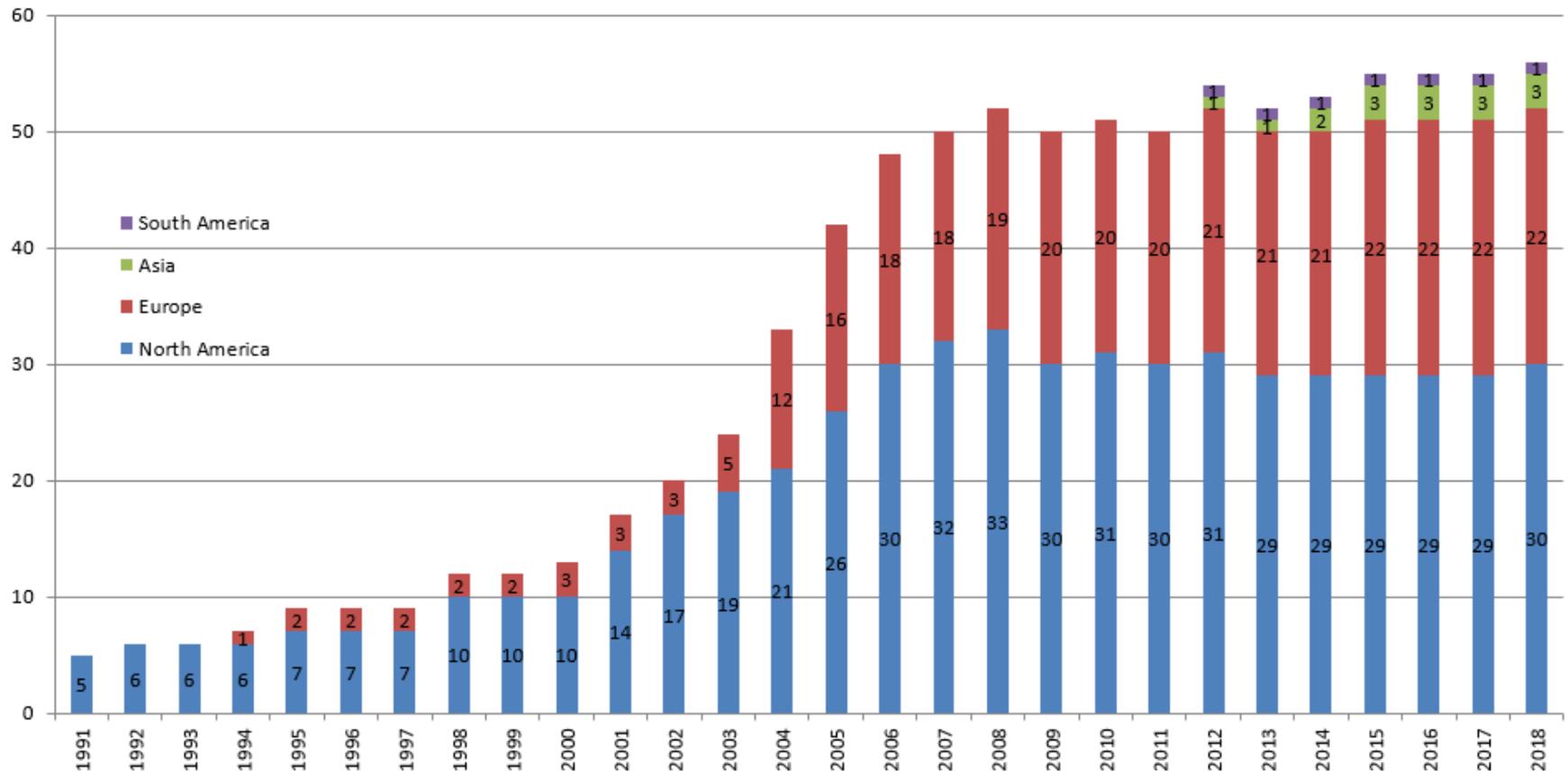




Nadcap Data At A Glance

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1990	New: Hawker Beechcraft	2001	New: Vought, Bell Helicopter, DCMA, Cessna	2011	Lost: United Space Alliance
1991	New: Pratt & Whitney US/Canada, GE, Sikorsky	2002	New: Boeing, MD Helicopters, Lockheed Martin	2012	New: COMAC, Eaton, Embraer, GKN
1992	New: Honeywell	2003	New: Airbus, EADS MTA, Eurocopter, EADS Atrium, EADS Defense	2013	Lost: M7 Aerospace, General Services Administration (GSA)
1993	No new Subscribers	2004	New: Alenia, BAE Systems, Bombardier, Goodrich, Rockwell Collins, Snecma, Sonaca, Zodiac, EADS - Space, Defense and Security, Aeronautics, MTAD	2014	New: Mitsubishi Aircraft Corporation (MITAC) / Mitsubishi Heavy Industries LTD (MHIL), Aerojet Rocketdyne
1994	New: RR plc		Lost: MD Helicopter, NASA HQ		
