued, in accordance with NPR 2190.1, NASA Export Control Program."

Although it is everyone's responsibility to review and mark documents, it is the person who transfers the document to a foreign person who has the final (or ultimate) responsibility to verify that it has been properly reviewed and marked.

Marking documents is important because it identifies the correct regulatory authority and export classification, assists the Agency to obtain and/or use the appropriate export authorization(s), enables NASA employees/contractors and foreign persons to recognize if special handling is required, and helps reduce the likelihood of export violations. It is a best practice to always mark export-controlled documents prior to sharing, even to U.S. persons.

> **BEST PRACTICE:** It is a best practice to always mark export-controlled documents prior to sharing, even to U.S. persons.

2.2.1. *MARKING ITAR AND EAR DOCUMENTS*

All technical information must be reviewed and marked by the document owner prior to sharing with a foreign person, ideally, upon creation.

2.2.1.1. *ITAR AND EAR MARKINGS*

Document owners should mark all technical documentation advising the reader of the export jurisdiction and export classification. Most documents subject to export control under the ITAR and/or EAR are generally marked in one of two manners. The first and most common practice involves the marking of an entire document where the majority of the content is export-controlled, such as an engineering drawing package, technical report, mishap investigation report, or technical presentation. While marking a whole document, place the ITAR and/or EAR notice on the cover page in a font size that is readable when printed. Ideally, insert the export jurisdiction and category into the header or footer that mirrors the notice placed on the front cover of the remaining pages, and the marking is complete. The appropriate markings for documentation controlled under the ITAR and EAR are illustrated in Figure 5. See Figure 6 for an example of marking a whole document.

Figure 5: Standard ITAR and EAR Markings

USML Category ___

- International Traffic in Arms Regulations (ITAR) Notice –

This document contains information which falls under the purview of the U.S. Munitions List (USML) as defined in the International Traffic in Arms Regulations (ITAR), 22 CFR §120-130, and is export-controlled. It shall not be transferred to foreign persons in the U.S. or abroad without specific approval of a knowledgeable NASA export control official, and/or unless an export license or license exemption is obtained/available from the Directorate of Defense Trade Controls, United States Department of State. Violations of these regulations are punishable by fine, imprisonment, or both.

CCL ECCN ___

- Export Administration Regulations (EAR) Notice –

This document contains information within the purview of the Export Administration Regulations (EAR), 15 CFR §730-774, and is export-controlled. It may not be transferred to foreign persons in the U.S. or abroad without specific approval of a knowledgeable export control official, and/or unless an export license or license exception is obtained/available from the Bureau of Industry and Security, United States Department of Commerce. Violations of these regulations are punishable by fine, imprisonment, or both.

Subject to U.S. Export Control Regulations:

This document contains information within the purview of the International Traffic in Arms Regulations (ITAR), 22 CFR §120-130 and the Export Administration Regulations (EAR), 15 CFR §730-774, and is export-controlled. It may not be transferred to foreign persons in the U.S. or abroad without specific approval of a knowledgeable export control official, and/or unless an export license, license exemption, or license exception is obtained/available from the Directorate of Defense Trade Controls, United States Department of State or Bureau of Industry and Security, United States Department of Commerce. Violations of these regulations are punishable by fine, imprisonment, or both.

Figure 6: Marking Whole Document Example

Technical Data Sheet

ABC Systems

1

ITAR Category _XXI__

- International Traffic in Arms Regulations (ITAR) Notice –
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Only select pages in this document contain export-controlled information.

ITAR Category XXI
International Traffic in Arms Regulations (ITAR) Notice -
This document contains information which falls under the purview of the U.S. Munitions List (USML) as defined in the International Traffic in Arms Regulations (ITAR), 22 CFR §120-130, and is export-controlled. It shall not be transferred to foreign persons in the U.S. or abroad without specific approval of a knowledgeable NASA export control official, and/or unless an export license or license exemption is obtained/available from the Directorate of Defense Trade Controls, United States Department of State. Violations of these regulations are punishable by fine, imprisonment, or both.

2

SAMPLE
Training Only

Technical Data Sheet: Transport Mechanism

Manufacturer Name and Address	XXXX Systems XXXX Street XXXX, ZZ 99999 US
General Description	Prototype of a Transport Mechanism
Physical Description	Metal, composite Color: Silver Dimensions: 26"x 13"x 8"
Model Number	V999-999999-999-999999
General Purpose	The prototype of a transport mechanism converts an object into an energy pattern, then "beams" it to a target location, where it is reconverted into matter in its original form.
Composition	Metal composite – xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx circuit boards - xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx energy source - xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Label type	Fragile
Identification Number	55555555555
Weight	35lbs.

For international missions, program/projects may create specific markings such as the following for the International Space Station (ISS):

Program/Project: **International Space Station**

This document, and technical data contained in it, are subject to United States export laws and regulations. They may be used only in the International Space Station (ISS) program to fulfill responsibilities of the Parties or of a Cooperating Agency of an ISS Partner in furtherance of the ISS Intergovernmental Agreement. Re-transfer or disclosure to, or use by, any persons other than citizens of ISS Program International Partner countries, or use for any other purpose, requires prior U.S. Government authorization.

The second practice involves marking select pages within such documents. While the second practice is more resource intensive, it may be preferred or necessary. Marking selected pages provides a way to quickly locate pages containing export-controlled information and remove them before the document is shared with someone who does not have permission to view it.

1. Place the ITAR or EAR notice on the cover page in a font that is readable when printed.

2. Add a note to the cover indicating that only select pages contain export-controlled information.

3. Place a note (in red or bold) in the header or footer of the affected pages indicating the following: "This page contains information subject to U.S. export control regulations under the (insert ITAR and/or EAR)."

4. On those pages, identify[8] the affected text for ease of recognition, and the marking is complete. See Figure 7 for an example of marking select pages.

NOTE: NASA collaborates with other U.S. agencies that have specific documentation marking standards. Typically, the lead agency[9] determines how the document is marked.

[8] Options include: highlighting the information in yellow, placing the export-controlled information in brackets, italicizing, bolding, circling, or making a note in the margins.

[9] Considerations to take when determining the "lead" agency: Who owns the program? Which other agencies are involved? Who owns the technology? Who provides the funding? Who are the authors? What organization are they from? Who is the lead author(s)?

When NASA is not the lead agency, NASA may defer to the lead agency's documentation marking requirements. The NASA author should work with ECS to resolve any conflicts.

Figure 7: Marking Select Pages Example

Example Cover Sheet

Technical Data Sheet

ABC Systems

ITAR Category XXI

- International Traffic in Arms Regulations (ITAR) Notice –

This document contains information which falls under the purview of the U.S. Munitions List (USML) as defined in the International Traffic in Arms Regulations (ITAR), 22 CFR §120-130, and is export-controlled. It shall not be [illegible]d to foreign persons in the U.S. or abroad without specific approval of a knowledgeable NASA export [illegible]nd/or unless an export license or license exemption is obtained/available from the Directorate of [illegible]trols, United States Department of State. Violations of these regulations are punishable by fine, imprisonment, or both.

1

2

[illegible]nly select pages in this document contain export-controlled information.

EXAMPLE For Training Only

Technical Data Sheet: Transport Mechanism

Manufacturer Name and Address	XXXX Systems XXXX Street XXXX, ZZ 99999 US
General Description	Transport Mechanism
Physical Description	Metal, composite Color: Silver Dimensions: 26"x 13"x 8"
Model Number	V999-999999-999-999999
General Purpose	The transport mechanism converts an object into an energy pattern, then "beams" it to a target location, where it is reconverted into matter in its original form.
Composition	Metal composite – xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx circuit boards - xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx energy source - xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Label type	Fragile
Identification Number	55555555555
Weight Limit	35lbs.

4

3 This page contains information subject to U.S. export control regulations under the ITAR.

2.2.1.2. *EXPORT CONTROL RECORDS THAT ARE ALSO SENSITIVE BUT UNCLASSIFIED (SBU)*[10]

Export-related records and export-controlled documentation may also be SBU and require an SBU marking, labeling, special handling, and protection. Recorded information in any form (physical or electronic) that is designated as SBU shall be marked by the originator or custodian so that individuals with access to the SBU information are aware of its sensitivity and protection requirements, per NID 1600.55, section 5.24.3.

Not all export-controlled information is SBU, and not all SBU is export-controlled. Example: Program data coming from contractors concerning budgets and Personally Identifiable Information (PII) is SBU, but not export-controlled. Individual programs and projects have the discretion to designate what is and what is not SBU, per NID 1600.55. Example: The space shuttle data that is stored in warehouses around the Agency contain export-controlled information, but are not designated as SBU. However, if information is export-controlled and SBU, it will have the following marking: "SENSITIVE BUT UNCLASSIFIED (SBU) – CONTAINS EXPORT-CONTROLLED INFORMATION (ECI).

2.2.1.3. *MARKING EMAIL*

An email that contains export-controlled information should be marked as such. The person who transfers the export-controlled information to a foreign person/party must ensure an appropriate export authorization is in place prior to transmission and include the appropriate marking. If the email contains export-controlled information, the email must be encrypted. To mark the email:

1. Insert the words "CONTAINS EXPORT-CONTROLLED INFORMATION (ECI)" as the first line in the body of the email and distinctly before the content. This line should be at least size 10 font, bolded, all caps, and underlined.
2. Use the ITAR/EAR notice(s) at the end of the email.
3. Ensure that email is encrypted before sending.

See Figure 8 for an example of a marked email.

[10] NID 1600.55 is in effect until the OCIO's "Controlled Unclassified Information" (CUI) policy document is released.

Figure 8: Marked Email Example

Smith John, (HQ-CA000) (NASA)

From: John Smith (HQ-CA000) (NASA)
Sent: Monday, October 25, 2015 12:15 p.m.
To: Doe, Jane jane.doe@asc-csa.gc.ca
[mailto:jane.doe@asc-csa.gc.ca]
Subject: Loan of a Transport Mechanism to CSA
Attachments: Implementing Arrangement between NASA and CSA

"CONTAINS EXPORT-CONTROLLED INFORMATION"

Classification: CAT. XVIII (a)(3)

Authorization Certification(s): 22 CFR 126.5(b) applicable

Jane,
Per your request, the technical and physical data required for preparation of the arrival, operational test, display, and maintenance of NASA's Transport Mechanism are provided in conjunction with our hardware for the CSA public outreach and education program.

1

Manufacturer Name and Address	XXXX Systems XXXX Street XXXX, ZZ 99999 US
General Description	Transport Mechanism
Physical Description	Metal, composite Color: Silver Dimensions: 32"x 11"x 13"
Model Number	V999-999999-999-999999
General Purpose	The transport mechanism converts an object into an energy pattern, then "beams" it to a target location, where it is reconverted into matter in its original form.
Composition	Metal composite – xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx circuit boards - xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx energy source - xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Label type	Fragile
Identification Number	55555555555
Weight Limit	35lbs.

This information is being provided under the Implementing Arrangement between NASA and CSA. We will ship the item to the following address using FedEx as the U.S freight forwarder so that the CSA charge account can be used for billing:

Canadian Space Agency (CSA)
6767 Route de L'Aeroport
Saint-Hubert, Quebec CA.

Thank you for your cooperation.
John Smith
John Smith
Director of Metal Boxes at NASA HQ(HQ-CA000) (NASA)

2

ITAR Category ___
- International Traffic in Arms Regulations (ITAR) Notice -
This document contains information which falls under the purview of the U.S. Munitions List (USML) as defined in the International Traffic in Arms Regulations (ITAR), 22 CFR §120-130, and is export-controlled. It shall not be transferred to foreign persons in the U.S. or abroad without specific approval of a knowledgeable NASA export control official, and/or unless an export license or license exemption is obtained/available from the Directorate of Defense Trade Controls, United States Department of State. Violations of these regulations are punishable by fine, imprisonment, or both.

2.2.1.4. *CONTROL OF OLD OR EXISTING TECHNICAL INFORMATION*

NASA has many technical documents from previous and on-going programs and projects that are archived in repositories, planned to be archived, or are currently in use. Existing unmarked technical documents should be treated as if they do contain export-controlled information. Figure 9 shows markings that should be placed on such documents or their container[11]:

Figure 9: Marked Document Example

Export Control Notice
This document or container may include information subject to export control. This document may not be provided to any foreign person until the document has received an export classification by a CEA or a CEA-authorized individual who has attached a correct export control label with release authorization.

2.2.2. *MARKING OF SHIPPING DOCUMENTS WITH DESTINATION CONTROL STATEMENTS*

Export-controlled shipment transactions require a Destination Control Statement (DCS) be integral to the commercial invoice document. The DCS marking informs all parties to the transaction that the items being shipped are export-controlled and must be protected appropriately. The commercial invoice is the shipping document which acts as the official export control record of the transaction. Figure 10 shows the statement that is required on the commercial invoice in accordance with 22 CFR §123.9(b)(1)(iv) and 15 CFR §758.6(a)(1):

Figure 10: Marked Commercial Invoice Example

Destination Control Statement
(22CFR §123.9(b)(1)(iv) and 15 CFR §758.6(a)(1))
These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

[11] Container may include a box, file cabinet, room, burn bag, warehouse, etc.

It is a best practice to include the export authorization and classification on shipping documents.

2.3.*RECORDKEEPING FOR EXPORT CONTROL*

NPR 2190.1, "NASA Export Control Program" recordkeeping requirements are based on U.S. laws, implemented through the ITAR and the EAR. Failure to comply with export control laws and regulations for recordkeeping can result in export violations. NPD 1440.6I "NASA Records Management" provides the following direction for managing and retaining NASA records:

> *"Effectively and efficiently manage Agency records, regardless of format or media (including paper, microform, electronic, and audiovisual), throughout their life cycle in order to facilitate the Agency's programmatic and administrative missions." (1)(a)(4)*
>
> *"Preserve, maintain, and disposition NASA records in accordance with NASA Records Retention Schedules (NRRS) 1441.1, and/or National Archives and Records Administration's (NARA) General Records Schedules.*
>
> *Destruction of any records, regardless of format, without an approved schedule is a violation of Federal law." (1)(a)(5)*

Recordkeeping requirements for NASA's ECP include:

- Export Administrative Records – Documents for export control program administration that are not controlled/protected
- Export Protected Records – Documents that contain export-controlled information that must be properly marked and protected
- Export Control Records – Documentation of transactions that release or deny release of export-controlled items to foreign persons and/or foreign destinations

2.3.1. *EXPORT ADMINISTRATIVE RECORDS*

These records document export control office program administration. They are not marked as export-controlled and do not represent item/information transfers to foreign entities. Examples of Export Administrative Records include: training records, program audit reports, database information, correspondence, and classifications.

2.3.2. *EXPORT PROTECTED RECORDS*

These records consist of documents containing export-controlled information that are created or received by NASA or its contractors on behalf of NASA. They are marked with the appropriate regulatory authority and export classification and are maintained/protected from unauthorized access and disposition by the document owners, in accordance with the appropriate retention schedules.

Examples of Export Protected Records include: technical data sheets, reports/emails containing technical data, preliminary design reviews (PDRs), mission readiness reviews (MRRs), flight readiness reviews (FRRs), mishap investigation reports, technical drawings, test procedures, and project proposals.

2.3.3. *EXPORT CONTROL RECORDS*

These records document individual export control transactions which transfer export-controlled items to foreign persons and/or destinations. Export Control Records must be readily available for retrieval and presentation for inspections to government officials at all times. This is an agency internal business requirement that supports ITAR and EAR requirements. NASA business requirements necessitate that records be retained through and until the end of the program/project lifecycle and until at least five years after the property has been dispositioned.

Examples of Export Control Records include:

- Export licenses obtained by NASA HQ for the Centers
- Documents authorizing the public release of export-controlled information released into the public domain including websites
- Records certifying the use of exemptions or exceptions for exports other than shipping (oral/visual in meetings or electronic transfers)
- Mailing and shipping documentation for export-controlled transactions (invoices, bills of lading, Automated Export System (AES) filings, etc.).
- Export control-related property disposal records
- Meeting records

- Records of electronic transfers

There are three NASA offices primarily responsible for retention and retrieval of these records. See Table 6.

Table 6: Offices Primarily Responsible for Export Control Related Records

Office	Records
Center Export Control Staff (ECS)	Copies of export authorizations (e.g., license, exemption, exception, or No License Required (NLR)) and voluntary disclosures
Program/Project Offices	Requests for and copies of licenses, shipping verification documentation, use of exemptions, use of exceptions, license renewals, copies of notifications of external investigations of potential license violations, etc.
Logistics	Copies of shipping and mailing and property disposal documentation for export-controlled items

2.4. *EXPORT CONTROL PROCESS FOR NASA SCIENTIFIC AND TECHNICAL INFORMATION (STI)*

STI is defined as "the results (the analyses of data and facts and resulting conclusions) of basic and applied scientific, technical, and related engineering research and development." The NASA STI Program was established to provide the widest **appropriate** dissemination of NASA research results.

STI release may occur through methods such as: formal NASA publications, non-NASA publications (e.g., society journals, trade journals, oral presentations to professional societies, and proceedings of scientific and technical conferences and workshops), placement on websites, emailing to foreign persons, and meetings with foreign persons present. All NASA STI and NASA-funded STI, proposed to be released by or on behalf of NASA (such as into the public domain, or presented at conferences, or meetings where foreign persons may be present), shall be reviewed in accordance with NPR 2200.2D "Requirements for Documentation, Approval, and Dissemination of NASA Scientific and Technical Information" and as described on the Agency's STI website.

The STI program office, located at Langley Research Center (LaRC), reports to the Agency OCIO and manages Scientific, Technical and Research Information discoVErY System (STRIVES). STRIVES ensures appropriate release of STI by providing multiple reviews conducted by Legal

Office and export control representatives. Export control is just one step of this multi-step process.

STRIVES utilizes an electronic format of the NASA Form (NF) 1676 to review STI; this form includes a place for the export control determination. ECS determines whether information can be released, restricted, or controlled for export compliance reasons[12]. Requestors must allow sufficient time for ECS to process a determination request depending on the length and complexity of the material to be reviewed. Longer and more complex material may take up to 30 days or more to review. Requests to publicly release STI that is export-controlled must include a compelling written justification and rationale (see Appendix B-5 for an example). To expedite the review of STI, the Requestor should:

- Mark any data that is known to be or is potentially export-controlled
- Indicate which content is new (not been previously released to the public) and which is already publicly available, and where to find it

The Requestor can accomplish this by doing an open source search, providing a bibliography, attaching links to published information, and providing previously approved NF-1676s, if available.

NASA may not authorize the release of information or data controlled by other government agencies without their prior approval. Such a request typically goes through the CEA to HQ ECS, who normally obtains approval from the other agencies. Allow a minimum of 45 additional days for review of documents that contain information from other agencies.

Not all information released by NASA is STI; however, much of this information still requires an export control review. Examples include: information to be published in NASA policy documents, information to be published as a result of mishap investigations, new technology reports (NTRs)/invention disclosures, software, including research, technical, development, operational, and off-the shelf software, scientific and technical documents exchanged with NASA international partners under established international agreements with foreign governmental entities, and Freedom of Information Act (FOIA) requests. To accomplish

[12] This authority can be delegated to ECRs by the CEA at some Centers.

this, coordinate with the ECS. ECS documents the review and the corresponding export control determination.

2.5. *PROCESS FOR OBTAINING AN EXPORT AUTHORIZATION*

This section provides the methodology to obtain the appropriate export authorization[13]. Prior to exporting, a Requestor must have both a formal requirement (usually found in an SAA, NASA contract, or NASA grant) and an export authorization (a license, license exemption, license exception, or NLR).

If there is no formal requirement in place, establish one. Work with the appropriate parties involved, such as: Program/Project Manager, Procurement Office for a contract/grant, and/or the Center designated Agreements Manager for an SAA (see NAII 1050-1C). Additional NASA policy and procedural references that may be useful are NPD 1050.1I "Authority to Enter into Space Act Agreements," NPD 1360.2B "Initiation and Development of International Cooperation in Space and Aeronautics Programs," and NPD 5101.32E "Procurement, Financial Assistance."

Note: If you do not have a contract, grant, SAA or other "requirement" you should reconsider the need to do the export or provide the technology. NASA is not a "lending library" of export-controlled information on space and aeronautics technology.

Once the formal requirement has been established, check with ECS to see if an export authorization already exists. If there is no existing export authorization, the Requestor completes and submits Checklist A to the ECS with any applicable documentation. The information in Checklist A may be submitted to the ECR or Center ECS for review using a Center-equivalent form or system.

The HEA/CEA[14] must approve all temporary[15] or permanent exports of controlled items by all means of export anywhere and at any time, including: mail, email, shipment, oral/visual

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[13] Typically, NASA contractors are responsible for obtaining their own export authorizations in accordance with their contracts. Consult ECS if there is a question about whether NASA or its contractor should obtain the authorization.

[14] The CEAs may further delegate part of the authority to the ECS and/or ECRs, also referred to as CERs or EC POCs at some Centers.

[15] Under the ITAR, the export of less than 4 years. Under the EAR, the export of less than 1 year.

disclosure, international travel hand-carry, foreign deployments, and meetings and conferences. CEAs must process all export license applications through the HEA.

Figure 12 illustrates the process for obtaining an export authorization. The process starts and ends with the Requestor. ECS reviews the information provided in Checklist A and any accompanying requirements and documents to ensure completeness and to ensure that the corresponding requirement is valid. ECS verifies that the intended export is within the scope of the documents provided and conducts the appropriate list checks[16] to ensure that any foreign persons involved or represented are not on any prohibited lists.

The Requestor may ask ECS to assist with verification of jurisdiction and classification determination of the potential export items, as needed, and may be asked by ECS to provide more information to ensure the proper classification has been determined. ECS will provide information to the Requestor regarding which export authorization is appropriate to use (i.e. license, exemption, exception, or No License Required (NLR)). CEA approval is required for use of a license exemption or exception. The HEA may require that CEAs request approval from the HEA for some specific exemptions and/or exceptions.

If a new license is required, the ECS informs the Requestor of the processing timelines and the two work together to prepare the license application for submission to HQ ECS. HQ ECS reviews the package and prepares it for submission to the relevant regulatory agency. HQ ECS approval for highly-complex exports can take 60-120 days or longer. External reviews and approval by other U.S. Government agencies typically range from 30-60 days, but in some cases can take months or even years.

IMPORTANT: HQ ECS approval for highly-complex exports can take 60-120 days or longer.

Based on Center/HQ ECS reviews, the Requestor may receive any of the following responses: an approved request, an approved request with conditions, or a denied request. Requests that are incomplete may result in processing delays. Export requests that do not

[16] The export control requirement is to run the lists checks on foreign persons and their organizations. The current NASA methodology is to use the HQ Office of Protective Services' approved database. The current database is an online screening tool that allows a single point check for an individual or entity (company, government entity, school, etc.) against all current export control restrictions, sanctions, law enforcement, international terrorist, blocked person, wanted, and entity lists, and export risk country alerts.

contain complete, detailed, current, and accurate information will likely require additional processing time. The more relevant information Requestors provide, the quicker they will receive a response to their requests.

The ECS documents and provides any export instructions to the Requestor to explain how the Requestor should execute the export. Information that may be found in the written instructions include:

1) Conditions, terms, provisions, and duration for use of the export authorization;

2) Automated Export System (AES) filing instructions (see Section 3.4.); and

3) Special reporting requirements, such as "Notify the ECS of the initial date of certain export transactions in order to satisfy ITAR reporting requirements (22 CFR 123.22(b)(3))."

After the Requestor has ensured that all conditions, terms, and provisions for the valid export authorization have been satisfied, the export can be conducted through the appropriate venue (e.g. meetings, document transmittal, the appropriate shipping/mailing organization, or hand-carried).

The shipper/mailer/exporter executes the export and is responsible for maintaining the official shipping records and must include the export authorization and appropriate destination control statements (DCS). The export record includes documentation of ECS approval and export authorization as well as any other required additional forms for recordkeeping as described in Section 2.3. All parties involved with the transaction, including the Requestor, are responsible for maintaining their portion of the export control records.

Export-controlled items being shipped or accompanying a NASA traveler, may require an AES filing. The CEA/ECS sends a transmittal letter to inform the recipient of an approved export authorization. If an AES filing is required for a shipment, the letter will explain what the recipient must do. If an AES filing is required, the filing document is an official export control record.

If AES filing is required (see Section 3.4.), the organization conducting the AES filing must include the documentation as part of their official records. NOTE: If an export of NASA-owned commodities, software, technical data, and/or technology is conducted by a third-party shipping and receiving office (such as a contractor or a university), then it is the responsibility of that party to ensure the shipping process is followed in accordance with the regulatory and

contractual requirements, including correct and timely AES filing. The NASA organization that contracts with the third-party shipper will provide a "Shipper's Letter of Instruction" (SLI) documenting these requirements, including AES filing, if required. A Shipper's Letter of Instruction is defined as: A form issued by a shipper to authorize a carrier to issue a bill of lading or an air waybill on the shipper´s behalf. The form contains all details of shipment and authorizes the carrier to sign the bill of lading in the name of the shipper. NASA may request copies of third-party shipping paperwork for review prior to shipment. If using a third-party, work with your ECS to coordinate specific directions.

If a NASA employee is traveling to a foreign destination, see Section 2.9.

Figure 11: Checklist A

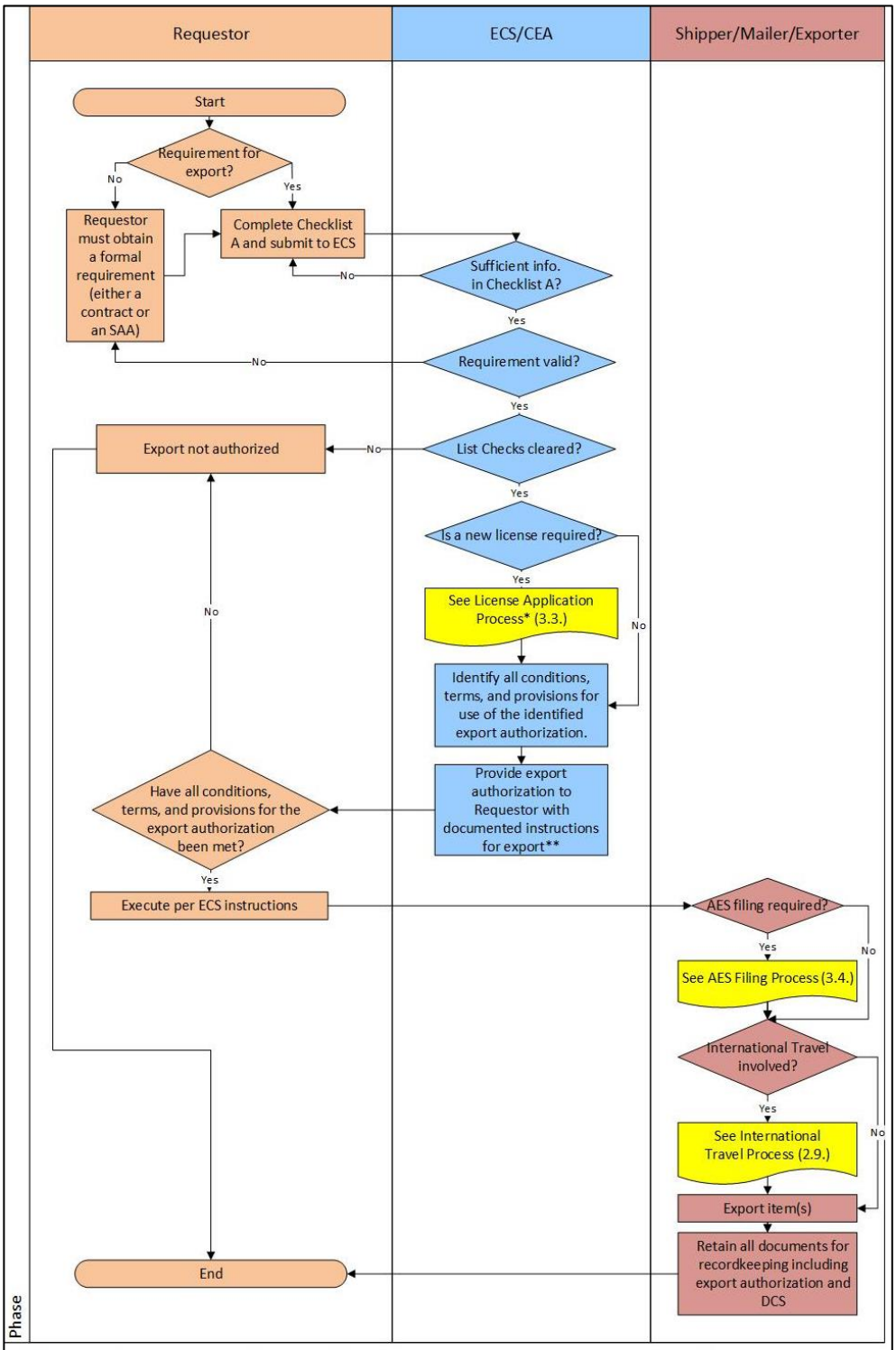
Checklist A: Export Authorization Request	
1.	Name of Requestor: Click here to enter text.
2.	Work Address of Requestor: Click here to enter text.
3.	☐ Civil servant or ☐ Contractor
4.	Organization: Click here to enter text.
5.	What is the purpose of the export? Click here to enter text.
6.	Program/Project: Click here to enter text.
7.	Phone number: Click here to enter text.
8.	Identify the requirement (e.g., contract, grant, or agreement) in place that requires this item(s) to be exported. Click here to enter text. ☐ Send or attach a copy of the requirement document(s), if applicable.
9.	Is there a pre-existing export authorization? ☐ Yes or ☐ No
10.	If yes, what kind?
11.	☐ If a copy of the authorization exists, provide a copy and check this box when attached.
12.	Type(s) of transaction. If there are multiple items, attach a spreadsheet (see sample), and check all that apply: ☐ Hardware ☐ Software ☐ Technical Data ☐ Technology ☐ Defense Service
13.	Enter a general description: Click here to enter text.
14.	☐ Attach a technical description of each item to be exported.
15.	Quantity of the item(s) and unit(s) of measure: Click here to enter text.
16.	Jurisdiction(s): Click here to enter text.
17.	Classification(s): Click here to enter text.
18.	Include model or part number: Click here to enter text.
19.	Manufacturer's name: Click here to enter text.

20.	Manufacturer's address: Click here to enter text.
21.	☐ Send or attach a picture or drawing of each item as a PDF file
22.	Where was the item made: Click here to enter text.
23.	Where did it come from? Click here to enter text.
24.	Where will it be shipped from? Click here to enter text.
25.	Enter the value for each item: Click here to enter text.
26.	Organization of ultimate destination: Click here to enter text.
27.	Address of ultimate destination: Click here to enter text.
28.	Name of end-user: Click here to enter text.
29.	Identify (or describe) the end-use:
30.	Methods of export for each item: Click here to enter text.
31.	Anticipated U.S. port of exit, if applicable: Click here to enter text. ☐ NA
32.	Anticipated U.S. port of return, if applicable: Click here to enter text. ☐ NA
33.	List all parties (U.S. and foreign) who will be involved in this export. Include a spreadsheet if multiple parties are involved. Name(s): Click here to enter text. Organization(s): Click here to enter text. Address(es): Click here to enter text. Role(s) they play in export(s)[17]: Click here to enter text.
34.	When do you want to export? Click here to enter text. When do you need the authorization by? Click here to enter text. Impact if anticipated date is not met? Click here to enter text.

[17] EXAMPLE: If the export is a commodity being shipped in a box, will the person move the box? Open the box? If the export is technical data, is the person exporting via email or over telephone? ECS needs to know exactly what each person's involvement with the export is.

35.	If this is a temporary export, when do you think it is coming back? Click here to enter text.
36.	If this is a loan, review and comply with the procedural requirements of NPR 4200.1H, paragraphs 3.4 and 3.5.

Figure 12: Process for Obtaining an Export Authorization



*The License Application Process determines the appropriate export authorization; it examines whether the item is subject to export controls, its jurisdiction and its classification, whether a license is required, whether a license exemption or license exception applies, and the processes for applying for a license.

** Documented instructions will include whether or not AES filing is required; ECS uses Checklist I to determine this.

2.6. *EXPORT CONTROL PROCESS FOR FOREIGN NATIONAL ACCESS REQUESTS*

The Office of Protective Services (OPS) leads NASA's Foreign National Access Management (FNAM) [18] program. OCIO and OIIR are partners in the FNAM program. Together, the three offices ensure that all security and export control requirements are met as NASA engages with foreign partners and visitors by preventing unauthorized access to NASA resources.

REMEMBER: An export can take place anywhere, at any time, by any means, including here in the United States.

The FNAM program enables a layered approach with multiple approvals to protect sensitive information and resources, including IT systems, from inadvertent access by foreign nationals. NASA Export Control uses the FNAM system to:

- Document the rationale for access to NASA assets, both physical and logical
- Document the requirement (e.g., SAA, contract, grant, or Agreement) for access
- Demonstrate that the required export authorization(s)/approval(s) for that access exist
- Confirm program/project managers/sponsors and visitors' acknowledgement of the limits of this access

The Foreign National Access Request process includes program/project elements, export requirements, foreign national identity, export authorizations, non-disclosure agreements (NDAs)[19], and provisos. The Identity Management and Account Exchange (IdMAX) is NASA's web-based integrated system for Identity, Credential, and Access Management (ICAM). NASA uses IdMAX to manage NASA identities and credentials and to process requests for foreign

[18] The terms "foreign national" and "foreign person" are synonyms (see NPR 1600.4 Appendix A). "Foreign national" is used in this section because OPS primarily utilizes this terminology.

[19] Ensure that an export requirement, export authorization, and non-disclosure agreement(s) (NDA) are in place when foreign nationals are provided export-controlled technical data or commodities outside the scope of an International Agreement or contract.

nationals' visits[20] to NASA facilities. IdMAX maintains all records for foreign national access requests.

To start a foreign national access request, the Requestor gathers the necessary information from the foreign national visitor and enters it into IdMAX at least 14 days prior to the visit. Checklist B: Gathering Information for IdMAX Entry is available for use in gathering all the required information.

BEST PRACTICE: Uploading resumes and/or curriculum vitae into IdMAX provides additional background information on past affiliations of the foreign national.

[20] Per NAII 1600.4, a visit is any means by which, and any duration for which, access is obtained to non-public NASA assets. A short-term-visit is any visit enabling physical-only access for a period of up to but not exceeding 29 calendar days in a 365-day period. A long-term visit is any access by a foreign national for a period of 30 calendar days or more in 365-day period. Long term visits are divided into two categories: temporary (30-180 days) and permanent (more than 180 days).

Figure 13: Checklist B

Checklist B: Gathering Information for IdMAX Entry		
☐	**1.**	Name of Requestor: Click here to enter text
☐	**2.**	☐ Civil servant or ☐ Contractor
☐	**3.**	Organization: Click here to enter text
☐	**4.**	Program/Project: Click here to enter text
☐	**5.**	Phone number: Click here to enter text
☐	**6.**	Full legal name of the Visitor: Click here to enter text
☐	**7.**	Gender ☐ M ☐ F
☐	**8.**	Visitor's Residential Address (include country): Click here to enter text
☐	**9.**	Country and date of birth: Click here to enter text.
☐	**10.**	Country of Citizenship: Click here to enter text
☐	**11.**	Does Visitor have dual citizenship? ☐ Yes ☐ No If yes, enter country(ies): Click here to enter text.
☐	**12.**	Social Security Number (SSN) if available: Click here to enter text. Or Foreign Identification Number (if no SSN available): Click here to enter text.
☐	**13.**	Passport Information/Identification Number; include a digital copy: Click here to enter text.

☐	**14.**	Visa Type[21]; include a digital copy: Click here to enter text.
☐	**15.**	Employer and/or affiliation: Click here to enter text
☐	**16.**	Employer Address: Click here to enter text Work phone number: Click here to enter text. Work email address: Click here to enter text.
☐	**17.**	Name of sponsor: Click here to enter text
☐	**18.**	What is the purpose of the visit? ☐ Interview ☐ Research Assignment ☐ Meeting or conference If the purpose of the visit is for an interview or a research assignment, upload the applicant's resume and/or curriculum vitae, if available, to IdMAX.
☐	**19.**	Is this a high-level protocol visit[22]? ☐ Yes ☐ No
☐	**20.**	Dates and/or period of time for the visit: Click here to enter text
☐	**21.**	NASA facility (physical) access required for the visit: ☐ NA Click here to enter text.
☐	**22.**	NASA IT or data access required for the visit (on-site and/or remote): ☐ NA Click here to enter text.
☐	**23.**	How long has the visitor/applicant lived or worked in the U.S? ☐ greater than 3 years ☐ less than 3 years ☐ Never

[21] If the purpose of the foreign national's visit is to perform research for the benefit of NASA, they are usually admitted on an F, H, or J visa. A B1/B2 (business/pleasure) visa or, visiting under the Visa Waiver Program (VWP), are NOT acceptable authorities for purposes of research performed for the benefit of NASA. A complete list of visa type and respective elements for review in included in Appendix B-1.

[22] Per NAII 1600.4, a high-level protocol visit is an event or meeting attend by individuals representing, or delegations of, foreign heads of state or government, ambassadors, heads of foreign government ministries or space agencies.

☐	**24.**	Provide a work description. Include the program(s)/project(s) the person will support and what tasks/technologies that will be involved: Click here to enter text.
☐	**25.**	Foreign National needs to work outside the normal business hours (8 AM to 6 PM) Specify hours and justification. Click here to enter text.
☐	**26.**	Identify export-controlled items included in the project/program ☐ NA Click here to enter text
☐	**27.**	Export-controlled items NASA is required to provide to the foreign national per the agreement or contract? ☐ NA Attach the agreement or contract in IdMAX "Document" tab, if available: Click here to enter text.
☐	**28.**	Means of export or transfer (hand-carry, ship, oral, electronic, emails, etc.): ☐ NA Click here to enter text.
☐	**29.**	Foreign national applicant requires access to EAR or ITAR data. (Requires an export authorization) Coordinate with your export control staff. ☐ NA Attach the corresponding export authorization (license, license exemption, license exception, or No License Required (NLR) in IdMAX "Document" tab, if available. Click here to enter text.
☐	**30.**	Does the applicant require access to missile technology data or ITAR detailed design, development, production, or manufacturing data? ☐ Yes ☐ No If yes, provide DOS license information. Click here to enter text.

Once the request is entered, the Sponsor reviews the request to ensure all information is complete and correct. It is the sponsor's job to make sure any incorrect or missing information is resolved.

The Sponsor, as the responsible NASA official, also reviews for "Red Flags." A Red Flag is any abnormal circumstance in a transaction that indicates that the export/transfer may be destined for an inappropriate end-use, end-user, or destination. Examples of Red Flags may include requests for items that are inconsistent with the needs of the partner/project, requests for equipment configurations that are incompatible with the stated destination (e.g., 120 volts in a country with 220 volts), or other apparent irregularities. Always inquire and seek additional information if Red Flags are indicated." See EAR 15 CFR Part 732, Supplement 3 for additional information.

DESIGNATED COUNTRIES LIST

Countries on this list fall into one of the following four categories:

- No U.S. diplomatic relations
- Supporters of terrorism
- Under Sanction or Embargo by the U.S.
- Source of missile technology concerns

List available on HQ EC website.

After the sponsor has determined there are no Red Flags and the request is appropriate, they approve the request. The system then routes it to the Center International Visit Coordinator (IVC) for their initial security check. The IVC checks the required information and documents for completeness, currency, and accuracy, and validates the visa type. If complete and correct, the IVC authorizes the request and forwards it to the Center ECS for initial review. Note: If the foreign national was born in or is a citizen of a designated country, the request will be sent to the Counterintelligence Special Agent prior to the International Visit Coordinator.

2.6.1. *CENTER EXPORT CONTROL STAFF REVIEW PROCESS*

The Center ECS reviews the request for completeness, currency and accuracy, which includes a list check[23] and a Red Flags review. The ECS ensures that the documentation for the visit (e.g., visa type) is consistent with the purpose of the visit, and access to particular physical[24] and/or logical[25] areas is within the parameters of the requirement. While the security office is responsible for validating the visa types, ECS should review that the visa type is consistent with the purpose of the visit and the type of access requested. For example, it is not appropriate to authorize a foreign national who has been granted U.S. entrance on a B1/B2 (business/pleasure) visa or under the Visa Waiver Program (VWP), as a "visiting researcher" to a NASA facility. Visiting researchers performing research for the benefit of the Agency are normally admitted on F, H, or J visas. A complete list of visa type and respective elements for review is included in Appendix B-1.

ECS uses the HQ OPS approved database[26] to conduct required list checks on all foreign national visitors and their organizations. If a "positive hit" results from any of the list checks, the access request is denied and the positive hit must be reported to Center Chief of Security/Center Protective Services and the HEA (see NAII 1600.4). Exceptions of this denial may be granted in cases where the "positive" hit is found to not belong to the specific individual through further investigation or if the positive hit can effectively be mitigated by access restrictions and controls approved by the HEA or through the waiver process (see NAII 1600.4).

ECS reviews both nationality and citizenship against the designated countries list (see HQ Export Control website) to determine whether non-public, export-controlled information may be provided in the course of the prospective foreign national visit via a license, exception,

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[23] A check (search) for an individual or entity (company, government entity, school, etc.) against all current export control restrictions, sanctions, law enforcement, international terrorist, blocked person, wanted and entity lists, and export risk country alerts.

[24] Per NAII 1600.4, physical access is the ability to touch, or walk into or up to an asset such as a building, door, flight, hardware, paper, IT system, etc.

[25] Per NAII 1600.4, logical access, commonly referred to as IT access, is the ability to interact with electronic data, applications, or systems.

[26] The current database is an online screening tool that allows a single point check for an individual or entity (company, government entity, school, etc.) against all current export control restrictions, sanctions, law enforcement, international terrorist, blocked person, wanted and entity lists, and export risk country alerts.

exemption, or provisos. If access to non-public, export-controlled information is requested, ECS ensures that the requested access is appropriate, the appropriate authorizations are in-place prior to the visit, if required, and any export restrictions or conditions are clarified via provisos.

Once all of these factors have been reviewed and the appropriate actions have been taken, the Center ECS may request additional information using the IdMAX Review/Hold feature or they may approve or deny the visit request. If approved, the ECS applies provisos and the request is sent back to IVC for final approval.

Once the Center IVC approves the visit request, the Requestor is notified via an automated email sent through IdMAX and the request is routed to the Center Badging Office for enrollment and authorization (see Section 2.6.4.).

However, if an IdMAX request for a foreign national meets any one of the following conditions, it automatically routes the request to the Agency Desk Officer[27] following the Center ECS review:

- The visitor is born in or is a citizen of a designated country (see HQ Export Control website)
- A NASA-sponsored J-1 visa[28] is involved
- The foreign national is a high-level protocol visitor

TOURS

Public tours should be periodically reviewed by Center ECS and the Counterintelligence Special Agent (CISA).

When FNs are participating in a special request tour, the IVC should review the access request with ECS. Preventative measures may be imposed on the areas of concern (see NAII 1600.4, section 2.3)

2.6.2. *AGENCY DESK OFFICER REVIEW*

[27] An Agency Desk Officer is the Agency-level person who reviews the visit to ensure it is consistent with NASA and national policy relevant to the country and regions. All Agency Desk Officers work within the Office of International and Interagency Relations.

[28] The J-1 visa indicates that the exchange visitor is NASA-sponsored. The J-1 Visa program is administered by DOS, and U.S. organizations sponsor specific individuals for participation in work-and-study-based exchange visitor programs. When NASA is the sponsor, the identity will be vetted at Agency-level, regardless of country of birth or country of citizenship.

The Agency Desk Officer[29] reviews access requests for foreign nationals born in or with citizenship of a designated country. The review is conducted based on their respective Mission Directorate programmatic requirements, any country-specific and/or regional foreign policy issues/circumstances, and compliance with Agency policies and agreements.

If the Agency Desk Officer requires additional information, the Requestor receives an email through the IdMAX system that identifies the information needed. If the request is denied, the Requestor and Sponsor will receive an explanation provided by the Agency Desk Officer. If the Agency Desk Officer approves the request, it is sent to HQ ECS for review.

2.6.3. *HQ ECS REVIEW*

HQ ECS reviews all previous entries and documentation, foreign nationals' affiliations using the Agency approved database checks, and a review of conditions and provisos for the access request.

An approved visit request notification will almost always have provisos or conditions that must be met for the visit to take place. HQ ECS then enters provisos into IdMAX as part of the official record. A list of provisos used by NASA ECS is provided in Appendix B-2. HQ ECS updates this list from time-to-time and the most current list is available on IdMAX.

PROVISOS

The Requestor and the Sponsor are responsible for reviewing, understanding, and complying with all conditions stated in the provisos. Contact ECS for clarification.

If HQ ECS requests additional information, the Requestor will receive an email notice via IdMAX. If HQ ECS approves the request, IdMAX sends it to the Center IVC for final authorization.

After receipt of a Center or HQ ECS approved visit request, the Center IVC authorizes or denies the request. If the request is not authorized, the Requestor will receive an email notification via IdMAX. If the request is authorized, the Requestor and Sponsor receive an email notification via IdMAX including provisos that must be met and the request is routed to the Center Badging Office for enrollment and authorization.

For some visits the provisos will include a requirement for a Technology Transfer Control Plan (TTCP). This proviso is applied to visits that will be for 30 days or more to mitigate risk of

[29] There are specific Agency Desk Officers for each country.

inappropriate access to export-controlled commodities, software, technical data, or defense services. A TTCP is a required and useful tool to ensure that all persons participating in the activity understand what export-controlled items are involved, what foreign persons are involved, what export-controlled items NASA must provide to those foreign persons, and how those items will be transferred to those foreign persons (including the means of transfer and appropriate markings, as required by the governing international agreement or contract). Sample TTCPs are provided in Appendix B-3 and Appendix B-4.

Technology Transfer Control Plans (TTCPs)

A TTCP is a required and useful tool to ensure that all persons participating in the activity understand what export-controlled items are involved, what foreign persons are involved, what export-controlled items NASA must provide to those foreign persons, and how those items will be transferred to those foreign persons.

2.6.4. *ENROLLMENT AND AUTHORIZATION*

Enrollment for long-term visits captures identity documents, fingerprint biometrics, and photograph. Once registration is complete, Center security conducts adjudication of the individual based on results of a National Criminal History Check (NCHC) and a list check, or additional checks, as appropriate. Successful adjudication will result in the authorization of the access request and issuance of an identity credential. Visitor credentials are only created for on-site visits.

2.6.5. *ISSUANCE*

If the visit is remote-only, appropriate credentials are issued for access. At the end of the visit, the credentials are returned to Center Badging Office/Security. Escort requirements are to be consistent with NPR 1600.4, "National Security Program." Figure 14 illustrates the process for foreign national access requests.

2.6.6. *TECHNOLOGY TRANSFER CONTROL PLAN (TTCP)*

The Technology Transfer Control Plan (TTCP) in conjunction with the Access Control Plan (ACP) is meant to assure optimal protection to preclude unauthorized release or access to NASA export-controlled assets by foreign nationals. TTCPs define the scope and authorizations for the program or project, while ACPs list the NASA Assets (facilities, information, and technology) to which a foreign national may request access. Access is not granted by the ACP; it is authorized in conjunction with an approved TTCP, which is developed and implemented by the program/project/organization sponsoring the foreign national. ACPs function on the principle of whitelisting—a list of assets is identified to which a foreign national may request access. The

foreign national must still request access to assets listed in their ACP through the NASA Access Management System (NAMS). Assets not listed in the ACP must be reviewed by the appropriate owners and other persons (e.g., IVC or CEA) prior to access being granted, based on information in the P-TTCP and/or the I-TTCP.

TTCPs are intended to be working documents and should be tailored to meet the unique circumstances of a program or project with the concurrence of the Center Export Administrator. A TTCP serves as an aid and a guide to program and project personnel, as well as other NASA officials and contractors that interact with foreign persons. Within NASA, a TTCP provides the context (requirements, rationale, roles, scope, authorities, means, conditions, and timelines) in which items are to be transferred to foreign persons. Activities that span multi-Center teams, programs, or projects with foreign national participation are encouraged to develop Program TTCPs that cover all affected Centers instead of Center-specific Program TTCPs. Program/project/organization sponsors shall develop TTCPs that require review and concurrence by the CEA. Additional concurrences may include the Center Chief of Security (CCS), Center Chief of Protective Services (CCPS) and in cases involving logical access, the Chief Information Officer (CIO) or their designees.

There are two types of TTCPs: The Programmatic Technology Transfer Control Plan (P-TTCP) and the Individual Technology Transfer Control Plan (I-TTCP). P-TTCPs address overall programmatic needs, while I-TTCPs focus on the individual foreign national's specific circumstances. A P-TTCP will be established for each NASA Program or Project with international participation where export-controlled/non-export-controlled items will be transferred, (this may include multiple organizations, countries that are signatories, and foreign participants under an Agreement/contract/grant/affiliation); and I-TTCPs will be established for an individual foreign national that will access export-controlled assets. There may be circumstances where only an I-TTCP would be required because the foreign person that is to access NASA export-controlled information is not affiliated with a NASA program or is the only foreign national associated with a NASA contract or grant. When a foreign person will not have access to export-controlled items, an I-TTCP is not required; however, a proviso will be levied in IdMAX stating "No export-controlled access is authorized."

For P-TTCPs, an attachment may be used that identifies, inter alia, the specific individuals and specific roles that require the same exact physical/logical access. This attachment must include name, company/organization, citizenship, birth country, and job title/role for each foreign national covered by the P-TTCP. Alternatively, a P-TTCP may specify how roles and access will be afforded to assigned individual users. If the P-TTCP is constructed as indicated

above, at the discretion of the CEA, foreign nationals from non-designated countries do not require an I-TTCP. Foreign nationals from non-designated countries requiring access to export-controlled information covered by a P-TTCP are required to comply with the International Partner or Foreign National Certification contained in the P-TTCP.

It is noted that all foreign nationals from designated countries requiring access to export-controlled information, even if covered by a P-TTCP, are required to have an I-TTCP with an NDA.

Sample TTCPs are included in Appendix B; P-TTCPs in Appendix B-3 and I-TTCPs in Appendix B-4 can be attached to each foreign national's individual identity record in IdMAX.

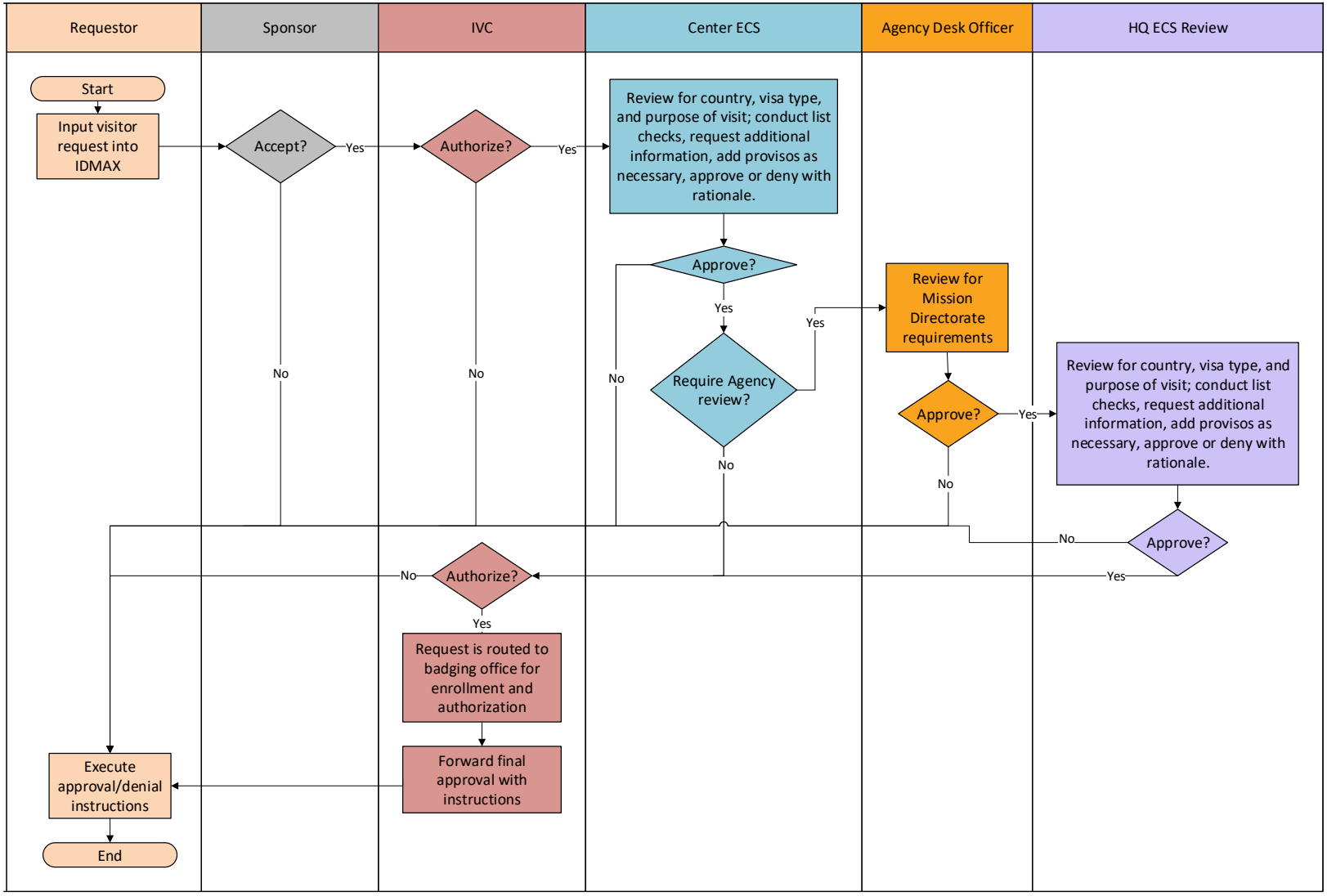
Policies for the use and creation of ACPs can be found in NPR 1600.4. Additional information regarding the ACPs can be found in the Foreign National Access Management (FNAM) Operations Manual, NAII 1600.4.

2.6.7. *ACCESS CONTROL PLAN (ACP)*

The ACP, identifies the security and export control requirements necessary to obtain access to NASA resources (facilities, information, and technology). The capability to create and assign ACPs within IdMAX[30] streamlines the access approval process. ACPs should be uploaded electronically to IdMAX and attached to an individual's identity record. ACPs are created for two distinct categories: programs and projects, and individuals. The ACP works in conjunction with the TTCP to provide positive control of foreign national access to export-controlled items.

[30] IdMAX is the only mechanism approved by the Office of Management and Budget (OMB) for the storage of identity records and associated date.

Figure 14: Process for Foreign National Access Requests



2.7. *SUGGESTED BEST PRACTICES FOR MEETINGS*

In the context of hosting a meeting, the NASA host is the individual responsible for calling the meeting, setting the agenda, inviting the participants, and ensuring that the meeting complies with NASA policies and procedural requirements.

IMPORTANT: The host should always be aware if foreign nationals are participating in the meeting. This includes being attentive to attendees who join the meeting after it begins.

2.7.1. *ATTENDING MEETINGS WITH FOREIGN PERSONS*

Many of the best practices in this section are applicable to all meetings, but some provide a specific focus on best practices before, during, and after on-site or remotely held meetings with foreign persons where *export-controlled* information will be shared. Checklist C has been developed to assist the host in planning and conducting meetings to prevent the inadvertent transfer of export-controlled information and a potential export control violation. For additional assistance, the host should contact the ECS (ideally the program/project ECR) in planning and conducting the meeting.

