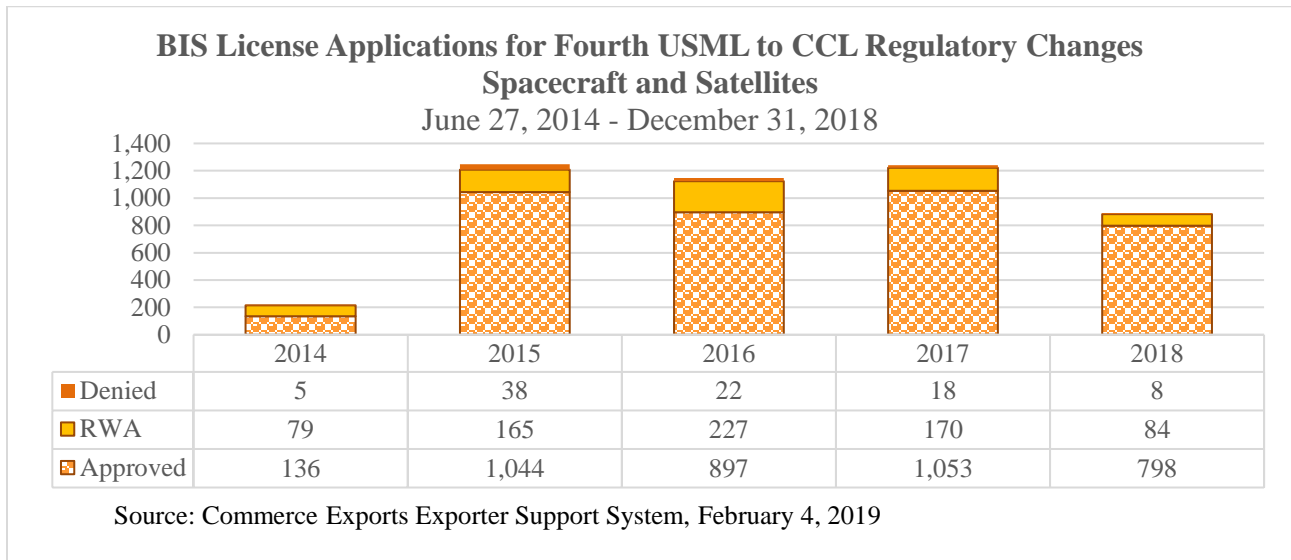


**The Fourth USML to CCL Regulatory Change
 Spacecraft and Satellites**

June 27, 2014 to December 31, 2018

Since the fourth USML to CCL regulatory change became effective on June 27, 2014, the average number of BIS license applications for the four 9x515 items created by this rule is 88 per month through December 31, 2018. The approval rate is 82.8%.

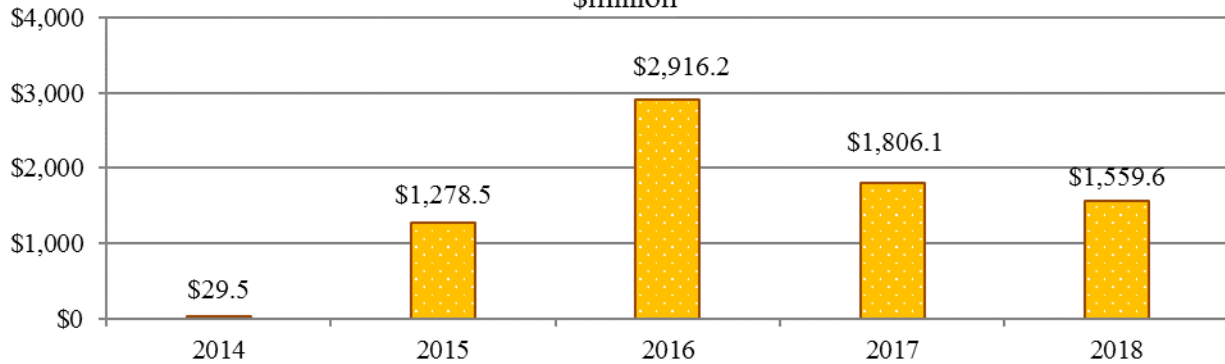


From June 27, 2014 to December 31, 2018, U.S. exports of items under the fourth USML to CCL regulatory change – Spacecraft and Satellites items (9x515) under BIS jurisdiction totaled 14,610 shipments for \$7.6 billion.

**Yearly U.S. Exports under the Fourth USML to CCL Regulatory Change
 under BIS Jurisdiction**

June 27, 2014 to December 31, 2018

\$million

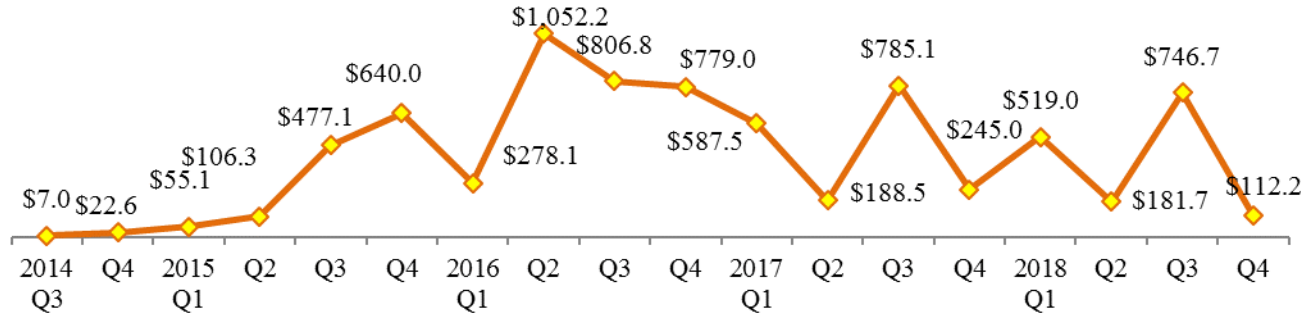


Source: Automated Export System, March 14, 2019

**U.S. Quarterly Exports under the Fourth USML to CCL Regulatory Change
 under BIS Jurisdiction**

June 27, 2014 to December 31, 2018

\$million



Source: Automated Export System, March 14, 2019

**The Fourth USML to CCL Regulatory Change-Satellite
 Top 15 Destinations of U.S. Exports under BIS Jurisdiction by Value**