1995	New: RR Corp, AVID	2005	New: Ball Aerospace, Industria de Turbo Propulsores, Latocore, Liebherr, Lockheed Martin, MD Helicopter, NASA	2015	New: Singapore Technologies Aerospace Ltd., Zodiac Aerospace
1996	No new Subscribers	2006	New: BAE MAS, Heroux Devtek, Parker Aerospace, Spirit, Thales, United Space Alliance	2016	No new Subscribers
1997	No new Subscribers	2007	New: Hawker Beechcraft, 309 Maint, Wing Hill AFB	2017	No new Subscribers
1998	New: Northrop Grumman, GSA, Hamilton Sundstrand	2008	New: General Dynamics, Israel Aerospace Industries, Moog, Raytheon, Volvo	2018	New: Harris Corporation, NASA
1999	No new Subscribers	2009	New: AgustaWestland, Aerolia, Premium Aerotech		Lost: Zodiac Aerospace
2000	New: MTU	2010	New: M7 Aerospace		

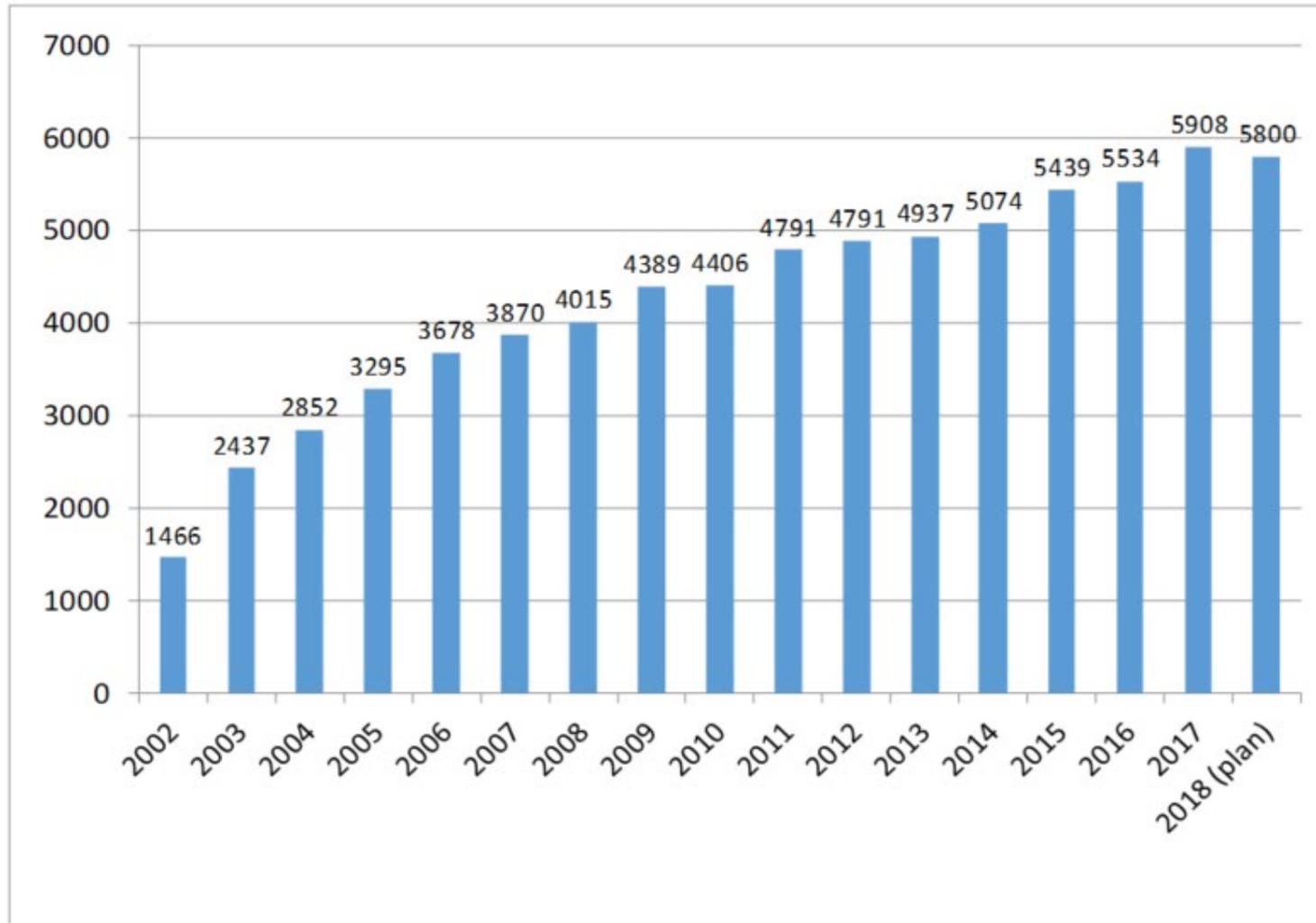
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Nadcap Commodities – When Initiated