Figure 15: Checklist C

Checklist C: Best Practices for Hosting Meetings with Foreign Persons		
The best practices in this checklist are applicable to all meetings with foreign persons, but have a specific focus on meetings with foreign persons where EXPORT-CONTROLLED information will be shared. **In the context of hosting a meeting, the NASA host is the single responsible for calling the meeting, setting the agenda, inviting the participants, and ensuring that the meeting complies with NASA policies and procedural requirements.**		
Prior to the meeting, the host is responsible for ensuring that:		
☐	1	The proper export authorization(s) are in place through coordinating with the presenters and ECS
☐	2	The scope of the planned meeting is within the parameters of the export authorization(s) and is communicated to all participants, as necessary
☐	3	All U.S. participants know the authorizations and limitations for the release of export-controlled information Contractors are responsible for ensuring their participation remains within the scope of their export authorization(s)
☐	4	An attendee roster of all foreign person participants has been generated. The roster should include, at minimum: name, nationality(s), and affiliation—all attendees must be accounted for.
☐	5	A full list of foreign national attendees has been provided to the IVC, and approved through IdMAX for both on-site and off-site meetings with foreign persons at least two weeks in advance per NAII 1600.4, sections 2.5 and 3.6.
☐	6	All U.S. participants have been provided a list of all foreign persons and their organizations at least two weeks in advance so they can also evaluate their export authorizations.
☐	7	All required export authorization(s) are evaluated against the list of foreign persons to determine what information can be provided to each individual or organization.
☐	8	Advance notification has been provided to foreign persons if they are not authorized to attend a particular session or an entire meeting; this is for planning purposes and to properly set expectations.
☐	9	All materials for presentations and discussions have been reviewed, approved, and appropriately marked for each of the following types of materials: ▪ Export-controlled materials (reviewed and authorized by the ECS)

		▪ STI materials (per the NPR 2200.2C; contact Center STI Manager for guidance) ▪ Non-STI materials (e.g., using NASA Form 1676; contact ECS for guidance)
☐	10	Someone has been designated to make a record of the meeting.
☐	11	*For meetings with foreign persons conducted via teleconference or video teleconference using platforms such as WebEx, ViTS, Skype, etc.* ☐ This meeting is not a teleconference or video teleconference. Go to Item 12. *Prior to the meeting, the host ensures that:* ☐ There is a trusted agent at each location who will call in and be responsible for identifying and vetting attendees against the requirement(s) and authorization(s). ☐ The name and phone number of each trusted agent has been received by the host. ☐ The trusted agents are provided with written instructions to prevent the unauthorized release of export-controlled information. ☐ Available technology is used to track the names and phone numbers of participants calling in to prevent rogue call-ins. ☐ An ECS representative has been invited to ensure compliance with export control requirements.
While conducting the meeting, the host should ensure that:		
☐	12	All attendees sign the roster (if meeting is held on-site) or conduct a roll call (if meeting is being held remotely) to verify that all present are authorized to attend.
☐	13	At the start of the meeting, participants have been reminded that foreign persons are in the meeting and that all participants should remain within the scope of their respective export authorization(s).
☐	14	Attendees who join after the meeting begins have been approved to attend and sign in. All foreign nationals who join after the meeting begins must be on the approved list and should be announced, as appropriate.
☐	15	Door monitors have been appointed whenever the meeting involves export-controlled information and the meeting size is beyond the capability of the host/sponsor to monitor participants entering and exiting the meeting. Monitors should control physical access as well as telephone access.

☐	16	Walk-on presentation materials are not presented or discussed unless they have been reviewed and approved (See #9).
☐	17	The designated person (or someone) is actually making a record of the meeting.
☐	18	Handouts containing export-controlled information are tightly controlled.
☐	19	Trusted agents generate attendee rosters for the meeting at their locations.
At the conclusion of the meeting, the host should ensure that:		
☐	20	Export-controlled materials (hardcopy or electronic) are not left unattended.
☐	21	Trusted agents forward the rosters to the host/sponsor after the meeting
☐	22	Meeting records are retained; records include: attendee roster, date, time, location, presentation materials, presentation packages, and meeting minutes. The records should list export/release authorizations (by reference if available, e.g. the license, exemption, exception, No Licensed Required (NLR), Technical Assistance Agreement (TAA), NASA Form (NF) 1676, or Export Record numbers).

2.7.2. *ATTENDING OFF-SITE MEETINGS HOSTED BY OR FOR FOREIGN PERSONS*

Many of the best practices for hosting meetings with foreign persons apply to attending off-site meetings hosted by or for foreign persons. Per NAII 1600.4, meetings held outside a NASA Center are considered off-site meetings when there is an exchange of NASA information or if NASA business is being conducted. Off-site meetings include teleconferences, video conferences, Web meetings, and any other remote meetings. When a meeting is held off-site, NASA assets (people, technology, information, etc.) are taken from the Center and shared with the other attendees.

The U.S. participant is responsible for ensuring that they know which foreign persons will be attending the meeting and they have obtained written approval(s) from the ECS for export-controlled information/materials that they intend to transfer at the meeting. The written approvals should identify the information/material and the authorized foreign persons and the materials should be marked with export authorization(s).

All meeting records of off-site meetings must be maintained in accordance with NRRS 1441.1 "NASA Records Retention Schedules."

Meeting records should include the date, time, location, list of foreign persons that attended, list of information/material presented and/or transferred by NASA participant(s), and written ECS approval(s) to hand-carry and/or export the information/material. A sample export authorization record log is shown in Appendix B-10. The sample provides a guide for information that the NASA host should collect during any meetings with foreign persons in attendance. Meeting records should be kept for virtual meetings as well as in-person meetings both on-site and off-site.

2.7.3. *ATTENDING VIRTUAL MEETINGS*

In addition to onsite meetings, various types of remote meeting systems, such as Microsoft Teams, are available to users at NASA Centers. Additional care is needed to ensure that all remote attendees are known and authorized to receive information presented. A U.S. based-system, preferably a NASA system, should be used for international teleconferences. The Center OCIO can provide guidance on the security of these online collaboration tools. If there is any concern that persons may be attending these online meetings who are not known or authorized to receive export-controlled technical data or technology, then the meeting discussions and presentation material should be limited to that which is in the public domain.

Microsoft Teams is NASA's primary online collaboration tool. The software is integrated with Microsoft Outlook through the Microsoft Office 365 suite. Teams meeting invitations are transmitted to participants in the same organization via Microsoft Outlook.

2.8. *CORRESPONDENCE TO DESIGNATED COUNTRIES*

Due to political sensitivities and concerns regarding potential technology transfer, NASA policy requires special handling of all official correspondence, including electronic messages, sent from NASA systems to designated areas, per NPR 1450.10D, "NASA Correspondence Management and Communications Standards and Style," Appendix E. Foreign requests for published information must be forwarded to the Headquarters' Office of Public Affairs. All other correspondence, including e-mail, requires the concurrence of the CEA or the HEA.

The NASA list of designated countries is a compilation of countries for which DOS, DOC, or other U.S. Departments restrict the release of U.S. information due to political sensitivities and potential technology transfer concerns. Countries on this list fall into one of the following four categories:

- No U.S. diplomatic relations
- Supporters of terrorism
- Under Sanction or Embargo by the U.S.
- Source of missile technology concerns

IMPORTANT: Just because a country is on the designated countries list, is not a sole reason to deny a request for correspondence.

The NASA list of designated countries is updated periodically and is accessible via the HQ Export Control Website.

Foreign national visitors to NASA from these countries require export control approval from the CEA. All NASA mail to these countries requires the concurrence of a NASA CEA, in accordance with NPR 1450.10D, NASA Correspondence Management and Communications Standards and Style. Some of these countries require the HEA's approval.

NPR 1450.10D Appendix E applies to all forms of correspondence with designated countries, including correspondence:

- Related to a program/project

- For the purpose of coordinating a conference
- For peer reviews of technical papers

If the correspondence consists of nothing more than a denial of a request for information, concurrence by either OIIR or the CEA is not required (see NPR 1450.10D).

If correspondence with a designated country is necessary, the Requestor should submit the following information to the HEA/CEA (email is acceptable):

- Name and affiliation of the person receiving the information
- Description of the intended correspondence
- Timeframe for which it will occur

On receipt of request, the HEA/CEA reviews the requested information and consults with the desk officer, if appropriate. At the conclusion of the review, HEA/CEA sends an email response to the Requestor indicating the disposition of the request (e.g., needs corrections, requires more information, approve, or deny). The response serves as the official record and should be retained.

IMPORTANT: The Requestor may NOT send correspondence that is denied by the HEA/CEA, but may modify a rejected denied correspondence request, and re-submit it to HEA/CEA for approval.

If the Requestor needs a broader approval for specific projects, conferences, or activities for a specified period of time, the Requestor must explain and justify the need to the HEA/CEA and describe the extent of the information they are requesting to provide. For example, the HEA/CEA may provide broad approval for a series of correspondence that is part of a conference organization committee where the scope is limited to solely information in the public domain.

On a project or program basis, the CEA may delegate approval authority to the appropriate ECR to expedite the reviews.

2.9. *EXPORT CONTROL AND INTERNATIONAL TRAVEL*

Export control reviews are conducted prior to international travel to ensure that all NASA property (commodities, software, technical data, and/or technology) has the appropriate export authorizations and documentation to facilitate clearance through Customs. This will

help to prevent potential delay, detention, and arrest of NASA travelers and the confiscation of NASA items (see NPR 9710.1 Chapter 7, "Foreign Travel").

2.9.1. *TRAVEL PREPARATION AND COORDINATION*

Traveling internationally on behalf of NASA requires special preparation and coordination. The traveler should provide a list of all NASA-furnished items accompanying the traveler, both IT items (e.g., laptop, cell phones, and other mobile devices) and non-IT items (e.g., test kit, whiteboard, etc.) including items to be hand-carried, at least 30 business days prior to the travel departure date to ensure adequate time for review and approval of items and interagency coordination, as needed. Travelers must submit their travel request through the Concur Travel System to the Center Foreign Travel Coordinator (FTC) at least 30 days before departure in accordance with NPR 9710.1. Table 7 provides an overview of reviews, submission vehicles, and approvals/documentation required for NASA-furnished items accompanying the NASA employee/contractor on international travel and estimated time to process the requests.

Table 7: Required Approvals Prior to International Travel

Elements of international travel that require approval	Vehicle for Approval	Approved by	Time needed to process request
Travel Request for NASA individual	Concur Travel System	Foreign Travel Coordinator (FTC)	At least 30 days prior to travel
NASA-furnished non-IT items (e.g., test kit, whiteboard, etc.)	NF-892 (property pass)	Property Custodian	At least 30 days prior to travel
NASA-furnished items accompanying the traveler; commodities, software, technical data, and/or technology (e.g., laptops, cellphones, iPads, etc.)	NF-892 (property pass)	Property Custodian	At least 30 days prior to travel
	Center-specific OCIO approval of IT resources	OCIO	At least 30 days prior to travel
	Export authorization using Center-specific process*	**Center Export Control**	**At least 30 days prior to travel (more, if a license is required)**
Presentation Materials intended for release (e.g., PowerPoint slides, handouts, etc.)	**Approved and signed NASA Form (NF) 1676***	**Center Export Control**	**At least 30 days prior to travel**

***Export control approvals**

2.9.2. *HARDWARE ACCOMPANYING THE NASA TRAVELER*

Travelers are strongly advised to take loaner Information Technology (IT) equipment (NOT the traveler's primary work station) and only the software, technical data, and/or technology necessary to conduct the work required for the authorized official travel purpose. They must submit their loaner request per their Center-specific process.

NASA-furnished items require a property pass (NF-892) approved (signed) by the Property Custodian. The signed NF-892 property pass must accompany the traveler and a copy of the NF 892 is retained by the applicable property custodian until return of the equipment has been verified (NPR 4200.1 "Equipment Management," section 3.5.4.1.d).

The OCIO must also approve IT resources (laptop, software, cell phones, and other mobile devices, etc.) being taken on international travel; follow your Center-specific process for submission and approval (NID 2810.107).

Travelers are responsible for coordinating with their ECS to receive all necessary authorizations at least 30 days before departure. When a traveler takes Government equipment or technical data outside the U.S., they must have a written export authorization to do so. If the travel is conducted prior to receiving a required export authorization, the traveler can cause, and be held responsible for a violation of export control laws, which could result in administrative, civil, and/or criminal penalties.

IMPORTANT: The traveler needs to provide a list of all items to ECS to review at least 30 days prior to the travel departure date.

The traveler needs to provide a list of all items (commodities, software, technology, and technical data, including laptops, cell phones, and tablets) to ECS to review **at least 30 days prior to the travel departure date**. This typically ensures that there is adequate time to provide the necessary export authorizations and documentation for clearing customs with any NASA items hand-carried or in checked baggage. 30 days or more **may be required** to process some requests. If a license is required, allow at least an additional 100 days.

2.9.3. *PRESENTATION MATERIALS*

All presentation materials should be reviewed by the ECS in accordance with NPR 9710.1 "General Travel Requirements". Important: The requestors must allow sufficient time for ECS to review and approve release of presentation materials. Longer and more complex material may take up to 30 days or more to review.

> **IMPORTANT**: The traveler must allow sufficient time for ECS to review and approve release of presentation materials. Longer and more complex material may take up to 30 days or more to review.

The traveler submits a NASA Form (NF) 1676 or the Center-specific process to ECS for review of presentation materials. Prior to travel, an approved NF-1676 must be approved/signed for presentation materials accompanying the traveler. Any STI to be released requires an approving Official's signature. STRIVES may be used to submit STI for review prior to release.

If by chance, you are traveling with other U.S. government property and/or foreign property (e.g., a European Space Agency (ESA) instrument aboard SOFIA), you must have the appropriate export authorizations for those as well. NASA does not provide export authorizations for personal items.

2.9.4. *COUNTERINTELLIGENCE AND COUNTERTERRORISM (CI/CT)*

In addition to the previously addressed required approvals, a CI/CT security briefing/debriefing may be necessary to protect NASA personnel, information, and resources from espionage and other unauthorized intelligence collection activities. NPR 1660.1C "NASA Counterintelligence and Counterterrorism" requires security briefings before and/or after travel to certain countries or destinations. The Center's CI Office will schedule and facilitate these briefings. The purpose of the CI briefings is to ensure the protection of NASA personnel, information, and technology.

2.10. *EXPORT CONTROL PROCESS FOR SPACE ACT AGREEMENTS (SAA)*

The National Aeronautics and Space Act grants NASA the authority to enter into SAAs. NASA enters into SAAs with a wide range of entities, both domestic and international, to advance its mission. The Agency's process for writing and approving Agreements is set forth in NAII 1050-1C "Space Act Agreements Guide" (SAAG).

"Agreements establish a set of legally enforceable promises between NASA and the Partner to the SAA requiring a commitment of NASA resources (including goods, services, facilities, or

equipment) to accomplish stated objectives." The Space Act authorizes NASA to conclude agreements. Examples of NASA agreements are contracts, leases, grants, cooperative agreements, or other transactions[31].

An agreement is not:

- Informal statements between individuals or entities (e.g., universities, companies, etc.). There must be a formal requirement (e.g., a NASA contract, grant, or agreement, etc.)
- Responses to unsolicited requests

Agreements can take months or years to develop. Until an appropriate agreement is signed, NASA may not commit resources, share sensitive information or technology, exchange equipment, or share use of facilities. SAAs should be concluded and brought into force well in advance of the commencement of significant joint activities.

SAAs outline the conditions and restrictions for collaboration on a project and contain a clause that addresses export compliance. They often serve as the requirement to export although it should be noted that an SAA is NOT an export authorization. Export regulations apply to all parties to an Agreement including their Related Entities.

NOTE: Until an appropriate agreement is signed, NASA may not commit resources, share sensitive information or technology, exchange equipment, or share use of facilities. SAAs should be concluded and brought into force well in advance of the commencement of significant joint activities.

2.10.1. *DOMESTIC AGREEMENTS*

Domestic SAAs are with U.S. partners. Examples of the types of partners to a domestic SAA include: individuals, companies, organizations, universities, institutions, and federal/state/local government agencies. A U.S. partner of an SAA who exports or transfers items or data outside the U.S or to foreign persons is responsible for complying with export regulations.

[31] NASA does not enter into or sign Technical Assistance Agreements (TAAs) under the ITAR. NASA contractors may find it necessary to apply for TAA licenses to meet their individual export control obligations in support of an SAA.

An SAA establishes responsibilities (requirements) that may result in an export. Exports and transfers may occur when a U.S. partner employs foreign persons to perform work under the SAA. The Center designated Agreement Managers are the main points of contact for questions associated with developing agreements and ensuring compliance with NAII 1050-1C.

2.10.2. *INTERNATIONAL AGREEMENTS (IA)*

OIIR serves as the Agreement Manager for all International SAAs and is responsible for the negotiation, execution, amendment, and termination of all International SAAs. A Center point of contact may be designated to execute many of the Agreement Manager tasks, as outlined in the SAAG (NAII 1050-1C).

IAs are agreements with foreign governments, foreign governmental entities, international organizations, foreign entities, or foreign persons. NASA also enters into International SAAs with foreign nongovernmental organizations, including universities, institutes and commercial entities, and occasionally with foreign persons. An International SAA "will always include a clause that discusses the transfer of goods and technical data and the rights and obligations of the parties."

IMPORTANT: Requestors of IAs should coordinate with their Center ECS early in the process, when IAs include exports of commodities, software, technical data, technology, defense services, and technical assistance to foreign parties.

International SAAs may involve transfers by NASA, or other U.S. parties, of commodities, technical data, technology, software, and/or providing a defense service or technical assistance to foreign parties. These transfers are subject to export control regulations, regardless of whether they occur in the U.S., overseas, or in space. Each party is obligated to transfer to the other party **only** those technical data and goods necessary to fulfill the transferring party's responsibilities under the International SAA. NASA civil servants and contractors participating in an international activity are responsible for securing and remaining within the scope of their export authorization(s).

If the SAA requires the "importation of goods into the U.S. or the territory of the International SAA Partner, the agreement should contain a general obligation to facilitate free customs clearance (e.g., waiver of applicable duties or taxes)." This can eliminate the need to pay expensive import taxes or "duties" saving the government(s) considerable costs.

Best Practices to Facilitate International Transfer

- Program Managers need to monitor the status of imports and exports to and from their foreign partners.
- Work with the OIIR Agreement Manager to ensure you have the latest information related to the International SAA.
- Keep the Center Export Administrator (CEA) informed well in advance of potential transfers so they can contact OIIR to develop the duty-free import certificate(s), if needed, and obtain the proper export and import authorizations.
- Work with the Center Export Administrator (CEA) to contact OIIR to develop the duty-free import certificate(s) early on.

2.11. *EXPORT CONTROL REVIEW OF INFORMATION PRIOR TO POSTING ON A PUBLIC WEBSITE*

The Center OCIO in consultation with the CEA, ensures that IT policies, standards, and procedures are compliant with NPD 2810.1E "NASA information Security Policy," NPR 2810.1A "Security of Information Technology," and NPR 2190.1.

Prior to posting any NASA technical data or technology to a public website, NASA employees/contractors must receive approval from ECS by completing the STRIVES process for STI and/or submitting the NASA Form 1676 for non-STI to your ECS. Allow at least 30 days for approval. The ECS reviews for export-controlled information and approves it for public release, or recommends redactions, revisions, and/or changes to ensure compliance with export control regulations. Website contributors should retain appropriate records of the approval per the Center-specific process.

To expedite the export control review, the Requestor should mark any data that is known to be or is potentially export-controlled; indicate which content is new and has not been previously released to the public; and indicate what is already publicly available and where to find it.

The Requestor can accomplish this by doing an open source search, providing a bibliography, attaching links to published information, and providing previously approved NF-1676s, if available.

2.12. *EXPORT CONTROL PROCESS FOR PROPERTY DISPOSAL*

Procedural guidance relating to the use and disposal of NASA-owned property is established in NPR 4300.1C "NASA Personal Property Disposal Procedural Requirements". It addresses the disposal management of NASA-owned excess, surplus, and obsolete exchange or sale property. The NPR applies to NASA Centers and the Government property held by NASA or contractors located on a NASA installation.

The Center Property Disposal Officer (PDO) is responsible for the disposition of excess, surplus property in compliance with U.S. Government property laws and regulations[32]. Property no longer needed by a NASA program or activity can be dispositioned in a variety of ways, including, but not limited to, recycling, internal re-use, transfer, donation, sale by the General Services Administration (GSA), and abandonment and/or destruction. Export control should take extra scrutiny to identify which items under no circumstances should be sold to the public.

Regardless of the disposition of the property, the NASA Property Disposal Office at each Center must contact the ECS to obtain the export classifications of the property to be disposed. The request may be for a single item or multiple items. The program/project requesting the disposal of the property provides the following property attributes to the PDO for correct classification of item(s) by ECS:

- Name of the item
- Manufacturer
- Part number
- Model number
- Original Acquisition Cost (OAC)
- How item was used, if available
- Where item has been, if available
- Export classifications, if available

BEST PRACTICE: Prior to requesting disposal of excess property, the program/project should provide the necessary export classifications and recommended disposition of the property to the PDO (specifically if it can or cannot be sold to the public).

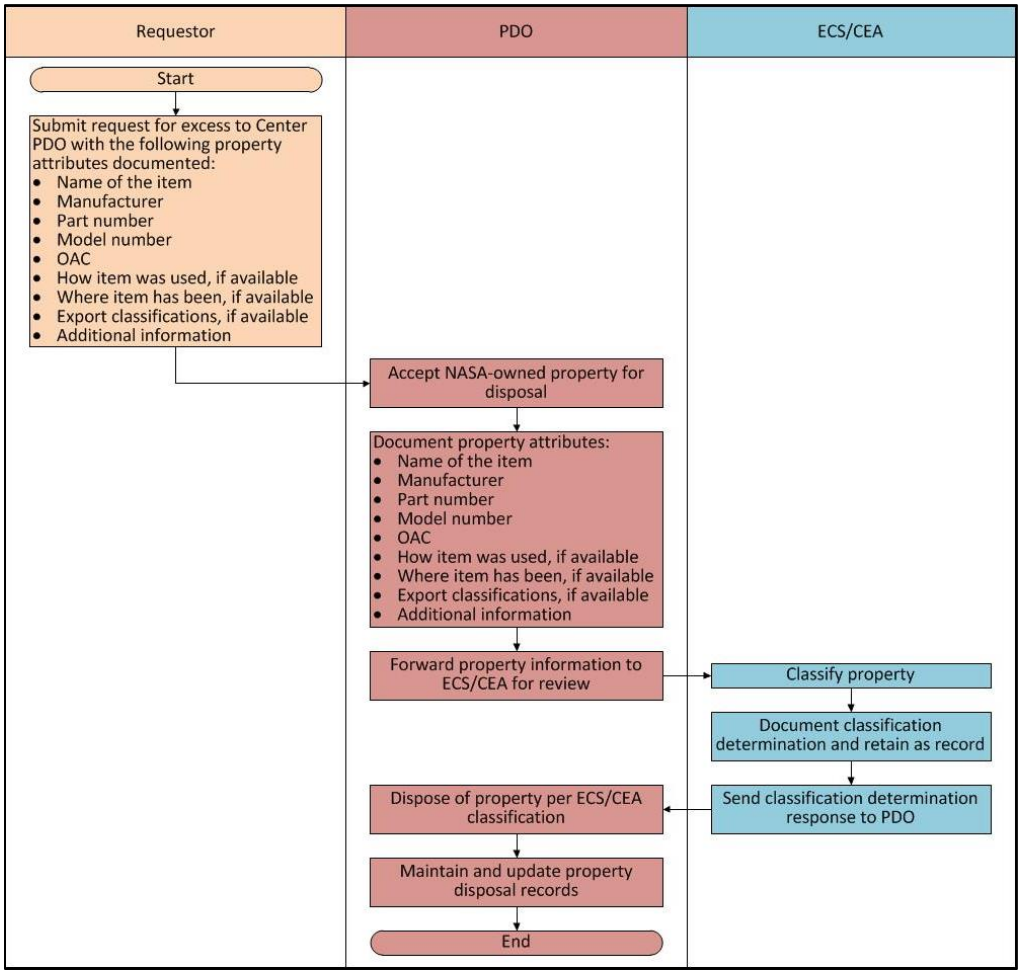
[32] The PDO, consistent with NPR 4300.1C, only disposes ITAR-controlled property to vetted U.S. citizens for public sales.

- Additional information

CEA review and instructions for disposition to PDO should be maintained by the ECS as the export control record. The original property disposal records are maintained by the Property Disposal Office. For individuals accessing NASA facilities to receive dispositioned property, refer to NPR 1600.1A.

See Figure 16: Process for Property Disposal.

Figure 16: Process for Property Disposal



2.13. *NASA REVIEW OF LICENSE AND AGREEMENT APPLICATIONS*

DOS and DOC send NASA-related license applications to HQ ECS for review. These applications primarily come from industry, but can come from other government agencies.

HQ ECS reviews these license applications and requests that the relevant Headquarters Mission Directorates and Centers review the license applications as well. NASA HQ Mission Directorates review the applications, including their terms and conditions, to determine whether they meet or support the Agency's mission objectives and policies, and replies to HQ ECS within five business days.

The Center ECS coordinates the reviews with the responsible program/project or other Center offices.

All reviewers evaluate the license applications from their perspective to determine whether they appear appropriate and relative to the NASA mission(s) described, to include the timing, terms and conditions, and parties involved. Within 5 business days, the reviewers should provide their responses to ECS who sends the responses and/or questions to HQ ECS.

HQ ECS work with DOS, DOC, and/or the applicant to resolve questions; HQ recommends Approval, Approval with Provisos, Return Without Action (RWA), Deny, or No NASA Interest. If the NASA response is Approve with Provisos, then HQ ECS recommends provisos for DOS or DOC consideration. If required, HQ ECS works with the Interagency to expedite the approval process.

Examples:

- If a license application request does not fully address the conditions stipulated by NASA contracts/International Agreements, etc. (such as: commodity, software, technical data, and/or defense services, locations, parties, or timelines) NASA can provide inputs to DOS, including provisos, to meet NASA's requirements.

- If a company requests a license that involves sharing NASA technical data as a defense service to satisfy a foreign partner's hardware/software integration needs, NASA may recommend that the license application be approved with certain provisos limiting the scope of the technical data to be provided.

2.14.*NASA REVIEW OF CFIUS CASES*

CFIUS was created in 1988 and has twice undergone significant revisions, once in 2007 and again in 2018. The authority of the President to suspend or prohibit certain transactions was initially provided by the addition of section 721 to the Defense Production Act of 1950 by a 1988 amendment commonly known as the Exon-Florio amendment. Section 721 was substantially revised by the Foreign Investment and National Security Act of 2007 (FINSA), which became effective October 24, 2007, and the Foreign Investment Risk Review Modernization Act of 2018 (FIRRMA), which became effective August 13, 2018. Section 721 of the Defense Production Act of 1950, as amended, is codified at 50 U.S.C. 4565. The CFIUS is chaired by the Secretary of the Treasury and includes representatives from 16 U.S. departments and agencies, including the Departments of Defense, State, Commerce, and Homeland Security.

NASA is not a member of this group, but it does review cases that have been referred by the Department of Treasury that may affect NASA equities. Typically, the cases that NASA is asked to review involve companies that conduct business with NASA in some manner. Consequently, CFIUS cases are staffed out to organizations within NASA which the proposed transaction may potentially affect for an assessment of any NASA-related adverse national security concerns. The NASA HEA is tasked with coordinating the case review, responding to Treasury, and providing a final agency clearance for each case. The HEA may opt to refer certain cases to other NASA organizations such as the NASA Headquarters Mission Directorates, Office of Procurement, and Office of the General Counsel. In addition, the HEA may staff certain cases to NASA Centers through the CEAs to ensure programmatic subject matter experts are consulted. Because CFIUS case review deadlines are established by statute, internal NASA referrals require prompt attention and non-responses will be deemed to be “no objections.”

Important: All CFIUS case documents should be treated as Sensitive But Unclassified (SBU) as they are exempted from FOIA disclosure and the unauthorized publication of information is subject to criminal penalties.

CFIUS cases are staffed to the appropriate NASA organizations for review as directed by the HEA. The case documents are considered SBU so they must be sent via encrypted email or hand carried with an SBU cover sheet to the designated organization points of contact. If possible, NASA organizations are provided with at least five business days to review and provide their response to the HEA.

The 1988 Exon-Florio amendment to the Defense Production Act (50 USC 2150 (f)) identifies eleven specific factors that the CFIUS and reviewing agencies (such as NASA) must

consider when reviewing CFIUS cases. When reviewing each case, NASA officers should evaluate whether any of these eleven factors apply:

(1) Domestic production needed for projected national defense requirements,

(2) The capability and capacity of domestic industries to meet national defense requirements, including the availability of human resources, products, technology, materials, and other supplies and services,

(3) The control of domestic industries and commercial activity by foreign citizens as it affects the capability and capacity of the United States to meet the requirements of national security,

(4) The potential effects of the proposed or pending transaction on sales of military goods, equipment, or technology to any country—

(A) Identified by the Secretary of State—

(i) as a country that supports terrorism;

(ii) as a country of concern regarding missile proliferation; or

(iii) as a country of concern regarding the proliferation of chemical and biological weapons;

(B) Identified by the Secretary of Defense as posing a potential regional military threat to the interests of the United States; or

(C) listed under section 309(c) of the Nuclear Non-Proliferation Act of 1978 [42 U.S.C. 2139a (c)] on the "Nuclear Non-Proliferation-Special Country List" (15 C.F.R. Part 778, Supplement No. 4) or any successor list;

(5) The potential effects of the proposed or pending transaction on United States international technological leadership in areas affecting United States national security;

(6) The potential national security-related effects on United States critical infrastructure, including major energy assets;

(7) The potential national security-related effects on United States critical technologies;

(8) Whether the covered transaction is a foreign government-controlled transaction, as determined under subsection (b)(1)(B);

(9) As appropriate, and particularly with respect to transactions requiring an investigation under subsection (b)(1)(B), a review of the current assessment of—

(A) The adherence of the subject country to nonproliferation control regimes, including treaties and multilateral supply guidelines, which shall draw on, but not be limited to, the annual report on "Adherence to and Compliance with Arms Control, Nonproliferation and Disarmament Agreements and Commitments" required by section 403 of the Arms Control and Disarmament Act;

(B) The relationship of such country with the United States, specifically on its record on cooperating in counter-terrorism efforts, which shall draw on, but not be limited to, the report of the President to Congress under section 7120 of the Intelligence Reform and Terrorism Prevention Act of 2004; and

(C) The potential for transshipment or diversion of technologies with military applications, including an analysis of national export control laws and regulations;

(10) The long-term projection of United States requirements for sources of energy and other critical resources and material; and

(11) Such other factors as the President or the Committee may determine to be appropriate, generally or in connection with a specific review or investigation.

Among the national security concerns that have arisen in NASA-related CFIUS cases are industrial base concerns (such as when the US company is a critical single source supplier to NASA or to a NASA prime contractor), concerns over potential transfers of export-controlled technical data, counterintelligence or cybersecurity concerns, and concerns that a proposed transaction may negatively affect a NASA program or center operations. Generally, any NASA programmatic or Center objection to the transaction should be identified, consolidated and submitted to the HEA for review.

CHAPTER 3: EXPORT CONTROL PROCESSES FOR NASA EXPORT CONTROL STAFF

The administration of the NASA ECP is conducted in partnership between Agency and Center ECS. The processes described in this chapter are intended for the ECS who manage the day-to-day operations both at HQ and across all Centers. Many of NASA's missions are managed across multiple Centers. The HEA has the final decision-making authority in the event there are multiple interpretations of any of the ECP processes described in this manual or if there are disagreements across Centers regarding export control matters. NASA uses the processes described in this chapter to ensure compliance with export control regulations and NASA's internal policies.

Chapter 3 is intended for ECS who are practitioners in export control. This includes Export Control Representatives (ECRs) that have been trained by the HEA/CEA/ACEA and may have delegated authority to make classification or authorization determinations. The ECR positions are considered an extension of the ECS. The administration of NASA export control policies as defined in this chapter requires competence regarding U.S. Export Control regulations.

IMPORTANT: ECS must ensure the latest version of the regulations is being used to make the export control assessment.

Under Export Control Reform, many items that were previously under ITAR jurisdiction have been or are being transferred to EAR jurisdiction. ECS must ensure the latest versions of the regulations are being used to make the export control assessment.

3.1. *EXPORT CONTROL SYSTEM DATABASE (ECSD)*[33]

In order to manage the day-to-day operations of the ECP, ECILD utilizes and maintains an internal export control database to track all major export and import actions and decisions generated at the Agency level. The system allows the Agency to manage the ECP consistently and efficiently. The database tracks many ECP activities including: submissions of authorization requests to other U.S. Government departments and agencies, license exemptions and exceptions approved by the HEA, export cases staffed to NASA for review by export regulatory organizations, ECILD export control decisions regarding release of NASA STI and other documents, all decisions on foreign national visits made by the HEA, and export control

[33] Centers do not yet have access to this system outside of Headquarters.

approval decisions regarding foreign travel made by NASA HQ employees. The Centers provide input into the ECSD with respect to actions taken to review various export control documents, such as STI, licenses, exemptions, exceptions, voluntary disclosures, and other export/import transactions.

3.2. *REVIEWING STI FOR EXPORT-CONTROLLED MATERIAL*

As described in Section 2.4, all NASA STI and NASA-funded STI requires an export control review prior to release. ECS may use Checklist D to facilitate the export control review of the information or their Center-equivalent review process. As noted in the checklist, not all STI requests contain export-controlled information. If ECS determines that the information is subject to the ITAR or the EAR, ECS may deny the request. If the ECS is uncertain, they must consult the CEA.

The CEA may authorize the publication or release of that information consistent with 22 CFR §125.4(b)(13) or 15 CFR §734.3(b). A request to publicly release STI that is controlled for export compliance should include a justification to decontrol that material. It is recommended that the rationale be attached to the NF-1676. An example of documenting rationale is included in Appendix B-5 as a best practice. If the CEA is unsure about the assessment, the issue may be elevated to ECILD for further review.

Checklist D: Guidance for Export Control Review for STI Release		
Is the information in a publicly available document that was appropriately released such as NASA directives, NASA technical engineering, or safety standards?	☐Yes	☐ No
Is the information high-level program schedules, budget information, or organizational information?	☐ Yes	☐ No
Is the information presently in the public domain?[34]	☐ Yes	☐ No
Is the information considered general scientific, mathematical, or engineering principles commonly taught in schools, colleges, and universities?	☐ Yes	☐ No
Is the information considered basic marketing information on function or purpose or general system descriptions?	☐ Yes	☐ No
If you answered "Yes" to any of the above questions, the information does not include export-controlled content. If you answered "No" to all questions, proceed filling out this Checklist.		
Will the information be released to a limited audience via a NASA International Agreement?	☐ Yes	☐ No
Does the information you're reviewing have dissemination restrictions (i.e. For NASA Internal Use Only)?	☐ Yes	☐ No
Does the information concern a "defense article" on the USML or on the MTCR Annex? (See Appendix B-6 for defense articles frequently used by NASA.) **If "Yes", does the document contain technical data related to the defense article?**	☐ Yes ☐ Yes	☐ No ☐ No
Does the information concern an item on the CCL? (See Table 2.) **If "Yes" does the document contain technology related to the commodity?**	☒ Yes	☐ No
If you answered "Yes" to any of the above questions, export-controlled information is present in the material and cannot be fully released.		

[34] Best practice: ECS may document where that information is published or list the previously approved NF-1676 Number.

3.3. *PROCESS FOR DETERMINING AND OBTAINING AN APPROPRIATE EXPORT CONTROL AUTHORIZATION*

This section identifies the steps required to determine and obtain an appropriate export authorization for release, export, or import of controlled items. The process begins with a NASA tool that facilitates item classification determination by first determining whether the item to be transferred is or is not subject to trade control laws. If it is export-controlled, a self-jurisdiction and classification determination is needed and can be determined by working through the questions and linked references in the NASA-developed worksheet addressed in Section 3.3.2 "Self-Jurisdiction and Classification Determinations." When a classification cannot be determined with certainty using the self-jurisdiction classification worksheet, a DOS Commodity Jurisdiction (CJ) request should be submitted by the ECILD as the next step. This could be followed by a submission to DOC for a Commodity Classification Automated Tracking System (CCATS) determination, if the CJ submission results in a determination of EAR jurisdiction, without a specific item classification being provided. Once the item classification is confirmed then the proper export authorization for export can be determined using the appropriate NASA Authorization Determination Checklist based on the jurisdiction of the item.

3.3.1. *EXPORT CONTROL REFORM*

It is important to review recent changes that are result of U.S. export control reforms that have particular impact for NASA. The purpose of this section is to familiarize you with the key regulatory framework revisions established by recent Fiscal Year 2013 Export Control Reform laws, including the revised USML, the revised CCL, and the "Order of Review" that describes how to use the lists. You will need a proper understanding of the overarching framework and the two control lists before proceeding to making jurisdiction and classification determinations or determining appropriate authorization use. U.S. export control regulatory changes can have significant impacts on NASA missions. Accordingly, it is important to be cognizant of fundamental export control framework revisions that have taken place and review Federal Register updates to keep abreast of export control laws and regulatory requirements as they change in the future.

3.3.1.1. *SATELLITE EXPORT CONTROL REFORM*

The National Defense Authorization Act for Fiscal Year 2013 authorized the removal of satellites and related items from the USML. As a result, the Department of State revised the ITAR and USML Category XV (Spacecraft and Related Articles) in rules that became effective in

Note: Portions of this section are sourced from "Introduction to U.S. Export Controls for the Commercial Space Industry" 2nd Edition – November 2017

November 2014 [79 FR 27180 (May 13, 2014) and 79 FR 66608 (Nov 10, 2014)]. The Commerce Department made parallel revisions to the EAR and CCL [79 FR 27417 and 67055 (May 13, 2014)]. The Category XV revision was one element of a broader Export Control Reform initiative begun in 2009 to place "higher walls" around a smaller set of "crown jewels" and unleash U.S. exports of products and services outside the walls. The government now focuses its oversight on the most critical national security priorities while enabling U.S. businesses to improve their competitiveness in key defense and technology sectors.

The Category XV update represented a sea change for the space industry, ending a 15-year period during which nearly all U.S. satellites and components were controlled as defense articles under ITAR. Prior to satellite export control reform, Category XV was a short list of very broad controls with little or no performance criteria to distinguish capabilities. This meant that anything from a complete space system to every nut, bolt, and screw used on that system was ITAR controlled. Today, both the USML and the CCL provide greater clarity on what is controlled, removing many items from stricter ITAR controls and making it easier for you to understand and comply with export regulations.

The USML now functions as a "positive control list" describing the few items and services remaining under ITAR, with the rest falling to EAR. Satellite export control reform reversed the ITAR "see through rule" and rationalized most controls based on technical criteria. Prior to 2014, if a satellite contained any part or component controlled under the ITAR, the entire satellite was subject to the ITAR. Today, satellites subject to the EAR generally remain under the EAR, even if they contain ITAR-controlled components.

3.3.1.2. *MAJOR PROCESS CHANGES UNDER EXPORT CONTROL REFORM*

The revised export control regulations now allow companies to export and re-export items and components to designated foreign allies without any licensing for the vast majority of their export activities. Most items on the CCL are eligible for several license exceptions, including a **Strategic Trade Authorization (STA)** that allows the unlicensed export, re-export, and in-country transfer of products to 36 U.S. allies. Eight other countries are eligible to receive certain items under STA, provided all terms of the license exceptions are met. Complete information about STA exceptions can be found in 15 CFR § 740.20.

With USML Category XV now serving as a positive control list, the former practice of requesting a Commodity Jurisdiction (CJ) determination (of whether a space-related item is covered by ITAR or EAR) is now less necessary. The Departments of State and Commerce

Note: Portions of this section are sourced from "Introduction to U.S. Export Controls for the Commercial Space Industry" 2nd Edition – November 2017

continue to conduct regular reviews of USML Category XV in consultation with industry to identify additional items that should be moved to EAR jurisdiction.

Satellite export control reform has created a less restrictive environment for foreign nationals working on U.S. space projects. Previously, foreign nationals required an ITAR license or agreement to work on any element of a satellite that contained ITAR controlled parts. Today, an organization can maintain appropriate controls on ITAR-controlled parts while allowing foreign nationals to work on the rest of the spacecraft, if it is controlled by the EAR. If the entire satellite is subject to the EAR, foreign national cooperation is even easier, especially if the foreign national is from an STA eligible country.

3.3.1.3. *POSITIVE CONTROLS*

Under satellite export control reform, the USML and CCL function with "positive" controls. This means the lists contain paragraphs of "control text" providing specific descriptions of the items and services they control. An item or service that matches the control text of a given paragraph is considered "captured" by that paragraph and by the list in which the paragraph appears.

Conversely, an item that does not meet all of the specified criteria in a paragraph of control text is not captured by that paragraph. Positive control text generally does not state what it doesn't capture. The USML does include notes clarifying what isn't captured by certain paragraphs, but the notes are not considered control text.

As an example, USML Category XV(a)(2) describes spacecraft that "autonomously detect and track moving ground, airborne, missile, or space objects other than celestial bodies, in real-time using imaging, infrared, radar, or laser systems." A commercial satellite that tracks ships via their Automated Information System (AIS) transmissions, but does not use imaging, infrared, radar, or laser systems, would not be captured by this paragraph.

3.3.1.4. *THE ORDER OF REVIEW: FIRST ITAR, THEN EAR*

The relationship between the USML and the CCL is established by the "Order of Review," a step-by-step process used to determine which export regulations apply to an item or service. The Order of Review starts with the most sensitive technologies, which are subject to the strictest export controls, and proceeds through progressively lower levels of sensitivity and control. The USML includes this guidance on the Order of Review: "In order to classify an item on the USML, begin with a review of the general characteristics of the item. This should guide

Note: Portions of this section are sourced from "Introduction to U.S. Export Controls for the Commercial Space Industry" 2nd Edition – November 2017

you to the appropriate category, whereupon you should attempt to match the particular characteristics and functions of the article to a specific entry within that category…. articles not controlled on the USML may be subject to another U.S. government regulatory agency" (See 22 CFR §121.1(b)). For space systems, USML Category XV provides further guidance on the Order of Review; Paragraphs XV(a), XV(b), and XV(e) end with notes stating that any spacecraft, ground control system, or spacecraft part not described by the USML automatically falls to EAR control. The EAR includes an appendix providing step-by-step instructions for following the Order of Review within the CCL (See 15 CFR § 774, Supp. No. 4), which was used to develop the worksheet that NASA uses to document item jurisdiction and classification determinations.

Figure 17: Order of Review

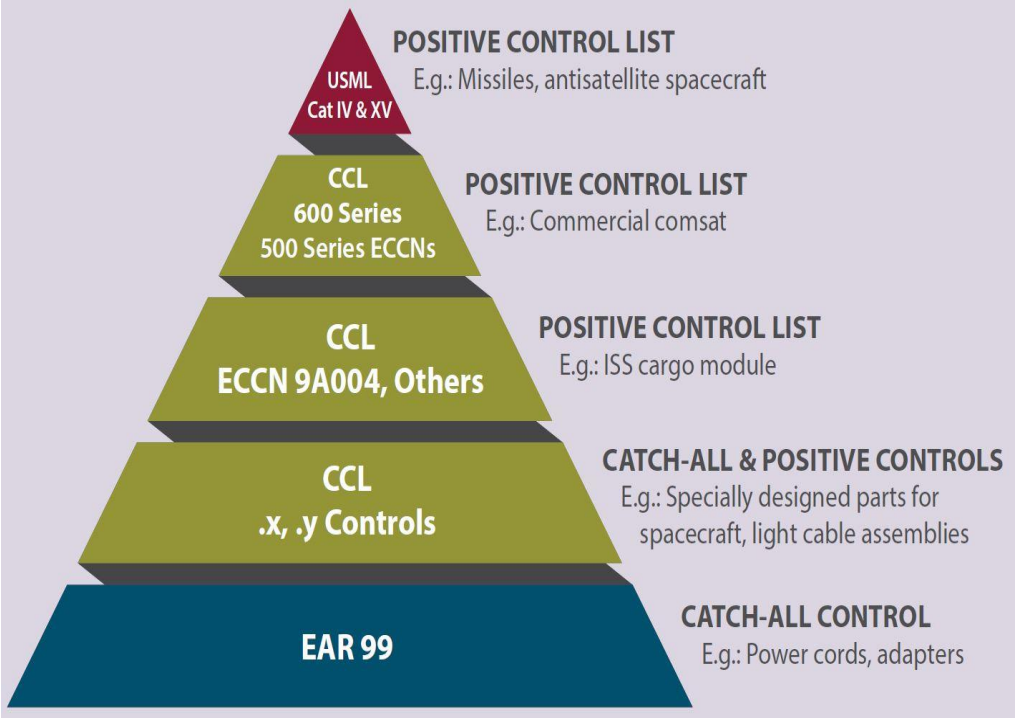


Figure 17 shows the overall concept behind the Order of Review. At the top is the USML, which lists the most critical space technologies. Below that is the CCL, which captures other space technologies. At the bottom is a loosely controlled category known as "EAR99" that applies to the least sensitive exports. The pyramid shape is meant to convey that the USML lists only a few space related items and services, while the CCL controls the majority of them, and many others are simply EAR99.

Note: Portions of this section are sourced from "Introduction to U.S. Export Controls for the Commercial Space Industry" 2nd Edition – November 2017

Following the Order of Review means starting at the top of the pyramid and working your way down until an item or service is captured. If an item or service is not fully described in one tier of control, then you proceed to the next tier until it is captured. Once you know which tier it falls under, then you know which controls apply to the export – e.g., ITAR licensing, EAR licensing, or license exceptions.

The overview above describes the Order of Review at the broadest level. Within each control list, there are finer levels of detail to the Order of Review. For each category (e.g., USML Category XV), a review must start at the first paragraph of control text and proceed stepwise through each enumerated entry until reaching the end of the paragraph. You must do this for each paragraph until reaching the end of the entire category. Individual paragraphs or entries may employ logical constructs affecting the Order of Review, including catch-all controls, catch and release constructs, and carve-outs.

3.3.1.5. *CATCH-ALL CONTROLS*

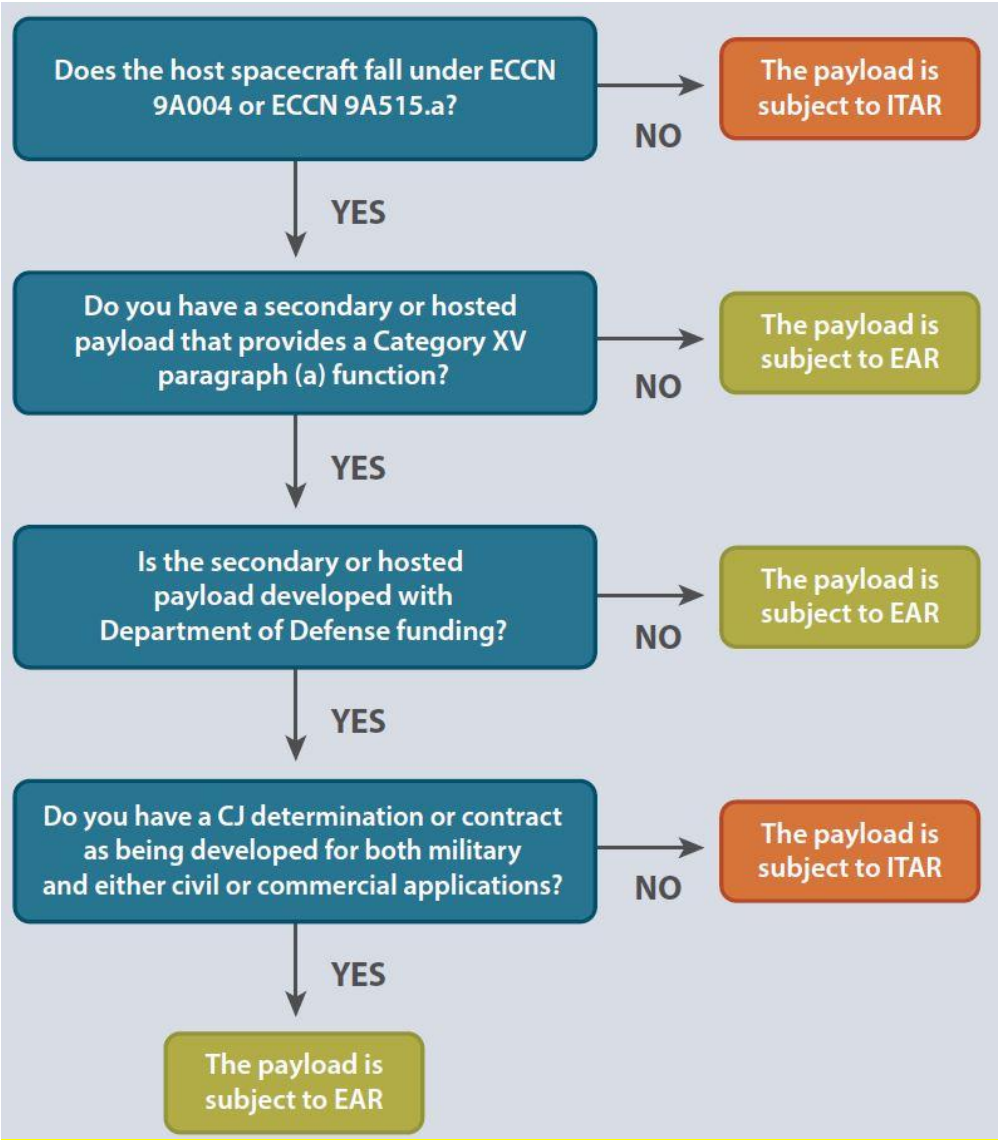
A catch-all control is one that does not capture specific items by name or functional capability, but by other means. An example would be USML Category XV(a)(13), which captures all classified spacecraft regardless of function. Another example is ECCN 9A515.x, which controls unspecified parts, components, accessories, or attachments that are "specially designed" for a spacecraft, but are not listed on the USML or ECCN 9A515 (See Section 3.3.1.7).

3.3.1.6. *CATCH AND RELEASE*

Some enumerated paragraphs on the USML and CCL use a "catch and release" construct that initially captures a range of items, but then applies a second criterion, which if met releases less sensitive items from the paragraph. Sometimes the release criteria appear in notes, so it is important to check all notes associated with the control text. See Figure 18 below for an example of how the catch and release construct applies to hosted payloads funded by the Department of Defense.

Note: Portions of this section are sourced from "Introduction to U.S. Export Controls for the Commercial Space Industry" 2nd Edition – November 2017

Figure 18: Hosted Payload Funded by Department of Defense Decision Tree



Once an item or service is released from a given paragraph, you must still evaluate it against the following paragraphs before you can be sure it is released from the entire category. In the case of the USML, you must evaluate the item or service against all relevant categories before you can be sure it is released from ITAR control.

Note: Portions of this section are sourced from "Introduction to U.S. Export Controls for the Commercial Space Industry" 2nd Edition – November 2017

3.3.1.7. *SPECIALLY DESIGNED*

The "specially designed" criteria appear throughout the USML and CCL to narrow the scope of some control paragraphs. The term is defined using the catch and release framework. An item may be caught by the specially designed criteria if (and only if) it:

(1) as a result of development, has properties peculiarly responsible for achieving or exceeding the performance levels, characteristics, or functions in the relevant ECCN or USML paragraph; or

(2) is a part, component, accessory, attachment, or software for use in or with a controlled commodity or defense article.

However, the item drops out of the specially designed definition if it meets any of the release criteria identifying it as a general commodity. For example, fasteners and wires are not "specially designed," even when built for USML satellites. Refer to 22 CFR § 120.41 and 15 CFR § 772.1 for the complete release criteria applicable to the USML and CCL.

The Departments of State and Commerce offer online tools to help you determine whether items are specially designed. These are available at:

www.pmddtc.state.gov/licensing/dt_SpeciallyDesigned.htm (ITAR) and www.bis.doc.gov/index.php/specially-designed-tool (EAR).

3.3.1.8. *SPACE-QUALIFIED*

Like "specially designed," the term "space-qualified" appears throughout the USML and CCL to narrow the scope of some control paragraphs. An item is space-qualified if it is designed, manufactured, or qualified through successful testing for operation at altitudes greater than 100 km above the surface of the Earth (See 22 CFR § 121.1, Note 3 to USML Category XV(e) and/or 15 CFR § 772.1). An item only needs to meet one of the three criteria to be considered space-qualified. "Designed" and "manufactured" are synonymous with "specially designed," so the catch and release construct described in Section 3.3.1.6, applies if using those criteria (See 22 CFR § 121.1, Note 4 to USML Category XV(e) and/or 15 CFR § 772.1, Note 2 to "Space-qualified" definition).

A determination that a specific item is space-qualified by virtue of testing alone does not mean that other items in the same production run or model series are space-qualified if not

Note: Portions of this section are sourced from "Introduction to U.S. Export Controls for the Commercial Space Industry" 2nd Edition – November 2017

individually tested. For example, the act of space-qualifying an individual chip designed for ground use does not make the chip's entire product line "space-qualified" and subject to tighter export controls (See 22 CFR § 121.1, Note 4 to USML Category XV(e) and/or 15 CFR § 772.1, Note 1 to "Space-qualified" definition).

3.3.1.9. *CARVE-OUTS*

USML Category XV contains several notes making explicit exceptions or "carve-outs" to the ITAR controls for space-related articles and technology, including but not limited to:

- International Space Station (ISS) - Technology exports specifically designed for use on the ISS are subject to the EAR jurisdiction and do not require a license under certain conditions (See 15 CFR § 774, Supp. No. 1, ECCN 9A004, (w)-(y)).

- James Webb Space Telescope (JWST) – Control of the JWST has been transferred to the jurisdiction of the EAR (ECCN 9A004), including primary and secondary payloads as well as the parts, components, accessories, or attachments that are specially designed for use in or with the telescope (15 CFR § 774, Supp. No. 1, ECCN 9A004, (u)-(v) and (y)).

- Telemetry Data – Telemetry data as defined in the ITAR is subject to the EAR and designated EAR99 (22 CFR § 121.1, Note 3 to USML Category XV(f) and 15 CFR § 774, Supp. No. 1, Note 2 to Category 9E).

- Additionally, processing of such data does not cause such data to be subject to the ITAR or EAR regulations.

- Spaceflight Passenger or Participant Experience – Activities and technology/technical data required for spaceflight passenger or participant experience (space tourism, research, education, etc.) are also not subject to the ITAR or EAR (15 CFR § 774, Supp. No. 1, Note 2 to ECCN 9E515(e)).

3.3.1.10. *DE MINIMIS RULE*

Integrating U.S. components into a foreign made spacecraft does not cause that spacecraft to fall under U.S. export controls if certain conditions are met. Under the de minimis rule, the foreign-made spacecraft is not subject to U.S. jurisdiction under the EAR as long as:

(1) the value of the controlled U.S. content comprises 25% or less of the total value of the item and is not destined for a country subject to U.S. arms embargo; or

Note: Portions of this section are sourced from "Introduction to U.S. Export Controls for the Commercial Space Industry" 2nd Edition – November 2017

(2) the value of the controlled U.S. content comprises 10% or less of the total value of the item and is destined for a country subject to a U.S. embargo (See 15 CFR § 740, Supplement No. 1, Country Group E).

Guidelines regarding the de minimis rules can be found at: www.bis.doc.gov/ forms-documents/pdfs/1382-de-minimis-guidance/file

BIS also provides a tool to assist you in determining whether a non-U.S.-made item located outside the United States is subject to the EAR and can be found at: https://www.bis.doc.gov/index.php/de-minimis-direct-product-rules-decision-tool

3.3.1.11. *SPECIAL CONSIDERATIONS FOR LAUNCH VEHICLES*

By U.S. statute, the launch of a launch vehicle, reentry vehicle, or payload is not considered an export, if the launch occurs from the United States (or U.S. territory). Therefore, a launch vehicle does not require an export license from the Department of State or Department of Commerce when built and launched in the United States (51 U.S.C. § 5091(f)). However, the operation of the commercial launch vehicle generally requires a launch license or permit from the Federal Aviation Administration (FAA) Office of Commercial Space Transportation (AST). FAA licensing requirements are in place to protect public health and safety, property, U.S. national security and foreign policy interests, and international obligations of the U.S.