June 27, 2014 to December 31, 2018

Country	Shipment Count	% of Total Shipment Count	Value \$million	% of Total Value
France	1,831	12.5%	\$1,658.1	21.8%
French Guiana	58	0.4%	\$1,627.9	21.4%
Japan	1,898	13.0%	\$737.8	9.7%
Kazakhstan	5	0.0%	\$442.2	5.8%
Brazil	14	0.1%	\$332.0	4.4%
United Kingdom	1,389	9.5%	\$309.4	4.1%
Mexico	67	0.5%	\$293.4	3.9%
Australia	138	0.9%	\$245.8	3.2%
Spain	1,202	8.2%	\$212.6	2.8%
Hong Kong	35	0.2%	\$166.0	2.2%
Italy	832	5.7%	\$158.2	2.1%
Germany	2,489	17.0%	\$146.1	1.9%
Panama	1	0.0%	\$131.6	1.7%
Bermuda	22	0.2%	\$128.7	1.7%
India	518	3.5%	\$122.6	1.6%
Top 15 Total	10,499		\$6,712.4	
Top 15 Total/ Grand Total		71.9%		88.4%
Grand Total	14,610		\$7,589.9	

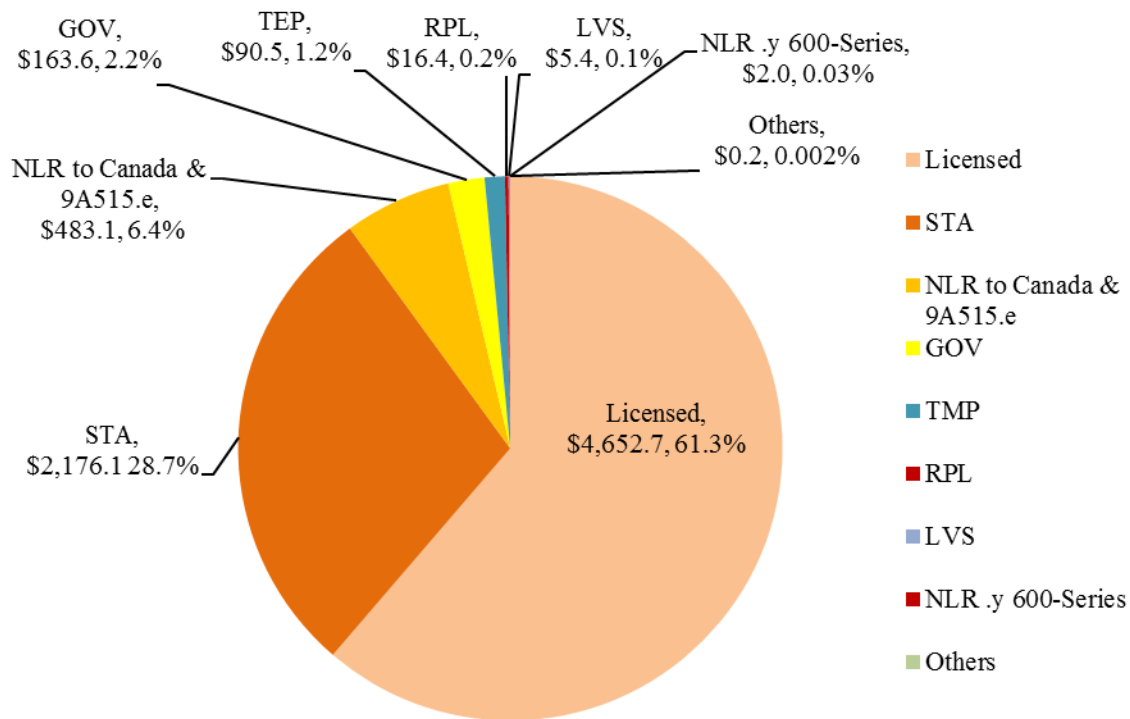
Note: The Guiana Space Center, run by France and European Union, is located in French Guiana.

Source: Automated Export System, March 15, 2019

Of the \$7.6 billion in U.S. exports of 9x515 items in the fourth USML to CCL regulatory change under BIS jurisdiction from June 27, 2014 to December 31, 2018, licensed exports totaled \$4.7 billion (61.3% of the total); Strategic Trade Authorization (STA) totaled \$2.2 billion (28.7 %); and No License Required (NLR) to Canada and 9A515.e items to all other destinations totaled \$483.1 million (6.4%).

**U.S. Exports under the Fourth USML to CCL Regulatory Change
 Spacecraft and Satellites
 by BIS License Type**

June 27, 2014 to December 31, 2018
 \$million



Source: Automated Export System, March 14, 2019

BIS License Exceptions:

STA: Strategic Trade Authorization

NLR: No License Required

TMP: Temporary imports, exports, reexports, and transfers (in-country)

GOV: Governments, international organizations, international inspections under the Chemical Weapons Convention and the International Space Station

RPL: Servicing and replacement of parts and equipment

LVS: Shipments of limited value