1990-1999	2000-2009	2010-2017
1990/1991: <u>Nondestructive</u> Testing (NDT)	2001: Nonconventional Machining (NM), Surface Enhancement (SE)	2010: <u>Nonmetallic</u> Materials Manufacturing (NMMM)
1993: Heat Treating (HT), Materials Testing Laboratories (MTL)	2004: Composites (COMP), Electronics (ETG)	2014: Measurement & Inspection (M&I)
1994: Aerospace Quality Systems (AQS), Chemical Processing (CP), Coatings (CT), Welding (WLD)	2006: <u>Nonmetallic</u> Materials Testing (NMMT)	2015: Metallic Materials Manufacturing
1996: Fluid Distribution Systems (FLU), Sealants (SLT)	2009: Conventional Machining as a Special Process (CMSP)	2016: Aero structures Assembly
1999: Elastomer Seals (SEALS)		2017: Aero Structures Assembly (ASA)

AEROSPACE ACTIVE CUSTOMER AUDITS



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STATUS REPORT – SUPPLIER AUDITS

Commodity	2018 (plan)	2017	2016	2015	2014	2013	2012
Aerospace Quality Systems (AQS)	217	241	247	275	196	232	239
Aero Structures Assembly	6						
Conventional Machining as a Special Process (CMSP)	75	86	92	73	67	75	61
Composites (COMP)	231	222	221	177	186	156	153
Chemical Processing (CP)	1067	1086	1042	1086	1007	934	952
Coatings (CT)	141	169	148	139	131	133	126
Electronics (ETG)	139	153	123	115	104	103	84
Fluid Distribution Systems (FLU)	31	42	36	33	36	26	26
Heat Treating (HT)	908	943	923	889	907	855	877
Measurement & Inspection (M&I)	301	237	81	16	1		
Metallic Materials Manufacturing (MMM)	9	2					
Materials Testing Laboratories (MTL)	258	244	238	212	198	223	193
<u>Nondestructive</u> Testing (NDT)	1264	1288	1220	1142	1077	1006	1009
Nonconventional Machining (NM)	253	250	252	220	216	202	224
<u>Nonmetallic</u> Materials Manufacturing (NMMM)	24	26	23	27	15	13	8
<u>Nonmetallic</u> Materials Testing (NMMT)	46	42	41	34	30	34	25
Surface Enhancement (SE)	214	224	206	186	158	160	140
Elastomer Seals (SEALS)	14	10	12	13	10	8	12
Sealants (SLT)	14	19	14	21	11	21	15
Welding (WLD)	498	525	527	490	491	477	436
Subscriber Accreditation / NUCAP	25	26	28	235	201	222	256
<u>Preassessments</u> – Aerospace	65	73	59	56	32	57	54
Total	5,800	5,908	5,534	5,439	5,074	4,937	4,890