The launch of a U.S. launch vehicle outside the United States requires ITAR authorization in compliance with MTCR controls. The applicable MTCR controls establish a presumption of denial for exports of U.S. launch vehicles, even to other launching states.

A U.S. organization wishing to apply for a launch vehicle export license must work with the State Department and the government of the recipient nation to establish a Technology Safeguards Agreement (TSA) covering the export.

3.3.1.12. *USML OVERVIEW*

The United States Munitions List (USML) is a list of articles, services, and related technical data designated as defense articles and defense services pursuant to the Arms Export Control Act. Your organization should obtain a working knowledge of export restrictions under the USML as they apply to items or services you may potentially send overseas. NASA programs, projects, and offices do this by contacting their CEA.

Note: Portions of this section are sourced from “Introduction to U.S. Export Controls for the Commercial Space Industry” 2nd Edition – November 2017

All items and services described on the USML require export authorization by the State Department. Items require licenses and services require approved agreements, such as a Technical Assistance Agreement (TAA).

3.3.1.12.1. *USML CATEGORIES*

The USML is divided into 21 categories of defense articles and services and those most relevant to NASA are identified in NAII 2190.1, Chapter 1, Table 1 as Categories IV, V, VII, IX, XI, XII, XIII, XV, and XIX.

3.3.1.12.2. *SPECIAL CONTROLS ON THE USML*

Note that paragraphs may be marked with a leading asterisk (*), or a trailing "(MT)". These markings will aid you in understanding that the specified items fall under special controls in addition to those established by the applicable ITAR/EAR control text.

Be sure to read the Category and its corresponding paragraphs as well as all of the technologies encompassed by the paragraph, including the SME and MTCR designators and the explanatory notes embedded in the paragraphs, to help with analyzing the classification of the technology you wish to export.

MARKING	WHAT DOES IT TELL ME
*	The paragraph lists Significant Military Equipment (SME) - special export controls are imposed
(MT)	The paragraph lists items that fall under the Missile Technology Control Regime (MTCR) Annex - special export controls are set in this agreement
(MT if…) or (MT for…)	Items described in the paragraph that also meet the criteria in the parentheses are subject to MTCR controls. Items that only meet the criteria outside the parentheses are subject to ITAR/EAR controls and not MTCR controls.
Note	Notes at end of paragraph give added explanation on intended coverage and term definitions

Note: Portions of this section are sourced from "Introduction to U.S. Export Controls for the Commercial Space Industry" 2nd Edition – November 2017

3.3.1.12.3. *INTEGRATION RULE AND HOSTED PAYLOADS*

Export Control Reform brought a paradigm shift for EAR controlled satellites containing ITAR controlled components. The inclusion of such components in a satellite no longer "flips" its jurisdiction from EAR to ITAR, as it did under the old "see-through rule." Under the new "integration rule," an ITAR controlled component moves to EAR control upon its (irreversible) integration into an EAR spacecraft.

This is documented in Note 1 to USML Category XV(a), which states, "Spacecraft described in ECCNs 9A004 and 9A515 remain subject to the EAR even if defense articles described on the USML are incorporated therein, except when such incorporation results in a spacecraft described in this paragraph."

Furthermore, adding an ITAR-controlled hosted payload to an EAR-controlled satellite also does not "flip" the satellite to ITAR. This is documented in Note 2 to USML Category XV(e), which states, "An ECCN 9A004 or ECCN 9A515.a spacecraft remains a spacecraft subject to the EAR even when incorporating a hosted payload performing a function described in paragraph (a) of this category."

Be sure to familiarize yourself with the definitions of primary, secondary, and hosted payloads in Chapter XV Note 1 to paragraph (e)(17) of the USML.

3.3.1.12.4. *LAUNCH RELATED SERVICES*

With regard to satellite launch-related changes to the USML, Categories IV and XV more precisely describe the defense services that still warrant control under the ITAR:

- Providing assistance (including training) in the integration of a satellite to a launch vehicle, including both planning and on-site support, regardless of (i) the jurisdiction (EAR or ITAR), ownership, or origin of the satellite or (ii) whether technical data is used; and,

- Providing assistance (including training) in the launch failure analysis of a launch vehicle, regardless of (i) the jurisdiction (EAR or ITAR), ownership, or origin of the launch vehicle or (ii) whether technical data is used.

Note: Portions of this section are sourced from "Introduction to U.S. Export Controls for the Commercial Space Industry" 2nd Edition – November 2017

3.3.1.13. *CCL OVERVIEW*

The Commerce Control List (CCL) is a list of commercial or dual use items (i.e., commodities, software, and technology) subject to the EAR licensing authority of the Bureau of Industry and Security (BIS).

The CCL divides items into ten broad **Categories**, with spacecraft and related items falling under Category 9 (Aerospace and Propulsion).

Each CCL category is subdivided into five **Product Groups**: (A) Equipment, Assemblies, and Components; (B) Test, Inspection and Production Equipment; (C) Materials; (D) Software; and (E) Technology.

An item that falls into a specific category and product group is given an **Export Control Classification Number (ECCN).** An ECCN categorizes items based on the nature of the product, i.e. type of commodity, software, or technology and its respective technical parameters.

3.3.1.13.1. *CCL CONTROLS*

Each ECCN begins with a table citing which licensing requirements and licensing policies (control policies) apply to which of the following paragraphs, along with the applicable recipient countries (See 15 CFR § 738). The control policies are shown using two-letter "Reason for Control" codes such as NS (national security), MT (missile technology), and RS (regional stability). 15 CFR § 742 explains each of the CCL control policies.

Reason for Controls	
AT - Anti-Terrorism	**NS** - National Security
CB - Chemical & Biological	**NP** - Nuclear Nonproliferation
CC - Crime Control	**RS** - Regional Stability
CW - Chemical Weapons	**SS** - Short Supply
EI - Encryption Items	**UN** - United Nations
FC - Firearms Convention	**SI** - Significant Items

Note: Portions of this section are sourced from "Introduction to U.S. Export Controls for the Commercial Space Industry" 2nd Edition – November 2017

MT - Missile Technology	**SL** - Surreptitious Listening

For example, ECCN 9A515 indicates that MT controls apply to microcircuits in paragraphs 9A515.d and 9A515.e(2) when usable in missiles for protecting missiles against nuclear effects. Among other things, this means that such microcircuits are ineligible for unlicensed export under License Exception STA.

3.3.1.13.2. *ECCN 600 Series*

As part of the ECR, BIS has added a "600 Series" to the CCL to control less sensitive military items, which no longer warrant control on the USML. The 600 series items are subject to more flexible licensing provisions than under the ITAR, but will be subject to somewhat stricter export and re-export licensing controls than most other items controlled under the EAR. Licenses from BIS will still be required to export and re-export most 600 series items worldwide (minus Canada), unless an EAR license exception is available.

3.3.1.13.3. *ECCN 500 Series*

Under the ECR initiative, dual use technologies removed from the USML ITAR Categories were added to the CCL under ECCNs as "Xx5xx" and referred to collectively as the 500 series. For example, dual use satellite technologies removed from USML Category XV were added to the CCL under ECCNs 9A515, 9B515, 9D515, and 9E515, which are collectively referred to as "9x515".

ECCN	Items Described
9A515	Spacecraft, ground control systems and training simulators, microelectronic circuits and discrete electronic components, pressure suits, remote sensing satellite components, and specially designed parts, components, accessories, and attachments
9B515	Related test, inspection, and production
9D515	Related software
9E515	Related technology

Note: Portions of this section are sourced from "Introduction to U.S. Export Controls for the Commercial Space Industry" 2nd Edition – November 2017

3.3.1.13.4. *ECCN 9A004*

In addition to 9x515, the CCL includes ECCN 9A004, which is applicable to the International Space Station (ISS) and all specially designed parts and components, as well as the James Webb Space Telescope (JWST) and most specially designed parts and components. Inclusion of these two large-scale, international projects in the CCL facilitates collaboration across international borders without jeopardizing national security. Paragraphs a. through f. of ECCN 9A004 apply to certain space launch vehicles, spacecraft, spacecraft buses, spacecraft payloads, on-board systems or equipment, and terrestrial equipment. They are listed here in order to harmonize ECCN 9A004 with the Wassenaar Dual-Use List, even though the controls for these items are found under ECCN 9A515.

3.3.1.13.5. *USE OF THE NEW PARAGRAPHS .X AND .Y IN THE CCL*

The revised EAR regulations introduced two new constructs known as paragraphs .x and. y to certain ECCNs. The .x paragraph is a catch-all control that captures specially designed items that were not previously enumerated in a given ECCN. For example, ECCN 9A515 lists various spacecraft and related commodities in paragraphs .a through .e, then 9A515.x captures all other specially designed parts, components, accessories, and attachments for spacecraft and related commodities that are not specifically listed.

The paragraph .y construct is an enumerated list that follows the .x catch-all control. A .y control covers items that would otherwise be within scope of a .x control but have been identified in an interagency-cleared commodity classification as warranting a higher level of control than EAR 99. For example, 9A515.y includes flight cable assemblies for spacecraft applications.

3.3.1.13.6. *HOSTED PAYLOADS SUBJECT TO EAR*

Spacecraft enumerated in categories 9A004 or 9A515.a remain subject to the EAR even when incorporating a hosted payload performing a function described in USML Category XV(a). All spacecraft incorporating primary or secondary payloads that perform a function described in Category XV(a) are controlled in Category XV(a) (See Notes 1 and 2 to paragraph (a) Category XV(a)).

Note: Portions of this section are sourced from “Introduction to U.S. Export Controls for the Commercial Space Industry” 2nd Edition – November 2017

3.3.1.13.7. *EAR99*

Items subject to the EAR, but not identified on the CCL are identified by the designator "EAR99." EAR99 items generally consist of low-technology consumer goods and do not require a license in many situations. However, if the plan is to export an EAR99 item to an embargoed country, to an end-user of concern, or in support of a prohibited end-use, normally a license must be obtained.

Note: Portions of this section are sourced from "Introduction to U.S. Export Controls for the Commercial Space Industry" 2nd Edition – November 2017

3.3.2. *SELF-JURISDICTION AND CLASSIFICATION DETERMINATIONS*

The NASA's Worksheet A: Export Classification Analysis Sheet is a tool that facilitates self-jurisdiction and export classification determinations. Focusing on export classifications, to make such assessments determinations, detailed technical information is gathered regarding the item's functionality, end uses, current foreign users, and information concerning the item's development. This worksheet provides a way to convey all of the needed information and presents targeted questions that help determine if an item is subject to export control and make export classification determinations, while providing documentation and rationale as a matter of record. A review of the purposes, benefits and construct of Worksheet A are provided in section 3.3.2.1. The NASA's Worksheet B: Information Jurisdiction Determination Sheet facilitates proper information export jurisdiction determination and differs from Worksheet A in that it does not require export classification expertise. This worksheet is only used to determine if information is export-controlled or not; it stops short of classification for export actions.

3.3.2.1. *PURPOSES*

Worksheet A serves multiple purposes:

- Provides standard structured analytical review process for item classification purposes using the "Order of Review" process.
- Documents the manner in which a classification was determined.
- Provides rationale for a classification determination based on the item description and function.
- Provides a written record of classification determinations.
- Provides basis for CEA/HEA to determine the need for a Commodity Jurisdiction (CJ) Request; or the need for a Commodity Classification Automated Tracking System (CCATS) submission, when EAR jurisdiction has been determined, but classification is uncertain.
- Provides supporting rationale for a classification determination in conjunction with any export/import authorization documentation request. Such documentation would include:
    - Checklist A: Export Authorization Requests, Exemption Authorization
    - Checklist G: ITAR License Application
    - Checklist H: EAR License Application
    - Checklist K: 126.4

- Checklist L: TMP 740.9
- Checklist M: GOV 740.11(b)
- Checklist N: GOV 740.11(c)
- Checklist O: NLR
- Checklist P: STA 740.20
- Checklist Z: CEA/ACEA Request/Approval to Use an ITAR Exemption/EAR Exception

3.3.2.2. *BENEFITS*

Several of the beneficial effects anticipated through use of this worksheet in the years to come are indicated below:

- Can satisfy regulatory requirements for recordkeeping.
- Facilitates subsequent review and accuracy verification of previously performed classification determinations. This is important since regulations change frequently and records are auditable for at least five years. These records can preclude the need for voluntary disclosures (a time-consuming ordeal).

(NOTE: Assuming the classification and authorization was correct at the time of shipment; if the classification legitimately changes, a different authorization may be needed to ship the same item to the same location/user at a later time.)

- Over time, this documentation can be used to verify ECS staff and ECR level of proficiency at item classification.

3.3.2.3. *CONSTRUCT*

3.3.2.3.1. *THERE ARE FOUR PARTS TO WORKSHEET A:*

- Part A provides information about the item that is to be classified (e.g. item name, detailed description, and manufacturer).
- Part B addresses information which could be considered technical data, technology or software, but not hardware commodities. This part of the worksheet provides an assessment of whether the information is controlled or not controlled [making it releasable to the public domain]. If the information is determined to be controlled, classification is also addressed in this part. The flow for the information classification assessment process in Part B of Worksheet A can be reviewed in Figure 19 below.

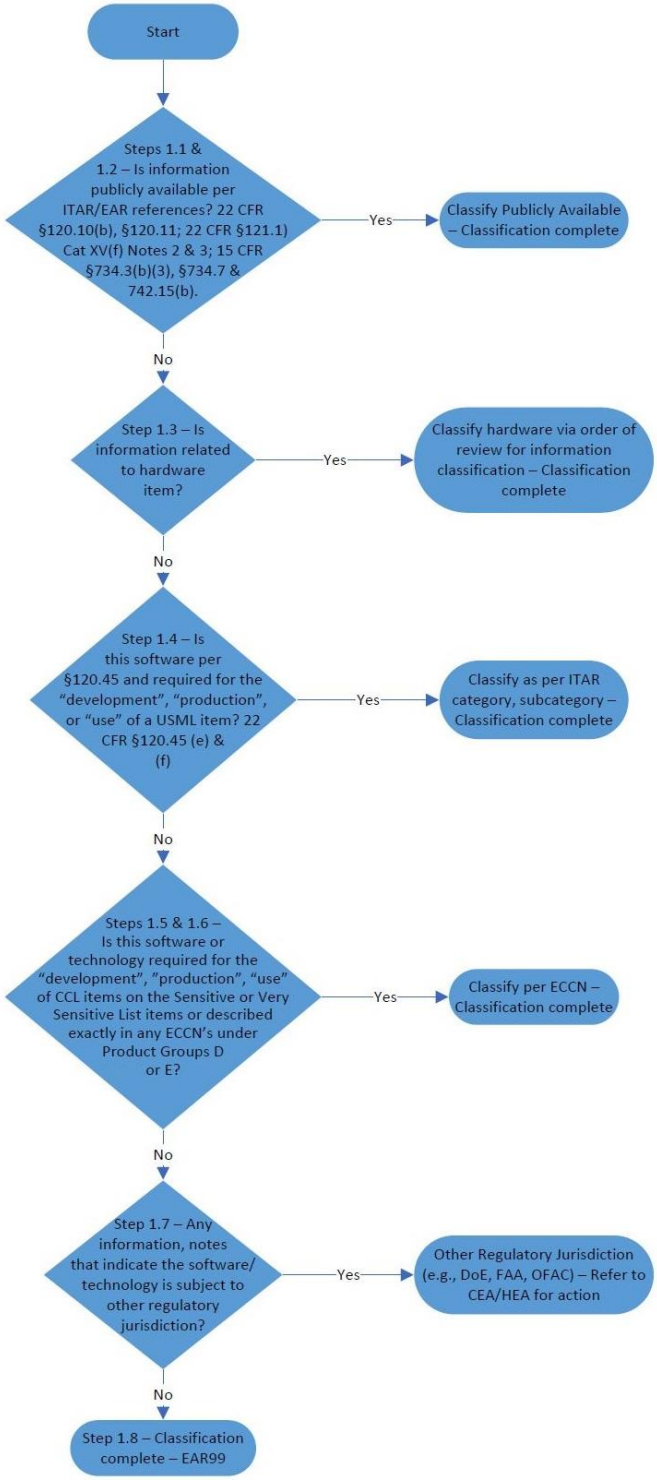
- Part C addresses hardware, technical data, technology, and software. This part of the worksheet provides a series of questions based on the "Order of Review" process, reference 22 CFR 121.1(b) and 15 CFR Supplement No. 4 to Part 774. Part C consists of two sections to determine if the item is subject to the ITAR or EAR, based on the item's description and function. This portion of the worksheet also provides an audit trail to show how the user arrived at their classification determination using the "Order of Review" process.
- There are fifteen (15) possible locations in Parts A through C of this worksheet where an item classification determination can be completed and the user gets referred to Part D to finalize the worksheet. Those worksheet locations are listed below:
    1) Part A: Block 3 – Manufacturer provided classification
    2) Part B: Step 1.1 – Uncontrolled information or that authorized for public release [ITAR-related]
    3) Part B: Step 1.2 – Uncontrolled information or that authorized for public release [EAR-related]
    4) Part B: Step 1.4 – Software/firmware as defined by the ITAR
    5) Part B: Step 1.5 – Software/Technology identified in Sensitive/Very Sensitive Lists [EAR-Related]
    6) Part B: Step 1.6 – Software/Technology identified in CCL Category/Product Groups [EAR-Related]
    7) Part B: Step 1.8 – Items subject to the EAR, but not described in any CCL Category/Product Groups [EAR-Related]
    8) Part C: Step 1.2 – USML enumerated items
    9) Part C: Step 1.5 – "Specially Designed" USML-controlled items
    10) Part C: Step 2.3 – 9x515 or 600 series CCL enumerated items
    11) Part C: Step 2.6 – "Specially Designed" 9x515 or 600 series CCL-controlled items
    12) Part C: Step 2.7 – 9A004 or other ECCN CCL enumerated items
    13) Part C: Step 2.8 – "Specially Designed" 9A004 or other ECCN CCL-controlled items
    14) Part C: Step 2.9 – EAR99 items
    15) Part C: Step 2.10 – Not subject to ITAR/EAR (jurisdiction uncertainty)
- Part D reflects the final jurisdiction and classification determination (e.g. USML-controlled, CCL controlled, EAR99, or not controlled) or requests for CEA/HEA review to verify classification or determine if other jurisdictional authority is pertinent, requiring other authorizations prior to export or transfer. If a CEA is uncertain of a self-jurisdiction and classification determination or if a program spans multiple Centers, Part

D provides the opportunity to consult with the HEA, who may take Commodity Jurisdiction (CJ) or Commodity Classification Automated Tracking System (CCATS) actions, as indicated in sections 3.3.4 or 3.3.5.

3.3.2.3.2. *THERE ARE THREE PARTS TO WORKSHEET B:*

- The first section is the header, which consists of Blocks 1 through 6 and provides information about the document that is the subject of review.
- The second section addresses whether the information is subject to export control or not, and provides for the reviewer to select an appropriate jurisdiction by checking the reason based on regulatory requirements.
- The third section provides for a rationalization of the reviewer's selection determination, by citing specific information in the document.

Figure 19: Information Classification Assessment Process



3.3.3. *DETERMINE IF SUBJECT TO EXPORT CONTROL*

The first step in the process for appropriately determining the classification of any item requires complete information about the item, whether it is a commodity, software, technical data, or technology. Part A of Worksheet A is completed by the export/classification Requestor, to provide the detailed information needed to assess jurisdiction and classification. Part B of the worksheet provides questions that help discern whether various informational materials/items are actually subject to export control. Items that are generally not subject to export control laws would be information that is defined in the ITAR and EAR as fundamental research, public domain or spacecraft passenger or participant experience, as referenced in the subparagraphs below. While an item may not be subject to export control, there may still be NASA policy restrictions affecting potential receiving entities (see Section 2.8).

3.3.3.1. *FUNDAMENTAL RESEARCH*

The ECS then needs to ascertain whether the item is subject to export control (i.e., fundamental research or in the public domain). If the item is software, technical data, and/or technology, it may be considered fundamental research if it meets the qualifications described in 22 CFR §120.10, 22 CFR §120.11, 15 CFR §734.3, and 15 CFR §734.8. If the item is considered to be fundamental research, then it is not subject to export control.

3.3.3.2. *SOFTWARE, TECHNICAL DATA, AND/OR TECHNOLOGY*

If the item is software, technical data, and/or technology information appropriately placed in the public domain, it is not subject to export control (22 CFR §120.10, 22 CFR §120.11, 15 CFR §734.3, and 15 CFR §734.8).

3.3.3.3. *SPACECRAFT PASSENGER EXPERIENCE*

Activities and technology/technical data directly related to or required for the spaceflight (e.g., sub-orbital, orbital, lunar, interplanetary, or otherwise beyond Earth orbit) passenger or participant experience, regardless of whether the passenger or participant experience is for space tourism, scientific or commercial research, commercial manufacturing/production activities, educational, media, or commercial transportation purposes, are not subject to the ITAR or the EAR. Please review one or both of these linked references carefully before making a determination that an item is not subject to export control 22 CFR 121 Cat XV(f) Note 2 or 15 CFR 774 Supplement 1, Note 2 to 9E515.

3.3.3.4. *JURISDICTION AND CLASSIFICATION*

Once it has been determined using Parts A and B of Worksheet A that an item is potentially subject to export control (USML or CCL), the user is directed to Part C, Section 1 of the worksheet where there are 5 questions to determine if the item should be classified as subject to the ITAR. If the item is not subject to the ITAR the worksheet directs the user to the appropriate place in Part C, Section 2, where 9 questions are posed to determine if the item is subject to the EAR. Part C of the worksheet provides an assessment according to the Order of Review (22 CFR Part 121.1(b) and 15 CFR Supplement No. 4 to Part 774). The following outline is an overview of the steps that will be taken in the Order of Review Process:

1. Review the USML category by category and paragraph by paragraph, in the order they appear on the ITAR using Worksheet A**.**
2. If the item or service matches any of the descriptions listed on the USML, then it is subject to ITAR controls.
3. If the item has not been described and enumerated on the USML, it is probably a dual use item subject to the EAR and determining licensing requirements for the item or technology will need to be determined using the EAR.
4. Next, using the worksheet questions review the Export Control Classification Numbers (ECCNs) of the CCL to determine whether any of them apply to the item or technology. Begin by reviewing the 600 series items on the CCL.
5. If the item or technology is not controlled by the 600 series, review the 500 series items. For space-related organizations, the most relevant 500 series ECCNs are 9A515, 9B515, 9D515, 9E515. Items specific to the International Space Station or James Webb Space Telescope are classified as 9A004.
6. If the item does not fall in any of the above categories, it could be found elsewhere so be sure to check each of the other likely ECCNs. If after review of the other ECCNs, the item is not listed, it is designated EAR99; however, it may or may not require a license, depending on the user and destination.
7. If the item is classified by an ECCN, then determine if a license exception is available, which would preclude the need to initiate the time-consuming process of pursuing a license application. For dual-use export transactions, NASA typically uses one of four license exception authorizations (TMP 740.9, GOV 740.11(b), GOV 740.11(c) or STA 740.20) and/or a No License Required (NLR) authorization. There are NASA Checklists available in Appendix A to assist in determining if these

authorizations are appropriate to use for a given export transaction.

8. Finally, if no EAR authorization is available a license may be needed, depending on the commodity's export control requirements, its destination or end-users.

Based on the item's description and function the worksheet provides an audit trail to show how the user arrived at their classification determination conclusion using the "Order of Review" process.

Please note that if a request for an export has been submitted with the Checklist A: Request for Export Authorization, there may be sufficient information in Checklist A to make classification and authorization determinations depending on the complexities of the transactions. However, if additional information is needed, with HEA/CEA/ACEA direction the ECS may ask the Requestor to complete Worksheet A to verify proper jurisdiction and classification.

If there is doubt about jurisdiction or USML self-classification determinations, coordinate with the CEA who will coordinate with the HEA (if necessary) to determine whether a CJ request is required. These requests are submitted to DOS by ECILD.

3.3.4. *DOS COMMODITY JURISDICTION (CJ) REQUEST*

To request a CJ determination, the requesting project or program office shall complete Blocks 4-18 of the Department of State Commodity Jurisdiction Request, Form DS-4076 with assistance from Center ECS. Use Checklist E while filling out the DS-4076. If the item that is to be exported is software, then complete Checklist F and provide as an attachment to the CJ Request. This request can only be submitted to the DOS by a NASA Empowered Official.

IMPORTANT: Remember that while the CJ is under review by DOS, the item must be considered as subject to the ITAR until officially determined otherwise.

The program/project should allow at least two weeks for the CEA and HEA to finalize and submit a CJ request to DDTC. Upon receipt of a written CJ request from NASA, DDTC, in consultation with the DOD and DOC and other concerned U.S. Government agencies, typically responds within 60 days.

Once DDTC provides a determination in writing, the letter states the jurisdiction of control: ITAR (USML), EAR (CCL), or other. If the jurisdiction is ITAR, the category of classification within

the USML is provided. If the jurisdiction is EAR or other, the specific classification may or may not be provided.

3.3.5. *DOC COMMODITY CLASSIFICATION DETERMINATION*

In consultation with the CEA and HEA, the ECS may prepare a formal Commodity Classification Automated Tracking System (CCATS) submission to DOC to classify an item, if NASA is unable to determine the correct ECCN classification. The commodity classification request is submitted to BIS at DOC, in accordance with 15 CFR §748.3. All NASA CCATS classification requests must be submitted to BIS by ECILD.

3.3.6. *AUTHORIZATION REQUIREMENTS DETERMINATION*

If an item is classified on the USML or the CCL, an authorization is required to conduct release, export, or import transactions. An authorization may be either an ITAR license, a license exemption or General Correspondence (GC) [for ITAR-controlled items], an EAR license, a license exception No License Required (NLR), or an Advisory Opinion (AO) [for EAR controlled items].

The CEA must request approval to use an exemption or an exception from the HEA. For ongoing and established missions, blanket authorization may be obtained at the start of the program or project per the terms of the program plan, contracts, and/or agreements. For any modifications in mission scope, foreign participants, or terms of existing requirement, a new export control review should be completed prior to holding additional meetings to exchange scientific or technical data. Note: An International Agreement can provide the basis for several license exemptions under the ITAR.

IMPORTANT: If a project foresees multiple shipments using the same license exemption/exception, blanket authorizations may be provided by the HEA to the CEA.

3.3.6.1. *ITAR LICENSE EXEMPTIONS*

An ITAR license exemption is an authorization that allows for the export, temporary import, or reexport of defense articles and defense services under stated conditions without a license. In order to gain approval for the use of an exemption, the requesting CEA or ACEA must have:

- A written requirement to export or import (e.g., international agreement, MOU, grant, contract, or other mechanism)
- List of all parties to the transaction, including their addresses and roles
- Timing/scheduling of the transaction

- Jurisdiction and classification of all items, preferably in writing with supporting analysis

Because each exemption is unique, the CEA or ACEA must ensure that all criteria for use of the exemption are met. The CEA or ACEA should also ensure that there are no restrictions in place against the use of the exemption.

3.3.6.2. *EAR LICENSE EXCEPTIONS*

An EAR license exception (see 15 CFR Part 740) is an authorization that allows for the export, reexport, or transfer (in-country) under stated conditions, items subject to the EAR that would otherwise require a license. There are two types of license exceptions:

- List-based (specifically identified in the ECCN entry)
- Transaction-based (determined by the specifics of a transaction)

As with ITAR license exemptions, approval for the use of an exception is subject to requirements. The requesting CEA or ACEA must have:

- A written requirement to export or import (e.g., international agreement, MOU, grant, contract, or other mechanism)
- List of all parties to the transaction, including their addresses and roles
- Timing/scheduling of the transaction
- Jurisdiction and classification of all items, preferably in writing with supporting analysis

Each exception is unique and it is important to ensure that all criteria for their use are met. As with license exemptions, it is also important to ensure that there are no restrictions in place against the use of the exception (see 15 CFR Part 740.2).

3.3.6.3. *PROCESS FOR LICENSE EXEMPTIONS AND EXCEPTIONS*

The use of ITAR exemptions and EAR exceptions requires special care, experience, and training. NASA's authorization for the use of a license exemption or exception is contingent upon satisfying all regulatory requirements, conditions, limitations, and provisos corresponding to the specific exemption or exception. When using a license exemption or exception, NASA must also ensure it complies with recordkeeping requirements.

License exemptions or exceptions cannot be used for all transactions. In nearly all cases, a license rather than an exemption or exception must be obtained, if any of the following apply to the items to be exported:

- Embargoed/sanctioned countries (e.g., 22 CFR 126.1 countries, 15 CFR 740.2 restrictions)
- If the item or activity requires a license under one or more of the ten general prohibitions listed in the EAR and a license exception is not available (15 CFR 736.2(b) and 740)
- Missile Technology Control Regime (MTCR) items (22 CFR 120.29) or the USML or CCL entries for these items are annotated with "MT"
- Significant Military Equipment (SME) (22 CFR 120.7)
- Ineligible parties (e.g., 22 CFR 127.1(d)(2), 15 CFR 744) (i.e., Denial Screening Check)
- Any other circumstances that the HEA designates, in writing

3.3.6.3.1. *Delegation of Approval Authority for the Use of Exemptions, Exceptions, and NLR*

In order to delegate authority to CEA/ACEAs, each individual requesting the delegation must have completed training conducted by HQ and subsequently accepted the delegation from the HEA. Approval authority can only be delegated to U.S. government civil servants.

3.3.6.3.2. *Responsibilities of CEAs and ACEAs with Delegated Authority*

CEAs and ACEAs are responsible for ensuring that:

- All restrictions that apply to the use of exemptions or exceptions are reviewed
- Items temporarily exported are returned by the required date
- All records required for use of exemptions and exceptions are maintained and provided to the office of the HEA and other government officials whenever they are requested

CEAs and ACEAs are responsible for conveying conditions for use of these authorizations in writing and ensuring that the export requestor complies with all conditions, limitations, and provisos for use of exemptions and exceptions, as required in the ITAR, the EAR, and NASA requirements.

CEAs and ACEAs are also responsible for investigating and initiating the prompt notification of a potential or known violation related to the following:

- An item temporarily exported or imported will not be returned within the time period allowed by an authorization
- Incorrect use of an exemption, exception, or NLR authorization

Whenever a CEA and ACEA with or without delegated authority is uncertain about the use of any ITAR exemption, EAR exception, or NLR authorizations, they should seek further guidance and assistance from the HQ ECS. In these instances, to ensure appropriate authorization use and avoid potential violations, it is important to obtain a second opinion.

CEAs and ACEAs are not required to accept this delegation of authority and may continue to submit requests to the HEA for approval.

3.3.6.3.3. *CHECKLISTS FOR LICENSE EXEMPTIONS AND LICENSE EXCEPTIONS*

The HQ ECS has developed a series of tailored checklists to satisfy review, approval, reporting, and records retention requirements for the use of license exemptions, exceptions, and NLR. These documents use key ITAR/EAR references to create regulation-based supportable decisions. The beneficial results derived are:

- Allows users to develop authorization determinations based on questions tied to pertinent regulatory requirements
- Accelerates access to and confirmation of key references through embedded links
- Facilitates more accurate, consistent and timely authorization determinations
- Creates required records that substantiate correct export actions or respond to audit requests (22 CFR 122.5/15 CFR 762)

Tailored checklists are available to address the most frequently used NASA exemption and exception authorization requirements; they include the following: Checklist K: 126.4, Checklist L: TMP 740.9, Checklist M: GOV 740.11(b), Checklist N: GOV 740.11(c), Checklist O: NLR, Checklist P: STA 740.20, and Checklist Z for all other exemption or exception authorization requests (a catch-all checklist that should not be used if a tailored checklist is available). A Center must use these checklists for approvals at the CEA/ACEA-level, unless the HEA approves an equivalent form/IT system containing similar information. For requests requiring HEA approval, only use the appropriate checklist.

- **Checklist K: 126.4** – for shipments by or for U.S. Government agencies
- **Checklist L: TMP 740.9** – for temporary imports, exports, reexports, and transfers (in-country) for commodities controlled by the EAR

- **Checklist M: GOV 740.11(b)** – for exports, reexports, and transfers (in-country) to personnel and agencies of the U.S. Government
- **Checklist N: GOV 740.11(c)** – for exports, reexports, and transfers (in-country) to agencies of cooperating governments or agencies of the North Atlantic Treaty Organization (NATO)
- **Checklist O: NLR** – This checklist has been developed for exports of EAR99 items and other CCL items not subject to individual license requirements
- **Checklist P: STA 740.20** – for exports, reexports, and transfers (in-country), including releases within a single country of software source code and technology to foreign nationals, in lieu of a license that would otherwise be required pursuant to part 742 of the EAR
- **Checklist Z: -** This checklist has been developed for:
  - Requesting approval from HEA for a one-time use of an exemption or exception that does not have its own tailored checklist (e.g., other than Exemption 126.4, Exceptions TMP 740.9, GOV 740.11(b), GOV 740.11(c), STA 740.20, or NLR)
  - CEAs/ACEAs requesting delegated authority from the HEA to self-approve the use of specific authorizations
  - Meeting recordkeeping requirements of the ITAR and the EAR

When using Checklist Z, each party involved in the request has designated fields to complete. This checklist begins with important instructions for all to review. After reviewing these instructions:

- The requestor (ECR and/or program/project office/other requestors) completes their designated sections and submits the request via email to the CEA/ACEA
- The CEA/ACEA reviews and verifies all provided information, completes their sections of the checklist, and submits the checklist to the HEA via email for approval, unless the CEA/ACEA has been delegated approval authority.
- The approver (HEA or CEA/ACEA with delegated authority) assigns a unique tracking number to each transaction (use) of the exemption, exception, or NLR. The CEA will notify the requestor of the approval as well as any conditions/provisos for use of the exemption/exception/NLR.
- After the requestor completes the transaction, they must enter the actual ship date and AES filing number (when required by a proviso), then notify the CEA. If the item is a temporary export, the return date is completed by the requestor, who updates the CEA with the date the item is returned.

3.3.6.3.4. *TRACKING USE OF EXEMPTION AND EXCEPTION AUTHORIZATIONS*

The HEA and CEA will track all approved exemption, exception, NLR, and miscellaneous transactions. Use tailored checklists for export action within 90 days of the authorization approval date unless otherwise stipulated by the approving official by proviso or signatory comments.

HQ ECS has developed the following format that will be used by Centers to assign exemption/exception/NLR control numbers where EM stands for "exemption", EC stands for "exception", NR stands for "No License Required" and Msc stands for "miscellaneous."

- [EM/EC/NR/MS] [Center Acronym]-[Last two digits of the calendar year]-[Four digit sequential number of the request]
    - The request number will be incremented by one for each EM or EC request generated. Therefore, the last number used will represent the total number of either EM or EC requests that were processed by the Center during the calendar year.
- Examples of exemption Control Numbers: EM LaRC-17-0001, EM LaRC-17-0002, EM GSFC-17-0001, etc.
- Examples of exception Control Numbers: EC JSC-17-0001, EC JSC-17-0002, EC KSC-17-0003, etc.
- Examples of No License Required Control Numbers: NR MSFC-17-0001, NR AFRC-17-0002, NR GRC-0001, etc.
- The HEA Staff will assign control numbers for all exemptions, exceptions, and NLR that the HEA specifically approves for use by a Center. Examples of these Control Numbers: EC HEA-KSC-17-0001, EM HEA JSC-17-0002, etc.

Each CEA is required to provide a monthly written report (within 15 calendar days after the end of the month) to the HEA, listing the control numbers of all license exemptions, exceptions, and NLR and other authorizations approved during the reporting period by either the HEA or CEA/ACEA for use at their Center or their related field sites (e.g., WFF and WSTF) during. If the due date falls on a weekend or holiday, it is due the next business day. Figures 20-24 include formatted examples of information that must be provided in the monthly written report. There are five tabs in the Monthly Authorization Report:

1) The EM Tab identifies approved License Exemption transactions (Figure 20)

2) The EC Tab identifies approved License Exception transactions (Figure 21)

3) The NL Tab identifies approved “No License Required” transactions (Figure 22)

4) The Misc Tab (Figure 23) identifies other miscellaneous approved authorization transactions, which are relatively low in volume. This includes any other approved authorizations such as General Correspondence authorizations and Checklist Z authorizations (other than 126.4, TMP, GOV, STA and NLR).

5) The Summary by Month Tab is a summation of all authorizations approved by month for the year (Figure 24)

Figure 20: EM Tab

	A	B	C	D	E	F	G	H	I	J	K
1	Jan-20										
2	Control Number	Authorization	Destination	Foreign End User	AES/ACE Filing Number	Permanent or Temporary	Item	Classification	Tech Data? (Y/N)	Ship Date	Return Date ?
3	EM SSC-20-0001										
4											

EM | EC | NL | Misc | Summary by Month 2020

Figure 21: EC Tab

	A	B	C	D	E	F	G	H	I	J	K
1	Jan-20										
2	Control Number	Authorization	Destination	Foreign End User	AES/ACE Filing Number	Permanent or Temporary	Item	Classification	Tech Data? (Y/N)	Ship Date	Return Date ?
3	EC SSC-20-0001										
4											

EM | EC | NL | Misc | Summary by Month 2020

Figure 22: NL Tab

	A	B	C	D	E	F	G	H	I	J	K
1	Jan-20										
2	Control Number	Authorization	Destination	Foreign End User	AES/ACE Filing Number	Permanent or Temporary	Item	Classification	Tech Data? (Y/N)	Ship Date	Return Date ?
3	NL SSC-20-0001										
4											

EM | EC | NL | Misc | Summary by Month 2020

Figure 23: Misc Tab

	A	B	C	D	E	F	G	H	I	J	K
1	Jan-20										
2	Control Number	Authorization	Destination	Foreign End User	AES/ACE Filing Number	Permanent or Temporary	Item	Classification	Tech Data? (Y/N)	Ship Date	Return Date ?
3	Msc SSC-20-0001										
4											

EM | EC | NL | Misc | Summary by Month 2020

Figure 24: Summary Tab

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
2	126.4(a)	0												0
3	126.4(b)	0												0
4	126.4(c)	0												0
5	TMP 740.9(a)	0												0
6	GOV 740.11(b)	0												0
7	GOV 740.11(c)	0												0
8	STA 740.20	0												0
9	NLR	0												0
10	Checklist Z or Misc Lic EM/EC	0												0
11	TOTAL	0												0

EM | EC | NL | Misc | Summary by Month 2020

Those individuals accepting this authority will receive a certification of delegated authority from the HEA.

The HEA reserves the right to revoke, at any time, the delegated authority that has been authorized to specific individuals. The checklists will be updated from time-to-time, as

required, and the latest versions of the checklists will be available on the Inside NASA Export Control Program website. The HEA will also send a notice via email when an update has been made. It is important that requestors are using the latest version of a checklist when they submit their request for approval.

Any questions, concerns, or requests for additional information should be directed to the HEA.

3.3.6.4. *ITAR LICENSE REQUIREMENTS*

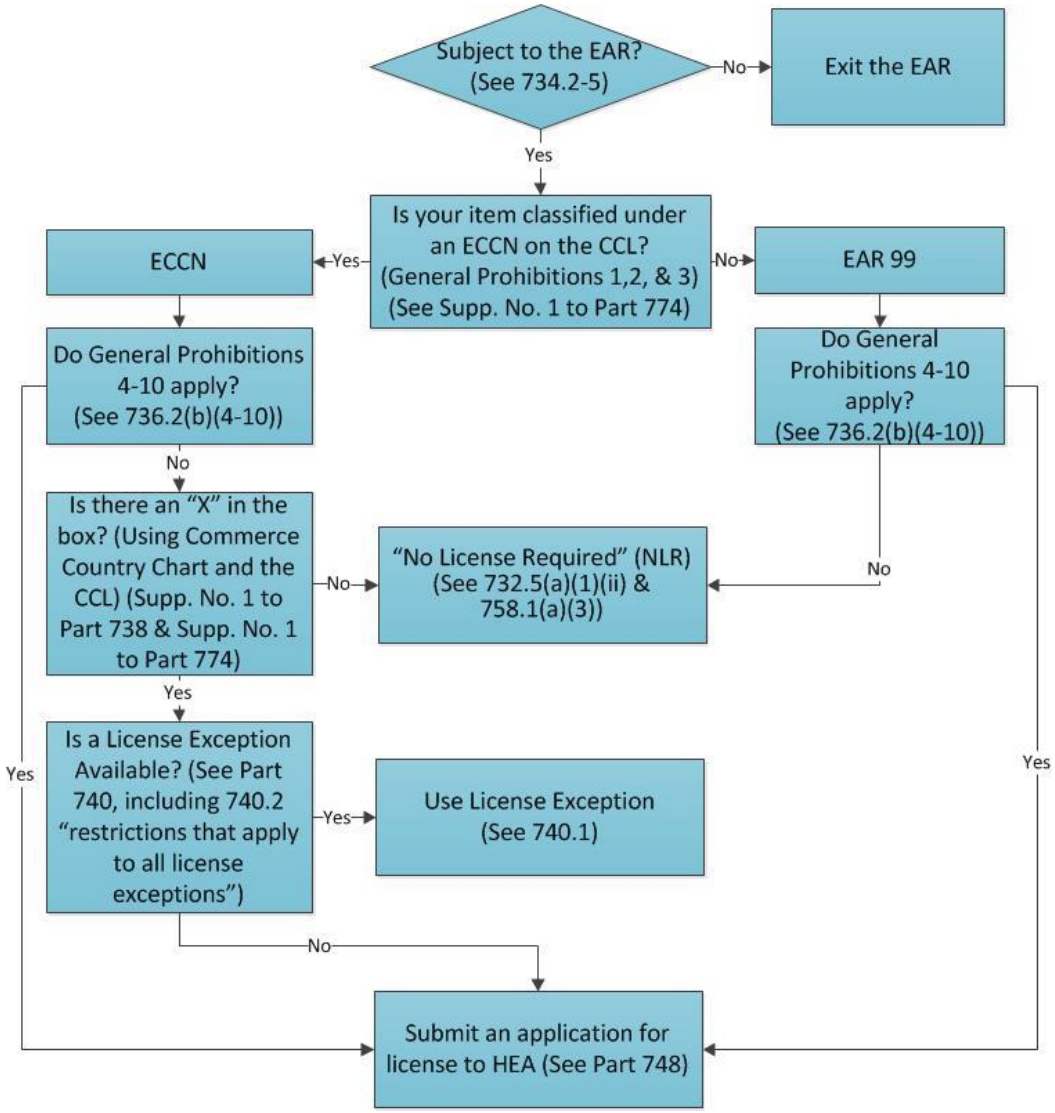
Once an item is determined to be subject to the ITAR and no license exemptions are available, a license is required. The license exemptions most commonly used are identified in Appendix B-7. License exemption 126.4 is the exemption that is most frequently used by NASA. Use Checklist K from Appendix A for documented approval to use this authorization and maintain on file. Other license exemption authorizations can be used by completing Checklist Z for approval and documentation purposes. When a license is required, the ECS prepares the license application package to submit to ECILD (see Section 3.3.7.1.).

3.3.6.5. *EAR LICENSE REQUIREMENTS*

Once an item is determined to be subject to EAR, a license may or may not be required. Use information contained in the "License Requirements" section of the ECCN in combination with the Country Chart to decide whether a license is required. Follow the instructions in 15 CFR §738.4 and use the decision tree as depicted in Figure 25: EAR Classification Process (Supplement 1 to Part 732) to aid in the determination of whether a license is required. If No License is Required (NLR), then NLR is the authorization for export and must be included on the shipping documents along with the ECCN. Use **Checklist O: NLR** for documented approval to use this authorization and maintain on file. If a license is required, then ECS should see if there is a license exception available. Exceptions that are commonly used are identified in Appendix B-7; however, those most frequently used by NASA are TMP 740.9, GOV 740.11(b), GOV 740.11(c), and STA 740.20, for which NASA checklists are available in Appendix A for approval and documentation of the use of those authorization. Other license exception authorizations can be used by completing Checklist Z for approval and authorization purposes. ECS needs to carefully examine the license exception to ensure that the export meets all of the requirements specified in the license exception, including recordkeeping and reporting.

In addition, ECS must review the exception in light of the "Ten General Prohibitions" (15 CFR §736.2(b)), as stipulated in 15 CFR §740.2. If the export is subject to General Prohibitions

four, seven, nine, or ten, then no license exceptions are authorized. If a license exception is not



available to overcome each license requirement reflected in an ECCN and its use is not precluded by a General Prohibition, then a license application is required (see Section 3.3.7.2).

Figure 25: EAR Classification Process

3.3.7. *APPLICATION PACKAGE TO SUBMIT FOR A LICENSE*

Once it has been determined that a license is required for the export, the CEA prepares a license application package for ECILD review and approval. All license applications are submitted by ECILD to the appropriate regulatory authority. The intent of the application package is to provide the licensing officer and other reviewers as much information and clarity about the export as possible. The package narrative should be developed with specific language so that a non-technical reader understands precisely what is being transferred, to whom, and why. To facilitate clarity and ease of understanding, adhere to these instructions to prepare the license:

- DO NOT use acronyms that have not previously been spelled out.
- Keep terminology in the letters of explanation and descriptions consistent.
- Avoid jargon and unnecessary technical terms.
- Explain new terms when they are introduced.
- All explanations should be self-contained; do not use language that may raise additional questions from the reviewers.
- Include precedent licenses, if applicable.
- Include an electronic copy of the International Agreement, if applicable.
- Structure the application so it can be decremented by U.S. Customs easily.

BEST PRACTICE: For certain items like Unmanned Aerial Vehicles (UAVs) and sounding rockets, it is strongly advised to give a detailed briefing on the license package to the Missile Technology Export Committee (MTEC) team (comprising DOS, DOD, and DOC representatives). The briefing should be conducted during the project formulation phase to gain MTEC's confidence that NASA has a robust plan to mitigate risks against compromising such technologies.

The CEA collects the required information, provides a draft cover letter, and gathers additional documentation to submit to ECILD. The package is reviewed and edited by ECILD and, if necessary, is returned to the CEA for coordination of any changes with the Requestor prior to final submission. Once the review is complete and both the CEA and HEA approve the license application package, it is submitted to DOS or DOC. Typically, it takes 60 days for DOS DDTC or DOC BIS to respond to a license application request.

Note: If the scope, entities or technology involve change after the license application is submitted, contact the HEA immediately. The license may need to be revoked or amended

after it is approved. For example, if the freight-forwarding service is changed to a different company, the license may be amended after it is approved. As another example, if ten items need to be exported instead of six, the license may need to be returned to NASA to submit a new license application.

Once NASA has received a response from the regulatory agency, one of the following two actions take place:

- If the license is approved, a transmittal letter is signed by a NASA Empowered Official and forwarded to the responsible CEA. The transmittal letter provides instructions on the provisions, conditions or limitations, and reporting and recordkeeping regarding the use of the license. The CEA provides this letter, with the license, to the parties that are authorized to conduct the transaction.
- If the license is rejected or Returned Without Action (RWA), based on the rationale that DOS DDTC or DOC BIS provides, ECILD coordinates with the ECS and Program Office to resubmit a revised license package or pursue an alternative course of action to support the NASA mission requirement.

The export control regulations incorporate modifications so that only a single license is required when exporting a commodity, software or technology subject to both USML and CCL controls. Under the updated regulations, the revised USML Categories IV and XV have a new paragraph (x), in order to allow for ITAR licensing of commodities, software, and technical data otherwise subject to the EAR. In both USML Categories, paragraph (x) and its explanatory note read as follows:

(x) Commodities, software, and technology subject to the EAR (see

§ 120.42 of this subchapter) used in or with defense articles.

Note to paragraph (x): Use of this paragraph is limited to license applications for defense articles where the purchase documentation also includes commodities, software, or technology subject to the EAR (see § 123.21(b) of this subchapter).

As noted, this regulatory solution ***only*** applies to CCL commodities, software, and technical data ***used with*** **or** ***integrated into*** defense articles on the USML and ***are included in*** the exported technology.

The value of a paragraph (x) export is not used to calculate the Congressional notification threshold described above. However, applicants are still required to list the

accurate value of the paragraph (x) article on the license application that authorizes its export.

When submitting an application with paragraph (x) items, be sure to include purchase records that list both USML and CCL controlled commodities, noting that the CCL items are used "in or with" the USML articles being exported. The application must list the CCL commodities, software, and technical data separately by ECCN, including the value of those items as integrated into the export.

Licenses authorizing the export of paragraph (x) items will include the following paragraph:

The U.S. exporter must provide to the end-user and consignees in the purchase documentation or other support documentation submitted with the Department of State license or other approval request the appropriate EAR classification information for each item exported pursuant to a U.S. Munitions List "(x)" paragraph. This includes the appropriate ECCN or EAR99 designation.

As an export or re-exporter, it is your responsibility to be aware of, and comply with, all existing and future regulations of any and all U.S. government agencies controlling U.S. exports. The Directorate of Defense Trade Controls (DDTC) and the Bureau of Industry and Security (BIS) strongly advise that registered exporters and manufacturers have in place comprehensive monitoring programs, to ensure compliance with U.S. export law and regulations.

The following sections provide instructions for the draft submissions.

3.3.7.1. *ITAR LICENSE APPLICATIONS*

The ITAR license application submission package consists of the following items. Use Checklist G to ensure that all information is included.

- The current DDTC License application form – The form should be completed electronically using the DDTC-published guidelines for the particular type of license that is required for the transaction (DSP-5 for permanent export, DSP-73 for temporary export, or DSP-61 for temporary import). The published guidelines on the DOS website, provide detailed block-by-block information on how to complete the required license application form.
- A draft cover-letter explaining the reason for the license application – The cover-letter describes the commodity, technical data or software that is to be exported, the

entities/organizations and countries who are participants in the transaction, and the specific reason for the transaction, such as an International Agreement or a contractual requirement.

- A one-page technical description of each commodity line-item to be exported – If the export is a commodity, a picture or a drawing is required as a PDF attachment. When multiple items are to be exported, attach supporting technical data sheets and pictures/drawings for each item in the same order they are listed as line-items in the license application. Also, title these attachments with the same line-item name used in the license application, so that it is easy for the reviewer to identify which technical data sheets and pictures/technical data should be aligned with each line-item. This saves time and eliminates confusion when the transaction involves the export of numerous items.
- Copies of any Domestic or International SAAs
- Any other relevant documents or briefings that describe the transaction, the item, program, or the intended outcomes

3.3.7.2. *EAR LICENSE APPLICATIONS*

The EAR license application package consists of the following items to submit a license to BIS electronically. Use Checklist H to ensure that all information is included.

- Draft a letter of explanation provided as a Microsoft Word document with specific license application information to include:
    - i. A brief description of the export transaction, involved parties, locations, the dollar value, and when it must be exported with an explanation of why
    - ii. An impact statement that explains the ramifications if the export transaction does not occur or if it does not occur when planned
- Shipping information about the transaction and the parties involved:
    - i. The expected or possible port(s) of exit
    - ii. Intermediate Consignee(s): the name and address of each organization that will be involved with the movement of the items to be exported (both domestic and foreign)
    - iii. Ultimate Consignee: name and address
    - iv. End-user: name and address

- A complete and detailed description of the end-use intended by the ultimate consignee/and or end-user(s) and any countries for which reexport is requested
- Detailed information about each of the items that will be transferred:
    i. ECCN that corresponds to the item that is to be exported
    ii. Composite Theoretical Performance (CTP): Enter the Adjusted Peak Performance (APP) if the item is a digital computer or equipment containing a computer. If the item is not and does not contain a computer, enter "N/A" for not applicable.
    iii. Model Number: Enter the model number of the item to be transferred.
    iv. Commodity Classification Automated Tracking System (CCATS) Number: If the item previously received a commodity classification determination from BIS, provide the CCATS number shown on the classification issued by BIS. If there has been no known BIS classification enter "N/A".
    v. Quantity: Identify the number of items to be exported or reexported.
    vi. Units: A unit of issue that is commonly used in trade such as "each"
    vii. Unit Price: Provide the fair market value of the item to be exported rounded to the nearest whole dollar amount. Provide exact unit price only if the value is less than $0.50. For example, if the unit price is $0.45, write $0.45 as the unit price. If the unit price is $0.65, round up to one dollar.
    viii. Total Price: The unit price multiplied by the quantity to be exported
    ix. Manufacturer: Provide the name of the manufacturer, if known, otherwise, enter "Unknown."
    x. Technical Description: Provide a brief description of the item.
- A technical datasheet for each line item that is to be exported must be attached to explain the purpose of the item and detailed information, such as physical dimensions, weight, and key operating characteristics. The data sheet should generally not exceed one page and should be provided in Microsoft Word format to allow any minor edits if needed.
- Supporting technology information sheets and pictures/drawings for each item listed in the same order as line items in the license application; title these attachments with the same line item name that is used in the license application so that it is easy for the reviewer to identify which technical data sheets and pictures/technical data should be

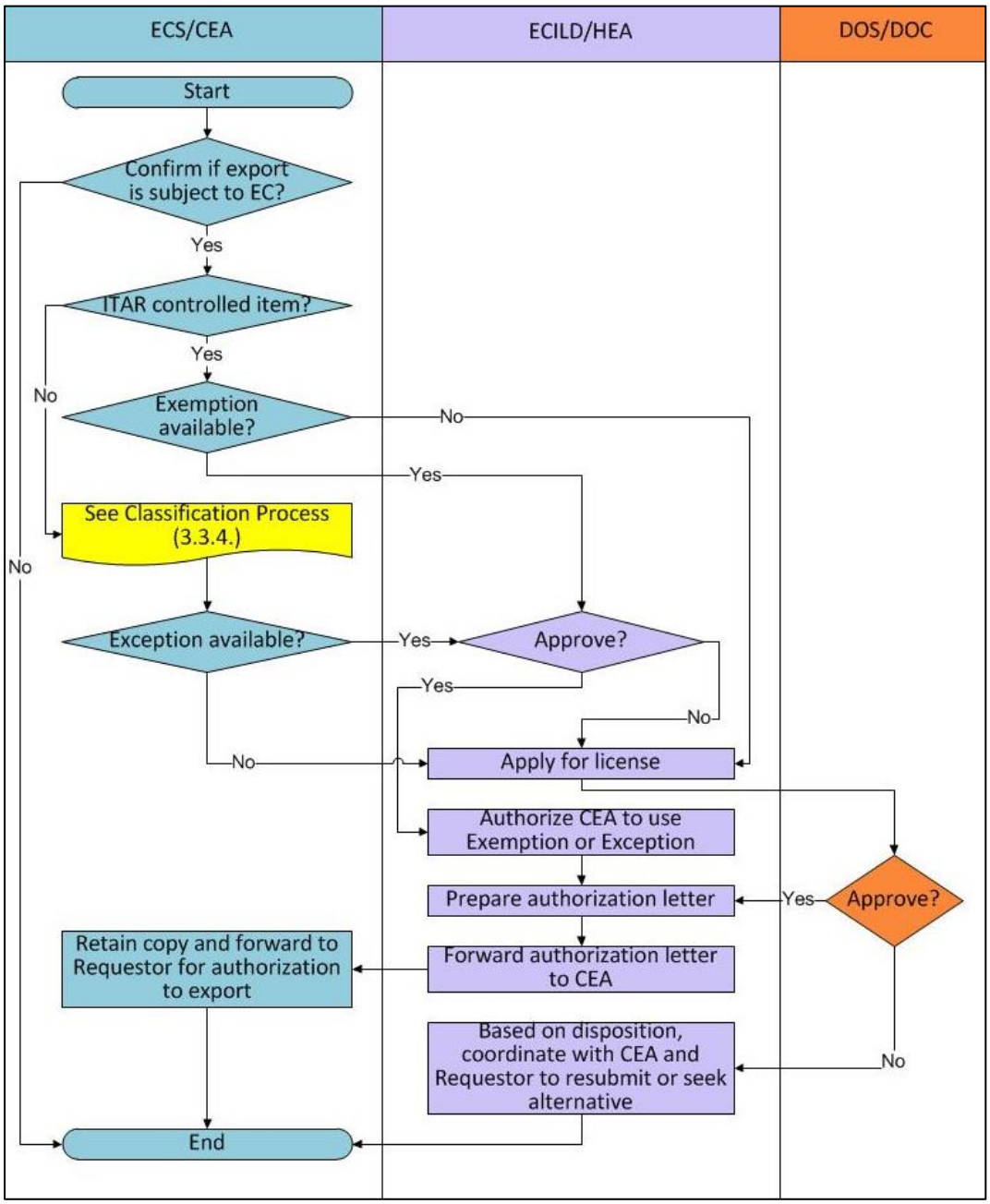
aligned with each line item. This can save time and eliminate confusion when the transaction involves the export of numerous items.

The license application process is illustrated in Figure 26.

3.3.8. *TRACKING LICENSE APPLICATIONS*

Once a license is submitted to the appropriate authority, Centers can track the status of their license applications through online systems: for ITAR, use Export License Status Advisory (ELISA) and for EAR, use System for Tracking Export License Applications (STELA).

Figure 26: License Application Process



3.4. *AUTOMATED EXPORT SYSTEM (AES) FILING PROCESS*

> **IMPORTANT**: To ensure NASA compliance with U.S. export regulations, the AES filer must file the EEI in AES when required, in an accurate and timely manner.

AES filing information is used by DOC's Bureau of the Census to compile international trade statistics and regulatory enforcement information. It is also used for verification by U.S. Customs and Border Protection (USCBP) that the transaction occurred as reported. Furthermore, DOC, DOS, USCBP, and Department of Treasury (DOT) use this information to monitor and track export activities and the use of export licenses, exemptions and exceptions. NASA places emphasis on proper processing of Electronic Export Information (EEI) through the AES because this is an activity in which the risk of export violations can be high. This is because multiple parties across NASA need to work together to ensure compliance with U.S. export laws. The NASA parties involved include the Requestor, ECS, and an AES filer. Figure 27 illustrates the AES filing process.

Requestors inform their Center ECS when an international shipment needs to occur. To determine when AES filing is required, the filer should use Checklist I as a guide; consult the latest version of the regulations to determine/confirm if AES filing is required. AES filing is commonly required in transactions that involve international shipments containing licensable items, claiming certain ITAR exemption/EAR exception, or exports with a value greater than $2,500 per individual Schedule B. If it is determined that AES filing is required, the filer coordinates with the Requestor and/or the Center ECS regarding any incomplete or unclear information related to the transaction.

Checklist I: AES Filing Requirement Determination		
If you mark "Yes" to any of the below options, AES filing is required:		
EAR Requirements **(15 CFR §758.1 (b)))** (1) **For all exports of items subject to the EAR that are destined to a country in Country Group E:1 of Supplement No. 1 to Part 740 of the EAR regardless of value;**	☐ Yes	☐ No
(2) **For all exports subject to the EAR that require submission of a license application, regardless of value or destination;**	☐ Yes	☐ No
(3) **For all exports of 9x515 or "600 series" items enumerated or otherwise described in paragraphs .a through .x of a 9x515 or "600 series" ECCN regardless of value or destination, including exports to Canada;**	☐ Yes	☐ No
(4) **For all exports under license exception Strategic Trade Authorization (STA);**	☐ Yes	☐ No
(5) **For all exports of commodities and mass market software subject to the EAR when the value of the commodities or mass market software classified under a single Schedule B Number (or Harmonized Tariff Schedule (HTS)) is over $2,500, except as exempted by the Foreign Trade Regulations (FTR) in 15 CFR §30 and referenced in paragraph (c) of this section;**	☐ Yes	☐ No
(6) **For all exports of items subject to the EAR that will be transshipped through Canada to a third destination, where the export would require EEI or license if shipped directly to the final destination from the United States (see 15 CFR 30.36(b)(2) of the FTR);**	☐ Yes	☐ No
(7) **For all items exported under authorization Validated End-User (VEU); or**	☐ Yes	☐ No
(8) **For all exports of tangible items subject to the EAR where parties to the transaction, as described in §748.5(d) through (f) of the EAR, are listed on the Unverified List (supplement 6 to part 744 of the EAR), regardless of value or destination.**	☐ Yes	☐ No

(9) **For items that fall under ECCNs that list CC Column 1 and 3 and RS Column 2 (see supplement no. 1 to part 738 of the EAR) as reasons for control and such items are for export, regardless of value, to India.**	☐ Yes	☐ No
***For shipments under EAR exceptions, excluding EAR license exception BAG and TMP (FTR §30.2(a)(iv) (B-G))*:**		
(B) Requiring a DOS, DDTC license under the ITAR	☐ Yes	☐ No
(C) Subject to the ITAR, but exempt from license requirements.	☐ Yes	☐ No
(D) Requiring a Department of Justice, Drug Enforcement Administration (DEA) export permit (21 CFR 1312).	☐ Yes	☐ No
(E) Destined for a country listed in Country Group E:1 as set forth in Supplement 1 to 15 CFR 740.	☐ Yes	☐ No
(F) Requiring an export license issued by any other federal Government agency.	☐ Yes	☐ No
(G) Classified as rough diamonds under 6-digit Harmonized System (HS) subheadings 7102.10, 7102.21, and 7102.31	☐ Yes	☐ No
If value is greater than $2500 per Schedule B, licensable or non-licensable (FTR §30.37(a))	☐ Yes	☐ No
Shipment to Puerto Rico or to U.S. Virgin Islands (FTR §30.2)	☐ Yes	☐ No
See below for examples of situations when AES filing is probably not required; this not an exhaustive list and Customs reserves the right to require AES filing for items that don't normally require AES filing:		
Miscellaneous Exemptions (See FTR §30.37)	☐ Yes	☐ No
Special exemptions for shipments to the U.S. Armed Services (See FTR §30.39)	☐ Yes	☐ No
Special exemptions for certain shipments to U.S. government agencies and employees (See FTR §30.40)	☐ Yes	☐ No

Below $2500 per Schedule B, if not subject to an ITAR / EAR export license	☐ Yes	☐ No
Export of technical data and defense service under the ITAR DSP-5 license, Technical Assistance Agreement or TAA exemption, but must report electronically directly to DDTC in accordance with 22 CFR §123.22(b)(3)(iii).	☐ Yes	☐ No
Shipping to Canada, if not subject to an ITAR / EAR export license or is EAR / ITAR controlled but exempt from licensing, excluding all 500 and 600 series items in the CCL (FTR §30.36).	☐ Yes	☐ No
For EAR Shipments exempt from AES Filing see 15 CFR §758.1(c):		
(1) **License Exception Baggage (BAG), as set forth in §740.14 of the EAR. See 15 CFR §30.37(x) of the FTR;**	☐ Yes	☐ No
(2) **License Exception Gift Parcels and Humanitarian Donations (GFT), as set forth in §740.12 of the EAR. See 15 CFR §30.37(h) of the FTR;**	☐ Yes	☐ No
(3) **License Exception Aircraft and Vessels (AVS), as set forth in §740.15 of the EAR. See 15 CFR §30.37(o) (5) of the FTR;**	☐ Yes	☐ No
(4) **License Exception Governments and International Organizations (GOV), as set forth in §740.11 of the EAR. See 15 CFR §30.39 and 30.40 of the FTR;**	☐ Yes	☐ No
(5) **License Exception Technology and Software Under Restriction (TSR), as set forth in §740.6 of the EAR. See 15 CFR §30.37(f) of the FTR; or**	☐ Yes	☐ No
(6) **License Exception Temporary Imports, Exports, and Reexports (TMP) "tools of trade", as set forth in §740.9(a)(1) of the EAR. See 15 CFR §30.37(b) of the FTR.**	☐ Yes	☐ No

The Transportation/Logistics Office creates and maintains the required export documents, such as the shipping form, invoice, and airway/ocean bill of lading for all international shipments, and provides a copy to the Requestor and the Center ECS. Center ECS provides the Center Transportation/Logistics office the appropriate authorization and classification for the items, which should be included on the shipping documents. The AES filer completes the EEI according to the ECS/CEA instructions as well as fulfilling all other requirements. Checklist J can be used as a guide to ensure that all necessary information is gathered for the filing. Center Transportation/Logistics will maintain the shipping records, to include the corresponding export authorization, (see Section 3.4.5.) and send the Requestor notification of the shipment.

Filers must complete the filing within the required timelines depending on the mode of transport:

- *Air or truck shipments.* The export information must be electronically filed at least eight hours prior to departure for all ITAR-controlled shipments. For *EAR-controlled* shipments, the export information should be electronically filed two hours prior to the scheduled departure by air and one hour prior to arrival at the border for trucks.

- *Sea or rail shipments.* The export information must be electronically filed at least 24 hours prior to departure for all ITAR-controlled shipments. For *EAR-controlled shipments via sea,* AES must be filed 24 hours prior to the loading of the cargo at the U.S. port. For EAR shipments via rail, the information should be filed electronically no later than two hours prior to when the train arrives at the border.

- *For used self-propelled vehicles, the information must be filed electronically at least 72 hours prior to the export.*

- *Emergency shipments of commodities that cannot meet the pre-departure filing requirements above are possible with USCBP permission.* Before seeking USCBP permission, the CEA must coordinate with ECILD to provide DDTC with immediate notification of the External Tracking Number (XTN) or Internal Transaction Number (ITN) for the shipment and rationale for the urgent movement, as specified in 22 CFR §123.22(b)(2). For USCBP to consider permitting emergency shipments they must have the EEI using the AES and the following documentation presented to them at the port of exit: the ITN for the shipment and a copy of a notification to DDTC stating that the shipment is urgent, accompanied by an explanation for the urgency. The AES filing of the export information must be made at least two hours prior to any departure by air from the U.S. When shipping via ground, the AES filing must be made at the time when

the exporter provides the articles to the carrier or at least one hour prior to departure from the U.S., when the permanent export of the commodity has been authorized for export.

Figure 27 illustrates the AES filing process.

3.4.1. *GOODS EXPORTED UNDER A PERMANENT EXPORT LICENSE (DSP-5).*

All permanent export licenses must be *lodged*[35] with Customs prior to filing of the EEI to ensure proper electronic decrementation[36] of the license through the AES system, in accordance with 22 CFR §123.22(1). Not all EAR licenses require lodging nor presentation to Customs because they are electronically-decremented through AES.

3.4.2. *GOODS EXPORTING UNDER TEMPORARY EXPORT LICENSE (DSP-73).*

Carrier/Forwarders facilitating the movement of the goods must have a copy of the temporary export license to be deposited, decremented and endorsed by Customs at the Port of Exit prior to departure and upon re-entry, and obtain a copy of the license endorsed by Customs from the carrier/forwarder in accordance with 22 CFR §123.22(a)(2). Not all temporary export licenses need to be lodged with U.S. Customs, but they must be presented[37] at the time of export and upon re-entry for manual decrementation and endorsement by U.S. Customs. AES does not electronically decrement temporary licenses.

IMPORTANT: Copies of hand-decremented licenses must be sent to the relevant CEA and forwarded to the HEA no later than 15 days after the license expires.

Carriers/forwarders should check that all parties to the export are on the license, such as carrier/forwarder, end-user, and ultimate and intermediate consignees in accordance with 22 CFR §127.1(b)(1) and (c).

3.4.3. *AES FILING BEST PRACTICES*

[35] Lodged means providing a copy of the export license with a stamped “original” to U.S. Customs.

[36] To decrement a document means to subtract the value of items being shipped from the value that is authorized to be exported in the license.

[37] Presented means physical presentation to U.S. Customs at time of export and entry.

- Verify that the description and value of the goods on the shipping document matches the license.
- Verify the correct Schedule B, ECCN, or USML Category.
- Verify with the carrier/forwarder the correct port of export and the airline/vessel Standard Carrier Alpha Code (SCAC)/International Air Transportation Association (IATA) code.
- If using a freight forwarder to move the goods, obtain their Employer Identification Number (EIN) and identify them on your AES filing as the Freight Forwarder.
- Upon completion of the verification process of the required EEI, the filer may then proceed with the filing of the AES.
- Upon completion of the AES filing, the filer should then complete and sign Checklist J and attach it with the AES filing copy.
- Once the AES entry is completed, the Center Transportation/Logistics Office proceeds in the preparation of the required export documentation (e.g. shipping form, invoice, airway bill, HAZMAT, and AES copy) and provides the carrier with the export documentation for the applicable method of transport (air or ocean) and files the record accordingly.
- Verify that all information shown on the EEI filing is accurate, true, and complete.

3.4.4. *GOODS EXPORTING UNDER AN AES FILING EXEMPTION.*

All export documents (including the shipping form) must be annotated with the appropriate AES Exemption citation in accordance with 15 CFR §30.7. (e.g. “No EEI Required, FTR §30.37(b)”).

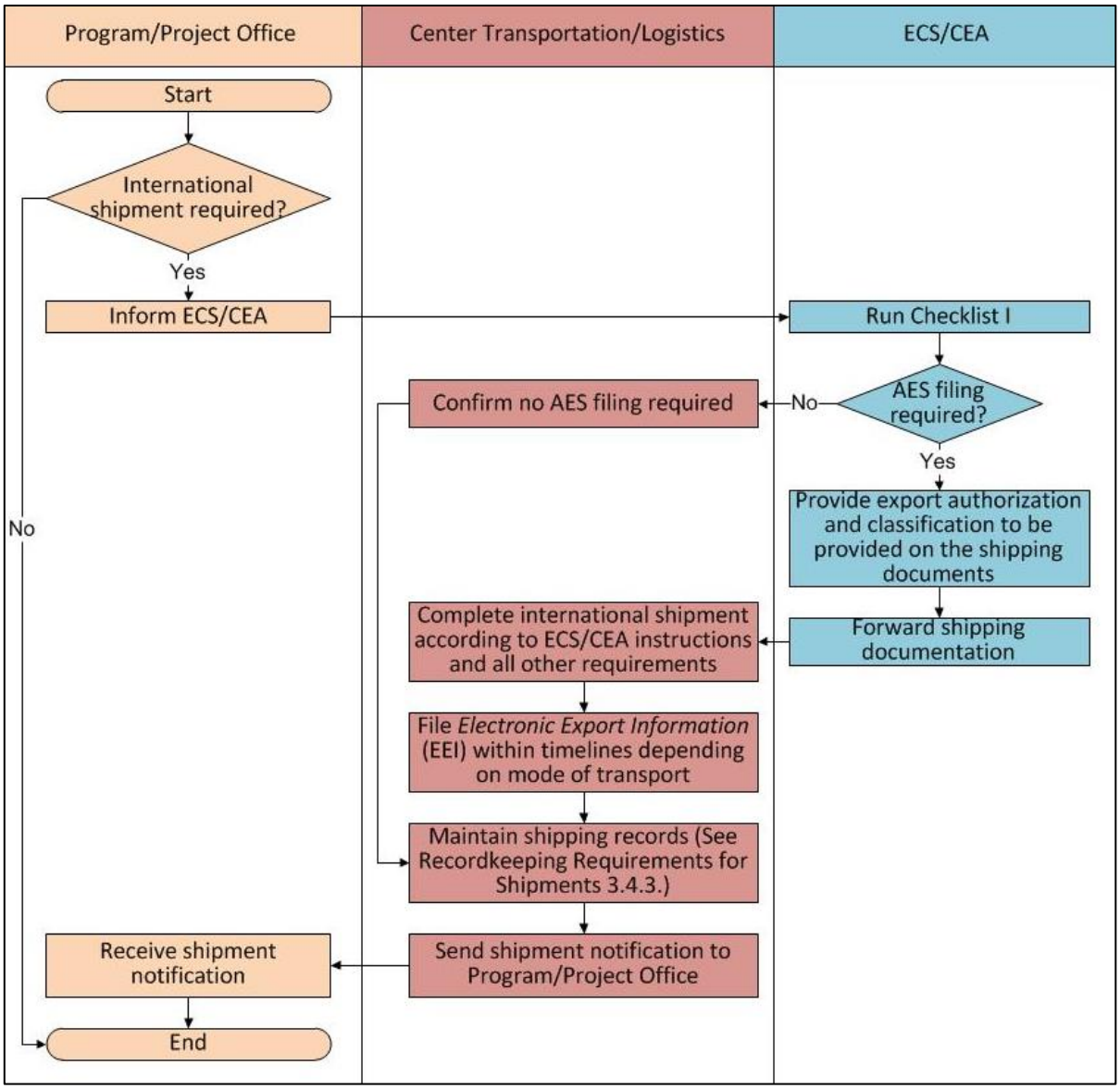
3.4.5. *RECORDKEEPING REQUIREMENTS FOR SHIPMENTS*

In accordance with U.S. export regulations related to recordkeeping, all documents related to an international shipment must be retained for a period of five years and must be available upon request by a U.S. Government official (15 CFR §30.10). All documentation shall be retained and maintained by the Transportation Office/ECS (listing of documents is below) (15 CFR §30.10). The ECS also retains a copy of the transaction documentation (e.g. shipping form,

invoice, airway bill and copy of AES filing document [if applicable]) in their files for internal review purposes only (15 CFR §30.10). All documents and correspondence relating to an international shipment, licensable and non-licensable, must be filed by the shipping date upon completion and labeled according to the Shipment Reference number. No records may be discarded without the prior approval of both the Transportation Officer and the CEA (15 CFR §30.10). The required documents for recordkeeping are as follows:

- Shipping form
- Export authorization, which must be identified on the shipping form
- Copies of temporary licenses that have been decremented and endorsed by Customs
- Invoice with the appropriate DCS and AES ITN or exemption/exception citation;
- Checklist I and Checklist J (if applicable)
- Bill of lading

Figure 27: Process for AES Filing[38]



[38] Depending on a Center, the AES filer may be under Center Transportation, Logistics, or a different organization.

3.5.*REPORTING REQUIREMENTS*

NASA is responsible for preparing and submitting various reports mandated by U.S. export control regulations, as well as U.S. international commitments. There may be specific reporting requirements associated with the use of an export license exemption or exception, requirements contained as a proviso or conditions of a license, or required in an International Agreement. The CEA collects the required information, prepares the reports, and submits them directly to ECILD, who then forwards them to the applicable regulatory agency.

3.5.1. *ITAR REPORTING REQUIREMENTS*

There are numerous ITAR reporting requirements. It is essential to accurately and efficiently report transactions on demand at the request of DDTC in accordance with 22 CFR §122.5.

The use of certain DOS licenses and exemptions must be reported as indicated below:

i. *Technical data license* – Prior to first use of a DSP-5 license for the export of technical data, NASA HQ will notify DDTC of the initial export and reference the relevant license number. CEAs will follow instructions provided in their license transmittal letters (22 CFR §123.22(b)(3)).

ii. *Technical data and defense service exemptions.* Prior to using an exemption (e.g., 22 CFR §125.4(b)(2), §125.4(b)(4), §126.5) for the export of technical data or providing a defense service, NASA HQ must notify DDTC of the export and the exemption. A copy of this notification, along with other required shipping documents (e.g., invoice, declaration statement, etc.) must accompany technical data shipments and be made available to USCBP upon request.

- Checklist X is used to closeout ITAR export licenses. Once DDTC issues an approved export license to NASA, the HEA will open Checklist X for the approved license. The HEA will then send a transmittal letter to the Center CEA with specific instructions and guidelines that must be followed. The HEA transmittal letter includes the approved ITAR license and checklist X. Once the CEA acknowledges receipt of the transmittal letter, the CEA is responsible for completing the steps (in a timely manner) on Checklist X that do NOT have an “X” in the Step box(es). Once the CEA has determined that the license will not be used or the license has “expired”, the CEA will promptly complete and sign Checklist X and return it to the HEA via e-mail.

- For licenses that have not been decremented electronically by USCBP through AES (e.g., decremented by hand or oral/visual technical data releases), NASA HQ must return the license back to DDTC, or the Government agency with which the license was filed, to include when the total authorized value or quantity has been shipped or upon expiration (22 CFR §123.22(c)(2)). This will be accomplished according to instructions in their license transmittal letters (22 CFR §123.22(b)(3)). However, a license that has not been used at all, does not have to be returned even when expired.

3.5.2. *EAR REPORTING REQUIREMENTS*

The Wassenaar Arrangement on Export Controls for Conventional Arms and Dual-Use Goods and Technologies is one of four multilateral export control regimes. The Arrangement's purpose is to contribute to regional and international security and stability by promoting transparency and greater responsibility in transfers of conventional arms, dual-use goods, and technologies. The Wassenaar Arrangement establishes lists of items for which member countries apply export controls. The Wassenaar members share with other members reports on exports of items on the Sensitive List (15 CFR Supplement No. 6 to §774) to countries that are not Wassenaar members, when certain license types or license exceptions are used. These are:

- License Exceptions: Shipments to Country B Groups (BGS), Technology and software under restriction (TSR), Shipments of Limited Value (LVS), Computers (APP), and the Cooperating Government portions (15 CFR §740.11(b)(2)(iii)) and 15 CFR §740.11(b)(2)(iv) of License Exception GOV. Exports of technology and source code under License Exception TSR to foreign nationals located in the U.S. should not be reported.
- The Special Comprehensive License procedure (see 15 CFR §752)
- The Validated End-User authorization (see 15 CFR §748.15)
- License Exception STA (see 15 CFR §740.20)
- Thermal-imaging cameras that are not authorized by Individual Validated Licenses; and the report must provide the information identified in 15 CFR §743.3(d).

The report includes the following information (see Figure 28):

- The ECCN and paragraph reference as identified in the CCL
- Number of units in the shipment

- Country of ultimate destination

Figure 28: Sample CEA Submission Response

Item Name/Description	ECCN #	Quantity	Destination Country
Machine Tool Software	2D001	1	Costa Rica

The HEA solicits inputs from the CEAs twice each year for NASA's contribution to Wassenaar reporting. The first report is due by July 15th for the period January 1st through June 30th of the calendar year. The second report is due by January 15th for the period July 1st through December 31st of the preceding calendar year. ECILD submits consolidated Agency-level Wassenaar Reports to DOC by the last day of January and July of each year. If the Center has had no exports of sensitive list items to non-Wassenaar member countries under the above identified authorizations, then the CEA simply replies "nothing to report."

3.6. *PROCESS FOR VOLUNTARY DISCLOSURES*[39]

DOS and DOC strongly encourage the voluntary disclosure of information by persons or entities that believe that they may have violated any export control provisions. Examples of violations or suspected violations that may require notification are:

- Unauthorized foreign national access to export-controlled materials [technical data, technology, commodities, software or defense services]
- Violations of license requirements

It is important to let regulators know when, where, and how export-controlled materials are compromised, so that countermeasures might be taken to neutralize or minimize potential adverse national security impacts, as appropriate. These disclosures can be considered as a mitigating factor in determining criminal, civil, or administrative penalties that may be imposed. Both regulatory agencies recognize that making voluntary disclosures is a sign of a

[39] The DOS uses the term "voluntary disclosure" while the DOC uses the term "voluntary self-disclosure".

healthy and vital export compliance program. NASA has a long history of close coordination with the export control regulatory agencies regarding voluntary disclosures.

IMPORTANT: It is the responsibility of all NASA employees to notify their CEA if they have knowledge of or suspect a potential violation of any export control provisions of the ITAR or EAR.

It is the responsibility of all NASA employees to notify their CEA if they have knowledge of or suspect a potential violation of any export control provisions of the ITAR or EAR. This notification is the first step in the overall voluntary disclosure process. Once informed, the CEA immediately notifies the HEA of the potential violation and proceeds to gather the information surrounding the incident. Once the HEA has been notified of a potential voluntary disclosure, he or she will notify the Headquarters Export Counsel and NASA senior management, as well as the Office of the Inspector General (OIG), as appropriate. He or she then directs ECILD to enter the case into the ECSD and assign a NASA case tracking number. The case number identifies the Center, the calendar year, and number of disclosure within the same year. In addition to documenting this case in the ECSD, ECILD also creates an electronic file folder to maintain all correspondence associated with the case in accordance with 22 CFR §122.5 and 15 CFR §762.6.

Within five days of initial notification, the CEA prepares a statement of the incident and reviews the case with the HEA to determine if there is, in fact, a violation that requires a disclosure to either DOS or DOC, depending upon the type of export violation. The incident summary should explain when, where, and how the potential violation occurred, as well as the parties identified and their roles as specified in 15 CFR §762 and 22 CFR §127.12(c)(2). Also, any interim or permanent actions undertaken to prevent recurring or future violations should be described.

The CEA and HEA will review the facts, and determine, within 30 days of the CEA's initial summary submission, whether a voluntary disclosure or notification is warranted. If it is determined that there is no violation, correspondence to this effect is provided to the CEA by the HEA, and the case is closed in the ECSD, with supporting documentation filed in the electronic file folder.

However, if warranted, the HEA may request additional information and submit an initial notification of potential voluntary disclosure to the appropriate regulatory agency (DOS for ITAR matters; DOC for EAR matters), as well as to NASA's OIG. A copy of this notification is provided to the CEA, the Center Director, the Associate Administrator for International and Interagency Relations, and the Assistant Administrator for Protective Services. The CEA may continue his or her investigation, but is formally tasked by the HEA to submit a final report of

findings to the HEA within 30 days of submission of the initial NASA voluntary disclosure notification to the regulatory authority. The HEA prepares and submits a formal voluntary disclosure to the appropriate regulatory agency and to the NASA OIG within 60 days of the initial voluntary disclosure notification.

Voluntary disclosures, which are prepared and submitted pursuant to section 15 CFR §764.5 of the EAR and section 22 CFR §127.12 of the ITAR, generally include the following elements:

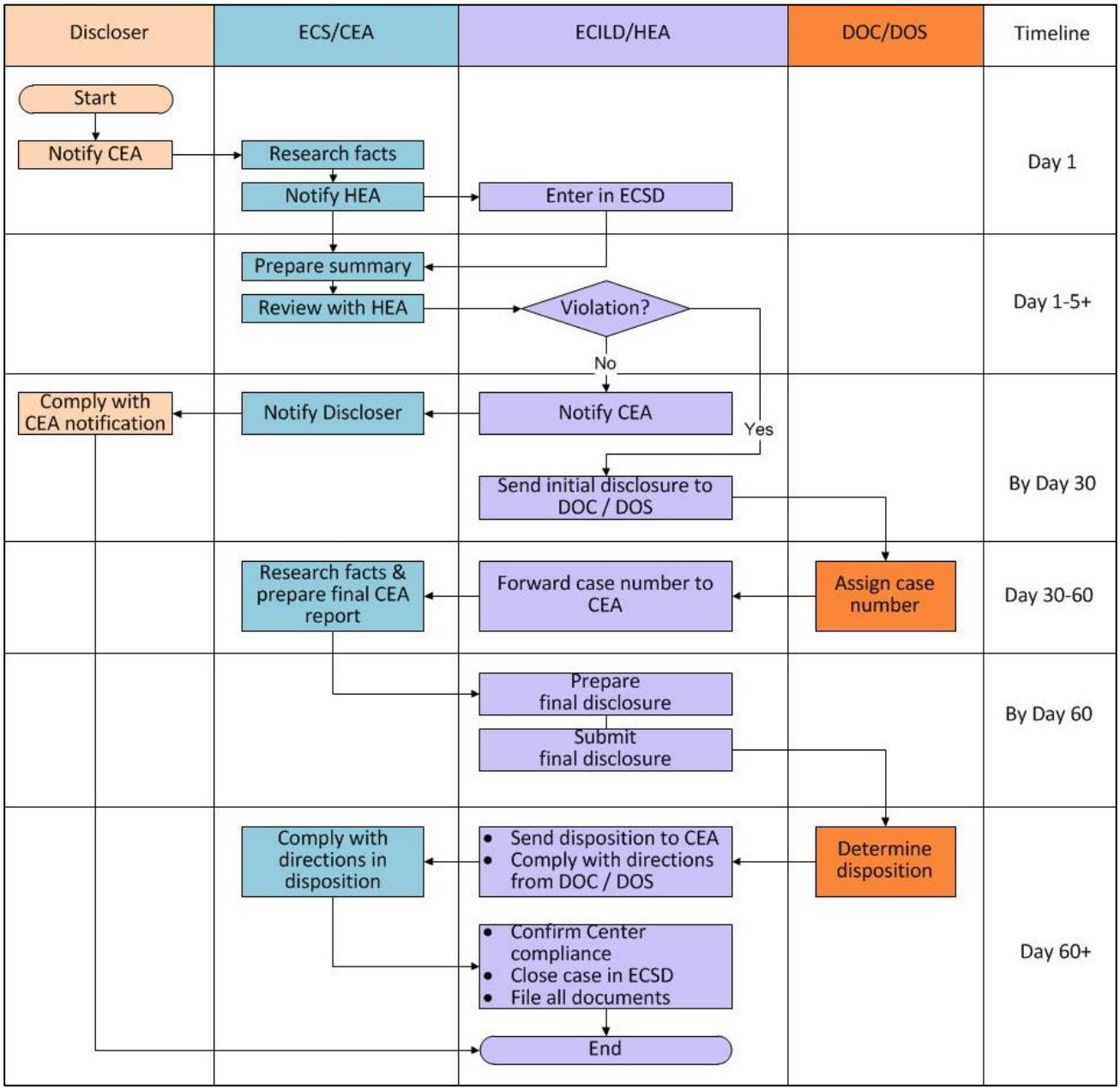
- A description of the nature of the violation
- The circumstances surrounding the violation (i.e., why, when, where, and how the violation occurred)
- The identities of all persons involved in the activities giving rise to the violation
- Any relevant regulatory licenses or authorizations involved
- The commodities, software, technical data, technology, and/or defense services involved
- A description of corrective actions undertaken to address the causes of the violations and how these corrective actions will deter similar violations in the future

After the appropriate regulatory agency has been provided the final disclosure document with a full narrative account and supporting documentation, the regulatory agency responds by acknowledging receipt of the disclosure notification with official correspondence that assigns a case number for tracking purposes and a point-of-contact with the relevant contact information.

Once ECILD has received the regulatory agency disposition on the case, the responsible CEA is notified and measures are taken to comply with additional directions provided by the regulatory agency, as appropriate. The HEA will confirm that the relevant Center has complied with the disposition. Once the HEA receives confirmation, he or she closes the case in the ECSD and all documents are filed in the NASA HQ electronic case file folder.

See Figure 29: Process for Voluntary Disclosure.

Figure 29: Process for Voluntary Disclosure



3.7. *PROCESS FOR LOST OR STOLEN EXPORT-CONTROLLED COMMODITIES*

When a CEA is notified about lost or stolen export-controlled material, he or she should begin the process of collecting information surrounding the event, ascertain which export-controlled information may have been compromised, and prepare a report for ECILD. The HEA, if necessary, would notify the appropriate regulatory authority.

3.8. *PROCESS FOR AUDITING*

ECILD oversees annual audits of NASA's ECP compliance. The purpose of the audit is to ensure adequacy of the overall NASA ECP, verify via sampling that required screening and licensing procedures are regularly followed, and to ensure that required documents are maintained in compliance with the requirements of the ITAR and the EAR. The audit verifies that appropriate records of all exports or transfers effected in support of NASA international programs and activities with foreign persons are maintained in accordance with NPD 2190.1 and NPR 2190.1 Chapter 7.

In accordance with NPD 2190.1, each Center Director will designate a qualified individual as an Export Control Auditor (ECA) to annually review the operation of the NASA ECP at that Center during the previous calendar year. The individual(s) selected by the Center Director to serve as the Center ECA to perform the Annual Audit should have received audit training and have previous auditing or inspection experience. At a minimum, the appointed auditors should have participated in an ISO 9000 internal auditor course or other comparable auditor training. Individuals without appropriate training should not be selected, except in exceptional circumstances. The selected ECAs must not have directly performed any of the actions that are being audited. Furthermore, the ECA must not be an individual (civil servant or contractor) whose performance is evaluated by someone in the Center's Export Control organization. Center Directors should make ECA appointments in writing, and CEAs should inform the HEA of such appointments, as early in January of each year as possible.

Each January, the HEA transmits audit guidance to the CEAs indicating the date by which audits of the previous calendar year are to be completed and forwarded to ECILD (see NPR 2190.1 Paragraph 7.2). The HEA also provides specific information that is to be the focus of the ECA in the form of an audit module NPR 2190.1 Paragraph 7.3.1.h. The CEA ensures that the HEA audit guidance is provided to the ECA. The CEA forwards the final audit report to ECILD within 60 days from the receipt of the final report. The HEA ensures that the results of the audit reports are reviewed, analyzed, and presented during the Agency's Annual ECP Review to

highlight program strengths and weaknesses with a focus on opportunities for program improvement. Center Directors oversee disposition of the findings from this audit.

3.9. *PROCESS FOR INTERAGENCY REVIEW OF STATE LICENSES*

In addition to submitting license applications to the DOS for export licenses, NASA participates in the DOS interagency license approval review process. When DOS DDTC receives a NASA-related license application, such as from industry, it requests NASA to review and comment, asking for the Agency's recommendation for approval or approval with provisos, Return Without Action (RWA), or denial. This license review process provides NASA with an opportunity to ensure Agency equities and programmatic objectives are appropriately addressed in export license applications that support NASA program execution. The review process starts when ECILD receives a license application for review from DDTC for a permanent export license (DSP-5), temporary import license (DSP-61), temporary export license (DSP-73), general correspondence license (GC), or other regulatory submissions from DOS through the U.S. Exports System (USXPORTS). NASA must respond within 15 calendar days of the DDTC staffing date, to ensure NASA's recommendations are considered by DDTC in its license review and approval process. Upon receiving a request, ECILD:

- Records the receipt of the request in the ECSD,
- Scans the application documentation and generates an electronic file,
- Determines the appropriate internal reviewers and contacts the appropriate Mission Directorate(s) and the CEA(s) to coordinate the reviews,
- Works with the Mission Directorate(s), CEA(s), and the reviewers to prepare Agency's response,
- Submits Agency's response to DOS, and
- Records the completion of the action in ECSD.

IMPORTANT: All NASA reviewers of DOS licenses must have NASA encryption capability.

3.10. *STAFFING OF CFIUS CASES*

Because CFIUS cases have an inherent export control equity in the proposed transactions, the cases are generally staffed to the CEAs at each Center that may have a vested interest in a

particular case (e.g., a contract with a U.S. company to be purchased by a foreign entity in a proposed transaction). CEAs should in turn identify and staff the CFIUS cases to organizations at their Centers which may have equities and/or concerns about a particular transaction that may not be readily apparent from HQ (typically program and project managers). The CFIUS case officer at Treasury generally provides information (e.g., contract numbers) regarding NASA's interests in the case that aids in identifying the appropriate organizations to which the case should be staffed. Inputs from Center organizations should be consolidated and submitted to the HEA.

If NASA has no objections to the case, a concise response letter declaring that NASA has no objections to the proposed transaction is submitted to the CFIUS case officer at Treasury. However, if NASA has objections or concerns about the proposed transaction, a more detailed response is required.

3.11. *EXPORT CONTROL INTERACTION WITH THE SECURITY OPERATIONS CENTER (SOC) PROCESS*

The Office of the Chief Information Office (OCIO) is responsible for the NASA Incident Management System (IMS). IMS is used by the NASA Security Operations Center (SOC) to assure effective control and management of information compromise incidents, including those involving NASA sensitive information. Currently when the SOC receives notification of incidents where sensitive information (i.e. SBU, PII, Export-Controlled) may be compromised, lost, or stolen, a SOC ticket is opened in IMS, initiating a series of events including notification of Center CISOs, Incident Response Managers, Center Privacy Managers and others as appropriate. These individuals work together as an incident response team to ascertain what happened, potential impact to NASA, individuals, etc. and the specifics of the type of information involved, who was involved, when it happened, the nature of the problem, the cause and corrective measures required to bring remedy to the incident and close the case.

In those instances, where export-controlled information or information that is suspected to be export-controlled is released in an unauthorized manner to the public or to foreign entities, the SOC Center Incident Response Manager (CIRM) will notify the CEA/ACEA. Additionally, they will ensure that the documents that present export control concerns or copies thereof will be provided to the CEA/ACEA at the time of notification. Some documents are suspected of containing export-controlled information, but are not marked as export-controlled; additionally, some documents have been marked as export-controlled, but have been marked with an erroneous export control marking and reveal no export-controlled information when reviewed. There are also legitimate reasons for an item with correct classification at some

earlier point in time to be reclassified, such as DOS commodity jurisdiction determinations/DOC commodity classification determinations, or Export Control Reform changes, by the regulatory agencies.

Once notified and in receipt of the documents in question the CEAs/ACEA is responsible for:

1. Providing an Export Control Assessment by making a determination if documents provided contain export-controlled information.

2. Providing the proper export jurisdiction and classification determinations for the documents, then:

    a. When documents have been erroneously marked export-controlled, but do not contain export-controlled information -- Instruct the document-owner and the SOC/CIRM to remove the export-controlled marking from the documents thereby decontrolling the information to allow for appropriate information sharing.

    b. When documents have been marked export-controlled, but reflect an incorrect jurisdiction or classification -- convey correct classification information to the document-owner and the SOC/CIRM, so that appropriate export authorizations can be sought, if needed for export purposes.

3. Providing an impact assessment of the release or compromise of the export-controlled information for the record.

4. Notifying the Center Incident Response Manager, who will facilitate appropriate updates to the SOC and IMS, of the export control assessment and classification determination.

5. Notifying the HEA if there is an indication that export-controlled information was improperly released to foreign nationals or the public, so that a determination can be made to submit a voluntary disclosure to the appropriate regulatory agency

CHAPTER 4: EXPORT CONTROL TRAINING PROGRAM PLAN

4.1.*TRAINING OVERVIEW*

NASA's Export Control Training Program focuses on the effective implementation of the Agency's ECP in accordance with NPR 2190.1 and NAII 2190.1. NASA's Export Control Training Program has been established to ensure successful execution of NASA missions, while assuring compliance with U.S. export laws and regulations.

NASA's Export Control Program Training Plan focuses on Agency-wide training to provide:

- Export compliance and control awareness for all personnel
- Knowledge and practice of export control processes, steps, and tasks which increase understanding of export control and improve personnel performance
- Increased awareness of behaviors and attitudes identified as illegal and/or undesirable by the Agency, such as complacency and disregard of NASA's mission requirements or compliance with U.S. export laws

The processes published in this manual are the pivotal and primary links between NASA policies and requirements and the Export Control Program Training Plan.

4.1.1. *IDENTIFICATION OF THE TRAINING NEED*

Although the primary content for the training plan is based on Chapters 1 through 3 of this manual, other sources are required to determine a more complete understanding of the training needs. The following sources also provide insight into identifying export control training needs:

- CEA interviews and feedback requests
- Agency identification of specific-task training to support the HEA
- Review of existing export control training available on SATERN
- Analysis of Voluntary Disclosures and audit findings

Figure 30: Identification of Training Needs

CEAs and ACEAs are the best sources for identifying "real-world" export control problems or concerns. The questions others ask of them, and the CEAs' areas of concern provide insights that influence training priorities. Interviews and regular communication with CEAs are important parts of continuing to develop training that meets Center "real world" needs.

At times, NASA may find it necessary to develop additional training for CEAs and ACEAs that builds knowledge and skills for specific tasks to enable CEAs and other personnel to assist and effectively support the HEA.

The review of existing export control training on SATERN to identify overlapping and outdated content is an ongoing effort. Some of the training currently in development will replace courses on SATERN.

Analyses of Voluntary Disclosures and Audit Findings may reveal the "first" wrong step taken that led to the undesirable result. They can provide vital information required to unravel the problems or issues and identify gaps in the learner's knowledge and understanding of processes and job tasks. Analytical products can be critical sources that provide a foundation for building training requirements for tasks or supporting tasks, and identifying the training necessary to improve performance.

4.2.*NASA'S EXPORT CONTROL TRAINING PROGRAM*

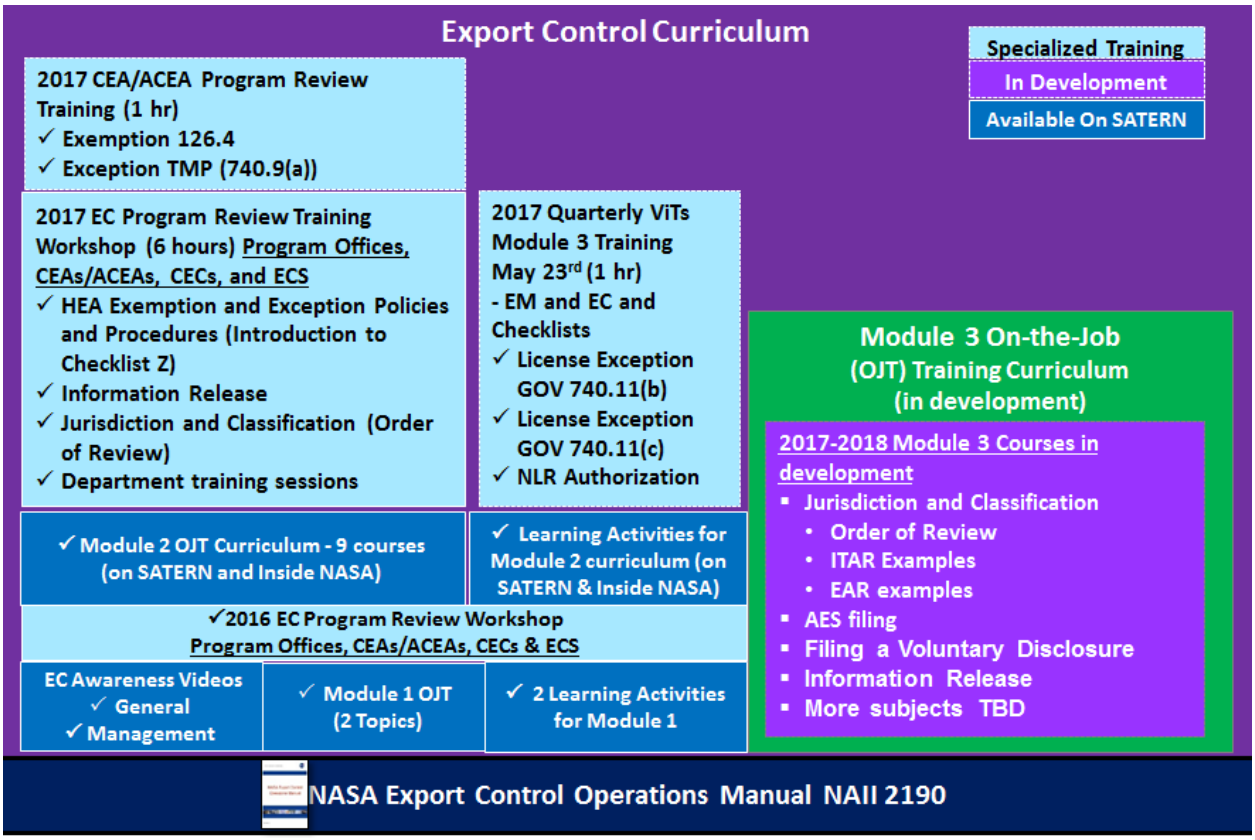
This manual is the foundational knowledge base for current and ongoing training development. The building blocks of NASA's Export Control Training Program displayed in

Figure 31 is a *"blended approach to training"*, meaning that training development begins with careful consideration of a number of factors before determining the appropriate media and delivery method for the training being developed. Some of these factors used to determine the media selection are:

- Immediacy and purpose of the training,
- The number, availability, and location(s) of the learners, and
- Cost and time needed to produce and deploy the training.

Media selection refers to choosing an appropriate delivery method and developing the training using format, platform, and tools to meet the need.

Figure 31: Building Blocks of NASA's Export Control Training Program



4.2.1. *EXPORT CONTROL AWARENESS VIDEOS*

There are two Export Control Awareness Videos available on SATERN. One is for senior management and the other is for the general NASA population; they both provide an overview of U.S. export control laws and regulations as they pertain to NASA and its programs and focus on the basic concepts and terminology of export control. The videos are intended for classroom instruction, or online training of new staff/hires to provide basic awareness and familiarization with the field of export control at NASA.

- NASA Export Control Awareness (SATERN Course ID: AG-ECP-001)
- Senior Management Awareness Training (SATERN Course ID: HQ-NASA-EXPCONT)

4.2.2. *NASA'S EXPORT CONTROL PROCESSES: ON-THE-JOB TRAINING*

4.2.2.1. *MODULE 1: INTRODUCTION*

The Module 1 export control training addresses Chapter 1 of this Manual and provides the necessary understanding of export control concepts and terminology.

When everyone across the Agency has the same understanding of terms, confusion is minimized and less time is needed to effectively address the larger issues that require our attention. The basic concepts presented are the foundation for all other export control curricula developed. Module 1 and related learning activities are available on SATERN (SATERN Course ID: AG-EXPCONTRL-TRAINING-M1A) or as an instructor-led PowerPoint (including learning activities) available for download on the Inside NASA website. If Module 1 is completed on SATERN, the Learning Management System (LMS) records it as completed and credits 1 Continuing Education Unit (CEU) to the learner.

4.2.2.2. *MODULE 2 CURRICULUM: EXPORT CONTROL PROCESSES FOR ALL NASA PERSONNEL*

The Module 2 Export Control training curriculum consists of nine courses, which are based on subjects included in Chapter 2 of this Manual. These courses are appropriate for all NASA personnel and contractors who may potentially be involved in exports on behalf of the Agency, or whose jobs may involve elements of export control. At the 2016 NASA Export Control Program Review, NASA initiated the first export control training workshop. The workshop training materials, available on Inside NASA, introduce learners to the subjects in the Module 2 curriculum.

Before taking the Module 2 courses, learners should watch the Export Control General Awareness video and complete Module 1. Links to this recommended training are provided within the "Introduction" of each Module 2 course. If the learner chooses to take either or both of these from the links provided, the learner will receive credit for what they take, and can continue to complete the Module 2 course for credit as well.

The Module 2 courses present a wide range of subjects within the field of export control at NASA and provide NASA employees with an understanding of the specific processes related to various export control activities. The courses may be taken individually on SATERN, or presented to a group, as instructor-led. As courses are completed within SATERN, they are recorded and CEUs (e.g., 0.5 hour, 1 hour) are credited to the learners in their learning plan.

The following are the Module 2 courses and their SATERN Course ID numbers:

- Review and Marking Documents for Export Control (EC) – 1 credit
  (SATERN Course ID: AG-EXPCONTRL-001-M2)
- Recordkeeping for Export Control (EC) – 0.5 credit
  (SATERN Course ID: AG-EXPCONTRL-002-M2)
- Export Control (EC) and Information Release – 0.5 credit
  (SATERN Course ID: AG-EXPCONTRL-003-M2)
- Export Control (EC) Process for Obtaining an Export Authorization – 1 credit
  (SATERN Course ID: AG-EXPCONTRL-004-M2)
- Export Control (EC) Process for Foreign National Access Requests – 1 credit
  (SATERN Course ID: AG-EXPCONTRL-005-M2)
- Suggested Export Control (EC) Best Practices for Meetings with Foreign Persons – 1 credit
  (SATERN Course ID: AG-EXPCONTRL-006-M2)
- Export Control (EC) Policy for Correspondence to Designated Countries – 0.5 credit
  (SATERN Course ID: AG-EXPCONTRL-007-M2)
- Export Control (EC) and International Travel – 0.5 credit
  (SATERN Course ID: AG-EXPCONTRL-008-M2)
- Space Act Agreements (SAAs) and Export Control (EC) Review of License Applications – 1 credit
  (SATERN Course ID: AG-EXPCONTRL-009-M2)
- Export Control (EC) Jurisdiction and Classification – 2 credit
  (SATERN Course ID: AG-EXPCONTRL-010-M2)

For using Module 2 in the classroom, the following instructor-led materials are located on the Inside NASA website:

- Learning Activities Instructor Answer Sheets and Student Worksheets
- Instructor's Classroom Aid
- PowerPoint of all Module 2 courses with related linked PDFs

4.2.2.3. *MODULE 3 CURRICULUM: EXPORT CONTROL PROCESSES FOR NASA EXPORT CONTROL STAFF*

The Module 3 training curriculum reflects Chapter 3 of this manual and primarily addresses the knowledge and task-based training needs of all NASA ECS, as well as others within programs and projects including ECRs, CERs, and EC-POCs that perform core export control-related activities. Elements of the face-to-face training workshops presented during the 2016 and 2017 NASA Export Control Program Reviews are envisioned for incorporation into Module 3 content, such as:

- Exemptions and Exceptions
- Information Release
- Voluntary Disclosures

These training products are planned for incremental development and fielding with CEA/ACEA participation and input.

4.2.3. *"SPECIALIZED" OR "TASK-BASED" TRAINING*

The purpose of "specialized" training is to provide a deeper dive on a subject(s) related to tasks performed, or processes used by and tailored to, a specific group of learners. The training may be related to the content in this manual or from another reference or source. The training type and media selection may vary and use a blended approach to training depending on the training need of the learners. The learners may be CEAs, ACEAs, ECS, Agency Country Desk Officers, ECRs, and others.

For example, when the Centers responded to a request made by the HEA concerning the number and type of License Exemptions (EMs) and License Exceptions (ECs) used in CY 2016, a training need was identified. Before training development could begin, the "HEA Delegation of

Authority" process was established, followed by the development of checklists and training for CEAs and ACEAs (and others from the program offices) on those EMs and ECs most frequently used.

The following "specialized" training provided all CEAs and ACEAs specific task-related subjects based on workshops conducted at the 2017 Annual NASA Export Control Program Review and the May 23, 2017 Quarterly ViTS:

- HEA Process for Delegation of Authority
- Multipurpose Checklist for EM and EC Request for Approval (Checklist Z)
- How and under what conditions a request for approval or Delegation of Authority should be submitted to the HEA for:
    - License Exemption 126.4
    - License Exception TMP 740.9
    - License Exception GOV 740.11(b)
    - License Exception GOV 740.11(c)
    - License Exception STA 740.20
    - No License Required (NLR) Authorization

Training materials and presentations used at the Program Review workshops and Quarterly ViTS are located on the Inside NASA website.

4.3.*AGENCY RECOMMENDED TRAINING PLAN FOR NASA PERSONNEL*

4.3.1. *RECOMMENDED TRAINING SCHEDULE*

The following information provides definitions and frequency recommendations for Table 9.

Table 8: Definitions and Frequency Recommendations for Training

Definitions	
M	Mandatory – Mandated by law; requires tracking and reporting compliance
R	Required – Identified by NASA's Export Control Office and/or the HEA as essential training for effective export control and compliance at NASA.
O/HR	Optional but Highly Recommended – For CEA identified personnel
Frequency	
1	Within 1 month of onboarding and/or training availability
3	Within 3 months of onboarding and/or training availability
6	Within 6 months of onboarding and/or training availability
9	Within 9 months of onboarding and/or training availability
A	Annually
B	Biennially

Table 9: Agency Recommended Training Plan Schedule

	NASA's Export Control Awareness Video SATERN Course ID: AG-ECP-001	**EC Management Awareness Video** SATERN Course ID: HQ-NASA-EXPCONT	**NASA OJT Module 1** SATERN Course ID: AG-EXPCONTRL-TRAINING-M1A	**NASA OJT Module 2 curriculum: 10 courses** SATERN Course IDs: AG-EXPCONTRL-001-M2 through AG-EXPCONTRL-010-M2	**NASA OJT Module 3 courses**	**"Specialized" Training**
All NASA Personnel	R – 1		R – 6	As determined by CEAs		
Management personnel		R – 1	R – 6	As determined by CEAs		
Export Control Staff (ECS) and others within programs and projects at the Centers (ECRs, CERs, POCs)	R – 1		R – 6	R – As determined by CEAs	R – As determined by CEAs	As determined by HEA/CEAs

	NASA's Export Control Awareness Video SATERN Course ID: AG-ECP-001	**EC Management Awareness Video** SATERN Course ID: HQ-NASA-EXPCONT	**NASA OJT Module 1** SATERN Course ID: AG-EXPCONTRL-TRAINING-M1A	**NASA OJT Module 2 curriculum: 10 courses** SATERN Course IDs: AG-EXPCONTRL-001-M2 through AG-EXPCONTRL-010-M2	**NASA OJT Module 3 courses**	**"Specialized" Training**
CECs	R – 1	R – 1	R – 3	R – 6	R – 9	R – 3
CEAs/ACEAs	R – 1	R – 1	R – 3	R – 6	R – 9	R – 3

Note: On completion of courses on SATERN, the learner receives credit for the course and a certificate is available to print or save. Continuing Education Units (CEUs) are recorded, as well as the learner's completions via the SATERN Learning Management System (LMS).

4.4.*MAINTENANCE OF THE TRAINING CONTENT*

Changes to content are required as NASA policies and requirements are updated/changed. During a maintenance cycle, updates are made to the content, and inputs or feedback from learners, instructors, and others are reviewed for additional insights to help identify knowledge gaps. This maintenance review cycle includes the following tasks:

- Determine whether processes/content have been changed or require changes
    - Identify what changes or additions to make to existing training
    - Determine if additional training development is required

4.5. *CENTER EXPORT ADMINISTRATOR (CEA) TRAINING REQUIREMENTS AND RESPONSIBILITIES*

New CEAs are encouraged to use training materials provided on SATERN as well as any other training materials provided by Headquarters ECS. Other external training is also available such as an online training room at the Department of Commerce's Bureau of Industry and Security:

https://www.bis.doc.gov/index.php/online-training-room

CEAs are required to attend the annually held NASA Export Control Program Review. The Review includes training workshops on important information about compliance with export control regulations and provides best practices shared among the NASA export control community.

CEAs are also required to attend Quarterly Export Control Video Conferences. These conferences provide updates on NASA procedures, export control regulations, status on issues raised during the Annual ECP Review, and provides opportunities for CEAs to raise additional issues or share important compliance information.

The CEAs are responsible to ensure that ECRs are well-versed in EC laws and regulations and with NASA's export control policies and processes and ensure that ECRs complete the necessary training, such as the EC Processes: On-the-Job Training and any other Center-sponsored training for export compliance. CEAs should encourage ECRs to attend the Annual ECP Review to keep abreast with the latest information shared with the broader EC community.

Some Centers conduct periodic export compliance training specifically targeting the ECRs, these training opportunities are a valuable resource for ECRs across all Centers and should be used whenever appropriate.

4.5.1. *CENTER EXPORT CONTROL PROGRAM TRAINING PLANS DEVELOPMENT*

CEAs are required to develop an Export Control Training Plan for their Centers and provide the plan to the HEA. As part of the Center Training Plan, Centers are required to provide initial and refresher training (ideally, at least once every 3 years). Table 9 may be used as an example for developing a Center-specific EC training plan schedule.

CHAPTER 5: IDENTIFICATION OF SENSITIVE TECHNOLOGIES & LOCATIONS FOR ADDITIONAL REVIEW

In response to recommendations made by the Government Accountability Office (GAO), NASA has committed to implement a risk-based approach to identifying technologies that warrant additional protection or attention, from an export control perspective. This involves the use of several existing sources of information that, when combined, will aid in risk-informed decision making when considering foreign national access, the need for employee outreach and training, and developing targets for follow-up assessments during annual audits and Integrated Functional Reviews. This process is known as "continuous risk management" (see Figure 32) and is further described in NPR 8000.4B "Agency Risk Management Procedural Requirements." Although this NPR is intended for programmatic or project-related risks, the principles of identifying, analyzing, planning mitigations, tracking progress, enforcing control, communicating and documenting can be adopted, in part, in managing export control risks.

Figure 32: Continuous Risk Management

NASA's export risk management approach, embraces principals outlined in NPR 8000.4B, NPR 1620.2A, Facility Security Assessments, and NPR 1620.3B, "Physical Security Requirements for NASA Facilities and Property", in which the risk must be weighed against the cost and operational impact of implementing established minimum-security standards. Risk management is an integrated process of assessing the threat, vulnerabilities, and value of the

resource and then applying appropriate safeguards and/or recommending the assumption of risk.