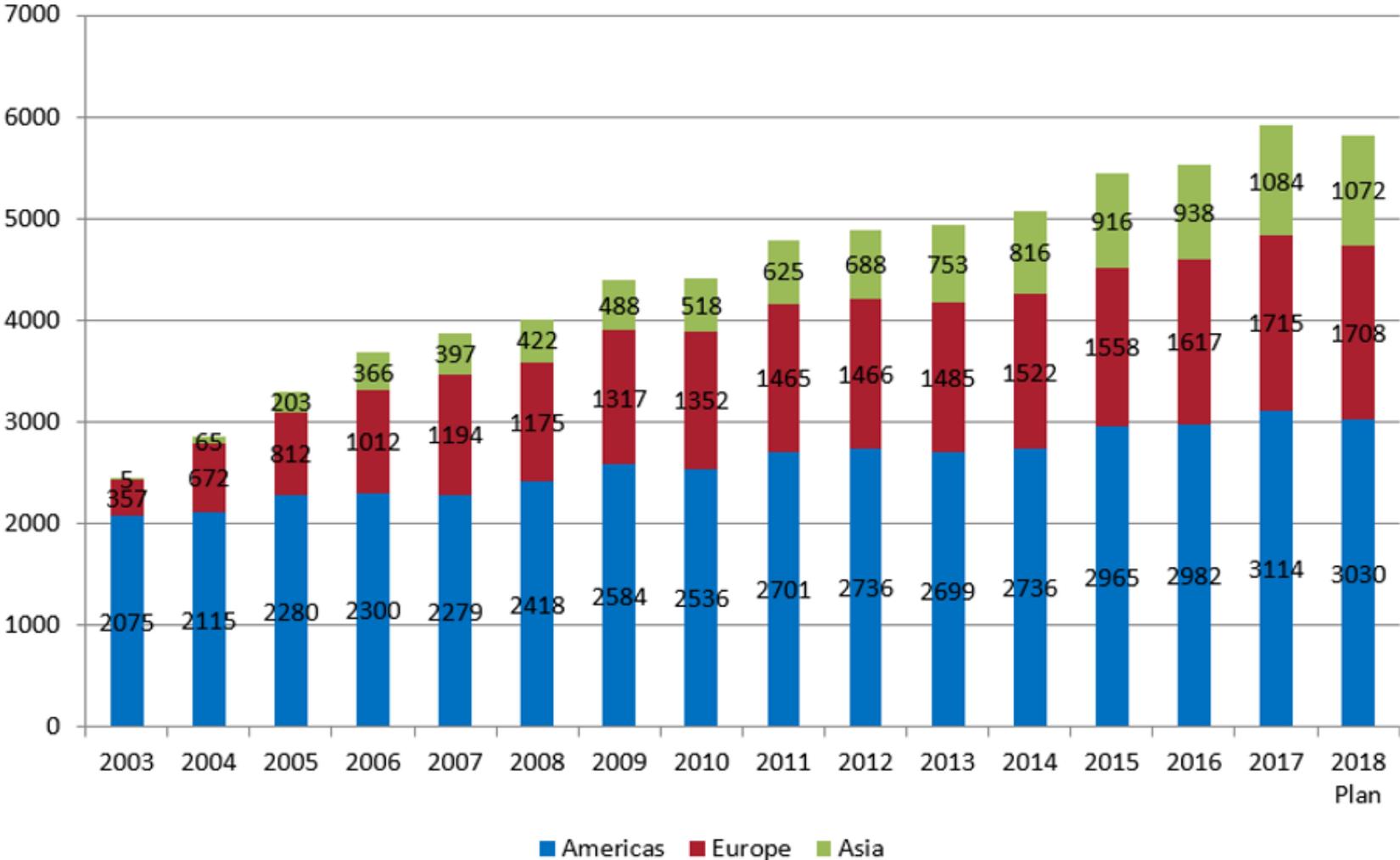
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Active Accreditations (Certificates) by Commodity