The first step in this approach is to establish a Center-specific inventory of sensitive technologies. Each CEA should construct a listing of those facilities that, due to the sensitivity of the technology contained therein, warrant heightened attention. This listing will include a rationale for listing (such as NASA Critical Infrastructure (see NPR 1600.1A)), identified as a target of foreign collection, inclusion on the Wassenaar Arrangement Sensitive List, Very Sensitive List or Munitions List, or the Military Critical Technologies List (MCTL). A NASA infrastructure is to be considered critical, or a resource considered key, if its destruction or damage would cause significant impact to the security of the Nation — national economic security, national public health, safety, psychology, or any combination.

The NASA Office of the Chief Technologist has compiled a listing and description of NASA technology investments in their "TechPorts" website, an integrated, Agency-wide software system designed to capture, track, and manage NASA's portfolio of technology investments. TechPorts provides detailed information on individual technology programs and projects throughout NASA and is equipped with features that allow users to efficiently search and browse technology projects, identify technology gaps, and provide comprehensive technology reports. The Wassenaar Arrangement publishes their controls annually and are useful in identifying technologies that have more constrained export requirements.

DOD Instruction 5200.39, Critical Program Information (CPI) Identification and Protection Within Research, Development, Test and Evaluation (RDT&E), dated May 28, 2015, requires the Defense Security Services (DSS) to publish a report detailing suspicious contacts occurring within the cleared contractor community. A focus of this report is on efforts to obtain unauthorized access to sensitive or classified information. This annual report, *Targeting U.S. Technologies: A Trend Analysis of Cleared Industry Reporting,* constitutes part of DSS' ongoing effort to assist in better protecting the industrial base by raising general threat awareness, encouraging the reporting of incidents as they occur, identifying specific technologies at risk, and applying appropriate countermeasures.

Each Center CI Officer is required to develop an annual threat assessment based upon input from law enforcement and intelligence sources. These assessments also generally identify technologies or trends in technologies that are actively being sought by foreign sources. Together, these disparate sources can assist the CEA in making risk-based decisions on foreign national access and meet the need for heightened attention in audits and outreach.

As the CEA becomes aware of facilities containing sensitive technologies, they will be recorded on a list that will inform subsequent decisions on foreign national access, escort requirements for foreign nationals, or the need for focused export control training. This list will be updated regularly but no less than every two years with input from the CEA, local CI Special Agents, and the local IVC. Figure 33 provides an example of such a listing.

Figure 33: Center-Specific Inventory of Sensitive Technologies

Example Center-specific inventory of sensitive technologies

Technology	Location	Rationale: NCI, CI, WA SL, WA VSL, WA ML,	TechPorts Description	Foreign National Visitors	Foreign Participation	ACP	Remarks
Visible and Near Infrared Sensor Technology	GSFC Building XYZ	CI, WA SL	Y	Y	Y	Y	Collaborative project with ESA, international agreement and license in place, only FNs listed in ACP have access, conduct inperson annual export control outreach

NCI: NASA Critical Infrastructure
CI: Targeted Technology Reported by Counterintelligence
WA SL: Wassenaar Arrangement Sensitive List
WA VSL: Wassenaar Arrangement Very Sensitive List
WA ML: Wassenaar Arrangement Munitions List

APPENDIX A: EXPORT CONTROL TOOLS

This appendix contains export control tools for use by export control practitioners. These tools consist of checklists and/or worksheets that help facilitate or document required work activities or processes when engaging in export control activities such as jurisdiction/classification or export authorization determinations.

Worksheet A: Export Classification Analysis Sheet

Version 4 - 02/08/2021

Name(s) of person(s) completing the worksheet: *Click here to enter text.*

Contact information for each person listed: *Click here to enter text.*

Date completed: *Click here to enter a date.*

Part A: Required Data For Export Classification Determination	
1	**Name (Model/Part Number) and general description of the item:** *Click here to enter text.*
2	**Detailed description of the item** (Describe what it does, how it operates, the components and/or systems that are used in or with it, and identify the end use platform in which the item is to be integrated, incorporated, etc. if it is a minor component)**:** *Click here to enter text.* **Characteristic Functions:** *Click here to enter text.* **Technical specifications:** *Click here to enter text.* **Are blue prints, diagrams, or pictures attached to this worksheet?** ☐ **Yes** ☐ **No** **What Is the Intended use (end use) of the item?** *Click here to enter text.*
3	**Name of manufacturer:** *Click here to enter text.* **Manufacturer's address and contact information:** *Click here to enter text.* **Has the manufacturer been contacted for classification information?** ☐ **Yes** ☐ **No** **If "No", please explain.** *Click here to enter text.* **If "Yes", did the manufacturer provide a classification for the item?** ☐ **Yes** ☐ **No** **<u>If "Yes", enter the classification and continue to Part D to complete the worksheet:</u>** *Click here to enter text.* **If "No", please explain.** *Click here to enter text.*

4	**Is the item's classification needed to meet an export date?** ☐ **Yes** ☐ **No** **Intended date of the export.** *Click here to enter text.* **If the export date is not met, explain the mission impacts (i.e., critical nature and urgency of the export.)** *Click here to enter text.*
5	**Is the item <u>information</u> <u>software</u> or <u>technology</u>?** ☐ **Yes** ☐ **No** **If "Yes" continue to Part B, Assessment of Information, Software or Technology to determine if the item is publicly available or controlled. If this is software, obtain and attach a NF 1679, NASA Disclosure of Invention and New Technology form, from the NASA Technology Transfer System (NTTS) thru the Center New Technology Report (NTR) Specialist.** **If "No", then item is <u>hardware or a commodity;</u> continue to Part C, Order of Review.**

PART B: ASSESSMENT OF INFORMATION, SOFTWARE OR TECHNOLOGY **SOURCE CODE STATEMENT OF UNDERSTANDING: For the purpose of national security controlled items, "source code" items are controlled either by "software" or by "software" and "technology" controls, except when such "source code" items are explicitly decontrolled.** **Supplement No.3 to Part 774**		
Step 1.1	**Review and answer the following questions to determine if the information is controlled by the ITAR; or if it is publicly available (i.e., in the public domain).** **Is this information** (per 22 CFR §120.10(b)**:** a. General scientific, mathematical, or engineering principles commonly taught in schools or appropriately placed in the public domain (as defined in §120.11)? ☐ **Yes** ☐ **No** Or b. Telemetry data (as defined in note 3 Category XV(f) 22 CFR §121.1))? ☐ **Yes** ☐ **No** Or c. Basic marketing information on function or purpose or general system description of defense articles? ☐ **Yes** ☐ **No** Or Per 22 CFR §121 Category XV(f) Note 2	***If you answered "Yes" to any of the questions in Step 1.1, the information is publicly available information. (i.e., authorized for the public domain).*** *Cite the applicable ITAR reference with rationale Click here to enter text.* *Continue to Part D to complete the worksheet.* *If you answered "No" to all questions, continue to the next step in this part, Step 1.2.*

	d. Information directly related to or required for the spaceflight passenger/participant experience? ☐ **Yes** ☐ **No**	
Step 1.2	**Review and answer the following questions to determine if this "technology" or "software" is publicly available information (i.e., in the public domain); or if the "technology" or "software" is controlled by the EAR.** 15 CFR §734.3(b)(3) , §734.7 and 742.15(b) **a. Is the item published and generally accessible or available to the public through any of the following?** ▪ Sales at newsstands and bookstores, and/or available at libraries ▪ Subscriptions available without restriction ▪ Second class mailing and/or marketing materials ▪ Patents (§734.10) ▪ Conference materials generally accessible to the public ▪ Public release by U.S. government department or agency ▪ Fundamental research (information or software only) §734.8 ▪ Telemetry data (15 CFR §774 Supplement 1, Note 2 to 9E) ☐ **Yes** ☐ **No** **Or** **b. Is the Information,** per 15 CFR §774 Supplement 1, Note 2 to 9E515, **directly related to or required for the spaceflight passenger/participant experience?** ☐ **Yes** ☐ **No**	***If you answered "Yes" to either question a. or b. in Step 1.2, the item is publicly available information (i.e., authorized for the public domain).*** *Cite the applicable EAR reference here with rationale: Click here to enter text. Continue to Part D to complete the worksheet.* *If the item to be classified is information, "software" or "technology" and you answered "No" to all questions in Step 1.2, continue the next step in this part, Step 1.3.*

Step 1.3	Is this information required for the development, production, use or operation of a hardware item?	☐ **Yes**	☐ **No**	*If you answered "Yes" to the question in Step 1.3, the information will be classified the same as the hardware it supports. Continue to Part C and classify the hardware for the correct information classification.* *If "No", continue to Step 1.4 for software determination.*
Step 1.4	**Review paragraphs <u>22 CFR §120.45 (e) and (f)</u> to determine if the item is software or firmware controlled under the ITAR.** *Software* includes, but is not limited to the system functional design, logic flow, algorithms, application programs, operating systems, and support software for design, implementation, test, operation, diagnosis and repair. Is this software that meets the ITAR definition 120.45(e), (f), which is enumerated in or required for development, production, use or operation of any 121.1 Categories items [e.g. XI(b), XIII(b), XIII(i) or XIV(i)]?	☐ **Yes**	☐ **No**	***If you answered "Yes" to the question in Step 1.4, the classification is complete.*** *Enter the ITAR category and subparagraph, and, based on item description/function, explain why this classification was selected. Click here to enter text. Continue to Part D to complete the worksheet.* *If "No", the item may be CCL Software or Technology, continue to Step 1.5.*
Step 1.5	Is this *"software" or* "technology" required for the "development", "production", or "use" of a CCL item as described in 15 CFR §774 Supplement No. 6 to Part 774 - Sensitive List in Categories: 1, 2, 3, 4, 5–Part 1 ,6 ,7, 8, or 9. **<u>Or</u>** Supplement No. 7 to Part 774 – Very Sensitive List in Categories: 1, 5–Part 1 ,6 ,7, 8, or 9. ☐ **Yes** ☐ **No**	☐ **Yes**	☐ **No**	***If you answered "Yes" to the question in Step 1.5, the classification is complete.*** *Identify the ECCN and nomenclature of the item that this "software" or "technology" applies to; then enter the applicable "software" or "technology" ECCN and explain why this classification was selected (e.g. development, production or use). Click here to enter text. Continue to Part D to complete the worksheet.* *If "No", continue to Step 1.6.*

Step 1.6	**Based on the ECCN/Category of the item the software/technology was developed for, is this software or technology described exactly in any ECCNs under the following <u>CCL Category Product Groups?</u> NOTE references to possible other organization jurisdiction.** 9D515 or 9D6xxx or 9E515 or 9E6xxxx; Remaining ECCNs 9D001-991 or 9E001-993; 0D001-617 or 0E001-982; 1D001-999 or 1E001-998; 2D001-994 or 2E001-994; 3D001-991 or 3E001-991; 4D001 or 4E993; 5D001-991 or 5E001-991; 5D002-992 or 5E002-992; 6D001-993 or 6E001-993; 7D001-994 or 7E001-994; 8D001-999 or 8E001-992.	☐ **Yes**	☐ **No**	***If "Yes", the classification is complete.*** *Enter the ECCN and, based on item description/function, explain why this classification was selected. Click here to enter text. Continue. to Part D to complete the worksheet* *If "No", continue Step 1.7.*
Step 1.7	During this review, was there any information, note, or reference, which applies to this software or technology that indicate it may be subject to the jurisdiction of another regulatory organization (e.g. Department of Energy)?	☐ **Yes**	☐ **No**	***If "Yes", Identify source for affirmative response.*** *Click here to enter text. Continue to Step 2.10.* *If "No", continue to the next step in this part, Step 1.8.*
Step 1.8	If the item described is subject to the EAR and not found under an ECCN of any of the Categories of the CCL in Step 1.6, its classification is designated as EAR99. **Is the item's export classification designated as EAR99?**	☐ **Yes**	☐ **No**	***If "Yes", the classification is complete.*** *Enter a statement that the item is subject to the EAR, not elsewhere specified in the CCL, and classified as EAR99. Click here to enter text. Continue to Part D to complete the worksheet.* *If "No", continue to Part D and request CEA/HEA classification assistance.*

PART C: ORDER OF REVIEW				
Section 1: ITAR USML (Hardware items subject to the ITAR)				
Step 1.1	***a. Review all USML categories. (Those most frequently used by NASA are bolded.)*** I—FIREARMS, CLOSE ASSAULT WEAPONS AND COMBAT SHOTGUNS II—GUNS AND ARMAMENT III—AMMUNITION/ORDNANCE **IV—LAUNCH VEHICLES, GUIDED MISSILES, BALLISTIC MISSILES, ROCKETS, TORPEDOES, BOMBS, AND MINES** **V—EXPLOSIVES AND ENERGETIC MATERIALS, PROPELLANTS, INCENDIARY AGENTS, AND THEIR CONSTITUENTS** VI—SURFACE VESSELS OF WAR AND SPECIAL NAVAL EQUIPMENT VII—GROUND VEHICLES **VIII—AIRCRAFT AND RELATED ARTICLES** IX—MILITARY TRAINING EQUIPMENT AND TRAINING X—PERSONAL PROTECTIVE EQUIPMENT XI—MILITARY ELECTRONICS **XII—FIRE CONTROL, LASER, IMAGING, AND GUIDANCE EQUIPMENT** **XIII— MATERIALS AND MISCELLANEOUS ARTICLES** XIV—TOXICOLOGICAL AGENTS, INCLUDING CHEMICAL AGENTS, BIOLOGICAL AGENTS, AND ASSOCIATED EQUIPMENT **XV— SPACECRAFT AND RELATED ARTICLES** XVI—NUCLEAR WEAPONS RELATED ARTICLES XVIII—DIRECTED ENERGY WEAPONS XIX—GAS TURBINE ENGINES AND ASSOCIATED EQUIPMENT XX—SUBMERSIBLE VESSELS AND RELATED ARTICLES XXI—ARTICLES, TECHNICAL DATA, AND DEFENSE SERVICES NOT OTHERWISE ENUMERATED			
	b. Is the item described by a category on the USML?	☐ **Yes**	☐ **No**	*If "Yes", enter the category. Click here to enter text. Continue to review subparagraphs in Step 1.2.* *If "No", continue to Step 2.1, Order of Review - EAR CCL*

<table>
<tr>
<td>Step 1.2</td>
<td>Review all subparagraphs and compare the item's description and technical specifications to each subparagraph.

Review all levels of subcategories and notes under the category that applies to the item.

Is the item enumerated (described "exactly") in a subparagraph?</td>
<td>☐
Yes</td>
<td>☐
No</td>
<td>If "Yes", the classification of the item is complete. Enter the category and subparagraph, and, based on item description/function, explain why this classification was selected. Click here to enter text. Continue to Part D to complete the worksheet.

If "No" is there a Note that applies to the item <u>and</u> provides specific classification directions?

☐ Yes ☐ No

If "No", continue to step 1.3.

If "Yes", enter the Note and the classification direction then highlight the applicable step in the table below and continue as directed. Click here to enter text.
<table>
<tr><th>Direction from Note</th><th>Continue to Step</th></tr>
<tr><td>Subject to EAR</td><td>2.1</td></tr>
<tr><td>9x515 or 600 ECCN</td><td>2.3</td></tr>
<tr><td>EAR99</td><td>2.9</td></tr>
<tr><td>Not subject to export control</td><td>2.10</td></tr>
</table></td>
</tr>
<tr>
<td>Step 1.3</td>
<td>Is the item described in a "catch all" paragraph and/or in a paragraph that includes the term "specially designed"?</td>
<td>☐
Yes</td>
<td>☐
No</td>
<td>If "Yes", enter the category and paragraph and continue to step 1.4 to determine if the item is "specially designed" Click here to enter text.

If "No", continue to Step 2.1, in the Order of Review -EAR CCL.</td>
</tr>
<tr>
<td>Step 1.4</td>
<td>Review paragraph 22 CFR §120.41(a) to determine if the item meets the criteria for "specially designed."</td>
<td>☐
Yes</td>
<td>☐
No</td>
<td>If "Yes" to (a), enter the number of the criteria met and continue to 1.5 to review 22 CFR §120.41(b) to see if any of the provision in (b) applies to the item. Click here to enter text.</td>
</tr>
</table>

	Does the item meet any of the criteria in (a) of "*specially designed*"?			*If "No" to (a), then the item is not "specially designed" and not USML controlled. Continue to the CCL in step to 2.1.*
Step 1.5	Review paragraph 22 CFR §120.41(b) to determine if the item is "released" by any provision in (b). **Does the item meet any provision described in (b)?**	☐ **Yes**	☐ **No**	***If "No" to (b) then the item is "specially designed" and USML controlled, and the classification of the item is complete.*** *Enter the category and subparagraph, and, based on item description/function, explain why this classification was selected. Click here to enter text. Continue to Part D to complete the worksheet.* *If "Yes" to (b), then the item is not "specially designed" and not controlled by the USML; enter the number of the provision that applies to the item: Click here to enter text. Continue to the CCL in step 2.1.*

PART C: ORDER OF REVIEW				
Section 2: EAR CCL (Hardware items subject to the EAR)				
Step 2.1	***Review all CCL categories. (Those most frequently used by NASA are bolded.)*** CAT 0—NUCLEAR MATERIALS, FACILITIES, AND EQUIPMENT [AND MISCELLANEOUS ITEMS] CAT1—SPECIAL MATERIALS AND RELATED EQUIPMENT, CHEMICALS, "MICROORGANISMS," AND "TOXINS CAT 2—MATERIALS PROCESSING **CAT 3—ELECTRONICS** **CAT 4—COMPUTERS** CAT 5—TELECOMMUNICATIONS AND "INFORMATION SECURITY" PART 1—TELECOMMUNICATIONS PART 2- INFORMATION SECURITY **CAT 6—SENSORS AND LASERS** **CAT 7—NAVIGATION AND AVIONICS** CAT 8—MARINE **CAT 9—AEROSPACE AND PROPULSION** **Is the item described in a category within the CCL?**	☐ **Yes**	☐ **No**	*If "Yes", a category applies to the item's description, enter the category. Click here to enter text. Continue to Step 2.2 to choose a product group.* *If "No", continue to Step 2.8*
Step 2.2	***Review the characteristics of the item to select a product group.*** A. Systems, Equipment and Components B. Test, Inspection and Production Equipment C. Material D. Software E. Technology	☐ **Yes**	☐ **No**	*If "Yes", a product group description applies to the item, enter the product group. Click here to enter text.* *Continue to Step 2.3.* *If "No", continue to Step 2.8*

<table>
<tr><td></td><td>Is the item described by a product group within the CCL?</td><td></td><td></td><td></td></tr>
<tr><td>Step 2.3</td><td>Is the item exactly described (enumerated) ECCN within 9x515 or the “600” series?</td><td>☐ Yes</td><td>☐ No</td><td>If “Yes”, the classification of the item is complete. Enter the ECCN under the 9x515 or 600 series paragraph, subparagraph, and/or notes and, based on item description/function, explain why this classification was selected; then continue to Part D to complete the worksheet. Click here to enter text.

If “No” is there a Note that applies to the item and provides specific classification directions?

☐ Yes ☐ No

If “No”, continue to Step 2.4.

If “Yes”, enter the Note and the classification direction then highlight the applicable step in the table below and continue as directed. Click here to enter text.

<table><tr><th>Direction from Note</th><th>Continue to Step</th></tr><tr><td>EAR99</td><td>2.9</td></tr><tr><td>Not subject to export control</td><td>2.10</td></tr></table></td></tr>
<tr><td>Step 2.4</td><td>Is the item described in a “catch all” paragraph and/or in a paragraph that includes the term “specially designed”?</td><td>☐ Yes</td><td>☐ No</td><td>If “Yes”, enter the ECCN. Click here to enter text.

Continue to 2.5 to review 15 CFR §772.1(a) and (b) for “specially designed” items.

If “No”, continue to Step 2.7 to review the remaining ECCNs in the CCL.</td></tr>
</table>

Step 2.5	Review paragraph 15 CFR §772.1(a) to determine if the item meets the criteria for *"specially designed."* **Does the item meet the criteria of "*specially designed*"?**	☐ **Yes**	☐ **No**	*If "Yes" to (a), enter the number and criteria met:* *Click here to enter text.* *Continue to 2.6 to review 15 CFR §772.1(b) to see if any of the provision in (b) applies to the item* *If "No" to (a), then the item is not "specially designed" and not controlled under the categories of 9x515 or the 600 series of the CCL. Continue to 2.7.*
Step 2.6	Review paragraph 15 CFR §772.1(b) to determine if the item is "released" by any provision in (b). **Does the item meet any provision described in (b)?**	☐ **Yes**	☐ **No**	***If "No" to (b), then the item is "specially designed" and CCL controlled, and the classification is complete.*** *Enter the ECCN, paragraph or subparagraph, and, based on item description/function, explain why this classification was selected; then continue to Part D to complete the worksheet.* *Click here to enter text.* *If "Yes" to (b), then the item is not "specially designed" and not controlled under the categories of 9x515 or the 600 series of the CCL. Enter the number and provision that released the item from "specially designed" and continue to 2.7. Click here to enter text.*
Step 2.7	***For spacecraft related items, review ECCN 9A004 before reviewing the remaining ECCNs.*** Review all remaining ECCNs from the beginning of the CCL. **Is the item described in one of the remaining enumerated ECCNs?**	☐ **Yes**	☐ **No**	***If "Yes", the classification of the item is complete.*** *Enter the ECCN, paragraph or subparagraph, and/or note, and, based on item description/function, explain why this classification was selected; then continue to Part D to complete the worksheet. Click here to enter text.* *If "No", is there a Note that applies to the item and provides specific classification directions?* ☐ Yes ☐ No

<table>
<tr><td></td><td></td><td></td><td></td><td>If “No”, continue to Step 2.8.

If “Yes”, enter the Note and the classification direction then highlight the applicable step in the table below and continue as directed. Click here to enter text.

<table><tr><th>Direction from Note</th><th>Continue to Step</th></tr><tr><td>EAR99</td><td>2.9</td></tr><tr><td>Not subject to export control</td><td>2.10</td></tr></table></td></tr>
<tr><td>Step 2.8</td><td>Is the item captured in a “catch all” paragraph (i.e., in a paragraph that includes the term “specially designed” within any of the remaining ECCNs)?</td><td>☐ Yes</td><td>☐ No</td><td>If “No”, continue to Step 2.9.

If “Yes”, enter the ECCN paragraph, subparagraph, and/or note for the item. Click here to enter text.

Review 15 CFR §772.1(a) and (b) for “specially designed” items.

Is the item “specially designed” per 15 CFR §772.1(a)?

☐ Yes ☐ No

If “No” to (a), then the item is <u>not</u> “specially designed” and <u>not</u> controlled under an ECCN of the CCL. Continue to 2.9.

If “Yes” to (a), enter the number of the criteria met in (a) and continue to paragraph (b). Click here to enter text.

Review 15 CFR §772.1(b).

Does any provision in (b) apply to the item?</td></tr>
</table>

				☐ **Yes** ☐ **No** ***If "No" to (b) then the item is "specially designed" and CCL controlled, and the classification is complete.*** *Enter the ECCN, paragraph or subparagraph, and, based on item description/function, explain why the classification was selected; then continue to Part D to complete the worksheet. Click here to enter text.* *If "Yes" to (b), then the item is not "specially designed" and not controlled under an ECCN of the CCL. Enter the number of the provision that released the item from "specially designed" and continue to 2.9. Click here to enter text.*
Step 2.9	If the item described is subject to the EAR and not found under an ECCN of any Category of the CCL, its classification is designated as EAR99. **Is the item's export classification EAR99?**	☐ **Yes**	☐ **No**	***If "Yes", the classification is complete.*** *Enter a statement that the item is subject to the EAR, not elsewhere specified in the CCL, and classified as EAR99. Continue to Part D to complete the worksheet. Click here to enter text.* *If "No", the item does not appear to be subject to the ITAR or EAR. Continue to 2.10 to determine if the item may be under and the jurisdiction of another regulatory agency.*
Step 2.10	If the item is not subject to the ITAR/EAR, cite the applicable note, reference, or rationale for the determination *Click here to enter text.* Then request a CEA/HEA assistance using Part D in the worksheet. The CEA/HEA will review to determine if the item is subject to the jurisdiction of another regulatory organization (e.g. Department of Energy (DOE).			

PART D: CLASSIFICATION DETERMINATION OR REQUEST FOR ASSISTANCE

☐ **HEA/CEA Review and Approval of Classification Requested.** *Click here to enter text.*

☐ **Manufacturer provided the classification – Enter classification:** *Click here to enter text.*

☐ **Not Controlled: Enter the ITAR/EAR citation** (*e.g., 22 CFR §120.10(b); 15 CFR §734.7; note 3 Category XV(f) Part 121, etc.)* *Click here to enter text.*

☐ **Controlled: USML** *Click here to enter text.* **Or** **CCL ECCN/EAR99** *Click here to enter text.*

Note: EAR99 items may require a license if destined for prohibited or restricted end-user, end use or destination [see §732.3(g)-(n)].

OR

☐ **Request for HEA/CEA Classification Assistance**

Worksheet B: Information Jurisdiction Determination Sheet
Version 2, 02/08/2021

Block 1: **Control #**			
Block 2: **Reviewing Official**	Block 3: **Type Document:**		Block 4: **Date Signed/Published:**
Block 5: **Title:**		Block 6: **Determination Complete Date:**	

	Reason NOT Subject To Export Control (RN) *Indicate applicable RN below with an "X"*		**Reason Export-Controlled (RC)** *Indicate applicable RC below with an "X"*
	(1) Available in the public domain through sales at newsstands, bookstores, or subscriptions without restriction to individual purchase. **[22CFR 120.11/15CFR 734.7]**		**(1)** Contains information necessary for the design, development, production, manufacture assembly, modification or testing items specified in the USML/ CCL. **[22CFR 120.10(a)/15CFR 772-Technology]**
	(2) Available at libraries open to the public or from which the public can obtain documents. **[22CFR 120.11/15CFR 734.7]**		**(2)** Contains information necessary for the operation, use, or testing of items specified in the USML or CCL. **[22CFR 120.10(a)/15CFR 772-Technology]**
	(3) Available through patents at any patent office. **[22CFR 120.11/15CFR 734.10]**		**(3)** Contains information necessary for maintenance, repair, overhaul, or refurbishment of an item specified in the USML or CCL. **[22CFR 120.10(a)/15CFR 772-Technology]**
	(4) Generally publicly accessible in U.S., through unlimited distribution at conference, meeting, seminar, trade show or exhibition. **[22CFR 120.11/15CFR 734.7]**		**(4)** Contains classified information related to items specified on the USML or CCL 600-series items. **[22CFR 120.10(a)/15CFR 772-600 series]**
	(5) Publicly released by the cognizant USG department or agency. **[22CFR 120.11 & 125.4(b)(13)/15CFR 734.7]**		**(5)** Contains classified information related to USML defense services or CCL 600-series technology. **[22CFR 120.10(a)/15CFR 772]**
	(6) The information concerns general scientific, mathematical, or engineering principles commonly taught in schools, colleges, and universities. **[22CFR 120.11/15CFR 734.7]**		**(6)** Contains information covered by an invention secrecy order. **[22CFR 120.10(a)/15CFR 734.10/37CFR 5]**
	(7) Basic marketing on function or purpose or general system descriptions of defense articles. **[22CFR 120.10(b)]**		**Comments/Page No(s). Supporting Determination:**
	(8) The information is directly related to or required for the spaceflight passenger-participant experience. **[22CFR 121.1 CAT XV(f) Note 3/15CFR 774 Sup 1, Note 2 to 9E515]**		
	(9) Telemetry data transmitted to or from a satellite or spacecraft, when limited to information about the health, operational status, or measurements or function of, or raw sensor output from spacecraft, spacecraft payloads or associated subsystems/components. **[22CFR 121.1 CAT XV(f) Note 2(b)/15CFR 774 Sup 1, Note 2 to 9E]**		
	(10) Does not contain information required for the design, development, production, manufacture, assembly, operation, repair testing, maintenance, or modification of defense articles. **[22CFR 120.10(a)]**		

Checklist A: Export Authorization Request

Checklist A: Export Authorization Request	
1.	Name of Requestor: Click here to enter text.
2.	Work Address of Requestor: Click here to enter text.
3.	☐ Civil servant or ☐ Contractor
4.	Organization: Click here to enter text.
5.	What is the purpose of the export? Click here to enter text.
6.	Program/Project: Click here to enter text.
7.	Phone number: Click here to enter text.
8.	Identify the requirement (e.g., contract, grant, or agreement) in place that requires this item(s) to be exported. Click here to enter text. ☐ Send or attach a copy of the requirement document(s), if applicable.
9.	Is there a pre-existing export authorization? ☐ Yes or ☐ No
10.	If yes, what kind?
11.	☐ If a copy of the authorization exists, provide a copy and check this box when attached.
12.	Type(s) of transaction. If there are multiple items, attach a spreadsheet (see sample), and check all that apply: ☐ Hardware ☐ Software ☐ Technical Data ☐ Technology ☐ Defense Service
13.	Enter a general description: Click here to enter text.
14.	☐ Attach a technical description of each item to be exported.
15.	Quantity of the item(s) and unit(s) of measure: Click here to enter text.
16.	Jurisdiction(s): Click here to enter text.
17.	Classification(s): Click here to enter text.
18.	Include model or part number: Click here to enter text.
19.	Manufacturer's name: Click here to enter text.
20.	Manufacturer's address: Click here to enter text.

21.	☐ Send or attach a picture or drawing of each item as a PDF file
22.	Where was the item made? Click here to enter text.
23.	Where did it come from? Click here to enter text.
24.	Where will it be shipped from? Click here to enter text.
25.	Enter the value for each item: Click here to enter text.
26.	Organization of ultimate destination: Click here to enter text.
27.	Address of ultimate destination: Click here to enter text.
28.	Name of end-user: Click here to enter text.
29.	Identify (or describe) the end-use:
30.	Methods of export for each item: Click here to enter text.
31.	Anticipated U.S. port of exit, if applicable: Click here to enter text. ☐ NA
32.	Anticipated U.S. port of return, if applicable: Click here to enter text. ☐ NA
33.	List all parties (U.S. and foreign) who will be involved in this export. Include a spreadsheet if multiple parties are involved. Name(s): Click here to enter text. Organization(s): Click here to enter text. Address(es): Click here to enter text. Role(s) they play in export(s)[40]: Click here to enter text.
34.	When do you want to export? Click here to enter text. When do you need the authorization by? Click here to enter text. Impact if anticipated date is not met? Click here to enter text.
35.	If this is a temporary export, when do you think it is coming back? Click here to enter text.

[40] EXAMPLE: If the export is a commodity being shipped in a box, will the person move the box? Open the box? If the export is technical data, is the person exporting via email or over telephone? ECS needs to know exactly what each person's involvement with the export is.

36.	If this is a loan, review and comply with the procedural requirements of NPR 4200.1G, paragraphs 3.4 and 3.5.

Checklist B: Gathering Information for IdMAX Entry

Checklist B: Gathering Information for IdMAX Entry		
☐	**1.**	Name of Requestor: Click here to enter text
☐	**2.**	☐ Civil servant or ☐ Contractor
☐	**3.**	Organization: Click here to enter text
☐	**4.**	Program/Project: Click here to enter text
☐	**5.**	Phone number: Click here to enter text
☐	**6.**	Full legal name of the Visitor: Click here to enter text
☐	**7.**	Gender ☐ M ☐ F
☐	**8.**	Visitor's Residential Address (include country): Click here to enter text
☐	**9.**	Country and date of birth: Click here to enter text.
☐	**10.**	Country of Citizenship: Click here to enter text
☐	**11.**	Does Visitor have dual citizenship? ☐ Yes ☐ No If yes, enter country(ies): Click here to enter text.
☐	**12.**	Social Security Number (SSN) if available: Click here to enter text. Or Foreign Identification Number (if no SSN available): Click here to enter text.
☐	**13.**	Passport Information/Identification Number; include a digital copy: Click here to enter text.

☐	**14.**	Visa Type[41]; include a digital copy: Click here to enter text.
☐	**15.**	Employer and/or affiliation: Click here to enter text
☐	**16.**	Employer Address: Click here to enter text Work phone number: Click here to enter text. Work email address: Click here to enter text.
☐	**17.**	Name of sponsor: Click here to enter text
☐	**18.**	What is the purpose of the visit? ☐ Interview ☐ Research Assignment ☐ Meeting or conference If the purpose of the visit is for an interview or a research assignment, upload the applicant's resume and/or curriculum vitae, if available, to IdMAX.
☐	**19.**	Is this a high-level protocol visit[42]? ☐ Yes ☐ No
☐	**20.**	Dates and/or period of time for the visit: Click here to enter text
☐	**21.**	NASA facility (physical) access required for the visit: ☐ NA Click here to enter text.
☐	**22.**	NASA IT or data access required for the visit (on-site and/or remote): ☐ NA Click here to enter text.
☐	**23.**	How long has the visitor/applicant lived or worked in the U.S? ☐ greater than 3 years ☐ less than 3 years ☐ Never

[41] If the purpose of the foreign national's visit is to perform research for the benefit of NASA, they are usually admitted on an F, H, or J visa. A B1/B2 (business/pleasure) visa or, visiting under the Visa Waiver Program (VWP), are NOT acceptable authorities for purposes of research performed for the benefit of NASA. A complete list of visa type and respective elements for review in included in Appendix B-1.

[42] Per NAII 1600.4, a high-level protocol visit is an event or meeting attend by individuals representing, or delegations of, foreign heads of state or government, ambassadors, heads of foreign government ministries or space agencies.

☐	**24.**	Provide a work description. Include the program(s)/project(s) the person will support and what tasks/technologies that will be involved: Click here to enter text.
☐	**25.**	Foreign National needs to work outside the normal business hours (8 AM to 6 PM) Specify hours and justification. Click here to enter text.
☐	**26.**	Identify export-controlled items included in the project/program ☐ NA Click here to enter text
☐	**27.**	Export-controlled items NASA is required to provide to the foreign national per the agreement or contract? ☐ NA Attach the agreement or contract in IdMAX "Document" tab, if available: Click here to enter text.
☐	**28.**	Means of export or transfer (hand-carry, ship, oral, electronic, emails, etc.): ☐ NA Click here to enter text.
☐	**29.**	Foreign national applicant requires access to EAR or ITAR data. (Requires an export authorization) Coordinate with your export control staff. ☐ NA Attach the corresponding export authorization (license, license exemption, license exception, or No License Required (NLR) in IdMAX "Document" tab, if available. Click here to enter text.
☐	**30.**	Does the applicant require access to missile technology data or ITAR detailed design, development, production, or manufacturing data? ☐ Yes ☐ No If yes, provide DOS license information. Click here to enter text.

Checklist C: Suggested Best Practices for Meetings with Foreign Persons

The best practices in this checklist are applicable to all meetings with foreign persons, but have a specific focus on meetings with foreign persons where EXPORT-CONTROLLED information will be shared. **In the context of hosting a meeting, the NASA host is the single responsible for calling the meeting, setting the agenda, inviting the participants, and ensuring that the meeting complies with NASA policies and procedural requirements.**		
Prior to the meeting, the host is responsible for ensuring that:		
☐	1	The proper export authorization(s) are in place through coordinating with the presenters and ECS
☐	2	The scope of the planned meeting is within the parameters of the export authorization(s) and is communicated to all participants, as necessary
☐	3	All U.S. participants know the authorizations and limitations for the release of export-controlled information Contractors are responsible for ensuring their participation remains within the scope of their export authorization(s)
☐	4	An attendee roster of all foreign person participants has been generated. The roster should include, at minimum: name, nationality(s), and affiliation—all attendees must be accounted for.
☐	5	A full list of foreign national attendees has been provided to the IVC, and approved through IdMAX for both on-site and off-site meetings with foreign persons at least two weeks in advance per NAII 1600.4, sections 2.5 and 3.6.
☐	6	All U.S. participants have been provided a list of all foreign persons and their organizations at least two weeks in advance so they can also evaluate their export authorizations.
☐	7	All required export authorization(s) are evaluated against the list of foreign persons to determine what information can be provided to each individual or organization.
☐	8	Advance notification has been provided to foreign persons if they are not authorized to attend a particular session or an entire meeting; this is for planning purposes and to properly set expectations.
☐	9	All materials for presentations and discussions have been reviewed, approved, and appropriately marked for each of the following types of materials: ▪ Export-controlled materials (reviewed and authorized by the ECS) ▪ STI materials (per the NPR 2200.2C; contact Center STI Manager for guidance)

		▪ Non-STI materials (e.g., using NASA Form 1676; contact ECS for guidance)
☐	10	Someone has been designated to make a record of the meeting.
☐	11	*For meetings with foreign persons conducted via teleconference or video teleconference using platforms such as WebEx, ViTS, Skype, etc.* ☐ This meeting is not a teleconference or video teleconference. Go to Item 12. *Prior to the meeting, the host ensures that:* ☐ There is a trusted agent at each location who will call in and be responsible for identifying and vetting attendees against the requirement(s) and authorization(s). ☐ The name and phone number of each trusted agent has been received by the host. ☐ The trusted agents are provided with written instructions to prevent the unauthorized release of export-controlled information. ☐ Available technology is used to track the names and phone numbers of participants calling in to prevent rogue call-ins. ☐ An ECS representative has been invited to ensure compliance with export control requirements.
While conducting the meeting, the host should ensure that:		
☐	12	All attendees sign the roster (if meeting is held on-site) or conduct a roll call (if meeting is being held remotely) to verify that all present are authorized to attend.
☐	13	At the start of the meeting, participants have been reminded that foreign persons are in the meeting and that all participants should remain within the scope of their respective export authorization(s).
☐	14	Attendees who join after the meeting begins have been approved to attend and sign in. All foreign nationals who join after the meeting begins must be on the approved list and should be announced, as appropriate.
☐	15	Door monitors have been appointed whenever the meeting involves export-controlled information and the meeting size is beyond the capability of the host/sponsor to monitor participants entering and exiting the meeting. Monitors should control physical access as well as telephone access.

☐	16	Walk-on presentation materials are not presented or discussed unless they have been reviewed and approved (See #9).
☐	17	The designated person (or someone) is actually making a record of the meeting.
☐	18	Handouts containing export-controlled information are tightly controlled.
☐	19	Trusted agents generate attendee rosters for the meeting at their locations.
At the conclusion of the meeting, the host should ensure that:		
☐	20	Export-controlled materials (hardcopy or electronic) are not left unattended.
☐	21	Trusted agents forward the rosters to the host/sponsor after the meeting
☐	22	Meeting records are retained; records include: attendee roster, date, time, location, presentation materials, presentation packages, and meeting minutes. The records should list export/release authorizations (by reference if available, e.g. the license, exemption, exception, No Licensed Required (NLR), Technical Assistance Agreement (TAA), NASA Form (NF) 1676, or Export Record numbers).

Checklist D: Guidance for Export Control Review for STI Release

Is the information in a publicly available document that was appropriately released such as NASA directives, NASA technical engineering, or safety standards?	**☐Yes**	**☐ No**
Is the information high-level program schedules, budget information, or organizational information?	☐ Yes	☐ No
Is the information presently in the public domain?[43]	☐ Yes	☐ No
Is the information considered general scientific, mathematical, or engineering principles commonly taught in schools, colleges, and universities?	☐ Yes	☐ No
Is the information considered basic marketing information on function or purpose or general system descriptions?	☐ Yes	☐ No
If you answered "Yes" to any of the above questions, the information does not include export-controlled content. If you answered "No" to all questions, proceed filling out this Checklist.		
Will the information be released to a limited audience via a NASA International Agreements?	☐ Yes	☐ No
Does the information you're reviewing have dissemination restrictions (i.e. For NASA Internal Use Only)?	☐ Yes	☐ No
Does the information concern a "defense article" on the USML or on the MTCR Annex? (See Appendix B-6 for defense articles frequently used by NASA.) **If "Yes", does the document contain technical data related to the defense article?**	☐ Yes ☐ Yes	☐ No ☐ No
Does the information concern an item on the CCL? (See Table 2.) **If "Yes" does the document contain technology related to the commodity?**	☐ Yes	☐ No
If you answered "Yes" to any of the above questions, export-controlled information is present in the material and cannot be fully released.		

[43] Best practice: ECS may document where that information is published or list the previously approved NF-1676 Number.

Checklist E: Commodity Jurisdiction

This checklist is provided to assist program managers provide the CEA information required to complete the DS-4076. The CEA will use this information to compose a Commodity Jurisdiction (CJ) request to DDTC. The following checklist will be used to help export control determine the commodity jurisdiction (ITAR or EAR) and export control classification (USML category or ECCN) of a specific commodity (see 22 CFR §120.4). An export control official will use this determination to provide guidance needed to export the commodity.

Answer the questions about the commodity and provide historical information and realistic projections/predictions as requested. Provide detailed supporting documentation (e.g. technical data sheets, Launch and Return Orbital Data Sheets (LRODS), schematics, diagrams, that describes and explains the functions, purposes, use and features of the commodity. Include a non-technical description of the commodity, functions, purpose, use etc.

Note: If the commodity is in a developmental or prototype stage, answer the questions for the current status of the commodity. Only one commodity may be entered on a checklist; different development stages of commodities require separate checklists. A new checklist is not required when the major characteristics and descriptive information of the commodity or a family of commodities are essentially the same.

Block 5. Commodity Service Information	
☐	Select: end item (i.e. car), component/major (i.e. car frame), component/minor (i.e. car seat), part (i.e. seat buckle), accessory/attachment (i.e. floor mat), software, firmware, services (i.e. performance of oil change), system (components/parts require to perform specific function: i.e. ignition system - to ignite fuel and make car run), information or technical data (i.e. car repair manual) (If none, explain.) Click here to enter text.
☐	Product Name: Click here to enter text.
☐	Model/Version Number (If none, explain.): Click here to enter text.
☐	Part number (If none, explain.): Click here to enter text.
☐	Other identifier: Click here to enter text.

☐	Manufacturer: Click here to enter text.	
☐	Generic description: Click here to enter text.	
Block 6. Additional Commodity Information - Patent Information and Documentation		
☐	Cost per unit (Acquisition cost): Click here to enter text.	
☐Yes	☐ No	Is the commodity the subject of a patent license or provisional patent? If "Yes", describe the status of and Center patent attorney, patent number, if applicable below. Documentation (to be attached) should include: technical information, schematics, drawings, blueprints, training materials, etc. Click here to enter text.
Block 7. Commodity's Use		
☐	Describe in non-technical terms, what it does, how it operates, and the components/system in which it is used and all current uses). Specify if the commodity and any associated information is currently controlled or restricted for public release by the U.S. Government and/or if the commodity and any associated information has been restricted for public release in the past. Click here to enter text.	
Block 8. Special and/or unique characteristics/capabilities.		
☐ Yes	☐ No	Designed to military or intelligence standards or specifications?
☐ Yes	☐ No	Designed for military application?
☐ Yes	☐ No	Special characteristics (i.e. hard points, thermal or infrared signature reduction capability, surveillance or intelligence gathering capability)?

☐ Yes	☐ No	Commercial item modified for military application? If "Yes", how are the two items differentiated? Click here to enter text.
Identify all military applications and military capabilities of the product and equivalent products used for military application: Click here to enter text.		
Provide, in non-technical terms, details of special characteristics (i.e. provide level of technology such as Gen II, Gen III): Click here to enter text.		
Explain if the commodity to be classified is considered specially designed, as defined in the 22 CFR §120.41(a) or §120.41(b). Click here to enter text.		
Block 9. Product Origin – Answer for all current and previous versions.		
☐ Yes	☐ No	Originally designed or developed for a military or intelligence use?
☐ Yes	☐ No	Originally civil and subsequently adapted, configured or modified for a military or intelligence use?
☐ Yes	☐ No	Originally military or intelligence and subsequently adapted, reconfigured or modified for commercial use?
☐ Yes	☐ No	Specifically define the modifications/changes and capabilities removed or added to the commodity. List any differences in form, fit and/or function between the modified and the unmodified versions: Click here to enter text.

Block 10. Status of Product Development		
☐ Yes	☐ No	In development? If "Yes", provide explanation: Click here to enter text.
☐ Yes	☐ No	In use? If "Yes", provide explanation: Click here to enter text.
Block 11. Funding History		
☐U.S. Government agency ☐Foreign government agency ☐US or foreign contractor ☐Self-funded ☐University funded	Select funding source(s) from the list to the left. Include historical, current and potential funding sources. Provide explanation. Include funding source contract or subcontract number and supporting documentation. Click here to enter text.	
Block 12. U.S. and/or foreign availability of <u>identical</u> products **Select none or provide the following information for each foreign source.**		
☐None ☐Manufacturer: Click here to enter text. ☐Model #: Click here to enter text. ☐Explanation/description: Click here to enter text. ☐Supporting documentation attached or link to website provided Click here to enter text.		

Block 13. Sales Information
Provide sales information, include historical, current and projected sales information. Who are the historical, current and potential/prospective customers? (Customer may be internal.) Click here to enter text.

Block 14. Commodity's Export History			
☐ Yes	☐ No	☐ Unknown	Has this commodity been the subject of a prior Commodity Jurisdiction? If "Yes", cite CJ number: Click here to enter text.
☐ Yes	☐ No	☐ Unknown	Has this commodity been exported under a FMS case? If "Yes", cite the Case number: Click here to enter text.

Block 15. ECILD is responsible for the information to be provided in this block.

Block 16. The Center ECS will provide the reason for submitting this CJ request in the space below:
Click here to enter text.

Block 17. Provide Suggested USML CATEGORY or CCL and explanation in the space below:
Click here to enter text.

Block 18. Points of Contact
In the space below, provide points of contact that can clarify what has been provided or that can provide additional information (name, title, organization, phone number, and email). Attach any additional supporting documentation that may deemed useful and list all documents attach them to this request including those that are identified in Block 6. Click here to enter text.

All signatures on this form expressly indicate a request for a commodity jurisdiction determination. The signatures on the form certify to the accuracy and completeness of the information provided and has not knowingly omitted information that could have an impact on the commodity jurisdiction request. Requests will not be considered without all required signatures.

Requestor: Click here to enter text.
Date: Click here to enter a date.

Branch Head: Click here to enter text.
Date: Click here to enter a date.

Center Export Administrator: Click here to enter text.
Date: Click here to enter a date.

Checklist F: Commodity Jurisdiction Guidance for Software

Providing the following information will assist the U.S. Government reviewers in determining the regulatory jurisdiction of the product. In preparing the documentation, of key importance is to describe in detail the purpose, function, and capability of the software source code.	
☐	Identify the Programming Language: Click here to enter text.
☐	Identify the Operation System(s): Click here to enter text.
☐	Identify the percentage of High Level Code and Machine Code: Click here to enter text.
☐	Description of the probable/possible implementation of the product and potential usage in non-technical terms: Click here to enter text.
☐	Commodity Equipment: Provide a full description of the associated commodity/equipment necessary to execute the software as well as technical characteristics of any special purpose, developmental item or non-off-the-shelf commodity: Click here to enter text.
☐	Software Structure: Provide a top-level flowchart of the software architecture. Describe the software structure in terms of partitioning or modularity. Are the algorithms contained in one distinguishable portion while data is contained in another? Can the two be separated? Click here to enter text.
☐	How much firmware is involved? Click here to enter text.
☐	Associated Software: To what extent does the software rely on other systems' software to exchange data? Does this reliance provide a window into the other programs? Click here to enter text.
☐	Does the software contain, and/or is it based on, open-source software or software code? Click here to enter text.

☐	Does the proposed software release involve software or related documentation pertaining to any defense systems? Click here to enter text.
☐	Are same or similar software products available from foreign or domestic, commercial or government sources? Click here to enter text.
☐	Identify the specific information contained in the documentation this is proposed for transfer and the specific end-user(s) and end-uses for the documentation: Click here to enter text.
☐	Does the product or any of its components perform information security functions? Click here to enter text.

Checklist G: ITAR License Application

The DDTC License application form – The form should be completed electronically using the DDTC published guidelines for the particular type of license that is required for the transaction (DSP-5 for permanent export, DSP-73 for temporary export, or DSP-61 for temporary import). The published guidelines on the DOS website provide detailed block-by-block information on how to complete the required license application form.	
A draft cover letter explaining the reason for the license application to include: the entities/organizations and countries who are participant in the transaction, and the specific reason for the transaction, such as an International Agreement or a contractual requirement.	
☐	Verify that you are using the most current form from the DOS website.
☐	Non-Technical description of the hardware, technical data, or software that is to be exported
☐	Description of entities/organizations and countries who are participant in the transaction
☐	Specific reason for the transaction, such as an IA or a contractual requirement.
A one-page technical description of each commodity line item to be exported;	
☐	If the commodity is hardware, a picture or a drawing is required as a PDF attachment.
☐	When multiple items are to be exported, attach supporting technical data sheets and pictures/drawings for each item in the same order that they are listed as line items in the license application, and title these attachments with the same line item name that is used in the license application.
☐ Copies of any Domestic or International SAAs	

☐ Any other relevant documents or briefings that describe the transaction, the item, program or the intended outcomes.

Checklist H: EAR License Application

A draft one-page letter of explanation provided as an Microsoft Word document with specific license application information to include:	
☐	A non-technical brief to describe the export transaction, involved parties, locations, the dollar value and when it must be exported with an explanation of why
☐	An impact statement that explains the ramifications if the export transaction does not occur or if it does not occur when planned
Shipping information about the transaction and the parties involved:	
☐	All expected or likely port(s) of exit
☐	Intermediate Consignee(s): the name and address of each organization, and a point of contact with phone number, that will be involved the movement of the items to be exported (both domestic and foreign)
☐	Ultimate Consignee name and address
☐	End-user name and address
☐	A complete and detailed description of the end-use intended by the ultimate consignee/and or end-user(s) and identify any countries for which reexport is requested
Detailed information about each of the items that will be transferred:	
☐	ECCN of the item to be exported with documentation of how it was made
☐	Composite Theoretical Performance (CTP) – Enter the Adjusted Peak Performance (APP) if the item is a digital computer or equipment containing a computer. If this the item is not and does not contain a computer, enter “N/A” for not applicable. Model Number – Enter the model number of the item to be transferred.
☐	Commodity Classifcation Automated Tracking System (CCATS) Number: If the item previously received a commodity classification determination from BIS, provide the CCATS number shown on the classification issued by BIS. If there has been no known BIS classification enter “N/A”.
☐	Quantity: Identify the number of items to be exported or reexported.

☐	Units: A unit of issue that is commonly used in trade such as “each, dozen, gallons, pounds, etc.”
☐	Unit Price: Provide the acquisition cost or fair market value of the item to be exported rounded to the nearest whole dollar amount. Provide exact unit price only if the value is less than $0.50. For example, if the unit price is $0.45, write $0.45 as the unit price. If the unit price is $0.65, round up to one dollar.
☐	Total Price: The unit price times the quantity to be exported.
☐	Manufacturer: Provide the name only of the manufacturer, if known, otherwise, enter “Unknown.”
☐	Technical Description: Provide a brief, non-technical, one-sentence or phrase that describes this item.
☐ Attach a technical datasheet for each line item that is to be exported to explain the purpose of the item and detailed information, such as physical dimensions, weight, and key operating characteristics. The data sheet should generally not exceed one page and should be provided in Microsoft Word format to allow any minor edits.	
☐ Supporting technical data sheets and pictures/drawings for each item in the same order listed as line items in the license application. Title these attachments with the same line item name that is used in the license application so the reviewer can identify technical data sheets and pictures/technical data with each line item.	
☐ The CEA collects the required information, provides a draft cover letter, and gathers additional documentation to submit to ECILD. The package is reviewed and edited by ECILD and, if necessary, is returned to the CEA to coordinate changes with the Requestor prior to final submission. Once the review is completed and both the CEA and HEA have approved the license application package, it is submitted to DOC. Typically, it takes 30-45 days for DOC BIS to respond to a license application request.	

Checklist I: AES Filing Requirement Determination

If you mark "Yes" to any of the below options, AES filing is required:		
EAR Requirements (15 CFR §758.1 (b))) (1) For all exports of items subject to the EAR that are destined to a country in Country Group E:1 of Supplement No. 1 to Part 740 of the EAR regardless of value;	☐ Yes	☐ No
(2) For all exports subject to the EAR that require submission of a license application, regardless of value or destination;	☐ Yes	☐ No
(3) For all exports of 9x515 or "600 series" items enumerated or otherwise described in paragraphs .a through .x of a 9x515 or "600 series" ECCN regardless of value or destination, including exports to Canada;	☐ Yes	☐ No
(4) For all exports under license exception Strategic Trade Authorization (STA);	☐ Yes	☐ No
(5) For all exports of commodities and mass market software subject to the EAR when the value of the commodities or mass market software classified under a single Schedule B Number (or Harmonized Tariff Schedule (HTS)) is over $2,500, except as exempted by the Foreign Trade Regulations (FTR) in 15 CFR §30 and referenced in paragraph (c) of this section;	☐ Yes	☐ No
(6) For all exports of items subject to the EAR that will be transshipped through Canada to a third destination, where the export would require EEI or license if shipped directly to the final destination from the United States (see 15 CFR 30.36(b)(2) of the FTR);	☐ Yes	☐ No

(7) For all items exported under authorization Validated End-User (VEU); or	☐ Yes	☐ No
(8) For all exports of tangible items subject to the EAR where parties to the transaction, as described in §748.5(d) through (f) of the EAR, are listed on the Unverified List (supplement 6 to part 744 of the EAR), regardless of value or destination.	☐ Yes	☐ No
(9) For items that fall under ECCNs that list CC Column 1 and 3 and RS Column 2 (see supplement no. 1 to part 738 of the EAR) as reasons for control and such items are for export, regardless of value, to India.	☐ Yes	☐ No
For shipments under EAR exceptions, excluding EAR license exception BAG and TMP (FTR §30.2(a)(iv) (B-G)):		
(B) Requiring a DOS, DDTC license under the ITAR	☐ Yes	☐ No
(C) Subject to the ITAR, but exempt from license requirements.	☐ Yes	☐ No
(D) Requiring a Department of Justice, Drug Enforcement Administration (DEA) export permit (21 CFR 1312).	☐ Yes	☐ No
(E) Destined for a country listed in Country Group E: 1 as set forth in Supplement 1 to 15 CFR 740.	☐ Yes	☐ No
(F) Requiring an export license issued by any other federal Government agency.	☐ Yes	☐ No
(G) Classified as rough diamonds under 6-digit HS subheadings 7102.10, 7102.21, and 7102.31	☐ Yes	☐ No
If value is greater than $2500 per Schedule B, licensable or non-licensable (FTR §30.37(a))	☐ Yes	☐ No
Shipment to Puerto Rico or to U.S. Virgin Islands (FTR §30.2)	☐ Yes	☐ No
See below for examples of situations when AES filing is probably not required; this not an exhaustive list and Customs reserves the right to require AES filing for items that don't normally require AES filing:		

Miscellaneous Exemptions (See FTR 30.37)	☐ Yes	☐ No
Special exemptions for shipments to the U.S. Armed Services (See FTR 30.39)	☐ Yes	☐ No
Special exemptions for certain shipments to U.S. government agencies and employees (See FTR 30.40)	☐ Yes	☐ No
Below $2500 per Schedule B, if not subject to an ITAR / EAR export license	☐ Yes	☐ No
Export of technical data and defense service under the ITAR DSP-5 license, Technical Assistance Agreement or TAA exemption, but must report electronically directly to DDTC in accordance with 22 CFR §123.22(b)(3)(iii).	☐ Yes	☐ No
Shipping to Canada, if not subject to an ITAR / EAR export license or is EAR / ITAR controlled but exempt from licensing, excluding all 500 and 600 series items in the CCL (FTR §30.36).	☐ Yes	☐ No
For EAR Shipments exempt from AES Filing see 15 CFR 758.1(c):		
(1) License Exception Baggage (BAG), as set forth in §740.14 of the EAR. See 15 CFR 30.37(x) of the FTR;	☐ Yes	☐ No
(2) License Exception Gift Parcels and Humanitarian Donations (GFT), as set forth in §740.12 of the EAR. See 15 CFR 30.37(h) of the FTR;	☐ Yes	☐ No
(3) License Exception Aircraft and Vessels (AVS), as set forth in §740.15 of the EAR. See 15 CFR 30.37(o) (5) of the FTR;	☐ Yes	☐ No
(4) License Exception Governments and International Organizations (GOV), as set forth in §740.11 of the EAR. See 15 CFR 30.39 and 30.40 of the FTR;	☐ Yes	☐ No
(5) License Exception Technology and Software under Restriction (TSR), as set forth in §740.6 of the EAR. See 15 CFR 30.37(f) of the FTR; or	☐ Yes	☐ No

(6) License Exception Temporary Imports, Exports, and Reexports (TMP) “tools of trade”, as set forth in §740.9(a) (1) of the EAR. See 15 CFR 30.37(b) of the FTR.	☐ Yes	☐ No

Checklist J: AES Filing Requirements

Shipping Ref#:

Definitions:

- **End-user**: Ultimate Consignee: Party who will take final possession and use of the materials.
- **Foreign Consignee**: Party who will take possession, but not necessarily user of the materials (e.g. foreign purchaser).
- **Intermediate Consignee**: Party who will take possession in behalf of the purchase or end-user.
- **Routed Transaction**: A transaction in which the Foreign Principal Party of Interest (FPPI) authorizes a U.S. agent to facilitate the export of the terms from the U.S. and to prepare and file EEI through AES, in accordance with FTR 30.3(e). Written consent or Power from Attorney (POA) from the FPPI is required.

NOTES:

- AES "FATAL ERROR" must be corrected or suppressed out of AES before export.
- Shipment Reference Numbers are unique and may only be used once. Never use the same Shipment Reference Number (one time use only, even for those AES filings that have already been deleted).
- SCAC / IATA Codes are carrier codes (Airline/Vessel/Ground Transporter). They are not Freight Forwarder codes.
- The "Country of Destination" in the AES must always reflect the country of the "Ultimate Consignee" which is the "End-user" on the license.
- The "Intermediate Consignee" on the AES must always reflect the "Intermediate Consignee" noted on the license, unless the intermediate consignee on the license is N/A and there is a "Foreign Consignee" on the license, then you must declare the Foreign Consignee as the intermediate.

Checklist J: AES Filing Requirements		
Are you using the correct FTR AES exemption?	☐ Yes	☐ No
Did you annotate your customs invoice, airway bill, or bill of lading with the FTR exemption?	☐ Yes	☐ No
If you answered "Yes" to both questions above, your shipment is exempt from AES filing; sign the bottom of this form and attach it to the shipping form. If you answered "No" to either of the above questions, proceed to fill out the rest of this this checklist.		
1. Is this shipping on a DSP-5 export license? If "Yes", fill out the questions following and proceed to sections 5 and 6. If "No", continue to section 2.	☐ Yes	☐ No
Are the parties to the transaction on the license (forwarder/carrier, consignees)?	☐ Yes	☐ No
Has the license been lodged with customs?	☐ Yes	☐ No
Is the remaining value on the license enough to cover export?	☐ Yes	☐ No
Is the license still valid (not expired or exhausted)?	☐ Yes	☐ No
Is the departure date correct?	☐ Yes	☐ No
Is this shipping via Freight Forwarder and is the Forwarder on the license? If "Yes", did you identify the forwarder in the AES filing?	☐ Yes ☐ Yes	☐ No ☐ No
Did you select the correct "Export Code" and "License Type"?	☐ Yes	☐ No
Do you have the correct Schedule B?	☐ Yes	☐ No
Is the USML category correct?	☐ Yes	☐ No
If this is Significant Military Equipment (SME)? If so, did you identify this in the AES filing?	☐ Yes	☐ No
Did you update the license defragmentation spreadsheet?	☐ Yes	☐ No
2. Is this shipment a DSP-73? If "Yes", fill out the questions following and proceed to sections 5 and 6. If "No", proceed to section 3.	☐ Yes	☐ No

Did you provide the carrier/forwarder with a copy of the license to be deposited, decremented and endorsed by USCBP prior to exit and entry?	☐ Yes	☐ No
Are the parties to the transaction on the license (forwarder/carrier, consignees)?	☐ Yes	☐ No
Is the remaining value on the license enough to cover export?	☐ Yes	☐ No
Is the license still valid (not expired or exhausted)?	☐ Yes	☐ No
Did you select the correct "Export Code" and "License Type"?	☐ Yes	☐ No
Is this shipping via Freight Forwarder and is the Forwarder on the license? If so, did you identify the Forwarder in the AES filing?	☐ Yes ☐ Yes	☐ No ☐ No
Is the departure date correct?	☐ Yes	☐ No
Do you have the correct Schedule B?	☐ Yes	☐ No
Is the USML category correct?	☐ Yes	☐ No
If this is SME? If so, did you identify this in the AES filing?	☐ Yes	☐ No
Have you received a copy of the license from the carrier/forwarder decremented and endorsed by USCBP (see back of license)?	☐ Yes	☐ No
Did you update the license defragmentation spreadsheet?	☐ Yes	☐ No
3. Is this shipping under an EAR exception or ITAR Exemption? If "Yes", fill out the questions following and proceed to sections 5 and 6. If "No", continue to section 4.	☐ Yes	☐ No
Are you using the correction Exemption or Exception?	☐ Yes	☐ No
Do you have the correct ECCN or USML category?	☐ Yes	☐ No
Do you have the correct Schedule B?	☐ Yes	☐ No
Did you select the correct "Export Code" and "License Type"?	☐ Yes	☐ No
Is the departure date correct?	☐ Yes	☐ No

Did you identify the correct Export Port?	☐ Yes	☐ No
If using a freight forwarder, did you identify the forwarder in AES?	☐ Yes	☐ No
If using a freight forwarder, did you identify the forwarder in AES?	☐ Yes	☐ No
4. Is this shipping a "No License Required" and greater than $2500 per Schedule B? If "Yes", fill out the questions following and proceed to sections 5 and 6. If "No", review the previous sections and make sure your item is either a DSP-5, DSP-73, EAR Exception/ITAR Exemption.	☐ Yes	☐ No
Are you filing your AES per individual Schedule B and ECCN or USML Category?	☐ Yes	☐ No
Do you have the correct ECCN?	☐ Yes	☐ No
Do you have the correct Schedule B?	☐ Yes	☐ No
Is the value correct?	☐ Yes	☐ No
Did you identify the correct "Export Code" and "License Type"?	☐ Yes	☐ No
Is the departure date correct?	☐ Yes	☐ No
Did you identify the correct export port?	☐ Yes	☐ No
If using a freight forwarder, did you identify the forwarder in AES?	☐ Yes	☐ No
5. Did you file AES within the necessary timelines as required by the method of transportation? For example, for Sea or rail Shipments, the export information must be electronically filed at least 24 hours prior to departure for all ITAR controlled shipments. See Section 3.4.	☐ Yes	☐ No
6. If all the relevant white boxes have been checked "Yes" (grey boxes can be checked "no") for your specific shipment,	☐ Yes	☐ No

sign and date below. Attach this checklist to the shipping form.		

Filer Name: Click here to enter text.

Date: Click here to enter a date.

Checklist K: 126.4 – Transfers By or For the U.S. Government

Updated November 2020

Instructions: **1. Please record all responses on this checklist in red text.** **2. Attach all relevant and supporting documents to the end of the checklist (instruction provided) OR include them in the email with the checklist.** **3. Review this checklist in its entirety prior to using. In general, license exemption 22 CFR 126.4 can be used for NASA programs/projects which have a valid international agreement and/or contract in place and is intended solely for the official use of NASA.** **4. The approver must carefully review the current ITAR before issuing the approval to use either the 22 CFR 126.4(a) 126.4(b), or 126.4(c) exemptions.** **5. If the CEA/ACEA has any concerns, contact the HEA prior to submitting this checklist to the HEA or approving use of the 22 CFR 126.4(a), 126.4(b), or 126.4(c) exemption, if an HEA delegation is in place.** **6. The exemption in paragraph 22 CFR 126.4(a) does not apply when a USG department or agency acts as a transmittal agent on behalf of a private individual or firm, either as a convenience or in satisfaction of security requirements (see 22 CFR 126.4(a)(6)) (i.e., NASA must have a valid requirement, such as a valid agreement/contract and the export must be both required and within the scope of the agreement/contract).** **7. A license is not required to return items to the U.S., that were exported under the 22 CFR 126.4 exemption, as long as they were not reexported or retransferred to anyone and they are returned to:** **• A department or agency of the USG or** **• The person who exported the item. (See 22 CFR 126.4(c))** **8. For exports shipped by means other than U.S. diplomatic pouch, or USG aircraft, vehicle, or vessel, or electronically via an approved IT method, an Electronic Export Information (EEI) filing must be submitted to U.S. Customs and Border Protection (CBP) using its electronic system(s) at the time of export, unless electronic submission is unavailable, in which case CBP or DOD transmittal authority will issue instructions (See 22 CFR 126.4(e)).** **9. Prior to any change in authorized end-use or end-users of defense articles transferred under this authority, the approval of the Directorate of Defense Trade Controls through a license or other approval is required (See 22 CFR 126.4(f)), unless the defense articles/services are subject to the terms of 22 CFR 126.4(a)(1) and 22 CFR 126.4(a)(3)** **10. Generally, license exemptions 22 CFR 126.4(a) and 126.4(b) are not available if any of the following apply to the items to be exported (The HEA approval is required for use of 22 CFR 126.4, if any of these conditions apply):**	**For all completing this Checklist**

	• **Embargoed/sanctioned countries (e.g., 22 CFR 126.1 countries) are involved in the transaction, even if they are in a contractual relationship with the U.S. Government (also see 22 CFR 126.4(d)).** • **Missile Technology Control Regime (MTCR) items (22 CFR 120.29) or the USML entries for these items are annotated with a "MT" (also see 22 CFR 126.4(a)(5)).** • **Significant Military Equipment (SME) (22 CFR 120.7)** • **Ineligible entities (e.g., 127.1(d)(2)) (i.e. Denial Screening Check)** • **Classified articles and/or classified services are involved (compliance with NISPOM regulations is mandatory)**	
1	a. Short Descriptive Title of Request: Click here to enter text. b. Center: Choose an item. c. Name of CEA/ACEA: Click here to enter text. d. Date of Request: Click here to enter a date. e. Expected Ship Date(s): Click here to enter a date. f. Expected Return Date (leave blank if not being returned): Click here to enter a date. g. Program/Project (No acronyms): Click here to enter text. h. Requestor's Name and Office Symbol/Code: Click here to enter text. i. Requestor's Email Address: Click here to enter text. j. Requestor's Phone Number: Click here to enter text.	For completion by Requestor
2	Detailed Description: a. Technical description of each commodity: Click here to enter text. b. Classification (i.e., category and sub-category): Click here to enter text. c. Unit price, quantity and total value of each line item OR attach spreadsheet: Click here to enter text. d. All foreign destinations with addresses: Click here to enter text. e. All end-uses: Click here to enter text. f. All end-users, with addresses: Click here to enter text. g. Valid International Agreement, if required for use of 22 CFR 126.4(a) or (b): Click here to enter name, date and relevant page number(s) showing requirement to export. h. Valid contract, if required for use of 22 CFR 126.4(a) or (b): Click here to enter name, contract number, date, and relevant page number(s) showing requirement to export. i. Provide the NASA mission-related reason for taking these items out of the country (e.g., to support international agreement, foreign travel/deployment by	

	NASA employee(s) to support a NASA-related mission, etc.): Click here to enter text.	
3	List all U.S. and foreign parties to the transaction that are not listed in section 2). Click here to enter text. Do all U.S. and foreign parties to the transaction pass the list checks? (e.g., Denial Screening Check) ☐ Yes ☐ No (If No, use of an exemption may not be authorized. Notify the CEA/ACEA.)	
4	4. Enter the 22 CFR 126.4 authorization(s) for which approval is being sought and complete the relevant steps only for the selected authorization(s) in this section: ☐ 22CFR 126.4(a) ☐ 22CFR 126.4(b) ☐ 22CFR 126.4(c) 4a.Are you requesting use of the 22 CFR 126.4(a)(1) authorization for the export, reexport, retransfer, or temporary import a defense article or the performance of a defense service? ☐ Yes ☐ No If yes, answer the questions below, by checking the appropriate boxes, then attach documents as indicated and appropriate. i. Is the transaction by NASA employees acting within their official capacity? ☐ Yes ☐ No If yes, ensure name(s), affiliation(s), & contact information is Section 2/3 above) OR ii. Will the transaction be by a person or entity with a NASA contractual relationship that meets the conditions of either A & B or C below? ☐ Yes ☐ No [If "Yes," attach the applicable page(s) of the authorizing document, highlighting the portions relevant to the transaction]: Click here to indicate the document name and date. A. It is within a USG-controlled facility [enter name and address of facility]: Click here to enter name and date. And B. A NASA employee will ensure that defense articles are not diverted and that the exported defense articles will only be used within the scope of the contract: [enter name, title, work address and contact information for employee]: Click here to enter information. 4b. Are you requesting use of 22 CFR 126.4(a)(2) for the export, reexport, retransfer, or temporary import a defense article or the performance of a defense service, as a USG agency for carrying out any cooperative project, program or other activity in furtherance of an agreement or arrangement that provides for transfers under? ☐ Yes ☐ No	

If yes, check the appropriate boxes below and attach the applicable documents [include at a minimum cover page, signatory page, and relevant excerpts of applicable highlighted content].

i. ☐ This is pursuant to a binding international agreement to which the United States or any agency thereof is a party.

ii. ☐ This is pursuant to an arrangement with international partners authorized by Title 10 or 22 of the USC or pertinent National Defense Authorization Act provisions.

4c. Are you requesting use of 22 CFR 126.4(a)(3) for the export, reexport, retransfer, or temporary import a defense article or the performance of a defense service, as a USG agency for carrying out any foreign assistance or sales program authorized by law (i.e., statute) and subject to controls by the President by other means? ☐ Yes ☐ No If yes, attach the applicable supporting documentation [at a minimum, include the complete statute citation, and relevant excerpts from the statute. Additionally, identify the program or contract requirement activities that are authorized by the cited statute.]

4d. Are you requesting use of 22 CFR 126.4(a)(4) for the export, reexport, retransfer, or temporary import a defense article or the performance of a defense service, for any other security cooperation programs and activities of the Department of Defense authorized by law and subject to controls by the President by other means?

☐ Yes ☐ No

If yes, attach the applicable supporting documentation [include at a minimum cover page, signatory page, and excerpts of applicable content]. Use this link 22 CFR 126.4(a) (4)(i) to see clarifying information for use of this authorization.

In accordance with 22 CFR 126.4(a)(4)(ii), prior to transfer using this specific authorization, signed end-use and retransfer assurances from the foreign party are required to verify that the recipient is aware of and will comply with DDTC requirements in paragraph 22 CFR 126.4(f).

4e. Are you requesting use of the 22 CFR 126.4(b) authorization on behalf of NASA, for the export, reexport, retransfer, or temporary import of a defense article, or the performance of a defense service? ☐ Yes ☐ No

If yes,

i. Enter valid DDTC Registration Code for entity making the transfer on behalf of NASA: Click here to enter text.

	ii. And check the appropriate box below to indicate for whom the transfer will be conducted: ☐ To a USG department or agency at its request (22 CFR 126.4(b)(1)). [Enter Name, Title, Organization, and address of USG person making the request. Attach the USG written justification for NASA urgent export authorization requirement. Justification must include mission, item(s), export classification, destination, required delivery date and end-user]: Click here to enter information; or ☐ To an entity other than the USG at the written direction of a USG department/agency, or pursuant to an agreement/arrangement for an activity authorized for that USG activity in paragraphs 22 CFR 126.4(a)(1) through (4) (22 CFR 126.4(b)(2)). If checked, submit this completed checklist and attach the detailed export-controlled information regarding the transaction(s) in Section 15 of this checklist, format as indicated in NAII 2190.1 Appendix B-9: Part Two. 4f. Are you requesting use of the 22 CFR 126.4(c) for the return of a defense article to the United States which was exported pursuant to this section and not subsequently reexported, or transferred other than to a USG department or agency; or the person who exported the item? ☐ Yes ☐ No If yes, proceed with the authorization. If no, another authorization is required.	
5	To the best of my knowledge, all the federal regulatory conditions required for use of the (check one) ☐ 22 CFR 126.4(a) ☐ 22 CFR 126.4(b) ☐ 22 CFR 126.4(c) exception have been successfully met: ☐ Yes ☐ No If no, explain what is needed and notify the requestor that action on the request is suspended pending receipt of the required information: Click here to enter text.	For completion by the CEA/ACEA
6	22 CFR **126.4** must be carefully reviewed. Review the Mandatory Provisos section of this checklist; remove any inappropriate provisos and add any provisos associated with the specific circumstances under which 22 CFR 126.4 is being used.	
7	**Mandatory Provisos:** *Note: The Requestor must comply with the provisos below to use this export authorization.*	For Request or

1. No transfer of title is authorized to occur during the period of temporary export from the U.S. and access to the defense article by foreign persons shall only be in accordance with and for the purpose identified in this approval.

2. The approval of the Directorate of Defense Trade Controls must be obtained before defense articles previously exported pursuant to this exemption are permanently transferred (e.g., property disposal of surplus defense articles overseas) unless the transfer is pursuant to a grant, sale, lease, loan, or cooperative project under the Arms Export Control Act or a sale, lease, or loan under the Foreign Assistance Act of 1961, as amended, or the defense articles have been rendered useless for military purposes beyond the possibility of restoration.

3. If the shipment or hand carry goes through a port:

   a. In accordance with 22 CFR 126.4(e), an Electronic Export Information (EEI) filing must be submitted to U.S. Customs and Border Protection (CBP) using its electronic system(s) prior to the export, unless EEI filings are exempted or not available, such as when the exports are shipped by U.S. diplomatic pouch, or USG aircraft, vehicle, or vessel or electronically via an approved IT method.

   b. Place a Destination Control Statement on all commercial invoices

   c. The Requestor must:
      i. Notify transportation that this shipment requires an EEI or Automated Export System (AES) filing transaction,
      ii. Request a copy of the EEI/AES filing document from transportation or request an ITN number, and
      iii. Forward a copy to the Center's Export Control Staff or provide them the ITN number.

4. Records of transactions involving exports must be maintained for a minimum of five years after the last transaction involving this use of the 22 CFR 126.4 exemption. This proviso corresponds to requirements in 22 CFR **122.5** and 22 CFR **123.26**. As the requestor, you must maintain, in official project/program files, the following information for each shipment/hand carry:
   a. Copy of the approved 22 CFR 126.4 checklist;
   b. Written rationale for the jurisdiction/classification determinations of the items covered by this checklist;
   c. The method of transmission; and

	d. A library of all the technology that was exported under this specific authorization. 5. Prior to the shipment or hand carry of ITAR technical data through a U.S. port, you must include a letter, signed by the approver of this checklist, with the shipment or hand carry. Contact your CEA as soon as details of the shipment or hand carry become clear to ensure you will have the signed letter in time. The CEA will e-mail the details and a copy of this signed 22 CFR 126.4 checklist (if approval was done by the CEA) and the draft notification letter to DDTC. The HEA will review and sign the letter to DDTC that will accompany the shipment or hand carry. This proviso corresponds to requirements in 22 CFR **123.22(b)(3)(iii).** 6. When requested by the HEA, the Requestor/Requestor's office must be able to provide, through the CEA, all of the records, required to be maintained by this checklist, within one business day of being requested. **HEA/CEA/ACEA Additional Provisos / Conditions** (Use the next consecutive number from above for additional provisos; If none, state: "No additional provisos"): Click here to enter text.	
8	☐ **Center Approver has delegated HEA authority** ☐ **Requesting HEA approval for use of 126.4 for a period of _____ from HEA approval date. [Enter the desired authorization validity period (e.g., 90 days, 6 months, or 1, 2, 3, or 4 years)]** ☐ **Requesting delegated authority for use of 126.4** (Provide the justification for delegation of authority and clearly define the scope of your request.)	For completion by CEA/ACEA
9	*Before submitting or signing, please ensure all required documents are attached to the completed checklist.* A request determination is complete when the request is marked approved or not approved and if electronic signature and date are completed by the HEA or Delegated CEA/ACEA Approver. If not approved, an explanation will be provided. ☐ Approved ☐ Not Approved *(If checked, provide explanation)* Click here to enter text.	For HEA or Delegated CEA/ACEA Approver

	X Export Administrator **Date Approved** Select date Delegation is authorized if a name is entered into the following statement, the HEA electronic signature is present, and the date of delegation is completed. HEA Delegates Authority to CEA/ACEA Click to enter name of CEA/ACEA for use of 22 CFR 126.4. [126.4(b) authority is not delegated] X Export Administrator **Date of Delegation** Select date.	
10	**Required Post-Approval:** Requestor must record these dates and notify the Approver (HEA/CEA/ACEA) if the return date is not met. **Enter Actual Ship Date(s)** Click here to enter a date. **If an AES filing is listed as a Mandatory Proviso, enter the AES number(s) and date(s) of the filing:** **AES number(s):** Click here to enter text. **Date of AES filing(s):** Click here to enter a date. **Enter Actual Return Date(s):** Click here to enter a date.	For completion by Requestor
Post- Approval Notifications to HEA, if required		

11	☐	Execute this step when **any controlled item that was temporarily *exported* under 22 CFR 126.4 will not return to the United States within the time period (4 years) OR it has not returned to the U.S. within 3 years and 8 months of its export.** a. Within five days after a NASA person finds out that a controlled item will not be returned to the U.S., as required, they will notify the CEA/ACEA in writing.	For completion by Requestor, if applicable
		b. In turn, the CEA/ACEA "immediately" notifies the HEA in writing (e.g. e-mail) that not all the temporarily exported items will return to the United States as required or they have yet to return with 3 years, 8 months of its export. The CEA/ACEA includes the Control Number, along with a listing of the items that will not return and why they could not be returned IAW with the authorization. Date CEA/ACEA was notified: Click here to enter a date. Date HEA was notified in writing: Click here to enter a date.	For completion by CEA/ACEA, if applicable
12	☐	Execute this step when **any controlled item that was temporarily *imported* under 22 CFR 126.4 will not return within the time period (4 years).** a. Within five days after a NASA person finds out that the controlled item will not be returned as required, they will notify the CEA/ACEA in writing.	For completion by Requestor, if
		b. In turn, the CEA/ACEA "immediately" notifies the HEA in writing (e.g. e-mail) that not all the temporarily imported items will return as required. The CEA/ACEA includes the Control Number, along with a listing of the items that will not return and why they could not be returned IAW with the authorization. Date CEA/ACEA was notified: Click here to enter a date. Date HEA was notified in writing: Click here to enter a date.	For completion by CEA/ACEA, if applicable

13	☐	Execute this step when **either a regulatory violation or a violation of the approval conditions is discovered by a NASA person pertaining to the use of an export authorization.** a. "Immediately" after a NASA person discovers a regulatory violation or a violation of the approval conditions pertaining to the use of an export authorization, they will notify the CEA/ACEA in writing of the nature of the violation, along with relevant details.	For completion by Requestor, if applicable
		b. In turn, the CEA/ACEA will "immediately" notify the HEA in writing (e.g. e-mail) of the nature of the violation, which includes relevant details. The CEA/ACEA includes the Control Number in the notification. Date CEA/ACEA was notified: Click here to enter a date. Date HEA was notified in writing: Click here to enter a date.	For completion by CEA/ACEA, if applicable
14		Date Case Closed (Transaction is complete and all ITAR and NASA Requirements were met and completed, and documentation is on file.): Click here to enter a date. Closure Comments: Click here to enter text. **This CEA/ACEA signature signifies the case was properly closed:** X _____	For completion by CEA/ACEA, if applicable
15		**Please attach all relevant documents below (PDF format is preferred):** Drag the desired files to the space below OR **Insert** > **Object** > **Create from File** > **Browse** > Select your file *Note: Ensure that "Link to file" is unchecked, "Display as icon" is checked* Number of Attachments: Click here to enter text	

Checklist L: TMP 740.9 – Temporary imports, exports, reexports, and transfers (in-country)

Updated November 2020

Instructions: 1. **Please record all responses on this checklist in red text.** 2. **Attach all relevant and supporting documents to the end of the checklist (instruction provided) OR include them in the email with the checklist.** 3. **Review License Exception TMP 740.9 (hereafter referred to as the TMP Exception or TMP) and this checklist in its entirety prior to using.** 4. **With few exceptions, all items exported, reexported, or transferred (in-country) under TMP, if not consumed or destroyed in the normal course of authorized temporary use abroad, must be returned to the United States or other country from which the items were so transferred as soon as practicable but no later than one year after the date of export, reexport, or transfer (in-country).** 5. **If the CEA/ACEA has any concerns, contact the HEA prior to submitting this checklist to the HEA or approving use of the TMP exception, if an HEA delegation is in place.** 6. **In general, license exception TMP 740.9 is not available, if any of the following apply to the items to be exported:** • If the item will be outside the United States beyond one year, • Exports, Reexports, and Transfers to Country Group E:1 or 15 CFR 746 sanctioned countries, • 9x515 or "600 series" items to Country Group D:5, • ECCNs controlled for Missile Technology (MT) reasons, see 15 CFR 742.5, • Ineligible parties identified during list checks (i.e. Denial Screening Check)		**For all personnel completing this Checklist**
1	a. Short Descriptive Title of Request: Click here to enter text. b. Center: Choose an item. c. Name of CEA/ACEA: Click here to enter text. d. Date of Request: Click here to enter a date. e. Expected Ship Date: Click here to enter a date. f. Expected Return Date, if applicable: Click here to enter a date. g. Program/Project (No acronyms): Click here to enter text. h. Requestor's Name and Office Symbol/Code: Click here to enter text. i. Requestor's Email Address: Click here to enter text. j. Requestor's Phone Number: Click here to enter text.	For completion by Requestor

2	Detailed Description: a. Technical description of each commodity: Click here to enter text. b. Classification of each commodity: Click here to enter text. c. Unit price, quantity and total value of each line item OR attach spreadsheet: Click here to enter text. d. All foreign destinations with addresses: Click here to enter text. e. All end-uses: Click here to enter text. f. All end-users (if any), with addresses: Click here to enter text. g. Provide the NASA mission-related reason for taking these items out of the country (e.g., to support international agreement, foreign travel/deployment by NASA employee(s) to support a NASA-related mission, etc.): Click here to enter text.	
3	**Which subparagraph of the TMP exception will be used (check all that apply):** ☐ **740.9(a) Temporary Export, Reexports, Transfer (in-country):** ☐ (1) Tools of the trade (5A992.c Laptops/Smart Phones and 5D992 pre-bundled software only (e.g, MS Office Suites)) ☐ (3) Technology under the "effective control" and for use by NASA employees/contractors ☐ (4) Kits consisting of one-for-one replacement parts or components ☐ (5) Commodities and software for exhibition and demonstration for 120 days or less ☐ (6) Commodities to be inspected, tested, calibrated, and repaired abroad ☐ (7) Containers for which another license exception is not available and that are necessary for shipment of commodities ☐ Other subparagraph in TMP: Click here to enter text. ☐ **740.9(b) Exports of items temporarily in the United States:** ☐ (1) Items moving in transit through the U.S. ☐ (3) Return of foreign origin items ☐ Other subparagraph in TMP: Click here to enter text.	
4	Is the total value of any individual item (unit price x quantity) over $2,500.00? ☐ Yes ☐ No If 'Yes', an AES filing may be required. (Note: (1) Tools of trade does not require an AES filing based on $2,500.00 value.)	
5	List all U.S. and foreign parties to the transaction. Click here to enter text. Do all parties to the transaction pass the list checks? (e.g., Denial Screening Check) ☐ Yes ☐ No	

	(If No, use of an exception may not be authorized. Notify the CEA/ACEA.)	
6	Are you requesting the use of TMP to export a commodity that is to remain under the effective control of a NASA person for the duration? Note: If the request to use TMP is to export technology or software, describe additional safeguards that will be used to protect it from unauthorized access. (e.g., use of passwords, VPNs, firewalls, etc.) ☐ Yes ☐ No If Yes, describe the security precautions and safeguards: Click here to enter text.	
7	15 CFR **740.9** and 15 CFR 758.1 of the EAR must be carefully reviewed. (For a complete list of exemptions from the EEI filing requirement review 15 CFR 30.35 through 30.40 of the FTR.) Review the Mandatory Provisos section of this checklist; remove any inappropriate provisos and add any provisos associated with the specific circumstances under which TMP is being used. Does this shipment require an AES filing? ☐ Yes ☐ No If yes, insert the following as a Mandatory Proviso: The Requestor must: a. Notify transportation that this shipment/hand-carry requires an AES filing transaction b. Request a copy of the AES filing document from transportation, and c. Forward a copy to the Center's Export Control Staff. d. Have the traveler retain a copy of the AES filing during travel, as hand-carry authority for US Customs	For completion by CEA/ACEA
8	To the best of my knowledge, all the federal regulatory conditions required for use of the exception have been successfully met: ☐ Yes ☐ No If 'No', explain what is needed and notify the requestor that action on the request is suspended pending receipt of the required information: Click here to enter text.	For completion by the CEA/ACEA

9	**Mandatory Provisos:** *Note: The Requestor must ensure compliance with the provisos below in order to use this export authorization.* 1. 15 CFR 740 of the EAR must be carefully reviewed to determine when the item must be returned (generally one year from the date of export would be listed as a proviso but there are some exceptions) and any additional provisos that must be listed as they are associated with the specific circumstances under which TMP is being used (e.g., use of TMP to export beta test software requires the listing of several mandatory provisos). 2. Place a Destination Control Statement on all commercial invoices 3. Records of transactions involving exports must be maintained for a minimum of five years after the last transaction involving this use of TMP exception. The requestor must maintain, in official project/program files, the following information for each shipment / hand carry: • Copy of the approved Checklist TMP; • Written rationale for the jurisdiction/classification determinations of the items covered by this checklist; • The method of transmission; and • A library of all the technology that was exported under this specific authorization. 4. When requested by the HEA, the Requestor and Requestor's office must be able to provide, through the CEA, all of the records, required to be maintained by this checklist, within one business days of being requested. **HEA/CEA/ACEA Additional Provisos / Conditions** (If none, state "None"): Click here to enter text.	For Requestor compliance
10	☐ **Center Approver has delegated HEA authority** ☐ **Requesting HEA approval for use of TMP 740.9 for a period of _____ from HEA approval date. [Enter the desired authorization validity period (e.g., 90 days, 6 months, or 1, 2, 3, or 4 years)]** ☐ **Requesting delegated authority for use of TMP 740.9** (Provide the justification for delegation of authority and clearly define the scope of your request.)	For completion by CEA/ACEA

11	*Before submitting or signing, please ensure all required documents are attached to the completed checklist.* A request determination is complete when the request is marked approved or not approved and if electronic signature and date are completed by the HEA or Delegated CEA/ACEA Approver. If not approved, an explanation will be provided. ☐ Approved ☐ Not Approved *(If checked, provide explanation)* Click here to enter text. X Export Administrator **Date Approved** Select date. Delegation is authorized if a name is entered into the following statement, the HEA electronic signature is present, and the date of delegation is completed. HEA Delegates Authority to CEA/ACEA Click to enter name of CEA/ACEA for use of TMP 740.9. X Export Administrator **Date of Delegation** Select date.	For HEA or Delegated CEA/ACEA Approver
12	**Required Post-Approval:** Requestor must record these dates and notify the Approver (HEA/CEA/ACEA) if return date is not met. **Enter Actual/Transfer Ship Date** Click here to enter a date. **If an AES filing is listed as a Mandatory Proviso, enter the AES number and date of the filing:** **AES number:** Click here to enter text. **Date of AES filing:** Click here to enter a date. **Enter Actual Return Date** Click here to enter a date.	For completion by Requestor

Post- Approval Notifications to HEA, if required			
13	☐	**Execute this step when any controlled item that was temporarily *exported* under TMP will not return to the United States within the time period allowed by authorization.** a. Within five days after a NASA person finds out that a controlled item will not be returned to the U.S. as required, they will notify the CEA in writing.	For completion by Requestor, if
		b. In turn, the CEA/ACEA "immediately" notifies the HEA in writing (e.g. e-mail) that not all the temporarily exported items will return to the United States as required. The CEA/ACEA includes the HEA/CEA/ACEA Control Number, along with a listing of the items that will not return and why they could not be returned IAW with the authorization. An exporter, reexporter or transferor who wants to retain an item at the temporary location beyond the period allowed must apply for a BIS license at least 90 days prior to the end of the authorized period. Date CEA/ACEA was notified: Click here to enter a date. Date HEA was notified in writing: Click here to enter a date.	For completion by CEA/ACEA
14	☐	Execute this step when **any controlled item that was temporarily *imported* under TMP will not return within the time period allowed by authorization.** a. Within five days after a NASA person finds out that the controlled item will not be returned as required, they will notify the CEA/ACEA in writing.	For completion by Requestor, if
		b. In turn, the CEA/ACEA "immediately" notifies the HEA in writing (i.e., e-mail) that not all the temporarily imported items will return to the country of origin as required. The CEA/ACEA includes the Control Number, along with a listing of the items that will not return and why they could not be returned IAW with the authorization. Date CEA/ACEA was notified: Click here to enter a date. Date HEA was notified in writing: Click here to enter a date.	For completion by CEA/ACEA

15	☐	Execute this step when **either a regulatory violation or a violation of the approval conditions is discovered by a NASA person pertaining to the use of an export authorization.** a. "Immediately" after a NASA person discovers a regulatory violation or a violation of the approval conditions pertaining to the use of an export authorization, they will notify the CEA/ACEA in writing of the nature of the violation, along with relevant details. b.	For completion by Requestor, if
		c. In turn, the CEA/ACEA will "immediately" notify the HEA in writing (i.e., e-mail) of the nature of the violation, which includes relevant details. The CEA/ACEA includes the Control Number in the notification. Date CEA/ACEA was notified: Click here to enter a date. Date HEA was notified in writing: Click here to enter a date.	For completion by CEA/ACEA
16	Date Case Closed (Transaction is complete and all EAR and NASA Requirements were met and completed, and documentation is on file.): Click here to enter a date. Closure Comments: Click here to enter text. **This CEA/ACEA signature signifies the case was properly closed:** X _____		For completion by CEA/ACEA
17	**Please attach all relevant documents below (PDF format is preferred):** Drag the desired files to the space below OR **Insert** > **Object** > **Create from File** > **Browse** > Select your file *Note: Ensure that "Link to file" is unchecked, "Display as icon" is checked* _____ Number of Attachments: Click here to enter text		

Checklist M: GOV 740.11(b) – Exports, reexports, and transfers (in-country) to personnel and agencies of the U.S. Government

Updated November 2020

Instructions:

1. **Please record all responses on this checklist in red text.**
2. **Attach all relevant and supporting documents to the end of the checklist (instruction provided) OR include them in the email with the checklist.**
3. **Review License Exception GOV 740.11(b) (hereafter referred to as the GOV Exception or GOV) and this checklist in its entirety prior to using.**
4. **At the direction of the HEA, this checklist cannot be used for GOV Exception 740.11(b)(2)(v).** *This paragraph authorizes items sold, leased, or loaned by the U.S. Department of Defense to a foreign country or international organization pursuant to the Arms Export Control Act or the Foreign Assistance Act of 1961 when the items are delivered to representatives of such a country or organization in the United States and exported, reexported, or transferred on a military aircraft or naval vessel of that government or organization or via the Defense Transportation Service.* **Please complete and send Checklist Z to the HEA for approval of this subparagraph.**
5. **If the CEA/ACEA has any concerns, contact the HEA prior to submitting this checklist to the HEA or approving use of the GOV exception (if an HEA delegation is in place).**
6. **Review 15 CFR Part 740.2 for all restrictions that apply**.
7. **In general, this license exception is not available, if any of the following apply to the items to be exported:**
   - Exports, Reexports, and Transfers to Country Group E:1 (unless GOV(b)(2)(i) and GOV(b)(2)(ii) applies to the items);
   - If to Part 746 sanctioned countries,
   - ECCNs controlled for Missile Technology (MT) reasons, see Part 742.5,
   - Ineligible parties identified during list checks (e.g., Denial Screening Check),
   - If your item or activity requires a license under one or more of the ten general prohibitions list in the EAR and a license exception is not available (15 CFR Parts 736.2(b) and 740).
   - Items on the Sensitive List (see Supplement No. 6 to Part 774), except to the countries listed in Country Group A:5 or an agency of NATO,
   - Items on the Very Sensitive List (see Supplement No. 7 to Part 774),
   - Encryption items controlled for EI reasons under ECCNs 5A002, 5A004, 5D002, or 5E002,
   - "600 series" **items, except to the countries listed in** Country Group A:5 **or an agency of NATO,**
   - For physical or computational access by nationals of countries in Country Group E to computers that have been enhanced by "electronic assemblies," which have been exported or reexported under License Exception GOV and have been used to enhance such computers by aggregation of processors, so that the APP of the aggregation exceeds the APP parameter set forth in ECCN 4A003.b.

For all personnel completing this Checklist

1	a. Short Descriptive Title of Request: Click here to enter text. b. Center: Choose an item. c. Name of CEA/ACEA: Click here to enter text. d. Date of Request: Click here to enter text. e. Expected Ship Date: N/A f. Expected Return Date: N/A g. Program/Project (No acronyms): Click here to enter text. h. Requestor's Name and Office Symbol/Code: Click here to enter text i. Requestor's Email Address: Click here to enter text j. Requestor's Phone Number: Click here to enter text	For completion by Requestor
2	Detailed Description: a. Technical description of each commodity: Click here to enter text. b. Classification of each commodity: Click here to enter text. c. Unit price, quantity and total value of each line item OR attach spreadsheet: Click here to enter text. d. All foreign destinations with addresses: Click here to enter text. e. All end-uses: Click here to enter text. f. All end-users (if any), with addresses: Click here to enter text. g. for the transaction (e.g., to support international agreement, foreign travel/deployment by NASA employee(s) to support a NASA-related mission, etc.): Click here to enter text. If the request is as a result of an International Agreement, attach a copy of the fully executed agreement to the completed checklist before sending it via email to the CEA/ACEA. Identify and highlight the specific section(s) and paragraph(s) that apply to this request.	
3	Is the total value of any individual item (unit price x quantity) over $2,500.00? ☐ Yes ☐ No If 'Yes', an AES filing may be required.	
4	List all U.S. and foreign parties to the transaction: Click here to enter text. Do all parties to the transaction pass the list checks? (e.g., Denial Screening Check) ☐ Yes ☐ No (If No, use of an exception may not authorized. Notify the CEA/ACEA)	

5	Are you requesting the use of this GOV to export a commodity that is to remain under the effective control of a NASA person for the duration? Note: If the request to use GOV is to export technology or software, describe additional safeguards that will be used to protect it from unauthorized access. (e.g., use of passwords, VPNs, firewalls, etc.) ☐ Yes ☐ No If Yes, describe the security precautions and safeguards: Click here to enter text.	
6	**<u>Check the box of the subparagraph that applies to the item.</u>** ☐ **GOV(b)(2)(i)** This transaction involves items for personal use by personnel or their families and household employees and agencies of the U.S. Government. *To use GOV (*b)(2)(i)*, you must respond yes to the following question:* Are all Items in this transaction for personal use (e.g., household effects, food, beverages, and other daily necessities)? ☐ Yes ☐ No ☐ **GOV(b)(2)(ii)** This transaction is being made by or consigned to a department or agency of the U.S. Government. (Note: This subparagraph also applies to U.S. Government contractor personnel.) *To use GOV (*b)(2)(ii)*, you must respond yes to one of the following questions:* Are the items consigned to a department or agency of the U.S. Government solely for its official use? ☐ Yes ☐ No OR Are the items for carrying out any U.S. Government program with foreign governments or international organizations that is authorized by law and subject to control by the President by other means; and is there a Circular 175 approval memorandum in place for the "agreement" that covers the international program or project for which you are requesting this use of GOV(b)(2)(ii). ☐ Yes ☐ No ☐ **GOV(b)(2)(iii)** – This transaction is being made for or on behalf of a department or agency of the U.S. Government.	

Continue to Section 6a to determine which subparagraph applies to the item(s) and if the conditions to use this exception can be met.

☐ **GOV(b)(2)(iv)**
This transaction is pursuant to an official written request or directive from the U.S. Department of Defense.

To use GOV(b)(2)(iv)*, you must respond yes to the following question:*
Is the transaction pursuant to a contract with an agency of the U.S. Government?
☐ Yes ☐ No

☐ **GOV(b)(2)(vi)**
This transaction is in furtherance of a contract to provide for technology that is not "development" or "production" technology for "600 series" items.

Section 6a Subparagraphs (A) through (E) of GOV(b)(2)(iii)

For completion by Requestor

6a

☐ **GOV(b)(2)(iii)(A)**
This transaction is for exports, reexports, and transfers (in-country) of items solely for use by a department or agency of the U.S. Government.

To use (b)(2)(iii)(A) you must answer 'Yes' to the following questions:

(1) Are all items destined for a U.S. person? ☐ Yes ☐ No

(2) Is the transaction pursuant to a contract with the department or agency of the U.S. Government? ☐ Yes ☐ No

☐ **GOV(b)(2)(iii)(B)**
This transaction is being made to implement or support a U.S. Government cooperative program, project, agreement, or arrangement with a foreign government or international organization or agency.

Attach supporting documentation for the cooperative program, project, agreement, or arrangement.

To use (b)(2)(iii)(B), there must be a Circular 175 approval memorandum in place that covers the international cooperation program, project, agreement, or arrangement and you must answer 'Yes' to questions (1) and (2) and 'No' to question (3).

(1) Is the agreement in force and in effect, or is the arrangement in operation?

☐ Yes ☐ No

(2) Is the transaction pursuant to a contract with the department or agency of the U.S. Government and in furtherance of the agreement or arrangement? ☐ Yes ☐ No

Attach documentation with applicable portions identified and highlighted.

(3) Are items in the transaction controlled for Chemical Weapons Convention (CW) or proliferation of chemical and biological weapons (CB) reasons? ☐ Yes ☐ No

NOTE 1. This approved Checklist will meet the requirement for a written authorization from the Secretary or agency head of the U.S. Government department or agency responsible for the program, agreement, or arrangement, or his or her designee.
NOTE 2: ESA is a civil intergovernmental organization, in which all Member States are cooperating governments, and thus may be considered an agency of a cooperating government for purposes of License Exception GOV [DOC Advisory Opinion to NASA 06/01/2001]

☐ **GOV (b)(2)(iii)(C)**

This transaction is being made in support of a foreign assistance or sales program.

To use (b)(2)(iii)(C) you must answer 'Yes' to the following question:

(1) Is the transaction pursuant to a contract with a department or agency of the U.S. Government and in furtherance of the agreement or arrangement? ☐ Yes ☐ No

Attach documentation with applicable portions identified and highlighted.

NOTE: This approved Checklist will meet the requirement for a written authorization from the Secretary or agency head of the U.S. Government department or agency responsible for the program, or his or her designee.

☐ **GOV(b)(2)(iii)(D)**

This transaction is being made at the direction of the U.S. Department of Defense for an end use in support an Acquisition and Cross Servicing Agreement (ACSA).

To use (b)(2)(iii)(D) you must answer 'Yes' to the following questions:

(1) Is the ACSA between the U.S. Government and a foreign government or an international organization? ☐ Yes ☐ No

(2) Is it in force and in effect? ☐ Yes ☐ No

(3) Is the transaction pursuant to a contract with a department or agency of the U.S. Government and in furtherance of the agreement or arrangement? ☐ Yes ☐ No
Attach documentation with applicable portions identified and highlighted.

	NOTE: This approved Checklist will meet the requirement for a written authorization from the Secretary or agency head of the U.S. Government department or agency responsible for the program, or his or her designee. ☐ **GOV(b)(2)(iii)(E)** This transaction involves Government Furnished Equipment (GFE) *To use (b)(2)(iii)(E) you must answer 'Yes' to the following questions:* (1) Can you confirm that the GFE will not be provided to any foreign person? ☐ Yes ☐ No (2) Is the transaction pursuant to a contract with a department or agency of the U.S. Government? ☐ Yes ☐ No	
7	15 CFR **740.11(b)** and 758.1 of the EAR must be carefully reviewed. (For a complete list of exemptions from the EEI filing requirement review 15 CFR 30.35 through 30.40 of the FTR.) Review the Mandatory Provisos section of this checklist; remove any inappropriate provisos and add any provisos associated with the specific circumstances under which GOV is being used. Does this shipment require an AES filing? ☐ Yes ☐ No If yes, insert the following as a Mandatory Proviso: The Requestor must: a. Notify transportation that this shipment/hand-carry requires an AES filing transaction b. Request a copy of the AES filing document from transportation, and c. Forward a copy to the Center's Export Control Staff. d. Have the traveler retain a copy of the AES filing during travel, as hand-carry authority for US Customs	For completion by CEA/ACEA
8	To the best of my knowledge, all the federal regulatory conditions required for use of the exception have been successfully met: ☐ Yes ☐ No If no, explain what is needed and notify the requestor that action on the request is suspended pending receipt of the required information: Click here to enter text.	

9	**<u>Mandatory Provisos:</u>** *Note: Compliance with provisos below required to use this export authorization.* 1. Items subject to the EAR and within the scope of this specific authorization may not be reexported or transferred (in-county) unless such reexport or in-county transfer is authorized by another authorization or to a destination, end user, and end use that would be "NLR" (No License required) under the EAR. 2. Place a Destination Control Statement on all commercial invoices 3. Records of transactions involving exports must be maintained for a minimum of five years after the last transaction involving this use of GOV exception. The requestor must maintain, in official project/program files, the following information for each shipment / hand carry: • Copy of the approved Checklist GOV and a copy of the AES filing when specified as required for the transaction; • Written rationale for the jurisdiction/classification determinations of the items covered by this checklist; • The method of transmission; and • A library of a-ll the technology that was exported under this specific authorization. 4. When requested by the HEA, the Requestor and Requestor's office must be able to provide, through the CEA, all of the records, required to be maintained by this checklist, within one business days of being requested.	For Requestor compliance
	<u>Mandatory Provisos / Conditions Continued</u> (If none, state "None"): Click here to enter text.	HEA/CEA/ACEA Insertion
10	☐ **Center Approver has delegated HEA authority** ☐ **Requesting HEA approval for use of GOV 740.11(b) for a period of _____ from HEA approval date. [Enter the desired authorization validity period (e.g., 90 days, 6 months, or 1, 2, 3, or 4 years)]** ☐ **Requesting delegated authority for use of GOV 740.11(b)** (Provide the justification for delegation of authority and clearly define the scope of your request.)	For completion by CEA/ACEA

11	*Before submitting or signing, please ensure all required documents are attached to the completed checklist.* A request determination is complete when the request is marked approved or not approved and if electronic signature and date are completed by the HEA or Delegated CEA/ACEA Approver. If not approved, an explanation will be provided. ☐ Approved ☐ Not Approved *(If checked, provide explanation)* Click here to enter text. X Export Administrator **Date Approved** Select date. Delegation is authorized if a name is entered into the following statement, the HEA electronic signature is present, and the date of delegation is completed. HEA Delegates Authority to CEA/ACEA Click here to enter text. for use of GOV 740.11(b). X Export Administrator **Date of Delegation** Select date.	For HEA or Delegated CEA/ACEA Approver

12	**Required Post-Approval:** **Enter Actual/Transfer Ship Date:** Click here to enter a date. **If an AES filing is listed as a Mandatory Proviso, enter the AES number and date of the filing:** **AES ITN number:** Click here to enter text. **Date of AES filing:** Click here to enter a date.		For completion by Requestor
Post- Approval Notifications to HEA, if required			
13	☐	Execute this step when either a regulatory violation or a violation of the approval conditions is discovered by a NASA person pertaining to the use of an exemption or exception. a. "Immediately" after a NASA person discovers a regulatory violation or a violation of the approval conditions pertaining to the use of an export authorization, they will notify the CEA/ACEA in writing of the nature of the violation, along with relevant details.	For completion by Requestor, if applicable
		b. In turn, the CEA/ACEA will "immediately" notify the HEA in writing (i.e., e-mail) of the nature of the violation, which includes relevant details. The CEA/ACEA includes the Control Number in the notification. Date CEA/ACEA was notified: Click here to enter a date. Date HEA was notified in writing: Click here to enter a date.	For completion by CEA/ACEA
14	Date Case Closed (Transaction is complete and all EAR and NASA Requirements were met and completed, and documentation is on file.): Click here to enter a date. Closure Comments: Click here to enter text. **This CEA/ACEA signature signifies the case was properly closed:** X _____		For completion by CEA/ACEA

15	**Please attach all relevant documents below:** Drag the desired files to the space below OR **Insert** > **Object** > **Create from File** > **Browse** > Select your file *Note: Ensure that "Link to file" is unchecked, "Display as icon" is checked* Number of Attachments: Click here to enter text.	For completion by Requestor, if applicable

Checklist N: GOV 740.11(c) – Exports, reexports, and transfers (in-country) to agencies of cooperating governments or agencies of the North Atlantic Treaty Organization (NATO)

Updated November 2020

Instructions: 1. **Please record all responses on this checklist in red text.** 2. **Attach all relevant and supporting documents to the end of the checklist (instruction provided) OR include them in the email with the checklist.** 3. **Review License Exception GOV 740.11(c) (hereafter referred to as the GOV Exception or GOV) and this checklist in its entirety prior to using.** 4. **If the CEA/ACEA has any concerns, contact the HEA prior to submitting this checklist to the HEA or approving use of the GOV exception [if an HEA delegation is in place].** 5. **Review 15 CFR Part 740.2 for all restrictions that apply.** 6. **In general, this license exception is not available, if any of the following apply to the items to be exported:** • **Exports, Reexports, and Transfers to Country Group E:1 or Part 746 sanctioned countries,** • **ECCNs controlled for Missile Technology (MT) reasons, see Part 742.5,** • **Ineligible parties identified during list checks (e.g., Denial Screening Check),** • **If your item or activity requires a license under one or more of the ten general prohibitions list in the EAR and a license exception is not available (15 CFR Parts 736.2(b) and 740),** • **Items on the Sensitive List (see Supplement No. 6 to Part 774), except to the countries listed in Country Group A:5 or an agency of NATO,** • **Items on the Very Sensitive List (see Supplement No. 7 to Part 774),** • **Encryption items controlled for EI reasons under ECCNs 5A002, 5A004, 5D002, or 5E002,** • **Regional stability items controlled under ECCNs 6A002.a.1.c, 6E001 "technology" according to the General Technology Note for the "development" of equipment in 6A002.a.1.c, and 6E002 "technology" according to the General Technology Note for the "production" of equipment in 6A002.a.1.c.,** • **"600 series" items, except to the countries listed in Country Group A:5 or an agency of NATO,** • **Items controlled for nuclear nonproliferation (NP) reasons,** • **Items listed as not eligible for License Exception STA in Part 740.20(b)(2)(ii)**	**For all personnel completing this Checklist**

1	a. Short Descriptive Title of Request: Click here to enter text. b. Center: Choose an item. c. Name of CEA/ACEA: Click here to enter text. d. Date of Request: Select a date e. Expected Ship Date: Click here to enter a date. f. Expected Return Date: Click here to enter a date. g. Program/Project (No acronyms): Click here to enter text. h. Requestor's Name and Office Symbol/Code: Click here to enter text. i. Requestor's Email Address: Click here to enter text. j. Requestor's Phone Number: Click here to enter text.	For completion by Requestor
2	Detailed Description: a. Technical description of each commodity: Click here to enter text. b. Classification of each commodity: Click here to enter text. c. Unit price, quantity and total value of each line item OR attach spreadsheet: Click here to enter text. d. All foreign destinations with addresses: Click here to enter text. e. All end-uses: Click here to enter text. f. All end-users (if any), with addresses: Click here to enter text. g. Provide the NASA mission-related reason for taking these items out of the country (e.g., to support international agreement, foreign travel/deployment by NASA employee(s) to support a NASA-related mission, etc.): Click here to enter text. If the request is as a result of an International Agreement, attach a copy of the fully executed agreement to the completed checklist before sending it via email to the CEA/ACEA. Identify and highlight the specific section(s) and paragraph(s) that apply to this request. Click here to enter text.	
3	Is the total value of any individual item (unit price x quantity) over $2,500.00? ☐ Yes ☐ No If 'Yes', an AES filing may be required.	
4	List all U.S. and foreign parties to the transaction: Click here to enter text. Do all parties to the transaction pass the list checks? (e.g., Denial Screening Check) ☐ Yes ☐ No (If No, use of an exception may not authorized. Notify the CEA/ACEA.)	

5	**Check the box of the subparagraph that applies to the item(s).** ☐ **GOV (c)(2)(i)** This transaction involves items consigned to and for the official use of an agency of a cooperating government within the territory of the cooperating government. ☐ **GOV (c)(2)(ii)** This transaction involves items consigned to and for the official use of a military end user of or for the military end use of cooperating agents, or an agency of NATO. ☐ **GOV (c)(2)(iii)** This transaction involves items consigned to and for the official use of a diplomatic or consular mission of a cooperating government located in any country in Country Group B.	
6	15 CFR **740.11(b)** and 758.1 of the EAR must be carefully reviewed. (For a complete list of exemptions from the EEI filing requirement review 15 CFR 30.35 through 30.40 of the FTR.) Review the Mandatory Provisos section of this checklist; remove any inappropriate provisos and add any provisos associated with the specific circumstances under which GOV is being used. Does this shipment require an AES filing? ☐ Yes ☐ No If yes, insert the following as a Mandatory Proviso: The Requestor must: e. Notify transportation that this shipment/hand-carry requires an AES filing transaction f. Request a copy of the AES filing document from transportation, and g. Forward a copy to the Center's Export Control Staff. h. Have the traveler retain a copy of the AES filing during travel, as hand-carry authority for US Customs	For completion by CEA/ACEA
7	To the best of my knowledge, all the federal regulatory conditions required for use of the exception have been successfully met: ☐ Yes ☐ No If no, explain what is needed and notify the requestor that action on the request is suspended pending receipt of the required information: Click here to enter text.	