Commodity	2010	2011	2012	2013	2014	2015	2016	2017
Aerospace Quality Systems	525	529	545	551	543	549	551	547
Chemical Processing	1,027	1,109	1,259	1,325	1,373	1,451	1,487	1,441
Coatings	140	139	170	179	196	200	211	210
Composites	169	181	207	216	237	253	272	286
Conventional Machining as a Special Process	10	39	59	76	79	101	113	116
Elastomer Seals	12	15	15	15	17	18	18	19
Electronics	59	83	106	119	134	148	168	178
Fluid Distribution Systems	35	35	36	37	43	45	45	50
Heat Treating	897	943	1,041	1,098	1,141	1,177	1,222	1,261
Materials Testing	285	294	308	317	331	342	352	365
Measurement and Inspection	0	0	0	0	1	16	65	214
Metallic Materials Manufacturing	0	0	0	0	0	0	0	2
Non Metallic Materials Manufacturing	0	2	7	11	16	23	26	31
Non Metallic Materials Testing	18	27	27	35	41	42	48	61
<u>NonDestructive Testing</u>	1,339	1,382	1,537	1,607	1,676	1,745	1,824	1,893
Nonconventional Machining	278	304	331	343	346	358	381	384
Sealants	20	20	21	22	23	26	24	26
Surface Enhancement	210	218	248	267	277	296	312	318
Welding	623	653	720	756	768	795	810	829