8	Mandatory Provisos: *Note: Compliance with provisos below required to use this export authorization.* 1. Items subject to the EAR and within the scope of this specific authorization may not be reexported or transferred (in-county) unless such reexport or in-county transfer is authorized by another authorization or to a destination, end user, and end use that would be "NLR" (No License required) under the EAR. 2. Place a Destination Control Statement on all commercial invoices 3. Records of transactions involving exports must be maintained for a minimum of five years after the last transaction involving this use of GOV exception. The requestor must maintain, in official project/program files, the following information for each shipment / hand carry: • Copy of the approved Checklist GOV; • Written rationale for the jurisdiction/classification determinations of the items covered by this checklist; • The method of transmission; and • A library of all the technology that was exported under this specific authorization. 4. When requested by the HEA, the Requestor and Requestor's office must be able to provide, through the CEA, all of the records, required to be maintained by this checklist, within one business days of being requested. 5. No physical or computational access for nationals of countries in Country Group E to computers that have been enhanced by "electronic assemblies," which have been exported or reexported under License Exception GOV and have been used to enhance such computers by aggregation of processors so that the APP of the aggregation exceeds the APP parameter set forth in ECCN 4A003.b.	For Requestor compliance
	Mandatory Provisos / Conditions Continued (If none, state "None"): Click here to enter text.	Inserted by HEA CEA/ACEA

9	☐ **Center Approver has delegated HEA authority** ☐ **Requesting HEA approval for use of GOV 740.11(c) for a period of _____ from HEA approval date. [Enter the desired authorization validity period (e.g., 90 days, 6 months, or 1, 2, 3, or 4 years)]** ☐ **Requesting delegated authority for use of GOV 740.11(c)** (Provide the justification for delegation of authority and clearly define the scope of your request.)	For completion by CEA/ACEA

10	*Before submitting or signing, please ensure all required documents are attached to the completed checklist.* A request determination is complete when the request is marked approved or not approved and if electronic signature and date are completed by the HEA or Delegated CEA/ACEA Approver. If not approved, an explanation will be provided. ☐ Approved ☐ Not Approved *(If checked, provide explanation)* Click here to enter text. X Export Administrator **Date Approved** Select date. Delegation is authorized if a name is entered into the following statement, the HEA electronic signature is present, and the date of delegation is completed. HEA Delegates Authority to CEA/ACEA Click to enter the name of CEA/ACEA for use of GOV 740.11(c). X Export Administrator **Date of Delegation** Select date.	For HEA or Delegated CEA/ACEA Approver

11	**Required Post-Approval:** **Enter Actual/Transfer Ship Date:** Click here to enter a date. **If an AES ITN filing is listed as a Mandatory Proviso, enter the AES number and date of the filing:** **AES number:** Click here to enter text. **Date of AES filing:** Click here to enter a date.		For completion by Requestor
Post- Approval Notifications to HEA, if required			
12	☐	Execute this step when either a regulatory violation or a violation of the approval conditions is discovered by a NASA person pertaining to the use of an exemption or exception. a. "Immediately" after a NASA person discovers a regulatory violation or a violation of the approval conditions pertaining to the use of an exemption or exception, they will notify the CEA/ACEA in writing of the nature of the violation, along with relevant details.	For completion by Requestor, if applicable
		b. In turn, the CEA/ACEA will "immediately" notify the HEA in writing (i.e., e-mail) of the nature of the violation, which includes relevant details. The CEA/ACEA includes the Control Number in the notification. Date CEA/ACEA was notified: Click here to enter a date. Date HEA was notified in writing: Click here to enter a date.	For completion by CEA/ACEA
13	Date Case Closed (Transaction is complete and all EAR and NASA Requirements were met and completed, and documentation is on file.): Click here to enter a date. Closure Comments: Click here to enter text. **This CEA/ACEA signature signifies the case was properly closed:** X _____		For completion by CEA/ACEA

14	**Please attach all relevant documents below:** Drag the desired files to the space below OR **Insert** > **Object** > **Create from File** > **Browse** > Select your file *Note: Ensure that "Link to file" is unchecked, "Display as icon" is checked* Number of Attachments: Click here to enter text	For completion by Requestor, if applicable

Checklist O: NLR – No License Required

Updated November 2020

Instructions: 1. **Please record all responses on this checklist in red text.** 2. **Attach all relevant and supporting documents to the end of the checklist (instruction provided) OR include them in the email with the checklist.** 3. **Review this checklist in its entirety prior to using.** 4. **The approver must carefully review the current EAR. This checklist CANNOT be used for items subject to the ITAR (listed on the USML).** 5. **If the CEA/ACEA has any concerns, contact the HEA prior to submitting this checklist to the HEA or approving use of NLR, if an HEA delegation is in place.** 6. **In general, NLR is not available, if any of the following apply to the items to be exported (Contact the HEA for approval/guidance, if any of these conditions apply):** • Exports, Reexports, and Transfers to Country Group E:1 or 15 CFR 746 sanctioned countries • 9x515 or "600 series" items to Country Group D:5 • ECCNs controlled for Missile Technology (MT) reasons, see 15 CFR 742.5 • Ineligible parties and end users of concern identified during list checks (i.e. Denial Screening Check) • In support of prohibited end-uses. See 15 CFR 744	**For all personnel completing this Checklist**

1	Determine if NLR is appropriate for your item(s). Are all the item(s) EAR99? ☐ Yes ☐ No If 'Yes', continue to Section 2 and complete the checklist. If 'No', complete the following: a. Enter the ECCN(s) of the items. Click here to enter text. b. If the item(s) has an ECCN(s), go to the current version of the CCL and list the reason(s) for control associated with the ECCN: Click here to enter text. c. For each reason for control listed in b., use the Supplement 1 to Part 738 (Commerce Country Chart) to identify "X" marks associated with country/destination. i. Find the country/destination in the chart. ii. If there are no "X" marks in the columns that match the reasons for control (listed in b.), the NLR authorization may be used. iii. If an "X" mark is present, the NLR authorization may NOT be used. (A license exception may be used, if available; or a license must be obtained.) **Note (Not reflected in the Commerce Country Chart):** A license is required for all destinations, including Canada, for spacecraft and related items classified under **ECCN 9A515.a.1, .a.2., .a.3., .a.4., .g, and ECCN 9E515.f.** (15 CFR Part 742.6(a)(8) - Special RS Column 1 license requirement applicable to certain spacecraft and related items.)	For completion by Requestor
2	a. Short Descriptive Title of Request: Click here to enter text. b. Center: Choose an item. c. Name of CEA/ACEA: Click here to enter text. d. Date of Request: Click here to enter a date. e. Expected Ship Date: Click here to enter a date. f. Expected Return Date, if applicable: Click here to enter a date. g. Program/Project (No acronyms): Click here to enter text. h. Requestor's Name and Office Symbol/Code: Click here to enter text. i. Requestor's Email Address: Click here to enter text. j. Requestor's Phone Number: Click here to enter text.	For completion by Requestor

3	Detailed Description: a. Technical description of each commodity: Click here to enter text. b. Classification of each commodity: Click here to enter text. c. Unit price, quantity and total value of each line item OR attach spreadsheet: Click here to enter text. d. All foreign destinations with addresses: Click here to enter text. e. All end-uses: Click here to enter text. f. All end-users (if any), with addresses: Click here to enter text. g. Provide the NASA mission-related reason for the export (e.g., to support international agreement, foreign travel/deployment by NASA employee(s) to support a NASA-related mission, etc.): Click here to enter text.	
4	Is the total value of any individual item (unit price x quantity) over $2,500.00? ☐ Yes ☐ No If 'Yes', an AES filing may be required.	
5	If the commodity has an ECCN, will it remain under the effective control of a NASA person for the duration? ☐ Yes ☐ No If Yes, describe the circumstances: Click here to enter text.	
6	List all U.S. and foreign parties to the transaction. Click here to enter text. Do all parties to the transaction pass the list checks? (e.g., Denial Screening Check) ☐ Yes ☐ No (If No, use of an exception may not authorized. Notify the CEA/ACEA.)	
7	15 CFR **740.11(b)** and 758.1 of the EAR must be carefully reviewed. (For a complete list of exemptions from the EEI filing requirement review 15 CFR 30.35 through 30.40 of the FTR.) Review the Mandatory Provisos section of this checklist; remove any inappropriate provisos and add any provisos associated with the specific circumstances under which NLR is being used. Does this shipment require an AES filing? ☐ Yes ☐ No If yes, insert the following as a Mandatory Proviso: The Requestor must: a. Notify transportation that this shipment/hand-carry requires an AES filing transaction b. Request a copy of the AES filing document from transportation, and c. Forward a copy to the Center's Export Control Staff. d. Have the traveler retain a copy of the AES filing during travel, as hand-carry authority for US Customs	For completion by CEA/ACEA

8	To the best of my knowledge, all the federal regulatory conditions required for use of the exception have been successfully met: ☐ Yes ☐ No If no, explain what is needed and notify the Requestor that action on the request is suspended pending receipt of the required information: Click here to enter text.	
9	**<u>Mandatory Provisos:</u>** *Note: The Requestor must comply with the provisos below to use this export authorization.* 1. Items subject to the EAR and within the scope of this specific authorization may not be reexported or transferred (in-county) unless such reexport or in-county transfer is authorized by another authorization or to a destination, end user, and end use that would be "NLR" (No License required) under the EAR. 2. Place a Destination Control Statement on all commercial invoices 3. Records of transactions involving exports must be maintained for a minimum of five years after the last transaction involving this use of GOV exception. The requestor must maintain, in official project/program files, the following information for each shipment / hand carry: • Copy of the approved Checklist NLR; • Written rationale for the jurisdiction/classification determinations of the items covered by this checklist; • The method of transmission; and • A library of all the technology that was exported under this specific authorization. 4. When requested by the HEA, the Requestor and Requestor's office must be able to provide, through the CEA, all of the records, required to be maintained by this checklist, within one business days of being requested. **HEA/CEA/ACEA Additional Provisos / Conditions** (If none, state "None"): Click here to enter text.	For Requestor compliance
10	☐ **Center Approver has delegated HEA authority** ☐ **Requesting HEA approval for use of NLR for a period of _____ from HEA approval date. [Enter the desired authorization validity period (e.g., 90 days, 6 months, or 1, 2, 3, or 4 years)]** ☐ **Requesting delegated authority for use of NLR** (Provide the justification for delegation of authority and clearly define the scope of your request.)	For completion by CEA/ACEA

11	*Before submitting or signing, please ensure all required documents are attached to the completed checklist.* A request determination is complete when the request is marked approved or not approved and if electronic signature and date are completed by the HEA or Delegated CEA/ACEA Approver. If not approved, an explanation will be provided. ☐ Approved ☐ Not Approved *(If checked, provide explanation)* Click here to enter text. X Export Administrator **Date of Approval** Select date. Delegation is authorized if a name is entered into the following statement, the HEA electronic signature is present, and the date of delegation is completed. HEA Delegates Authority to CEA/ACEA Click to enter the name of CEA/ACEA for use of No License Required (NLR). X Export Administrator **Date of Delegation** Select date.	For HEA or Delegated CEA/ACEA Approver
12	**Required Post-Approval:** Requestor must record these dates. **Enter Actual/Transfer Ship Date** Click here to enter a date. **If an AES filing is listed as a Mandatory Proviso, enter the AES number and date of the filing:** **AES number:** Click here to enter text. **Date of AES filing:** Click here to enter a date.	For completion by Requestor

Post- Approval Notifications to HEA, if required			
13	☐	Execute this step when **either a regulatory violation or a violation of the approval conditions is discovered by a NASA person pertaining to the use of an exemption or exception.** a. "Immediately" after a NASA person discovers a regulatory violation or a violation of the approval conditions pertaining to the use of an export authorization, they will notify the CEA/ACEA in writing of the nature of the violation, along with relevant details.	For completion by Requestor, if
		b. In turn, the CEA/ACEA will "immediately" notify the HEA in writing (i.e., e-mail) of the nature of the violation, which includes relevant details. The CEA/ACEA includes the Control Number in the notification. Date CEA/ACEA was notified: Click here to enter a date. Date HEA was notified in writing: Click here to enter a date.	For completion by CEA/ACEA
14	Date Case Closed (Transaction is complete and all EAR and NASA Requirements were met and completed, and documentation is on file.): Click here to enter a date. Closure Comments: Click here to enter text. **This CEA/ACEA signature signifies the case was properly closed:** X		For completion by CEA/ACEA
15	**Please attach all relevant documents below:** Drag the desired files to the space below OR **Insert** > **Object** > **Create from File** > **Browse** > Select your file *Note: Ensure that "Link to file" is unchecked, "Display as icon" is checked* Number of Attachments: Click here to enter text.		

Checklist P: STA 740.20 – Strategic Trade Authorization authorizes exports, reexports, and transfers (in-country), including releases within a country of single software source code and technology to foreign nationals, in lieu of a license otherwise required

Updated November 2020

Instructions: **1. Please record all responses on this checklist in red text.** **2. Attach all relevant and supporting documents to the end of the checklist (instruction provided) OR include them in the email with the checklist.** **3. Review License Exception STA 740.20 (hereafter referred to as STA, STA authorization, or STA Exception) and this checklist in its entirety prior to using.** **4. If the CEA/ACEA has any concerns, contact the HEA prior to submitting this checklist to the HEA or approving use of the STA authorization (if an HEA delegated authority is in place).** **5. Review 15 CFR Part 740.1 and 740.2 for all restrictions that apply. In general, this license exception is not available, if any of the following apply to the items to be exported:** **• Ineligible parties identified during list checks (e.g., Denial Screening Check).** **• 600 series items that are controlled for Missile Technology (MT) reasons may not be exported under STA, except under STA 740.20(c)(1) provided all of the applicable terms and conditions including those specific to the "600 series" are met [15 CFR 740.2(a)(13)].** **• 9x515 items that are controlled for missile technology (MT) reasons may not be exported reexported, or transferred (in-country) under STA [15 CFR 740.2(a)(18)].** **• If your item or activity requires a license under one or more of the ten general prohibitions listed in the EAR and a license exception is not available (15 CFR Parts 736.2(b)).** **6. This license exception authorizes EAR exports, reexports, and transfers (in-country), including releases within a single country of software source code and technology to foreign nationals, in lieu of a license.** **7. STA authorizes transfers (in-country), but is only needed when an EAR authorization is required.** **8. Requirements and limitations:** **a. Requirements for use of the STA authorization (15 CFR Parts 740.20(b)(1)):** **• All of the reasons for control that impose a 15 CFR 742 license requirement on the export, reexport or in country transfer must be addressed in 15 CFR 740.20(c).** **• The party using the STA must comply with all requirements in 15 CFR 740.20 (d).** **b. Limitations on Use of License Exception STA. The prohibitions and limits of the subparagraphs (b)(2)(i-xi) thru (c)(2) apply notwithstanding the authorizations in paragraph (c) of this section. Review subparagraphs at this link 740.20(b)(2)(i) thru (c)(2).**	**For all personnel completing this Checklist**

1	a. Short Descriptive Title of Request: Click here to enter text. b. Center: Choose an item. c. Name of CEA/ACEA: Click here to enter text. d. Date of Request: Click here to enter a date. e. Expected Ship Date: Click here to enter a date. f. Expected Return Date: Click here to enter a date. g. Program/Project (No acronyms): Click here to enter text. h. Requestor's Name and Office Symbol/Code: Click here to enter text. i. Requestor's Email Address: Click here to enter text. j. Requestor's Phone Number: Click here to enter text.	For completion by Requestor
2	Detailed Description: a. Technical description of each commodity: Click here to enter text. b. Classification of each commodity: Click here to enter text. c. Unit price, quantity and total value of each line item OR attach spreadsheet: Click here to enter text. d. All foreign destinations with addresses: Click here to enter text. e. All end-uses: Click here to enter text. f. All end-users (if any), with addresses: Click here to enter text. g. Provide the NASA mission-related reason for the transaction (e.g., to support international agreement, foreign travel/deployment by NASA employee(s) to support a NASA-related mission, etc.): Click here to enter text. If the request is as a result of an International Agreement or contract, attach a copy of the fully executed document to the completed checklist before sending it via email to the CEA/ACEA. Identify pertinent pages that apply to this request: Click here to enter text. Then highlight the specific section(s), paragraph(s), and sentences of the documents that apply.	
3	Is the total value of any individual item (unit price x quantity) over $2,500.00? ☐ Yes ☐ No If 'Yes', an AES filing may be required.	

4	**a.** List all U.S. and foreign parties to the transaction: Click here to enter text. Do all parties to the transaction pass the list checks? (e.g., Denial Screening Check) ☐ Yes ☐ No (If No, use of an exception may not authorized. Notify the CEA/ACEA) b. **Approval of this checklist requires an attached signed Prior Consignee(s) Statement** on their letterhead, acknowledging understanding that the items to be received are export-controlled items and that they will comply with U.S. law as stipulated in 15 CFR 740.20(d)(2)(i)-(viii), as required. Sample Prior Consignee(s) Statement available at NAII 2190.1, Appendix B-9: Part Two. The required Signed Prior Consignee(s) Statement is attached ☐ Yes ☐ No (If No, use of this exception may not authorized)	
5	**General Prohibitions:** Does this export transaction involve any end-users, end-uses, that are restricted under General Prohibition FIVE (End-use/End-user) or General Prohibition NINE (Orders, Terms, and Conditions) unless authorized by BIS? ☐ Yes ☐ No If yes, the authorization cannot be used **STA 740.20 Authorization(s) Options: [(b)(2)(vi-xi); (b)(3)(ii-iii); (c)(1); and (c)(2)]** **a. STA 740.20(b)(2) Authorization Use** **1. STA Exception 740.20(b)(2) is not authorized for reasons or CCL Categories as indicated below.** **a) Reasons for Control:** Are any of the items to be exported, controlled for reasons of Encryption Items (EI), Short Supply (SS), Surreptitious Listening (SL), Missile Technology (MT) or Chemical Weapons (CW)? ☐ Yes ☐ No If yes, those items cannot be exported using the **740.20(b)(2)** authorization. **b) Jurisdiction:** Are any of the items to be exported identified on the CCL as being subject to exclusive jurisdiction of another agency (e.g. DOS or DOE)? ☐ Yes ☐ No If yes, those items cannot be exported using the **740.20(b)(2)** authorization. **c) CAT 0 Denied Items:** Are any items to be exported classified under ECCNs 0A981, 0A982, 0A985, 0E982, or 0E987? ☐ Yes ☐ No If yes, those items cannot be exported using the **740.20(b)(2)** authorization. **d) CAT 1 Denied Items**: Are any items to be exported classified under ECCNs 1C351.a, .b, .c, .d.11, .d.12, or .e, ECCNs, 1C353, 1C354, or 1E001, for items controlled by the above CAT 1 ECCNs? ☐ Yes ☐ No If yes, those items cannot be exported using the **740.20(b)(2)** authorization.	

	e) **CAT 9 Denied Items**: Does the transaction involve the export of 9D004.f, or 9D004.g software? ☐ Yes ☐ No If yes, those items cannot be exported using the **740.20(b)(2)** authorization. **2. The STA Exception 740.20(b)(2) is applicable for this export as indicated in the ECCNs/CCL Categories with specific citations below**: a) **CAT 1 Authorized Items**: Are any of the items to be exported classified under ECCNs 1C351.d.1 – 1C351.d.10 and 1C351.d.13 -1C351.d.19? ☐ Yes ☐ No If yes, those items are authorized for export under the STA Exception to destinations in Country Group A:5. NOTE: See **740.20(b)(2)(vi)** for details regarding limitations on authorized export amounts and frequencies [Verify ECCN STA paragraph instructions before using this authorization]. b) **CAT 3:** Does the transaction involve the export of commodities controlled by ECCN 3A001.b.2 or b.3 for civil telecommunications applications or technology controlled by E3001 for "production" or "development" or commodities controlled by 3A001.b.2 or b.3? ☐ Yes ☐ No If yes, the item(s) may be exported using the **740.20(b)(2)(x)** authorization [Verify ECCN STA paragraph instructions before using this authorization]. c) **CAT 7 Authorized "Technology" Item**: The STA authorization may not be used for 7E004 "technology," except for "technology" controlled under 7E004.a.7. Is this the technology item to be exported? ☐ Yes ☐ No If yes, the item(s) may be exported using the **740.20(b)(2) (vii)** authorization [Verify ECCN STA paragraph instructions before using this authorization]. d) **CAT 9 Aero Engine/Equipment Component Software and Technology Authorizations:**	
5	i. Does the transaction involve the export of 9D001 or 9D002 software specially designed or modified for "development" or "production" of ECCN 9A001 aero engine components that incorporate certain 9E003 "technologies" or equipment controlled by 9B001? ☐ Yes ☐ No If yes, See **740.20(b)(2)(viii)(A**) for details and verify ECCN STA paragraph instructions before using this authorization. ii. Does the transaction involve the export of 9D001 software that is specially designed or modified for the "development" of "technology" controlled by certain 9E003 "technologies" (other than technology for fans or power turbines)? ☐ Yes ☐ No If yes, See **740.20(b)(2)(viii)(B)** for details and verify ECCN STA paragraph instructions before using this authorization.	

iii. Does the transaction involve the export of 9E001 "technology" for the "development" of 9A001.b engines or engine components that incorporate certain 9E003 "technology" (other than technology for fans or power turbines) or certain 9D001 or 9D002 software? ☐ Yes ☐ If yes, See **740.20(b)(2)(viii)(D)** for details and verify ECCN STA paragraph instructions before using this authorization.

iv. Does the transaction involve the export of 9E002 "technology" for the "production" of 9A001.b engine components that incorporate certain 9E003 "technologies" (other than technology for fans or power turbines)? ☐ Yes ☐ No If yes, See **740.20(b)(2)(viii)(E)** for details and verify ECCN STA paragraph instructions before using this authorization.

The STA Exception 740.20(b)(2) is ☐ applicable / ☐ not applicable for this export.

b. STA 740.20(b)(3) Authorization Use

1. STA Exception 740.20(b)(3) is not authorized for "600 series" items under the circumstances indicated below. Review and answer the following questions; if any are marked "Yes," to the questions below, those items cannot be exported using the 740.20(b)(3) authorization.

i. Are any "600 series" items identified in the relevant ECCN as not being eligible for STA. ☐ Yes ☐ No

ii. The transaction involves export of "600 series" items, which are "600 Series Major Defense Equipment with a contract value that exceeds $25M? Is this the case for this transaction? ☐ Yes ☐ No

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2. For Use of STA 740.20(b)(3)(ii): Is this transaction an export of "600 series" items to governmental or non-governmental natural persons that are nationals of Country Group A:5 countries, where the transaction takes place in within Country Group A:5 countries or the United States **and if (A) and (B) below are true:**

(A) The *ultimate* end user is armed forces, police, paramilitary, law enforcement, customs, correctional, fire, or search & rescue agency of an A:5 Country Group, or USG;

(B) For the "development," "production," operation, installation, maintenance, repair, overhaul, or refurbishing of an item in an A:5 Country Group, or US that will be for one, or more, of the following purposes:

(*1*) Ultimate use by an A:5 Country Group government in one of the listed countries in Country Group A:5 or the USG; or

(2) Sent to a person in the United States and not for subsequent export under § 740.9(b)(1) (License Exception TMP);

OR if (C) below is true

(C) The United States Government has otherwise authorized the ultimate end use, the license or other authorization is in effect, and the consignee verifies in writing that such authorization exists and has provided the license or other approval identifier to the exporter, reexporter or transferor (as applicable)? ☐ Yes ☐ No If yes, use of Exception **STA 740.20(b)(3)(ii)** is authorized [Verify ECCN STA paragraph instructions before using this authorization].

3. **Conditional use of STA 740.20(b)(3)(iii):** Does the transaction involve the export of end items described in ECCNs 0A606.a, ECCN 8A609.a, ECCN 8A620.a or .b, or ECCN 9A610.a? ☐ Yes ☐ No If yes, those items can only be exported using the **STA 740.20(b)(3)(iii)** authorization, after BIS approval is received. Verify ECCN STA paragraph instructions before using this authorization. Then the CEA must prepare and forward a SNAP-R request to the HEA as specified in 740.20(g).

STA 740.20(b)(3) is ☐ applicable / ☐ not applicable for this export.

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c. STA 740.20(c)(1) – Authorization Use with Multiple Reasons for Control

Does this transaction involve exports in which the only applicable reason(s) for control is ((are) National Security (NS); Chemical or Biological Weapons (CB); Nuclear Nonproliferation (NP); Regional Stability (RS); Crime Control (CC); and/or Significant Items (SI) for destinations in or nationals of the Country Group A:5? ☐ Yes ☐ No If yes, the item(s) may be exported using the **740.20(c)(1)** authorization [Verify ECCN STA paragraph instructions before using this authorization].

STA 740.20(c)(1) is ☐ applicable / ☐ not applicable for this export.

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d. STA 740.20(c)(2) – Controls of Lesser Sensitivity

Does this transaction involve exports in which the only applicable reason for control is national security (NS) and the item(s) being exported is (are) not designated in the STA paragraph in the License Exception section of the ECCN [as item(s) not authorized for destinations in or to nationals of Country Group A:6]? ☐ Yes ☐ No If yes, the item(s) may be exported using the **740.20(c)(2)** authorization [Verify ECCN STA paragraph instructions before using this authorization].

	STA 740.20(c)(2) is ☐ applicable / ☐ not applicable for this export. **<u>Check all applicable 740.20 authorization box(es) under which item(s) are to be exported and</u> attach listing of item name, classification, and specific authorization for each item using an STA Exception.** **STA 740.20 Authorization(s)** ☐ (b)(2)(vi-xi) ☐ (b)(3)(ii-iii) ☐ (c)(1) ☐ (c)(2) ☐ None **If None is checked, the STA authorization cannot be used.**	
6	15 CFR **740.11(b)** and 758.1 of the EAR must be carefully reviewed. (For a complete list of exemptions from the EEI filing requirement review 15 CFR 30.35 through 30.40 of the FTR.) Review the Mandatory Provisos section of this checklist; remove any inappropriate provisos and add any provisos associated with the specific circumstances under which STA is being used. Does this shipment require an AES filing? ☐ Yes ☐ No If yes, insert the following as a Mandatory Proviso: <u>The Requestor must:</u> a. Notify transportation that this shipment/hand-carry requires an AES filing transaction b. Request a copy of the AES filing document from transportation, and c. Forward a copy to the Center's Export Control Staff. Have the traveler retain a copy of the AES filing during travel, as hand-carry authority for US Customs	For completion by CEA/ACEA
7	To the best of my knowledge, all the federal regulatory conditions required for use of the exception have been successfully met: ☐ Yes ☐ No If no, explain what is needed and notify the requestor that action on the request is suspended pending receipt of the required information: Click here to enter text.	

8	**<u>Mandatory Provisos:</u>** *Note: The Requestor must ensure compliance with the provisos below in order to use this export authorization.* 1. Place a Destination Control Statement on all commercial invoices 2. Records of transactions involving exports must be maintained for a minimum of five years after the last transaction involving this use of an STA exception. The requestor must maintain, in official project/program files, the following information for each shipment / hand carry: • Copy of this approved Checklist STA; • Written rationale for the jurisdiction/classification determinations of the item(s) covered by this checklist; • The method of transmission; and • A library of all the technology that was exported under this specific authorization. 3. When requested by the HEA, the Requestor and Requestor's office must be able to provide, through the CEA, all of the records, required to be maintained by this checklist, within one business day of being requested. 4. The exporter must furnish the consignee with the ECCN of each item to be exported and request a statement of understanding from the consignee acknowledging the restricted nature of the items to be exported. 5. With each shipment under License Exception STA, the exporter will notify the consignee in writing of all tangible shipment is made pursuant to License Exception STA and specify the items subject to STA or state that the entire shipment is made pursuant to License Exception STA. 6. The party releasing software source code or technology to a national of a country listed in Country Group A:5 or A:6 must notify the recipient of the source code or technology of the restrictions upon further release of these items. The notification must be in writing and a copy of it must be retained by the party making the release and the recipient of the release. **HEA/CEA/ACEA Additional Provisos / Conditions** (If none, state "None"):	For Requestor compliance

9	☐ **Center Approver has delegated HEA authority** ☐ **Requesting HEA approval for use of STA 740.20 for a period of _____ from HEA approval date. [Enter the desired authorization validity period (e.g., 90 days, 6 months, or 1, 2, 3, or 4 years)]** ☐ **Requesting delegated authority for use of STA 740.20** (Provide the justification for delegation of authority and clearly define the scope of your request.)	For completion by CEA/ACEA

10	*Before submitting or signing, please ensure all required documents are attached to the completed checklist.* A request determination is complete when the request is marked approved or not approved and if electronic signature and date are completed by the HEA or Delegated CEA/ACEA Approver. If not approved, an explanation will be provided. ☐ Approved ☐ Not Approved *(If checked, provide explanation)* Click here to enter text. X Export Administrator **Date Approved** Select date. Delegation is authorized if a name is entered into the following statement, the HEA electronic signature is present, and the date of delegation is completed. HEA Delegates Authority to CEA/ACEA Click to enter the name of CEA/ACEA for use of STA 740.20(b)(2)(vi)-(xi), (b)(3)((ii)-(iii), (c)(1) and/or (c)(2). X Export Administrator **Date of Delegation** Select date.	For HEA or Delegated CEA/ACEA Approver
11	Required Post-Approval: Enter Actual/Transfer Ship Date: Click here to enter a date. If an AES filing is listed as a Mandatory Proviso, enter the AES number and date of the filing: AES number: Click here to enter text. Date of AES filing: Click here to enter a date.	For completion by Requestor

Post- Approval Notifications to HEA, if required			
12	☐	Execute this step when either a regulatory violation or a violation of the approval conditions is discovered by a NASA person pertaining to the use of an exemption or exception. a. "Immediately" after a NASA person discovers a regulatory violation or a violation of the approval conditions pertaining to the use of an export authorization, they will notify the CEA/ACEA in writing of the nature of the violation, along with relevant details.	For completion by Requestor, if applicable
		b. In turn, the CEA/ACEA will "immediately" notify the HEA in writing (i.e., e-mail) of the nature of the violation, which includes relevant details. The CEA/ACEA includes the Control Number in the notification. Date CEA/ACEA was notified: Click here to enter a date. Date HEA was notified in writing: Click here to enter a date.	For completion by CEA/ACEA
13	Date Case Closed (Transaction is complete and all EAR and NASA Requirements were met and completed, and documentation is on file.): Click here to enter a date. Closure Comments: Click here to enter text. **This CEA/ACEA signature signifies the case was properly closed:** X _____		For completion by CEA/ACEA
14	**Please attach all relevant documents below:** Drag the desired files to the space below OR **Insert** > **Object** > **Create from File** > **Browse** > Select your file *Note: Ensure that "Link to file" is unchecked, "Display as icon" is checked* Number of Attachments: Click here to enter text.		For completion by Requestor

Checklist X: Closing Out Signed DDTC Licenses

Updated November 2018

Instructions: Currently, this form is to be filled out electronically, electronically signed by the CEA, and e-mailed to the HEA. Not all steps (see 1-6 below) are required and steps, in some cases, can be accomplished out of order. The best course of action is for the "user(s)" to become familiar with all the steps listed on the form and then execute each step as required at the appropriate time. The HEA must ensure all the required reporting to DDTC has been accomplished prior to closing out the case.	
Center: Click here to enter text. **License #:** Click here to enter text. **Date Issued:** Click here to enter a date. **Expiration Date:** Click here to enter a date. **Amendment License #:** Click here to enter text. **Date Issued:** Click here to enter a date. **Short Title:** Click here to enter text. **Description:** **Date HEA Opened Case:** Click here to enter a date. **Date HEA Closed Case :** Click here to enter a date.	
☐	**1. <u>Will the license be used</u>?** • ☐ Yes (continue checklist); ☐ No • If No, why will the license not be used? : Click here to enter text. • **If No, end checklist. CEA e-mails completed and signed/dated checklist to HEA NLT 25 days after expiration date of license.**
☐	**2. <u>Will the license be used to export ITAR technical data or defense services</u>?** • ☐ Yes ☐ No • If Yes, CEA (or CEA's designee) retains a library of all exported technical data, which also includes when and who the data was exported to. In addition, maintain a library of exported defense services to the maximum extent possible. • If Yes, *15 days prior to first use of a DSP-5 license for the export of* technical data, the CEA will notify the HEA in writing (e.g. e-mail) of the imminent initial export of technical data. Include the license number and expected date of first export of technical data. **The HEA notified DDTC of the initial export of the technical data on dd mmm yyyy, which was the date the letter of explanation was submitted to DDTC as part of the application.**

	• Date HEA was notified: Click here to enter a date. Expected data of first export of technical data: Click here to enter a date. Actual date of first export of technical data: Click here to enter a date.
☐	**3. <u>When the initial export of all the technical data authorized on the license been made,</u> execute this step.** • Within 10 days after the initial export of all the technical data authorized on license has been made, the CEA notifies the HEA in writing (e.g. e-mail); include the license number and date that the initial export was completed. If the export of any technical data was accomplished by physically decrementing the license (i.e. by having U.S. Customs at port of exit or entry physically annotate the back of the license with the export date, quantity, commodity, remaining value, and their initials), an e-copy of the physically decremented license must be included with the CEA's notification to the HEA. • Was the export of any technical data accomplished by physically decrementing the license (i.e. not electronically)? ☐ Yes ☐ No • Date initial export of all technical data authorized was completed: Click here to enter a date. • Date HEA was notified: Click here to enter a date. • E-copy of physically decremented license provided to HEA? ☐ Yes ☐ N/A • **The HEA will notify DDTC when the initial export of all technical data has been made.**
☐	4. **<u>When any hardware item that was temporarily exported under a DDTC license will not return to the United States by the expiration date of the license</u>, execute this step.** • NLT 120 days before the license expires, the CEA notifies the HEA in writing (e.g. e-mail) that not all the temporarily exported items will return to the United States before the license expires. The CEA includes the license number, along with a listing of the items that will not return and why they could not be returned IAW with the license. • Date HEA was notified in writing: Click here to enter a date. • NLT 90 days before the license expires, the CEA, after coordination with the HEA, prepares the appropriate authorization request (e.g. license application, exemption request, general correspondence, etc.).

☐	5. **<u>When any hardware item that was temporarily imported under a DDTC license will not be exported (i.e. returned) to the appropriate country by the expiration date of the license</u>, execute this step.** • NLT 90 days before the license expires, the CEA notifies the HEA in writing (e.g. e-mail) that not all the temporarily imported items will be exported from the United States before the license expires. The CEA includes the license number, along with a listing of the items that will not return and why they could not be returned IAW with the license. • Date HEA was notified in writing: Click here to enter a date. • At the first opportunity, the CEA, after coordination with the HEA, prepares the appropriate authorization request (e.g. license application, exemption request, general correspondence, etc.) for export of the item(s).

☐	6. **<u>When the license has "expired",</u> execute this step** (i.e. a license is expired when the limits of the dollar value or items to be permanently exported have been reached; or, all items that can be temporary exported have been exported and returned to the United States; or, the expiration date of the license has been reached).
	• Date license was "expired": Click here to enter a date.
	• Why did the license expire?: Click here to enter text.
	• If No ACE (formerly AES) filings were made, enter "NONE". If filings were made, please enter the date(s) of all filing(s) and the associated ITN number(s) here: Click here to enter text.
	• If all items authorized on the license were not exported/imported, list the items that were not exported/imported (use separate sheet(s) of paper and attach the completed list to this checklist)
	  ○ List attached?: ☐ Yes ☐ No
	• Was the license decremented physically at any time (i.e. not electronically)?
	  ○ ☐ Yes ☐ No
	  ○ If Yes, within 25 days after the license is "expired", the **CEA provides the HEA this completed and signed/dated checklist and includes an e-copy of the physically decremented license.**
	  ○ If No, within 25 days after the license is "expired", the **CEA provides the HEA this completed and signed/dated checklist and any other required documents.**

Name of CEA: **Click here to enter text.**

X _____

Center Export Administrator

Date: **Click here to enter a date.**

Checklist Z: CEA/ACEA Request/Approval to Use an ITAR Exemption/EAR Exception

Updated November 2020

Instructions: 1. **Please record all responses on this checklist in red text.** 2. **Attach all relevant and supporting documents to the end of the checklist (instruction provided) OR include them in the email with the checklist.** 3. **Prior to using this checklist, please review NASA's Policy and Procedures on Use of License Exemptions (EM) and Exceptions (EC) at NASA.** 4. **If available, use the relevant NASA exemption/exception checklist (e.g., TMP) for a specific exemption or exception instead of this checklist.** 5. **Review this checklist in its entirety prior to filling out.** 6. **If the CEA/ACEA has any concerns, they should contact the HEA prior to submitting this checklist to the HEA.** 7. **In nearly all cases, a license rather than an exemption or exception must be obtained, if any of the following apply to the items to be exported:** • Embargoed/sanctioned countries (e.g., 22 CFR 126.1 countries, 15 CFR 740.2 restrictions) • If your item or activity requires a license under one or more of the ten general prohibitions list in the EAR and a license exception is not available (15 CFR 736.2(b) and 15 CFR 740) • Missile Technology Control Regime (MTCR) items (22 CFR 120.29) or the USML or CCL entries for these items are annotated with a "MT". • Significant Military Equipment (SME) (22 CFR 120.7) • Ineligible parties (e.g., 22 CFR 127.1(d)(2), 22 CFR 744) (e.g., Denial Screening Check) • Any other items or activities that the HEA designates, in writing.		For all completing this Checklist
1	Request approval to use the following export authorization(s) (include EM/EC and cite the most-specific, corresponding paragraph in the regulations (e.g., GOV 740.11(a)(2)(iii)): Click here to enter text.	For completion by Requestor
2	a. Short Descriptive Title of Request: Click here to enter text. b. Center: Choose an item. c. Name of CEA/ACEA: Click here to enter text. d. Date of Request: Click here to enter a date. e. Expected Ship Date(s): Click here to enter a date. f. Expected Return Date: Click here to enter a date (if applicable). g. Program/Project (No acronyms): Click here to enter text. h. Requestor's Name and Office Symbol/Code: Click here to enter text. i. Requestor's Email Address: Click here to enter text.	

	j. Requestor's Phone Number: Click here to enter text.	
3	<u>Detailed Description:</u> a. Technical description of commodities and/or activities: Click here to enter text. b. Jurisdiction and classification of all commodities or activities: Click here to enter text. c. Unit price, quantity and total value of each line item OR attach spreadsheet: Click here to enter text. d. All foreign destinations with addresses: Click here to enter text. e. All end-uses: Click here to enter text. f. All end-users (if any), with addresses: Click here to enter text. g. Provide the NASA mission-related reason for the export/import transaction (e.g., to support international agreement, foreign travel/deployment by NASA employee(s) to support a NASA-related mission, etc.): Click here to enter text. If the request is as a result of an International Agreement, attach a copy of the fully executed agreement to the completed checklist before sending it via email to the CEA/ACEA. Highlight the specific section(s) and paragraph(s) that apply to this request.	
4	Is the total value of the item(s) (unit price x quantity) over $2,500.00? ☐ Yes ☐ No <u>If 'Yes', an AES filing may be required.</u>	
5	List all U.S. and foreign parties to the transaction: Click here to enter text. Do all U.S. and foreign parties to the transaction pass the list checks (e.g., Denial Screening Check) ☐ Yes ☐ No (If No, use of an exemption or exception may not be authorized. Notify the CEA/ACEA.)	
6	Are you requesting use of an ITAR Exemption or EAR Exception in order to export a commodity that will remain under the effective control of a NASA person for the duration? Note: If the request is to authorize export of technology or software, describe additional safeguards that will be used to protect it from unauthorized access. (e.g., use of passwords, VPNs, firewalls, etc.)	

	☐ Yes ☐ No	
7	Is additional documentation required (e.g. written assurances, prior consignee statement, etc.) or pre-export approvals or notifications required from/to U.S. Gov't Regulators? (e.g., STA eligibility approval, CIV Foreign National Review Request Approval; etc.) Review the appropriate regulations to make this determination: ☐ Yes ☐ No If No, state "None Required." Click here to enter text. If Yes, list the additional documentation required and provide the list to the Requestor. Click here to enter text. Attach the documentation provided by the Requestor to the completed checklist.	For completion by CEA/ACEA
8	Carefully review the appropriate sections of the ITAR or the EAR for provisos that apply to the Exemption or Exception. If this checklist is requesting the use of an Exception, 15 CFR 758.1 of the EAR must be carefully reviewed. (For a complete list of exemptions from the EEI filing requirement, review 15 CFR 30.35 through 30.40 of the FTR.) Review the Mandatory Provisos section of this checklist; remove any inappropriate provisos and add any provisos associated with the specific circumstances under which exemption/exception is being used. Does this shipment require an AES filing? ☐ Yes ☐ No If yes, insert the following as a Mandatory Proviso: The Requestor must: a. Notify transportation that this shipment requires an AES filing transaction b. Request a copy of the AES filing document from transportation, and c. Forward a copy to the Center's Export Control Staff.	
9	To the best of my knowledge, all the federal regulatory conditions required for use of the exception have been successfully met: ☐ Yes ☐ No If no, explain what is needed and notify the requestor that action on the request is suspended pending receipt of the required information: Click here to enter text.	

10	**<u>Mandatory Provisos:</u>** *Note: The Requestor must ensure compliance with the provisos below in order to use this export authorization.* 1. Items subject to the ITAR and the EAR and within the scope of this specific authorization may not be reexported or transferred (in-county) unless such reexport or in-county transfer is authorized by another authorization or to a destination, end user, and end use that would be "NLR" (No License required) under the EAR. 2. Place a Destination Control Statement on all commercial invoices. 3. Records of transactions involving exports must be maintained for a minimum of five years after the last transaction involving this use of EM/EC authorizations. The requestor must maintain, in official project/program files, the following information for each shipment / hand carry: • Copy of the approved Checklist; • Written rationale for the jurisdiction/classification determinations of the items covered by this checklist; • The method of transmission; and • A library of all the technology that was exported under this specific authorization. 4. When requested by the HEA, the Requestor and Requestor's office must be able to provide, through the CEA, all of the records, required to be maintained by this checklist, within one business days of being requested. **HEA/CEA/ACEA Additional Provisos / Conditions** (If none, state "None"): Click here to enter text.	For Requestor compliance
11	☐ **Center Approver has delegated HEA authority** ☐ **Requesting HEA approval for use of _____ for a period of _____ from HEA approval date. [1) Enter the export authorization being requested; 2) Enter the desired authorization validity period (e.g., 90 days, 6 months, or 1, 2, 3, or 4 years)]** ☐ **Requesting delegated authority for use of _____ (Enter the export authorization being requested)** (Provide the justification for delegation of authority and clearly define the scope of your request.)	For completion by CEA/ACEA

12	*Before submitting or signing, please ensure all required documents are attached to the completed checklist.* A request determination is complete when the request is marked approved or not approved and if electronic signature and date are completed by the HEA or Delegated CEA/ACEA Approver. If not approved, an explanation will be provided. ☐ Approved ☐ Not Approved *(If checked, provide explanation)* Click here to enter text. X Export Administrator **Date Approved** Select date. Delegation is authorized if a name is entered into the following statement, the HEA electronic signature is present, and the date of delegation is completed. HEA Delegates Authority to CEA/ACEA Click to enter the name of CEA/ACEA for use of HEA fills in specific EM/EC. X Export Administrator **Date of Delegation** Select date.	For HEA or Delegated CEA/ACEA Approver

13		**Required Post-Approval:** After approval, the Requestor must record these dates and notify the Approver (HEA/CEA/ACEA) if return date is not met. **Enter Actual Ship/Transfer Date(s)** Click here to enter a date. **If an AES filing is listed as a Mandatory Proviso, enter the AES number(s) and date(s) of the filing:** **AES number(s):** Click here to enter text. **Date of AES filing (s):** Click here to enter a date. **For Temporary Exports: Enter Actual Return Date(s)** Click here to enter a date.	For completion by Requestor
Post- Approval Notifications to HEA			
14	☐	Execute this step when **any controlled item that was temporarily *exported* under an exemption or exception will not return to the United States within the time period allowed by authorization.** a. Within five days after a NASA person finds out that a controlled item will not be returned to the U.S., as required, they will notify the CEA/ACEA in writing.	For completion by Requestor, if applicable
		b. In turn, the CEA/ACEA "immediately" notifies the HEA in writing (e.g. e-mail) that not all the temporarily exported items will return to the United States as required. The CEA/ACEA includes the HEA Control Number, along with a listing of the items that will not return and why they could not be returned IAW with the authorization. Date CEA/ACEA was notified: Click here to enter a date. Date HEA was notified in writing: Click here to enter a date.	For completion by CEA/ACEA
15	☐	Execute this step when **any controlled item that was temporarily *imported* under an exemption or exception will not return within the time period allowed by authorization.** a. Within five days after a NASA person finds out that a controlled item will not be returned as required, they will notify the CEA/ACEA in writing.	For completion by Requestor, if applicable

		b. In turn, the CEA/ACEA "immediately" notifies the HEA in writing (e.g. e-mail) that not all the temporarily imported items will return to the country of origin as required. The CEA/ACEA includes the Control Number, along with a listing of the items that will not return and why they could not be returned IAW with the authorization. Date CEA/ACEA was notified: Click here to enter a date. Date HEA was notified in writing: Click here to enter a date.	For completion by CEA/ACEA
16	☐	Execute this step when **either a regulatory violation or a violation of the approval conditions is discovered by a NASA person pertaining to the use of an export authorization.** a. "Immediately" after a NASA person discovers a regulatory violation or a violation of the approval conditions pertaining to the use of an export authorization, they will notify the CEA/ACEA in writing of the nature of the violation, along with relevant details.	For completion by Requestor, if applicable
		b. In turn, the CEA/ACEA will "immediately" notify the HEA in writing (e.g. e-mail) of the nature of the violation, which includes relevant details. The CEA/ACEA includes the Control Number in the notification. • Date CEA/ACEA was notified: Click here to enter a date. • Date HEA was notified in writing: Click here to enter a date.	For completion by CEA/ACEA
17		Date Case Closed (Transaction is complete and all export control and NASA requirements were met and completed, and documentation is on file.): Click here to enter a date. Closure Comments: Click here to enter text. This CEA/ACEA signature signifies the case was properly closed: X_____	For completion by CEA/ACEA

18	**Please attach all relevant documents below (PDF format is preferred):** Drag the desired files to the space below OR **Insert** > **Object** > **Create from File** > **Browse** > Select your file *Note: Ensure that "Link to file" is unchecked, "Display as icon" is checked* Number of Attachments: Click here to enter text.	

APPENDIX B: EXPORT CONTROL REFERENCES

This appendix contains export control references for use by export control practitioners. Most of these references provide examples or samples of required documents (such as TTCPs, NDAs, or record logs) to aid the user when engaging in export control activities.

B-1: Visa Types and Categories

Visa Type	Visa Category
A-1	Diplomat or foreign government official
A-2	Foreign military personnel stationed in the U.S.
B-1	Business visitor
B-2	Tourism, vacation, pleasure visitor
D	Crewmember
E-1	Treaty trader/treaty investor
E-2	Dependent for E-1
E-3	Australian professional specialty
F-1	Student: academic, vocational
F-2	Dependent for F-1
G-1	Permanent Mission Member of a designated international organization
G-2	Temporary Mission Member of a designated international organization
G-3	Representatives of non-recognized or non-member governments
G-4	Individuals coming to the U.S. to take up an appointment at a designated international organization
G-5	Personal employees or domestic workers of a G-1 – 4 visa holders
H-1B	Specialty occupations in fields requiring highly specialized knowledge
H-2A	Temporary agricultural worker
H-2B	Temporary worker performing other services or labor of a temporary or seasonal nature.
I	Media, journalist
J-1	Exchange visitor
J-1 NASA	Exchange visitor-NASA SPONSORED
J-2	Dependent for J-1
K-1	Foreign-citizen fiancé(e) of a U.S. citizen

Visa Type	Visa Category
K-2	Child of K-1
K-3	Foreign-Citizen Spouse of a U.S. citizen
K-4	Child of K-3
L-1	Intra-company transferee
L-2	Dependent for L-1
NATO	NATO
O-1A	Foreign national with extraordinary ability in Sciences, Education, Business or Athletics
O-1B	Foreign national with extraordinary ability in Arts and Motion Picture/Television Industry
O-2	Individuals who will accompany an O-1, professionally
O-3	Dependent for O-1A/B
Q-1	International cultural exchange visitor
R-1	Religious worker
R-2	Dependent for R-1
TN	NAFTA professional worker: Mexico, Canada
TD	Dependent for TN
VWP	Visa Waiver Program

B-2: Provisos and IdMAX

Proviso	Usage Notes
(1) Approved access is limited only to information in the public domain and areas approved by the Center Export Control Staff for public tours; contact the cognizant Center Export Control Staff if unsure if areas are approved for public tour.	**Center Export Control Use** - Required on all "public domain" tours at NASA facilities or on NASA aircraft while on foreign deployment.
(2) Use of an escort is required per the Foreign National Access Management policies contained in NPR 1600.4.	**Center Security Use**
(3) The visit is authorized only so long as there is a valid visit authorization or extension (e.g., I-797A), granted on a valid visa.	**Center Security Use**
(4) No access to U.S. Government or NASA Logical Assets. Physical access only.	**Center Export Control Use** - Required on all NASA sponsored visits to NASA facilities or on NASA aircraft when no logical access is requested.
(5) Approval of visit is not a precedent for approval of long term appointment.	**Center Export Control or Center Security Use** - Required on all NASA sponsored visits when the purpose includes an "interview" for a position located on a NASA facility.
(6) The NASA/JPL person sponsoring the visit (or their designee) is required to provide copies of the visit approval provisos/conditions to all NASA/JPL employees and on-site contractor employees that are escorting, hosting, overseeing, and making presentations during the visit.	**Center Export Control Use** - Required on all visits to NASA facilities or aircraft.
(7) Prior to visit, host is to confer with Center Export Administrator (Center Export Control Staff) to determine export classification of data and hardware to be accessed during the visit.	**Center Export Control Use** - Required on all physical visits to NASA facilities or NASA aircraft when Proviso (1) or Proviso (24) is not applied to the visit.

Proviso	Usage Notes
(8) With Center Export Control Staff approval, the on-site FNV is authorized to use a NASA standard PC with COTS software and access to NASA technological data regarding [enter project/program here] provided, these items and corresponding use of technology are eligible for license-free transfer to [enter country(ies) of FNV here].	**Center Export Control Use** - With Center Export Control Staff approval, can be used on visits to NASA facilities or NASA aircraft and logical access has been requested.
(9) The NASA sponsor will provide a written copy of all the provisos associated with the visit to the FNV's affiliated U.S. organization [**enter name of organization**], which includes the U.S. organization's responsibility to comply with U.S. export control laws and regulations and for acquiring an export license authority, if required.	**Center Export Control Use** - Required on requests when the FNV works for or is affiliated with a U.S. entity and the work location is on a NASA facility and the visit is 30 days or more. Also required on requests when the FNV works for or is affiliated with a U.S. entity (note: work location doesn't have to be on a NASA facility) and NASA export controlled information might be exchanged during the visit. Note: in some cases the affiliated organization could be a NASA organization.
(10) A non-disclosure agreement is required for this assignment. (as found in NAII 2190.1 Appendices B-8 and B-9 and section 2.6.6)	**Center Export Control Use** - Required on any visit to NASA facilities if export controlled information will be transferred during the visit and the FNV is "from" a country on the NASA Designated Countries list. Also Required if export controlled information will be transferred during the visit and there is no P-TTCP in place that covers this specific visit.
(11) An appropriate Technology Transfer Control Plan must be in place and approved prior to this visit. (P-TTCP or I-TTCP as found in NAII 2190.1 Appendices B-3 and B-4; section 2.6.3.).	**Center Export Control Use** - Required on all long-term visits (30 days or more) to NASA facilities and aircraft. Also required on any visit to NASA facilities if export controlled

Proviso	Usage Notes
	information will be transferred during the visit.
(12) Access to the NASA IT system is only approved in the partitioned area. No permission will be granted for direct access to the computer nodes bypassing the front end.	**Center Export Control Use** - Required on all visits, when logical access is requested.
(13) Release of NASA software source code is not authorized without specific, written approval of the cognizant Center Export Control Staff and others, as defined by NASA policy.	**Center Export Control Use -** Required on all visits, when logical access is requested.
(14) With Center Export Control Staff written approval, the FNV is authorized remote IT access to NASA technological data regarding [enter project/program] provided these items and corresponding use of technology are eligible for license-free transfer to [enter country(ies) of visitor].	**Center Export Control Use** - Use of this proviso requires Center Export Control Staff approval; the cognizant Center is required to put this proviso on all visits, when remote logical access is requested and NASA technological data is being transferred NLR.
(15) Approved access is limited to information that would be approved for the public domain and to specific non-public domain NASA data required under a NASA signed Space Act Agreement. Controls must be in place to restrict the individual's access only to export-controlled information that is allowed under an approved export authorization. The Center Export Control Staff must delineate in writing, to the NASA sponsor, the scope of the export-controlled information that can be transferred to the visitor.	**Center Export Control Use** - Use of this proviso requires Center Export Control Staff approval; the cognizant Center is required to put this proviso on all visits, when export controlled information is transferred to a FNV based on a NASA-signed Space Act Agreement.
(16) No NASA interest or activity. Visit is sponsored by a tenant located on a NASA facility. The FNV is not authorized access to any NASA project/program activities, including NASA logical assets, on the facility. Name of tenant: [**enter name of tenant**].	**Center Export Control or Center Security Use** - put on all visits to non-NASA tenant facilities that are both sponsored by the tenant and located on a NASA facility.

Proviso	Usage Notes
(17) Logical access to the CERN/HOSC computer is remote access only, only approved in the partitioned area.	**Center Export Control Use** - Required on all visits requesting remote access to the NASA nodes on the CERN/HOSC computer, these visits are usually sponsored by MSFC and GSFC.
(18) Any Remote IT Access is only permitted from an IP Address within the United States.	**Center Export Control Use** - Required on requests for logical access, when the visitor's work location is in the United States.
(19) Approved access is valid with annual review.	**Center Security Use -** Used on visits of one year or more.
(20) Remote access only. No physical access to NASA facilities specifically unless approved via IdMAX.	**Center Export Control or Center Security Use** - Required on requests for logical access only.
(21) With Caltech/JPL Center Export Control Staff/Center Export Control Staff approval, Caltech/JPL is authorized to transfer only that NASA-controlled technical data regarding [enter project(s)/program(s)] necessary to fulfill its obligation under a license, exemption, exception and/or No License Required (NLR). Transfer of other NASA non-public domain technical data in support of this authorization(s) [enter authorization(s)] requires prior NASA Center Export Control Staff approval.	**Center Export Control Use** - Required on all visits sponsored by Caltech/JPL, when the visit request indicates that export controlled information is expected to be transferred. Caltech/JPL will need to provide the export authorization information when the request is submitted.
(22) With Center Export Control Staff approval, NASA Civil Servants are authorized to transfer only that NASA-controlled technical data regarding [enter project(s)/program(s)] necessary to fulfill its obligation under a license, exemption, exception and/or No License Required (NLR). Transfer of other NASA non-public domain technical data in support of this authorization(s) [enter authorization(s)] requires prior NASA Center Export Control Staff approval.	**Center Export Control Use** - Use of this proviso requires Center Export Control Staff approval; the cognizant Center is required to put this proviso on all visits, when export controlled information is transferred to a FNV.

Proviso	Usage Notes
(23) The FNV is prohibited from taking any imagery during his/her visit to [**enter NASA center or NASA facility**].	**Center Export Control or Center Security Use** - based on Center Policy (note: not currently used by Center Export Control for visit to NASA Headquarters).
(24) No access to export controlled Information is authorized; this includes access to export controlled hardware if export controlled information can be discerned by viewing the hardware (if unsure that export controlled information can be discerned, contact your Center Export Control Staff far in advance of the visit).	**Center Export Control Use** - Required when no export controlled information will be transferred and on all visits that do not involve a "public domain" tour of NASA Facilities/NASA aircraft.
(25) HQ Other:	**HQ (Agency) Use Only**
(26) HQ Other:	**HQ (Center) Use Only**
(27) AFRC Other:	**AFRC Use Only**
(28) ARC Other:	**ARC Use Only**
(29) GRC Other:	**GRC Use Only**
(30) GSFC Other:	**GSFC Use Only**
(31) JPL Other:	**JPL Use Only**
(32) JSC Other:	**JSC Use Only**
(33) KSC Other:	**KSC Use Only**
(34) LaRC Other:	**LaRC Use Only**
(35) MSFC Other:	**MSFC Use Only**
(36) SSC Other:	**SSC Use Only**

B-3: Sample Programmatic – Technology Transfer Control Plan (P-TTCP)

Purpose: To implement a means of safeguarding NASA hardware, software, technical data, and technology to comply with U.S. export control laws and regulations in the performance of NASA missions with International Partners (IPs), other foreign persons, and/or in foreign locations. This Programmatic Technology Transfer Control Plan (P-TTCP) is to ensure that all persons participating in NASA programs, projects, or activities understand what export controlled items are involved, what foreign persons are involved, what export-controlled items NASA must provide to those foreign persons under the terms and conditions of the cooperation, and how those items will be transferred to those foreign persons. *(Optionally, additional program specific purpose language can be added)*

Implementing Agreement/Contract:

Indicate the name and date of the agreement or contract: *NASA-ESA EXPORT MOU, signed February 29, 2000. (Provide in ANNEX)*

NASA Program, Project, or Activity with International Participation:

Describe the program or project and the responsible office(s) and individual(s) with title(s) (e.g. Program Manager or Sponsor):

Extreme X-ray Probe of Radiation Traits (EXPORT), John Doe, Project Manager, GSFC Program Office Radiation under the NASA Science Mission Directorate.

Foreign Participant Agencies/Organizations:

Provide a list of the organizations and countries that are signatories or participants under the Agreement/contract/grant/affiliation. Additionally, the individual participants should be listed or provided in an ANNEX, if they are known.

- ESA, Germany
- CNES, France
- ASI, Italy

NASA Export-Controlled Items to be Exported or Accessed by Foreign Parties: As specified in the Agreement or contract, identify export-controlled items with classification for the following categories of items that will be exported or transferred. Additionally, describe the methods that will be employed to ensure security of export controlled items. The list of controlled items will not be static; items will be added and removed throughout the life of the program.

Hardware: *(List or include in ANNEX)*

Software: (List or include in ANNEX)

Technical Data: *(List or include in ANNEX)*

Defense Services: *(List or include in ANNEX)*

Note 1: When the program/project acquires new hardware/software, the procurement contract should specify that the vender provide the export classification for the hardware/software. On delivery, classification information will be updated in appropriate Annexes.

Note 2: When the program/project manufactures/creates new hardware/software, the program/project will determine the appropriate export control classification when created and the requisite Annexes will be updated.

Note 3: When the program/project creates export-controlled technical documents or software, the program/project will determine the appropriate export control classification when created. If these documents or software are to be made available to foreign persons, in accordance with a NASA agreement/contract, the appropriate Annex will be updated (NPD 1440.6l, Section 5.3 and NAII 2190.1. paragraph 2.2).

Note 4: When NASA-owned property is no longer required, it will be turned into the NASA Property Disposal Officer in accordance with NPR 4300.1C.

NASA Non-Export-Controlled Items to be Exported or Accessed by Foreign Parties

Hardware: -NLR Test Equipment/Test Facilities

Software: Microsoft Office

Information: -Telemetry /housekeeping data

Missions, Functions, Tasks, and Activities to be performed in execution of Agreement or contract:

Describe the primary missions, activities, and tasks that must be performed to successfully meet the obligations or requirements of the Agreement/contract. For those programs where a

Joint Project Implementation Plan (JPIP) exists, a summary descriptive statement can be provided with appropriate JPIP references and the JPIP document can be attached as an Annex.

Roles and Functions:

Identify each role or position that will be required for International Partners (IPs) or other foreign parties to perform the missions, activities, and tasks specified in the Agreement/contract. Then describe the functions that are to be performed by each of the roles or positions and the NASA export-controlled items and classification to which they will require access and whether they will need training on the use of these items.

Physical and Logical Work Access:

Physical Access:

Foreign National(s) identified in this TTCP require access to the following Facility based on their roles and functions under the Agreement/contract:

Building/Room - Access purpose:

- Bldg. 214, room 113A - Semi-permanent office space.
- Bldg. 214 - Break and lunch room provisions.
- Bldg. 215, Room 4A - Assembly, Integration, and Test (AIT) work areas.
- Bldg. 215, Room 4B - Collaboration with NASA and Lockheed Martin E-STA team members during assembly, integration, and testing.

(An attachment may be used that identifies the specific individuals and specific roles that require the same exact physical access)

All other buildings on NASA Center facilities are considered off-limits without appropriate escort and the visitor has been made aware they will not be authorized to enter another facility without prior approval.

Only trained escorts who are U.S. citizens, LPRs, or foreign nationals from non-designated countries with a valid NASA PIV credential, or a Department of Defense Common Access Card (CAC) or other Federal agency PIV that has been successfully registered utilizing the NASA credential registration process, shall be allowed to escort foreign nationals. Escorts must hold current export training credentials in order to perform escort duties.

All U.S. personnel working in an area for which foreign person access is approved, will be made aware, so that they can maintain appropriate discipline to protect NASA sensitive information and items.

Logical Access:

Identify information technology equipment and access that is required to satisfy the requirements of the Agreement/contract.

(An attachment may be used that identifies the specific individuals and specific roles that require the same exact logical access)

Authorized Means of Export/Transfer:

The responsible NASA Official (Sponsor, Program/Project Office) will initiate a request for an authorization to export or transfer (verbally, visually, or physically) any NASA export-controlled items to foreign parties/locations. These requests can typically be submitted by your organization's Export Control Representative (ECR) [also referred to as Center Export Representative (CER), Export Control - Point of Contract (EC-POC)], or designee. If your organization does not have an ECR, contact your CEA for assistance.

For physical or electronic export of export-controlled commodities (hardware, software, technical data) and/or defense services or technology:

- ITAR hardware exports will generally require either license or license exemption authorizations.
- EAR hardware exports will generally require license, license exception, or [under certain conditions] No License Required (NLR) authorizations.

For verbal or visual disclosure of technical data, which can occur in technical meetings or conferences, release of export-controlled information to the public, and transfer of export-controlled technology or knowledge ("know-how") in the form of Defense Services:

- ITAR items will generally require either license or license exemption authorizations.
- EAR items will generally require license or license exception authorizations.

Identify the anticipated means of export and required authority for each export-controlled item listed in the Agreement. Below are 9 examples of various export transactions and how they might be appropriately described. These examples should be replaced with specifics for the program/project or activity that is expected to occur.

1. Export-Controlled technical data will be transferred to parties to the agreement in technical exchange meetings, under Exemption authority 22 CFR 126.4(a). This will be documented in the meeting minutes, along with the date and time of the meeting, participants, and technical data with classification that is disclosed.

2. NASA will need to obtain an export license from the DoS for the export of the cryocoolers to ESA's offices in Noordwijk, the Netherlands. License application should be made no later than September 1, 2023; export required by April 1, 2024; launch October 31, 2024.

3. NASA will direct JPL (an FFRDC), via task order, to export the cryocooler operator's manual to the Netherlands, under ITAR Exemption 125.4(b)(3). The manual must be marked as export-controlled, with notice against retransfer, as required by the MOU.

4. Likewise, NASA will direct JPL (an FFRDC), via task order, to export the operation code for the cryocooler to the Netherlands, under ITAR Exemption 125.4(b)(3). The code must also be marked as export-controlled, with notice against retransfer, as required by the MOU.

5. Neither NASA nor JPL (an FFRDC) requires a license to export the laser diagnostic equipment to the Netherlands. The equipment will be exported under NLR, but must be identified in commercial invoice as export-controlled, with notice against retransfer, as required by the MOU.

6. Neither NASA nor JPL (an FFRDC) requires license to export the operator's manual for the laser diagnostic equipment to the Netherlands. The manual will be exported under NLR, but must be marked as export-controlled, with notice against retransfer, as required by the MOU.

7. JPL (an FFRDC) and other support contractors will apply for Technical Assistance Agreements as required to support this activity.

8. The NASA International Desk Officer will generate a Duty Free Import Certification letter for items coming into the United States.

9. Program personnel will enter foreign person attendees at NASA facilities into the NASA Identity Management System for access at least 20 days before access is required.

10. Publications, documents, and briefings resulting from this activity will be reviewed in accordance with NPR 2200.2 prior to presentation or publication.

NOTE 1: Items which are not export-controlled or that have been documented as approved for release to the public by an authorized government official, in accordance with NPR 2200.2, do not require export control authorization for transfer.

NOTE 2: Export authorizations often have **reporting requirement** which are conveyed to the exporter in the authorization or an accompanying transmittal letters. Review all conditions and provisos associated with an export authorization to insure that reporting requirements are met.

NOTE 3: Provide export milestones [a one-page chart may be sufficient] in the TTCP which addresses a proposed schedule for exports/import to include the information below:

- Government-to-government agreement required dates
- If appropriate, Project Implementation Plan dates
- Licenses and TAAs required dates [if applicable]
- Import Certification required dates [if applicable]

Training Requirements:

Technology transfer control briefings or training presentations will be provided to all personnel that support the Agreement/contract on an annual basis, to ensure those interacting with export-controlled items and/or international partners or other foreign persons are aware of current technology transfer processes and procedural requirements. This briefing/training will be conducted by or with CEA or HEA concurrence.

Separate training should be provided for two groups:

- U.S. persons
- Foreign persons

International Partner or Foreign National Certification:

The responsible NASA Official (Sponsor, Program/Project Office) shall ensure that all International Partners or Foreign Nationals associated with this P-TTCP, that are not covered under an International Agreement must sign a written document acknowledging that he/she has been briefed and given written information regarding the following:

1) Role(s) and function(s) at NASA,

2) Physical locations/information technology access authorized,

3) When he/she is authorized access to NASA resources in order to perform assigned duties, and

4) What export-controlled items he/she may access, including any associated conditions and/or limitations."

5) Non-disclosure agreement (certification that FN will not disclose, export, or transfer export-controlled data or hardware to any other foreign entity without prior written approval from the CEA).

Recordkeeping:

Each NASA employee who transfers controlled information under a license, license exemption, or license exception must keep appropriate records of their transfers. For meetings, this can be accomplished with the minutes of the meeting. Records of export-controlled transactions must include the following information:

(1) the exporter (the person transferring the information),

(2) date of transfer,

(3) the recipient,

(4) description of the controlled information transferred,

(5) title or subject of the document, software program, computer file, etc.,

(6) method of transfer [e.g. physical shipment, verbal disclosure, visual disclosure, in-country transfer, or temporary export (hand-carried), and

(7) export authorization.

These records must be readily available, and provided to the Center Export Administrator (CEA) on demand within 3 business days. All export control records shall be maintained and destroyed in accordance with NASA Records Retention Schedules. (NPR 2190.1 Paragraph 3.6.1 and NPR 1441.1E NRRS Schedule 2, AFS# 2190, Item 7.5)

Approved: Program/Project Manager/Sponsor or Designee and Date _____

Reviewed/Concur: Center Export Administrator or Designee and Date _____

B-4: Sample Individual – Technology Transfer Control Plan (I-TTCP)

Purpose: Identify the roles, functions, and NASA resource accesses required by international partners and other foreign persons to perform their responsibilities in support of NASA Agreements/contracts (If appropriate, reference the P-TTCP here or use similar/modified language from the purpose statement listed in Appendix B-3).

Applicable Agreement/Contract: NASA-ESA EXPORT MOU, signed February 29, 2000.

Name of Program, Project, or Activity Supported: This should be consistent with what is reflected in the P-TTCP, if one exists.

Extreme X-ray Probe of Radiation Traits (EXPORT), Managed by GSFC Program Office Radiation under the Science Mission Directorate.

Foreign Person in Program, Project, or Activity: The individual listed here should be vetted as a representative of an organization identified as a party to the Agreement or contract. Provide the individual name, organization, and role.

Andreas Wilk (ESA, Germany), Engineer.

Export-Controlled Items (i.e., Technologies, Software, or Hardware) Involved in Project: Items listed here be will also be identified as hardware, software, technical data, defense services, or technology which will require export for access by this/these individual(s) in support of the Agreement/contract. Additionally, describe the methods that will be employed to ensure security of export controlled items.

Hardware:

1. *Space-qualified cryocoolers, USML Category XV(e).*
2. *Laser diagnostic equipment, CCL ECCN 6A005.*
3. *Operator's manual for laser diagnostic equipment, CCL ECCN 6E201 -Temporary export.*

Software:

1. *Software source code and object code for operation of space-qualified cryocoolers, USML Category XV(f).*

Technical Data:

1. *Blueprints and Operator's manual for space-qualified cryocoolers, USML Category XV(f).*

2. *Technical data related to integration of the cryocoolers into the payload, USML Category XV(f).*

Physical and Logical Work Access:

Physical Access - The listed Individual is authorized to visit the following NASA facilities in the performance of Agreement/contract duties.

- JSC: Building/Room - Access purpose:
- Bldg. 214, room 113A - Semi-permanent office space.
- *Bldg. 214 - Break and lunch room provisions.*
- *Bldg. 215, Room 4A - Assembly, Integration, and Test (AIT) work areas.*
- *Bldg. 215, Room 4B - Collaboration with NASA and Lockheed Martin E-STA team members during assembly, integration, and testing.*

Logical Access - The listed Individual is authorized access to the following NASA information technology resources to satisfy duty performance requirements in the Agreement/contract.

Authorized Means of Export/Transfer:

Describe the anticipated manner and means by which export-controlled items (hardware, software, technical data, technology, or defense services) are expected to be transferred to this individual and identify the export authorizations that will be used.

- For physical or electronic export of export-controlled commodities (hardware, software, technical data) and/or defense services or technology:
    - ITAR hardware exports will generally require either license or license exemption authorizations.
    - EAR hardware exports will generally require license, license exception, or [under certain conditions] No License Required (NLR) authorizations.
- For verbal or visual disclosure of technical data, which can occur in technical meetings or conferences, release of export-controlled information to the public, and transfer of export-controlled technology or knowledge (“know-how”) in the form of Defense Services or technical assistance:
    - ITAR items will generally require either license or license exemption authorizations.
    - EAR items will generally require license or license exception authorizations.

Below are examples of various export transactions and how they might be appropriately described. These examples should be replaced with specifics for the program/project or activity that is expected to occur:

1. *Training and or instruction on the use of an ITAR instrument will be provided as a defense service and an approved Department of State export license will be obtained prior to transfer of knowledge.*

2. *ITAR technical data will be transferred during technical meetings and License Exemption 126.4 authority will be used based on the terms and requirements of the Space Act Agreement.*

3. *Temporary transfers of ITAR hardware are anticipated and will be authorized with License Exemption 126.4 or a Department of State temporary hardware export license will be obtained, if required.*

4. *Transfers of EAR hardware and software will generally be authorized as No License Required (NLR); under License Exceptions TMP or GOV; or with a Department of Commerce hardware license when required.*

NOTE 1: If there are questions regarding appropriate authorizations, contact the Center Export Administrator or the Export Control Staff for assistance.

NOTE 2: Export authorizations often have **reporting requirement** which are conveyed to the exporter in the authorization or an accompanying transmittal letters. Review all conditions and provisos associated with an export authorization to insure that reporting requirements are met.

NOTE 3: Export/import authorizations that are related to an individual will be listed and attached to the I-TTCP in a single ANNEX

Training Requirement: The Sponsor or Program Office will ensure a Technology Transfer Control training or briefing presentation is provided for all IPs or foreign parties that support or access NASA Agreement/contract information or resources, and written acknowledgement of receipt will be provided.

Approved:
Sponsor/Program/Project Manager or Designee sign and date _____

Reviewed/Concur:
Center Export Administrator or Designee sign and date _____

International Partner Representative/Foreign National sign and date _____

My signature above constitutes acknowledgement that I have been briefed and given written information regarding:

1) **My role(s) and function(s) at NASA,**
2) **What physical locations / information technology access I am authorized,**
3) **When I am authorized access to NASA resources in order to perform my duties, and**
4) **What export-controlled items I may access, including any associated conditions and/or limitations."**
5) **Non-disclosure agreement (certification that FN will not disclose, export, or transfer export-controlled data or hardware to any other foreign entity without prior written approval from the CEA).**

B-5: STI Release Rationale

Instructions: This checklist should be attached to the NASA Form 1676 in support of requests for disclosures of STI, and information controlled under Export Regulations (International Traffic in Arms Regulations (ITAR) and Export Administration Regulations (EAR). Please review and sign next to the applicable rationale item[s] on the next page. Additional written information is required for Item V.

Background: Release of NASA information into a public forum may provide NASA technology to countries with interests adverse to the U.S. This form will help you efficiently process your proposed disclosure of NASA STI and assure that the request complies with export control regulations. Your Center ECS will use this rationale in conjunction with the completed NF-1676 which is required for each domestic and international presentation and publication of STI (See NPD 2200.1C).

Generally, the export of information pertaining to the design, development, production, manufacture, assembly, operation, repair, testing, maintenance or modification of defense articles (i.e. space flight hardware, ground tracking systems, launch vehicles, radiation hardened hardware and associated hardware and engineering units for these items are controlled by the ITAR. The export of information not controlled by the ITAR is generally controlled by the BIS under the EAR. If the information that you propose for release is controlled for export compliance reasons, but also falls into one or more of the following "Rationale for Public Release" items, the information may be determined to be suitable for public release.

STI Release Rationale

Title of Presentation: Click here to enter text. **Author:** Click here to enter text.

Rationale for Public Release I

The information is already in the public domain in its entirety through a non-NASA medium and/or through NASA release previously approved by an authorized NASA official.

Name of Publication: Click here to enter text. Date of Publication: Click here to enter text.

Original NF-1676 Approval #: Click here to enter text. Date of Approval: Click here to enter text.

Typed Name: Click here to enter text. Signature: Click here to enter text.

Mail code: Click here to enter text. Date: Click here to enter text.

Rationale for Public Release II

The information pertains exclusively to the release of general scientific, mathematical, or engineering principles commonly taught in schools, colleges and universities, e.g. data pertaining to studies of biomedical or planetary sciences without disclosure of information pertaining to articles controlled by the ITAR or EAR such as flight instruments, high speed computers, or launch vehicles.

Typed Name: Click here to enter text. Signature: Click here to enter text.

Mail code: Click here to enter text. Date: Click here to enter text.

Rationale for Public Release III

The information falls into the areas of concern as referenced above, but is offered at a general purpose of high level, e.g. poster briefs and overviews, where no specific information pertaining to ITAR or EAR controlled items is offered.

Typed Name: Click here to enter text. Signature: Click here to enter text.

Mail code: Click here to enter text. Date: Click here to enter text.

Rationale for Public Release IV

The information pertains exclusively to the release of software and assurance methodologies or studies, without disclosing information pertaining to articles controlled by the ITAR or EAR.

Typed Name: Click here to enter text. Signature: Click here to enter text.

Mail code: Click here to enter text. Date: Click here to enter text.

Rationale for Public Release V

There is a compelling written reason for the public release of the information that is not covered by the "rationale" items I-IV above. The information to be released cannot be used to exploit or defeat controlled U.S. technologies. It is therefore requested that the CEA review the attached supporting statement and approve the release of the information pursuant to the exemption CFR22 - 125.4(b)(13). To use this rationale, the Requestor must provide/include a written statement that provides the export classification of the technical data and explains why the release of the information is a reasonable and advisable action.

Typed Name: Click here to enter text. Signature: Click here to enter text.

Mail code: Click here to enter text. Date: Click here to enter text.

Export Classification: Click here to enter text.

Rationale Supporting decontrol and release: Click here to enter text.

Additional Information: Click here to enter text.

B-6: Defense Articles Frequently Used by NASA

USML Defense Articles Commonly Used by NASA
Category IV—LAUNCH VEHICLES, GUIDED MISSILES, BALLISTIC MISSILES, ROCKETS, TORPEDOES, BOMBS AND MINES
• Rockets (including but not limited to meteorological and other sounding rockets);
• Launch vehicles;
• Apparatus, devices, and materials for the handling, control, activation, monitoring, detection, protection, discharge, or detonation of rockets and launch vehicles;
• Missile and space launch vehicle power plants; and
• Ablative materials fabricated or semi-fabricated from advanced composites (e.g., silica, graphite, carbon, carbon/carbon, and boron filaments).
CATEGORY V—EXPLOSIVES AND ENERGETIC MATERIALS, PROPELLANTS, INCENDIARY AGENTS AND THEIR CONSTITUENTS
• Used primarily on rockets, launch vehicles, and spacecraft.
CATEGORY VIII—AIRCRAFT AND RELATED ARTICLES
• Joint programs with DOD or NASA use of “military” aircraft (such as UAVs) and associated equipment (such as military aircraft engines) that were specifically designed, modified, or equipment for military purposes.
CATEGORY XII – FIRE CONTROL, RANGE FINDER, OPTICAL AND GUIDANCE AND CONTROL EQUIPMENT
• Missile tracking and guidance systems.
CATEGORY XV—SPACECRAFT AND RELATED ARTICLES
• Spacecraft with certain electro-optical remote sensing capabilities, spacecraft that provides space-based logistics or servicing of any other spacecraft, spacecraft with an integrated propulsion system other than that required attitude control;

• Ground control stations for telemetry, tracking and control of spacecraft or satellites in this category, or employing any of the cryptographic items controlled under category XIII of this subchapter; and
• Global Positioning System (GPS) receiving equipment specifically designed, modified or configured for military use; or GPS receiving equipment with characteristics defined in USML.

MTCR Defense Articles Commonly Used by NASA
CATEGORY I - ITEM 1
• Complete Delivery Systems
CATEGORY I - ITEM 2
• Complete Subsystems Usable For Complete Delivery Systems
CATEGORY II - ITEM 3
• Propulsion Components And Equipment
CATEGORY II - ITEM 4
• Propellants and Constituent Chemicals for Propellants
CATEGORY II - ITEM 10
• Flight Control Systems
CATEGORY II - ITEM 12
• Launch Support Equipment, Facilities, and Software for Systems in Item 1
CATEGORY II - ITEM 16
• Modelling-Simulation And Design Integration
CATEGORY II - ITEM 18
• Nuclear Effects Protection

B-7: Frequently Used Exemption/Exception List

Title 14 – Aeronautics and Space, Ch.5, Part 1217
1217.100 to 1217.106 – Duty Free Entries of Space Articles
Title 15 – Commerce and Foreign Trade, Subtitle B, Ch.7, Subchapter C, Part 740
740.3 – Shipments of limited value (LVS)
740.4 – Shipments to Country Group B countries (GBS); See Supplement 1 to 740 – Country Groups
740.6 – Technology and software under restriction (TSR)
740.7 – Computers (APP)
740.9 – Temporary imports, exports, reexports, and transfers (in-country) (TMP)
740.10 – Servicing, and replacement of parts and equipment (RPL)
740.11 - Governments, international organizations, international inspections under the Chemical Weapons Convention, and the International Space Station (GOV)
740.12 – Gift parcels and humanitarian donations (GFT)
740.13 – Technology and software—unrestricted (TSU)
740.14 – Baggage (BAG)
740.15 – Aircraft, vessels and spacecraft (AVS)
740.16 – Additional permissive reexports (APR)
740.17 – Encryption commodities, software and technology (ENC)
740.19 – Consumer Communications Devices (CCD)
740.20 – License Exception Strategic Trade Authorization (STA)
Title 15 – Commerce and Foreign Trade, Subtitle B, Ch.1, Subpart A, Part 30
30.36 – Shipments destined to Canada
30.37(a) – Commodities less than $2500
30.37(b) – Tools of Trade
30.37(f) – Exports of Technology or Software
Title 22 – Foreign Relations, ITAR, Department of States, Ch.1, Subchapter M

123.4(a) (1) – Temporary import of US Items for servicing, repair, inspection, testing, calibration, overhaul, reconditioning, or one-to-to-one replacement
123.16(b)(2) – Components or spare parts less than $500
123.16(b)(3) – Specially designed packing cases
125.4 (b)(3)(7)(11) – General Applicability
125.4(b)(13) – Technical Data approved for public release
126.4(a) – Temporary imports or exports by or for the U.S. Gov. Agency
125.5(c) – Exemptions for plant visits
126.4(c) – Temporary imports or exports or permanent export by U.S. Gov. Agency for U.S. Gov. Agency Abroad
126.5(a) –Temporary import from Canada and export back to Canada for repair, marketing, trade shows
126.5(b) – Permanent or temporary export to Canada for entities lawfully registered with Canada
126.16 - Exemption pursuant to the Defense Trade Cooperation Treaty between the United States and Australia
126.17 - Exemption pursuant to the Defense Trade Cooperation Treaty between the United States and the United Kingdom.
126.18 - Exemptions regarding intra-company, intra-organization, and intra-governmental transfers to employees who are dual nationals or third-country nationals
Title 27 – Alcohol, Tobacco Products, and Firearms, Part 447, Subpart 447, Subpart F
447.53(a)(1) – Importation by a U.S. Gov. Agency
447.53(a)(2) – Importation for the Dept. of Defense

B-8: Sample NDA

Non-Disclosure Acknowledgement Regarding Export-Controlled Items

I, _____, understand that any non-public information and data I receive in the course of my assignment at NASA shall be used only for accomplishing the mission of the program, project and/or duty of my assignment. I will not divulge, publish, or reveal by word, conduct, or any other means such information to any unauthorized person. I will not retransfer or use for other purposes any such information without prior written approval from NASA, and it I will protect such information in accordance with applicable U.S. laws, regulations, and NASA policy. I also understand that any NASA export-controlled data, software, and commodities that I may have access to may not be approved for public dissemination, nor may it be shared or transferred to any foreign person without first obtaining a proper export authorization from the regulatory Agency with jurisdictional authority. By signing this form, I will comply with all U.S. Export Control laws, rules, or regulations and I will contact my NASA sponsor regarding any matters that concern unauthorized access and/or transfer of NASA export-controlled items. I also agree that, upon completion of my assignment at NASA, or if I am reassigned before completion, I will return all non-public information in my possession or dispose of it at the direction of my NASA sponsor.

_____

Signature (Foreign National)

_____

Witness (Sponsor)

_____

Date

B-9: Part One – Contractor 126.4(b)(2) Authorization Request Form

Contractor and Implementing Agreement/Contract:

NASA Program, Project, or Activity with International Participation:

Foreign Participant Agencies/Organizations/ and Countries:

ITAR-controlled Items to be Exported or Accessed by Foreign Parties:

Missions, Functions, Tasks, and Activities to be performed in execution of Agreement or contract:

Roles and Functions:

Physical and Logical Work Access:

Physical Access:

Logical Access:

Training Requirements:

International Partner or Foreign National Certification:

Recordkeeping:

Reviewed/Approved:

(NASA Official approval signature below constitutes written direction for the contractor to export on behalf of NASA)

Project Manager/Sponsor or Designee and Date _____ _____

Review/Recommendation:
Center Export Administrator or Designee and Date _____ _____

Headquarters Export Administrator approval is required to use the 126.4(b) authorization

B-9: Part Two – Contractor 126.4(b)(2) Authorization Request (Format Guidance Example/Clarification Information)

Provide the information under the bolded paragraph headings as indicated by the explanations and examples/samples provided in blue font.

Contractor and Implementing Agreement/Contract:

Indicate the name of the Contractor and date of the agreement, contract: SpandX Corp.; *NASA-ESA EXPORT MOU, signed February 29, 2000 and NASA-SpandX, Launch Services Contract, signed April 1, 2019, (Provide in APPENDIX A).*

NASA Program, Project, or Activity with International Participation:

Describe the program or project and the responsible office(s) and individual(s) with title(s) (e.g. Program Manager or Sponsor):

Extreme X-ray Probe of Radiation Traits (EXPORT), John Doe, Project Manager, GSFC Program Office Radiation under the NASA Science Mission Directorate.

Foreign Participant Agencies/Organizations/ and Countries:

Provide a list of the organizations and countries that are signatories or participants under the Agreement/contract/grant/affiliation. Additionally, the individual participants should be listed or provided in an ANNEX, if they are known.

- *ESA, Germany*
- *CNES, France*
- *ASI, Italy*
- *JAXA, Japan*
- *ROSCOSMOS, Russia*

Export-Controlled Items to be Transferred to or Accessed by Foreign Parties:

As specified in the Agreement or contract, identify export-controlled items with export classification for the following categories of items that will be exported or transferred (NASA-owned items will be signified with double superscripted asterisks**). Additionally, describe the methods that will be employed to ensure security of export controlled items.

Hardware: *(List or include in APPENDIX B)*

Software: *(List or include in APPENDIX C)*

Technical Data: *(List or include in APPENDIX D)*

Defense Services: *(List or include in APPENDIX E)*

Are there current or prior related Technical Assistance Agreements, if so include in APPENDIX F.

Provide an export milestones overview summary as APPENDIX G, which addresses a proposed schedule for exports/import to include the information below [a one-page chart may be sufficient]:

- Government-to-government agreement commodity required transfer dates
- If appropriate, Project Implementation Plan dates
- Licenses and TAAs required dates [if applicable]
- Import Certification required dates [if applicable]

Missions, Functions, Tasks, and Activities to be Performed in Execution of Agreement or Contract:

Describe the primary missions, activities, and tasks that must be performed to successfully meet the obligations or requirements of the Agreement/contract. For those programs where a Joint Project Implementation Plan (JPIP) exists, a summary descriptive statement can be provided with appropriate JPIP references and the JPIP document can be attached as an additional Annex.

Roles and Functions:

Identify each role or position that will be required for International Partners (IPs) or other foreign parties to perform the missions, activities, and tasks specified in the Agreement/contract. Then describe the functions that are to be performed by each of the roles or positions and the NASA export-controlled items and classification to which they will require access and whether they will need training on the use of these items.

Physical and Logical Work Access:

<u>Physical Access:</u>

Foreign National(s) identified in this authorization require access to the following facility(ies) based on their roles and functions under the Agreement/contract:

Building/Room - Access purpose:

- Bldg. 214, room 113A - Semi-permanent office space.
- Bldg. 214 - Break and lunch room provisions.
- Bldg. 215, Room 4A - Assembly, Integration, and Test (AIT) work areas.
- Bldg. 215, Room 4B - Collaboration with NASA and SpandX team members during assembly, integration, and testing.

(An attachment may be used that identifies the specific individuals and specific roles that require the same exact physical access)

All other buildings on NASA Center or contractor facilities are considered off-limits without appropriate escort and the visitor has been made aware they will not be authorized to enter another facility without prior approval.

Only trained escorts who are U.S. citizens, LPRs, or foreign nationals from non-designated countries with a valid NASA PIV credential, or a Department of Defense Common Access Card (CAC) or other Federal agency PIV that has been successfully registered utilizing the NASA credential registration process, shall be allowed to escort foreign nationals at NASA facilities. Escorts must hold current export training credentials in order to perform escort duties.

All U.S. personnel working in an area for which foreign person access is approved, will be made aware, so that they can maintain appropriate discipline to protect controlled sensitive information and items.

Logical Access:

Identify information technology equipment and access that is required to satisfy the requirements of the Agreement/contract.

(An attachment may be used that identifies the specific individuals and specific roles that require the same exact logical access)

Identify the anticipated means of export and required authority for each export-controlled item listed in the Agreement (see sample format below) .

1. *Export-Controlled technical data will be transferred to parties to the agreement in technical exchange meetings, under Exemption authority 22 CFR 126.4(b)(2). This will be documented in the meeting minutes, along with the date and time of the meeting, participants, and technical data with classification that is disclosed.*

2. *SpandX Corp. will need to obtain an export license from the DoS for the export of the cryocoolers to ESA's offices in Noordwijk, the Netherlands. License application should be made no later than September 1, 2023; export required by April 1, 2024; launch October 31, 2024.*

Training Requirements:

Technology transfer control briefings or training presentations will be provided to all personnel that support the Agreement/contract on an annual basis, to ensure those interacting with export-controlled items and/or international partners or other foreign persons are aware of current technology transfer processes and procedural requirements. This briefing/training will be conducted by or with CEA or HEA concurrence.

Separate training should be provided for two groups:

- U.S. persons
- Foreign persons

International Partner or Foreign National Certification:

The Contractor shall ensure that all International Partners or Foreign Nationals associated with this authorization sign a written document acknowledging that he/she has been briefed and given written information regarding the following:

1) Role(s) and function(s) at NASA,

2) Physical locations/information technology access authorized,

3) When he/she is authorized access to ITAR-controlled resources in order to perform assigned duties, and

4) What export-controlled items he/she may access, including any associated conditions and/or limitations."

5) Non-disclosure agreement (certification that FN will not disclose, export, or transfer export-controlled data or hardware to any other foreign entity without prior written approval from the CEA).

Recordkeeping:

Each contractor employee who transfers ITAR-controlled information under a license or license exemption exception must keep appropriate records of their transfers. For meetings, this can be accomplished with the minutes of the meeting. Records of export-controlled transactions must include the following information:

(1) the exporter (the person transferring the information),

(2) date of transfer,

(3) the recipient,

(4) description of the controlled information transferred,

(5) title or subject of the document, software program, computer file, etc.,

(6) method of transfer [e.g. physical shipment, verbal disclosure, visual disclosure, in-country transfer, or temporary export (hand-carried), and

(7) export authorization.

These records must be readily available, and provided to the HEA or Center Export Administrator (CEA) on demand within 3 business days.

Review/Approval:

(NASA Official approval signature below constitutes written direction for the contractor to export on behalf of NASA)

Project Manager/Sponsor or Designee and Date _____ _____

Review/Recommendation:
Center Export Administrator or Designee and Date _____ _____

Headquarters Export Administrator approval is required to use the 126.4(b) authorization

B-10: Sample Export Authorization Record Log

Export Authorization Record Log

Export Jurisdiction/Classification: ITAR USML Category or EAR CCL ECCN
Export Method: In-person, email, hand-carry, shipment, etc.
Export Authorization: License, license exemption/exception, General Correspondence (GC), etc.
Notes: Exporter/recipient contact information, export location (e.g., conference), etc.

	Export Item/ Technical Data	Program/ Project	Export Date	Exporter	Recipient	Recipient Citizenship	Export Jurisdiction/ Classification	Export Method	Export Authorization	Notes
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										

APPENDIX C: KEY DEFINITIONS

The ITAR and EAR have specific definitions for export control-related terms. It is important to be familiar with both sets of definitions as well as other export-related terms to ensure proper compliance. The definitions listed are from the electronic Code of Federal Regulations (CFR); to confirm the definition is correct, please click on the CFR link that follows the definition.

ITAR DEFINITIONS

Automated Export System (AES) - The Automated Export System (AES) is the Department of Commerce, Bureau of Census, electronic filing of export information. The AES shall serve as the primary system for collection of export data for the Department of State. In accordance with this subchapter U.S. exporters are required to report export information using AES for all hardware exports. Exports of technical data and defense services shall be reported directly to the Directorate of Defense Trade Controls (DDTC). Also, requests for special reporting may be made by DDTC on a case-by-case basis, (e.g., compliance, enforcement, congressional mandates). See 22 CFR §120.30.

Commodity jurisdiction - procedure is used with the U.S. Government if doubt exists as to whether an article or service is covered by the U.S. Munitions List. It may also be used for consideration of a re-designation of an article or service currently covered by the U.S. Munitions List. See 22 CFR §120.4 for full definition.

Defense Article - any item on the USML including "technical data". See 22 CFR §120.6 for full definition.

Defense Service - furnishing of assistance (including training) to foreign persons, whether in the U.S. or abroad in the design, development, engineering, manufacture, production, assembly, testing, repair, maintenance, modification, operation, demilitarization, destruction, processing or use of defense articles; furnishing to foreign persons of any technical data; or military training of foreign units and forces, regular and irregular, including formal or informal instruction of foreign persons in the U.S. or abroad or by correspondence courses, technical, educational, or information publications and media of all kinds. See 22 CFR §120.9.

End item - a system, equipment, or an assembled article ready for its intended use. Only ammunition or fuel or other energy source is required to place it in an operating state. See 22 CFR §120.45(a).

Exemption - an ITAR authorization from Defense Trade Control for exports of unclassified defense articles and defense services without a license under certain specific provisions or limitations. Exemptions can be found in the ITAR. All conditions of an Exemption must be met before use is authorized. Use of Exemptions for exports must have the concurrence of the CEA or the HEA and there are recordkeeping and reporting requirement to HEA. See 22 CFR §123, §125, and §126 for a description of the most relevant ITAR License Exemptions

Export - (1) Except as set forth in §126.16 or §126.17, export means: (1) An actual shipment or transmission out of the United States, including the sending or taking of a defense article out of the United States in any manner; (2) Releasing or otherwise transferring technical data to a foreign person in the United States (a "deemed export"); (3) Transferring registration, control, or ownership of any aircraft, vessel, or satellite subject to the ITAR by a U.S. person to a foreign person; (4) Releasing or otherwise transferring a defense article to an embassy or to any of its agencies or subdivisions, such as a diplomatic mission or consulate, in the United States; (5) Performing a defense service on behalf of, or for the benefit of, a foreign person, whether in the United States or abroad; or (6) A launch vehicle or payload shall not, by reason of the launching of such vehicle, be considered an export for purposes of this subchapter. However, for certain limited purposes (see §126.1 of this subchapter), the controls of this subchapter may apply to any sale, transfer or proposal to sell or transfer defense articles or defense services. (b) Any release in the United States of technical data to a foreign person is deemed to be an export to all countries in which the foreign person has held or holds citizenship or holds permanent residency. See 22 CFR §120.17.

Fundamental research - basic and applied research in science and engineering where the resulting information is ordinarily published and shared broadly within the scientific community, as distinguished from research the results of which are restricted proprietary reasons or specific U.S. Government access and dissemination controls. University research will not be considered fundamental research if: (1) the university or its researchers accept other restrictions on publication of scientific and technical information resulting from the project or activity or (2) the research is funded by the U.S. Government and specific access and dissemination controls protecting information resulting from the research are applicable. See 22 CFR §120.11(a)(8).

License - License means a document bearing the word "license" issued by the Deputy Assistant Secretary of State for Defense Trade Controls, or his authorized designee, that permits the export, temporary import, or brokering of a specific defense article or defense service controlled by this subchapter. See 22 CFR §120.20.

Public domain - information which is published and which is generally accessible or available to the public: (1) Through sales at newsstands and bookstores; (2) Through subscriptions which are available without restriction to any individual who desires to obtain or purchase the published information; (3) Through second class mailing privileges granted by the U.S. Government; (4) At libraries open to the public or from which the public can obtain documents; (5) Through patents available at any patent office; (6) Through unlimited distribution at a

conference, meeting, seminar, trade show or exhibition, generally accessible to the public, in the United States; (7) Through public release (i.e., unlimited distribution) in any form (e.g., not necessarily in published form) after approval by the cognizant U.S. government department or agency (see also §125.4(b)(13) of this subchapter); (8) Through fundamental research in science and engineering at accredited institutions of higher learning in the U.S. where the resulting information is ordinarily published and shared broadly in the scientific community. Fundamental research is defined to mean basic and applied research in science and engineering where the resulting information is ordinarily published and shared broadly within the scientific community, as distinguished from research the results of which are restricted for proprietary reasons or specific U.S. Government access and dissemination controls. University research will not be considered fundamental research if: (i) The University or its researchers accept other restrictions on publication of scientific and technical information resulting from the project or activity, or (ii) The research is funded by the U.S. Government and specific access and dissemination controls protecting information resulting from the research are applicable. See 22 CFR §120.11.

Software - includes but is not limited to the system functional design, logic flow, algorithms, application programs, operating systems, and support software for design, implementation, test, operation, diagnosis and repair. A person who intends to export only software should, unless it is specifically enumerated in §121.1 of this subchapter (e.g., USML Category XIII(b)), apply for a technical data license pursuant to part 125 of this subchapter. See 22 CFR §120.45(f).

Specially designed - Except for commodities or software described in paragraph (b) of this section, a commodity or software (*see* §121.8(f) of this subchapter) is specially designed if it: (1) As a result of development, has properties peculiarly responsible for achieving or exceeding the controlled performance levels, characteristics, or functions described in the relevant U.S. Munitions List paragraph; or (2) Is a part (*see* §121.8(d) of this subchapter), component (*see* §121.8(b) of this subchapter), accessory (*see*§121.8(c) of this subchapter), attachment (*see* §121.8(c) of this subchapter), or software for use in or with a defense article. (b) For purposes of this subchapter, a part, component, accessory, attachment, or software is not specially designed if it: (1) Is subject to the EAR pursuant to a commodity jurisdiction determination; (2) Is, regardless of form or fit, a fastener (e.g., screws, bolts, nuts, nut plates, studs, inserts, clips, rivets, pins), washer, spacer, insulator, grommet, bushing, spring, wire, or solder; (3) Has the same function, performance capabilities, and the same or "equivalent" form and fit as a commodity or software used in or with a commodity that: (I) Is or was in production (*i.e.,* not in development); and (ii) Is not enumerated on the U.S. Munitions List; (4) Was or is

being developed with knowledge that it is or would be for use in or with both defense articles enumerated on the U.S. Munitions List and also commodities not on the U.S. Munitions List; or (5) Was or is being developed as a general purpose commodity or software, *i.e.,* with no knowledge for use in or with a particular commodity (e.g., a F/A-18 or HMMWV) or type of commodity (e.g., an aircraft or machine tool). See 22 CFR §120.41.

Technical Data - information which is required for the design, development, production, manufacture, assembly, operation, repair, testing, maintenance, or modification of "defense articles", classified information related to "defense articles"' information covered by an invention secrecy order, software directly related to "defense articles". Does not include information concerning general scientific, mathematical or engineering principles commonly taught in schools, colleges, and universities or information in the "public domain". It also does not include basic marketing information on function or purpose or general system descriptions of "defense articles". See 22 CFR §120.10.

Temporary export - generally less than four (4) years with no transfer of title. See 22 CFR §120.18.

U.S. Person - a natural person who is a lawful permanent resident as defined in 8 U.S.C §1101(a) (20) or who is a protected individual as defined by 8 U.S.C. §1324b (a) (3). It also means any corporation, business, association, partnership, society, trust, or any other entity, organization or group that is incorporated to do business in the U.S. It also includes any governmental (Federal, state or local), entity. See CFR §120.15.

EAR DEFINITIONS

Adjusted Peak Performance (APP) - An adjusted peak rate at which "digital computers" perform 64-bit or larger floating point additions and multiplications. The formula to calculate APP is contained in a technical note at the end of Category 4 of the Commerce Control List. See 15 CFR §772.

Automated Export System (AES) - AES is a nationwide system operational at all ports and for all methods of transportation through which export shipment data required by multiple agencies is filed electronically to U.S. Customs and Border Protection, using the efficiencies of Electronic Data Interchange (EDI). AES allows the export information to be collected electronically and edited immediately. See 15 CFR §772.

Bill of Lading - The contract of carriage and receipt for items, issued by the carrier. It includes an air waybill, but does not include an inland bill of lading or a domestic air waybill covering movement to port only. See 15 CFR §772.

Commodity is any article, material, or supply except technology and software. See 15 CFR §772.

Composite Theoretical Performance - This is metric that was used to gauge the computing-performance capacity of a high performance computer (HPC). We cite this outdated term in the manual because is still referenced in the EAR for completing a license application in 15 CFR Supplement No.1 §748, Block 22(b).

Country Chart - A chart, found in Supplement No. 1 to part 738 of the EAR, that contains certain licensing requirements based on destination and reason for control. In combination with the CCL, the Country Chart indicates when a license is required for any item on the CCL to any country in the world under General Prohibition One (Exports and Reexports in the Form Received), General Prohibition Two (Parts and Components Reexports), and General Prohibition Three (Foreign Produced Direct Product Reexports). See part 736 of the EAR. See 15 CFR §772.

Dual-use are items that have both commercial and military or proliferation applications. While this term is used informally to describe items that are subject to the EAR, purely commercial items and certain munitions items listed on the Wassenaar Arrangement Munitions List or the Missile Technology Control Regime Annex are also subject to the EAR (see §734.2(a) of the EAR). See 15 CFR §772.

End item - a system, equipment or assembled commodity ready for its intended use. Only ammunition, or fuel or other energy source is required to place it in an operating state. Examples of end items include ships, aircraft, computers, firearms, and milling machines. See 15 CFR §772.

End-user- The person abroad that receives and ultimately uses the exported or reported items. The end-user is not a forwarding agent or intermediary, but may be the purchaser or ultimate consignee. See 15 CFR §772.

Exception is an EAR authorization that allows an export or reexport of an otherwise controlled item to proceed without a license, provided that certain specified conditions are met. Exception is a Bureau of Industry and Security (BIS) term and applies only to items under the jurisdiction of the EAR. Use of Exceptions for exports must have the concurrence of the Center

Export Administrator (CEA) or the Headquarters Export Administrator (HEA). See 15 CFR §740 for a description of all EAR License Exceptions.

Export - (1) An actual shipment or transmission out of the United States, including the sending or taking of an item out of the United States, in any manner; (2) Releasing or otherwise transferring "technology" or source code (but not object code) to a foreign person in the United States (a "deemed export"); (3) Transferring by a person in the United States of registration, control, or ownership of: (i) A spacecraft subject to the EAR that is not eligible for export under License Exception STA (i.e., spacecraft that provide space-based logistics, assembly or servicing of any spacecraft) to a person in or a national of any other country; or (ii) Any other spacecraft subject to the EAR to a person in or a national of a Country Group D:5 country. (b) Any release in the United States of "technology" or source code to a foreign person is a deemed export to the foreign person's most recent country of citizenship or permanent residency. (c) The export of an item that will transit through a country or countries to a destination identified in the EAR is deemed to be an export to that destination. See 15 CFR §734.13.

Export Control Classification Number (ECCN) – a five character (Digit)-identifies CCL category; - a five character, Alpha-numeric symbol; e.g., 9A004– First Character (Digit)- identifies CCL category; e.g., 9 is Propulsion Systems, Space Vehicles and Related Equipment. Second Character (Letter) - identifies which of five "groups" the item. See BIS's explanation for ECCN's.

Export Control Document – a license; application for license; any and all documents submitted in accordance with the requirements of the EAR in support of, or in relation to, a license application; application for International Import Certificate; Delivery Verification Certificate or similar evidence of delivery; Electronic Export Information (EEI) on the Automated Export System (AES) presented in connection with shipments to any country; a Dock Receipt or bill of lading issued by any carrier in connection with any export subject to the EAR and any and all documents prepared and submitted by exporters and agents pursuant to the export clearance requirements of Part 758 of the EAR; a U.S. exporter's report of request received for information, certification, or other action indicating a restrictive trade practice or boycott imposed by a foreign country against a country friendly to the United States, submitted to the U.S. Department of Commerce in accordance with the provisions of Part 760 of the EAR; Customs Form 7512, Transportation Entry and Manifest of Goods, Subject to Customs Inspection and Permit, when used for Transportation and Exportation (T.& E.) or Immediate Exportation (I.E.); and any other document issued by a U.S. Government agency as evidence of the existence of a license for the purpose of loading onto an exporting carrier or otherwise

facilitating or effecting an export from the United States or any reexport of any item requiring a license. See 15 CFR §772.

Fundamental research - research in science, engineering, or mathematics, the results of which ordinarily are published and shared broadly within the research community, and for which the researchers have not accepted restrictions for proprietary or national security reasons.

Intermediate consignee - the person that acts as an agent for a principal party in interest for the purpose of effecting delivery of items to the ultimate consignee. The intermediate consignee may be a bank, forwarding agent, or other person who acts as an agent for a principal party in interest. See 15 CFR §772.

License - authority issued by the Bureau of Industry and Security authorizing an export, reexport, or other regulated activity. The term "license" does not include authority represented by a "License Exception." See 15 CFR §772.

License Exception – often referred to simply as "exception", an authorization described in part 740 of the EAR that allows you to export or reexport, under stated conditions, items subject to the EAR that otherwise would require a license. Unless otherwise indicated, these License Exceptions are not applicable to exports under the licensing jurisdiction of agencies other than the Department of Commerce. See 15 CFR §772.

Missile Technology Control Regime (MTCR) - the United States and other nations in this multilateral control regime have agreed to guidelines for restricting the export and reexport of dual-use items that may contribute to the development of missiles. The MTCR Annex lists missile-related equipment and technology controlled either by the Department of Commerce's Bureau of Industry and Security—Export Administration Regulations (15 CFR Parts 730 through 799) or by the Department of State's Directorate of Defense Trade Controls—International Traffic in Arms Regulations (22 CFR Parts 120 through 130). See 15 CFR §772.

Missile Technology Export Control Group (MTEC) - chaired by the Department of State, the MTEC primarily reviews applications involving items controlled for Missile Technology (MT) reasons. The MTEC also reviews applications involving items not controlled for MT reasons, but destined for a country and/or end-use/end-user of concern. See 15 CFR §772.

No License Required (NLR) - "No License Required (NLR)" is an authorization for shipment of an item that may change, depending on the transaction. NLR may be used for either EAR99 items, or items on the CCL that do not require a license for the destination in question, provided no

General Prohibitions apply; NLR ("no license required") is also the symbol entered on the Electronic Export Information filing for the Automated Export System certifying that there is an authorization of "No License Required" for the export.

Reexport-(a) Except as set forth in §§734.18 and 734.20, Reexport means: (1) An actual shipment or transmission of an item subject to the EAR from one foreign country to another foreign country, including the sending or taking of an item to or from such countries in any manner; (2) Releasing or otherwise transferring "technology" or source code subject to the EAR to a foreign person of a country other than the foreign country where the release or transfer takes place (a deemed reexport); (3) Transferring by a person outside the United States of registration, control, or ownership of: (i) A spacecraft subject to the EAR that is not eligible for reexport under License Exception STA (i.e., spacecraft that provide space-based logistics, assembly or servicing of any spacecraft) to a person in or a national of any other country; or (ii) Any other spacecraft subject to the EAR to a person in or a national of a Country Group D:5 country. (b) Any release outside of the United States of "technology" or source code subject to the EAR to a foreign person of another country is a deemed reexport to the foreign person's most recent country of citizenship or permanent residency, except as described in §734.20. (c) The reexport of an item subject to the EAR that will transit through a country or countries to a destination identified in the EAR is deemed to be a reexport to that destination. See 15 CFR §734.14.

Scientific, Technical and Research Information discoVEry System (STRIVES)- The Scientific and Technical Information Program (NPD 2200.2) system for STI submission and review.

Specially designed- When applying this definition, follow this sequential analysis set forth below. (For additional guidance on the order of review of "specially designed," including how the review of the term relates to the larger CCL, see Supplement No. 4 to Part 774 of the EAR—Commerce Control List Order of Review.) See 15 CFR §772.

(a) Except for items described in (b), an "item" is "specially designed" if it:

(1) As a result of "development" has properties peculiarly responsible for achieving or exceeding the performance levels, characteristics, or functions in the relevant ECCN or U.S. Munitions List (USML) paragraph; or

(2) Is a "part," "component," "accessory," "attachment," or "software" for use in or with a commodity or defense article 'enumerated' or otherwise described on the CCL or the USML.

(b) A “part,” “component,” “accessory,” “attachment,” or “software” that would be controlled by paragraph (a) is not “specially designed” if it:

(1) Has been identified to be in an ECCN paragraph that does not contain “specially designed” as a control parameter or as an EAR99 item in a commodity jurisdiction (CJ) determination or interagency-cleared commodity classification (CCATS) pursuant to §748.3(e);

(2) Is, regardless of ‘form’ or ‘fit,’ a fastener (e.g., screw, bolt, nut, nut plate, stud, insert, clip, rivet, pin), washer, spacer, insulator, grommet, bushing, spring, wire, solder;

(3) Has the same function, performance capabilities, and the same or ‘equivalent’ form and fit, as a commodity or software used in or with an item that:

(i) Is or was in “production” (i.e., not in “development”); and

(ii) Is either not ‘enumerated’ on the CCL or USML, or is described in an ECCN controlled only for Anti-Terrorism reasons;

(4) Was or is being developed with “knowledge” that it would be for use in or with commodities or software (i) described in an ECCN and (ii) also commodities or software either not ‘enumerated’ on the CCL or the USML (e.g., EAR99 commodities or software) or commodities or software described in an ECCN controlled only for Anti-Terrorism (AT) reasons;

(5) Was or is being developed as a general purpose commodity or software, i.e., with no “knowledge” for use in or with a particular commodity (e.g., an F/A-18 or HMMWV) or type of commodity (e.g., an aircraft or machine tool); or

(6) Was or is being developed with “knowledge” that it would be for use in or with commodities or software described (i) in an ECCN controlled for AT-only reasons and also EAR99 commodities or software; or (ii) exclusively for use in or with EAR99 commodities or software.

Technical assistance - may take forms such as instruction, skills, training, working knowledge, consulting services. Technical assistance may involve transfer of technical data (15 CFR §772).

Technical Data- may take forms such as blueprints, plans, diagrams, models, formulae, tables, engineering designs and specifications, manuals and instructions written or recorded on other media or devices such as disk, tape, or read-only memories. See 15 CFR §772.

Technology - information necessary for the "development," "production," "use," operation, installation, maintenance, repair, overhaul, or refurbishing (or other terms specified in ECCNs on the CCL that control "technology") of an item. N.B.: Controlled "technology" is defined in the General Technology Note and in the Commerce Control List (Supplement no. 1 to part 774 of the EAR).

Note 1 to definition of Technology: "Technology" may be in any tangible or intangible form, such as written or oral communications, blueprints, drawings, photographs, plans, diagrams, models, formulae, tables, engineering designs and specifications, computer-aided design files, manuals or documentation, electronic media or information revealed through visual inspection;

Note 2 to definition of Technology: The modification of the design of an existing item creates a new item and technology for the modified design is technology for the development or production of the new item. (15 CFR §772)

Transfer - A shipment, transmission, or release of items subject to the EAR either within the United States or outside the United States. See 15 CFR §772 For *In-country transfer/Transfer (in-country)*, see §734.16 of the EAR.

Ultimate consignee - The principal party in interest located abroad who receives the exported or reexported items. The ultimate consignee is not a forwarding agent or other intermediary, but may be the end-user. See 15 CFR §772.

OTHER KEY DEFINITIONS

Associate/Assistant/Alternate – Associate/Assistant refers to full-time; Alternate refers to part-time.

Export Administrative Records – Documents for export control program administration that are not controlled/protected. Examples of Export Administrative Records include: training records, program audit reports, database information, correspondence, and classifications.

Export authorization- an export authorization includes: a license, a license exemption, a license exception, or No License Required (NLR).

Export Control Records – Documentation of transactions that release or deny release of export-controlled items to foreign persons and/or foreign destinations. Examples of Export Control Records include:

- Export licenses obtained by NASA HQ for the Centers
- Documents authorizing the public release of export-controlled information released into the public domain including websites
- Records certifying the use of exemptions or exceptions for exports other than shipping (oral/visual in meetings or electronic transfers)
- Mailing and shipping documentation for export-controlled transactions (invoices, bills of lading, Automated Export System (AES) filings, etc.).
- Export control-related property disposal records
- Meeting records
- Records of electronic transfers

Export controls - restrictions applied by the U.S. Government to the transfer of certain goods, services, software, technical data, and technology to foreign entities.

Export Protected Records – Documents that contain export-controlled information that must be properly marked and protected. Examples of Export Protected Records include: technical data sheets, reports/emails containing technical data, preliminary design reviews (PDRs), mission readiness reviews (MRRs), flight readiness reviews (FRRs), mishap investigation reports, technical drawings, test procedures, and project proposals.

Foreign person - any natural person who is not a U.S. citizen, U.S. lawful permanent resident or a protected individual (i.e., foreign national). A foreign person also includes any foreign corporation, business or other entity that is not incorporated to do business in the U.S., as well as international organizations, foreign governments (federal, state, and local), and any agency or subdivision of foreign governments (e.g., diplomatic missions in the U.S.) (See 22 CFR §120.16 for ITAR definition).

High-level protocol visitor - Per NAII 1600.4, a high-level protocol visit is an event or meeting attend by individuals representing, or delegations of, foreign heads of state or government, ambassadors, heads of foreign government ministries or space agencies.

Lawful permanent resident - a natural person who has been lawfully accorded the privilege of residing permanently in the U.S. under U.S. immigration laws.

NASA Empowered Official - an individual who is recognized by DDTC as having authority, among other things, to sign license requests or other requests for approval on behalf of the Agency, based on the NASA Administrator's delegation of authority through his Associate Administrator for International and Interagency Relations to the Export Control and Interagency Liaison Division (ECILD division director, HEA, and HQ EC specialist).

Off-site meetings - Per NAII 1600.4, meetings held outside a NASA Center are considered off-site meetings when there is an exchange of NASA information or if NASA business is being conducted.

Protected individual - a citizen or national of the U.S.,[44] its territories and possessions; it also includes natural persons[45] who are lawfully admitted for permanent residence, refugee status, or political asylum. See 8 U.S.C. §1324b(a)(3) for full definition of protected individual.

Related entities - Related Entities are contractors and subcontractors at any tier, grantees, investigators, customers, users, and their contractors or subcontractor (at any tier), or employees of the other party's Related Entities.

Scientific and Technical Data (STI) - STI is defined as "the results (the analyses of data and facts and resulting conclusions) of basic and applied scientific, technical, and related engineering research and development."

U.S. person - a person who is a U.S. citizen, a protected individual[46] or a lawful permanent resident[47] (LPR); a U.S. person can also be a corporation, business or other entity that is incorporated to do business in the U.S., and includes all U.S. Governmental entities (federal, state, or local)

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[44] See 8 U.S.C. §1101(a)(22) for full definition of a U.S. national.

[45] A natural person is a human being as opposed to an organization or entity.

[46] See 8 U.S.C. §1324b(a)(3) for full definition of protected individual.

[47] See 8 U.S.C. §1101(a)(20) for full definition of lawful permanent resident.