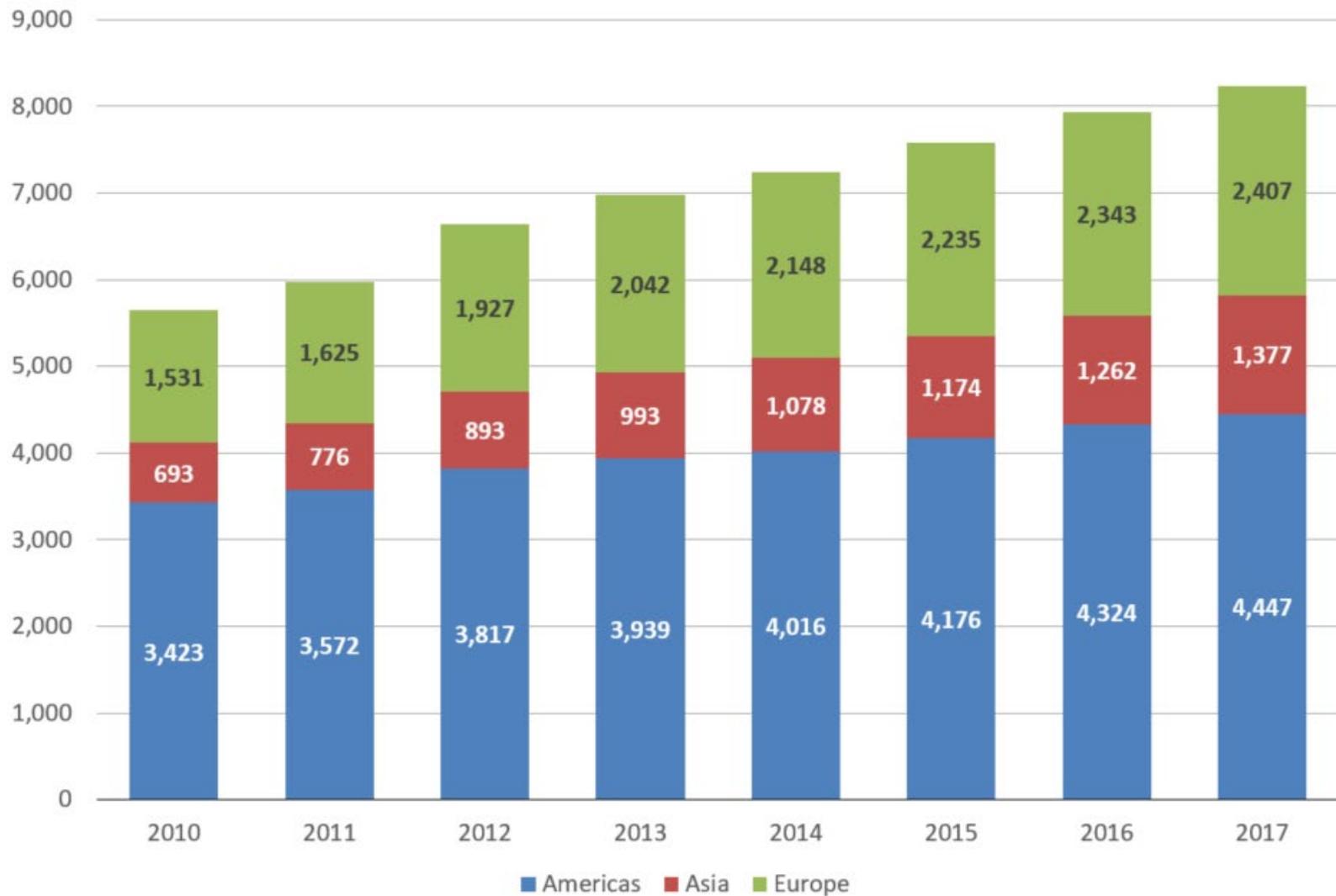
Audits by Region



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Active Accreditations (Certificates) by Region



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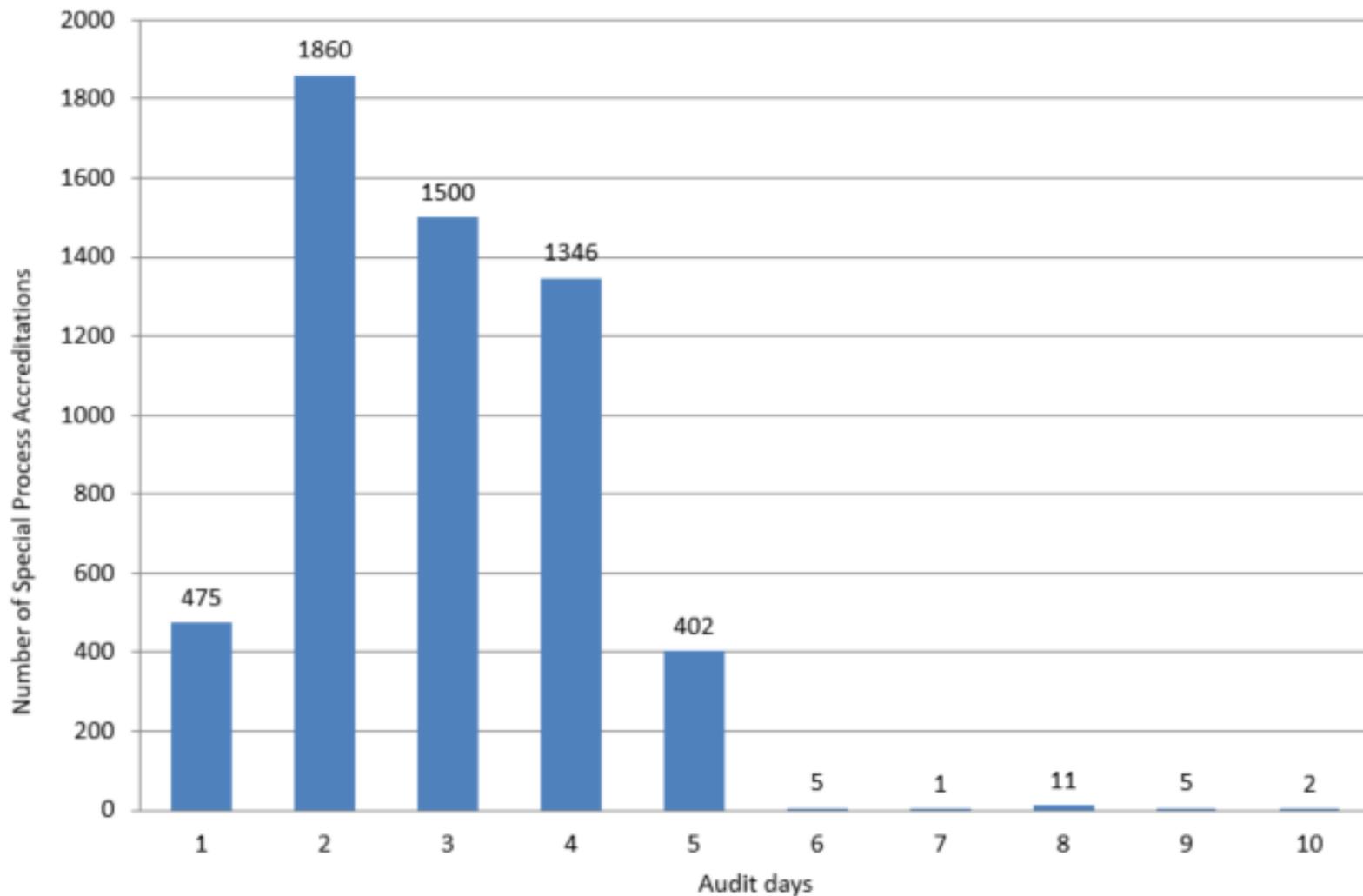
Average Audit Days (2017 Data)

Commodity	Average Audit Days
AQS	1.0
CMPS	2.3
COMP	3.2
CP	3.2
CT	3.4
ETG	3.6
FLU	2.1
HT	3.8
MI	2.3
MMM	3.0
MTL	3.6
NDT	2.7
NM	2.2
NMMM	3.0
NMMT	2.4
SE	2.0
SEAL	2.1
SLT	1.4
WLD	2.5
Overall Average	2.9

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Accreditations (Certificates) per Supplier Location (as of January 2017 - excludes AQS and Subscriber Accreditations)

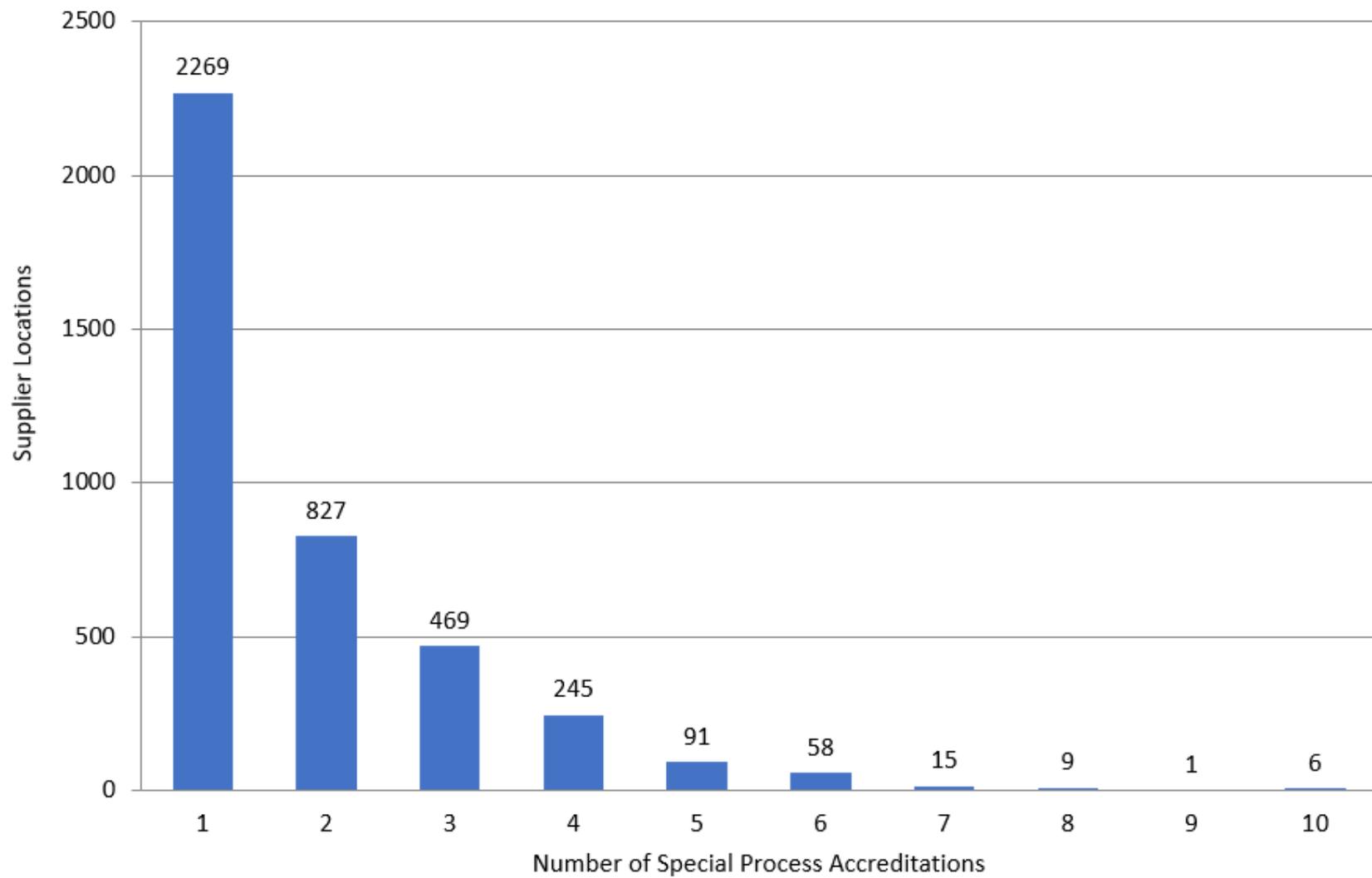


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Accreditations (Certificates) per Supplier Location (as of January 2018 - excludes AQS and Subscriber Accreditations)



Sample of Auditor Experience

Process	Experience Summary
Aerospace Quality Systems (AQS)	60% ISO Lead Assessors; Average 30 Years Experience
Chemical Processing (CP)	70% Have B.S Degree; 22 % Have MS Degree; 11% Have PHD; Average 35 Years Experience
Coatings (CT)	100% Have B.S Degree; 20% Have MS. Degree; 20% Have PHD; Average 30 Years Experience
Composites (COMP)	100% Have B.S. Engineering; 100% Have MS Engineering; Average 15 Years Experience
Elastomer Seals (SEAL)	50% B.S. Engineering; 30 Years Experience
Fluid Distribution Systems (FLU)	100% Have B.S. Engineering; Average 35 Years Experience
Heat Treating (HT)	80% Have B.S in Metallurgy/Material Science; 30% Have M.S. in Metallurgy/Material Science; Average 33 Years Experience; Certified Quality Engineer/Auditor
Materials Testing Laboratories (MTL)	90% Have B.S Degrees; 50% Have MS Degrees; 20% Have PHD; Certified Quality Engineer/Auditor; Average 35 Years Experience
Nonconventional Machining (NMMT)	80% Have B.S. Engineering; 40% Have MS Engineering; 20% Have PHD Engineering; Average 32 Years Experience
Nondestructive Testing (NDT)	100% are Level III' s for Four (4) Methods; 44% Have Bachelors of Science Degrees; Average 30 years of Experience
Sealants (SLT)	50% Have PHD; Average 30 Years Experience
Surface Enhancement (SE)	80% Have B.S. Engineering; 40% Have MS Engineering; 20% Have PHD Engineering; Average 32 Years Experience
Welding (WLD)	60% Have B.S Degree; 30% Have MS Degree; Average 34 Years Experience

QUALITY IMPROVEMENTS FOR SUPPLIERS (SSC 2013 SURVEY RESULTS)

An increasing percentage of Nadcap accredited companies report quality improvement in the area(s) related to their Nadcap accreditation(s).

